

May 11, 2021

Ms. Jennifer Dorman
Environmental Program Associate
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
2300 N. Dr. Martin Luther King Jr. Drive
Milwaukee, WI 53212-3128

via WDNR Submittal Portal

Subject: Supplemental Site Investigation Report
Milwaukee Die Casting Company Site
4132 North Holton Street, Milwaukee, Wisconsin
WDNR BRRTS # 02-41-000023
WDNR FID # 241228240

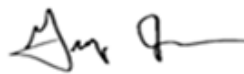
Dear Ms. Dorman,

Please find enclosed the *Supplemental Site Investigation Report* (Report) for the Milwaukee Die Casting Company Site. This Report is being submitted on behalf of Pharmacia LLC (Pharmacia), which is acting on behalf of Fisher Controls International, Inc. (Fisher) in this matter.¹

Pharmacia is requesting Wisconsin Department of Natural Resources (WDNR) review and approval of this Report. The \$1,050 review fee (check # 2645) has been mailed and received by WDNR.

Please contact me if you have any questions regarding this submittal.

Sincerely,



Greg Johnson, P.H., P.G., P.E.
Senior Engineer
(licensed P.E. in WI, P.H. in WI, P.G. in IL, WI)

Enclosure

cc: Mr. Stephen Mueller, WDNR
Mr. Christopher Clark, Pharmacia LLC
Ms. Mary Jo Anzia, BSI

¹ By submitting the enclosed Report, neither Pharmacia nor Fisher is waiving any of its rights under federal or state law. Additionally, nothing in this Report should be deemed an admission of fact or law, or a waiver of any defense or right to contest Pharmacia's or Fisher's liability under any state or federal law.

Prepared for
Pharmacia LLC

SUPPLEMENTAL SITE INVESTIGATION REPORT

Milwaukee Die Casting Company Site

4132 North Holton Street

Milwaukee, Wisconsin

WDNR BRRTS # 02-41-000023

WDNR FID # 241228240

Prepared by

Geosyntec 
consultants

10600 N. Port Washington Road, Suite 100

Mequon, Wisconsin 53092

Project Number CHW8271N

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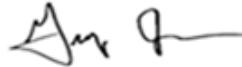
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EXECUTIVE SUMMARY

This Supplemental Site Investigation Report (“Report”) documents the post-removal action supplemental site investigation (“SSI”) at the Milwaukee Die Casting Company (MDCC) site located at 4132 North Holton Street, Milwaukee, Wisconsin (“Site”) [Wisconsin Department of Natural Resources (WDNR) Bureau for Remediation and Redevelopment Tracking System (BRRTS) # 02-41-000023].

The SSI was conducted by Pharmacia LLC pursuant to the requirements of an August 10, 2018 WDNR notice letter and in accordance with a WDNR-approved November 12, 2019 *Updated Site Investigation Work Plan* and related WDNR correspondence. The SSI included additional groundwater investigation and soil vapor pathway investigation.

The SSI follows the completion of significant removal action activities at the Site pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund) between 2013 and 2015 in accordance with an Administrative Settlement Agreement and Order on Consent for Removal Action (AOC) with the United States Environmental Protection Agency (USEPA). The USEPA provided a notice of completion of work under the AOC in an August 20, 2018 letter.

The SSI groundwater investigation was conducted to evaluate post-removal action groundwater quality and potential preferential migration pathways. The additional groundwater investigation included the installation and sampling (two rounds) of 14 groundwater monitoring wells (MW-1 to MW-14) and three piezometers (PZ-1, PZ-2 and PZ-10). The groundwater samples were analyzed for volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs) (filtered and non-filtered), semi-volatile organic compounds (SVOCs), 1,4-dioxane, and select monitored natural attenuation (MNA) indicator parameters (ethane, ethene, methane and total organic carbon). The additional groundwater investigation results indicate the following:

- PCBs (filtered and non-filtered) were not detected in groundwater at any of the on-Site or off-Site groundwater monitoring wells or piezometers;
- The primary post-removal action residual groundwater constituents [tetrachloroethene (PCE), trichloroethene (TCE) and degradation products] were detected at on-Site monitoring well/piezometer nest MW-1/PZ-1 (southwest portion of former building) at concentrations greater than Wisconsin Administrative Code NR 140 enforcement standards (ESs). These residual concentrations appear to be associated with a former area of elevated unsaturated soil chlorinated volatile organic compounds (CVOCs) (and potentially a proximate former TCE underground storage tank). The former area of unsaturated soil CVOCs was excavated and disposed of as part of the removal action. Residual CVOCs in deeper groundwater (PZ-1) are an order of

magnitude less than shallow groundwater (MW-1); however, concentrations of several CVOCs at PZ-1 are greater than NR 140 ESs. The vertical extent of residual CVOC concentrations has not been established at MW-1/PZ-1;

- Post-removal action residual CVOC groundwater concentrations greater than NR 140 ESs do not extend off-Site; therefore, there is no indication that proximate off-Site east sanitary and storm sewers (or their trench backfill materials) are significant preferential migration pathways for residual groundwater CVOCs;
- Multiple lines of evidence indicate that the on-Site residual groundwater CVOCs are effectively naturally attenuating through reductive de-chlorination;
- Lower concentration residual CVOCs in groundwater detected at on-Site monitoring wells MW-2 (northwest portion of the former building) and MW-4 (northeast portion of the Site) (above NR 140 ESs) appear limited and isolated;
- An isolated detection of 1,4-dioxane in off-Site groundwater at monitoring well MW-6 does not appear to be Site related; and
- Reported low concentrations of three SVOCs detected in only the second round of groundwater sampling are not considered significant (detected concentrations are less than NR 140 ESs) and are likely not Site related.

Based on these results, limited additional groundwater investigation is planned to further assess the vertical extent of CVOC concentrations greater than NR 140 ESs at MW-1/PZ-1. Subsequent MNA groundwater monitoring is planned to collect sufficient data to confirm that post-removal action residual CVOCs are effectively naturally attenuating.

The soil vapor pathway investigation was conducted to evaluate post-removal action off-Site soil vapor migration preferential pathways and included the installation and sampling (two rounds) of six soil gas probes. The soil vapor pathway investigation results indicate the following:

- While low concentrations of PCE and/or TCE were reported as detected at SG-1, SG-2, and SG-3 on the west margin of the Site (advanced near former natural gas and water lateral locations), the detections were less than applicable screening levels. The detected PCE and TCE concentrations are three to five orders of magnitude less than WDNR Large Commercial/Industrial deep soil gas vapor risk screening levels (VRSLs). In addition, CVOCs were not detected in groundwater at proximate groundwater monitoring well MW-13;
- CVOCs were reported as detected in soil gas at east off-Site soil gas probes SG-5, SG-6, and SG-7 installed adjacent to groundwater monitoring wells MW-5, MW-6 and MW-14, respectively, and adjacent to the proximate off-Site east sanitary and storm sewers. The detected CVOC concentrations are all less than WDNR Large Commercial/Industrial deep soil gas VRSLs;

- Data evaluation pursuant to WDNR vapor intrusion guidance demonstrate that off-Site east sanitary and storm sewers do not transect a CVOC source area; and
- Data evaluation pursuant to Department of Defense (DOD) Environmental Security Technology Certification Program (ESTCP) guidance demonstrate that there is no indication that the sewers act as significant vapor migration preferential pathways.

Pursuant to the Site “continuing obligations” documented in the June 1, 2018 WDNR *Approval of Remedial Action and Post-Removal Site Control Plan*, a vapor intrusion assessment and WDNR approval are required for all new buildings constructed on the Site and the two adjacent sites to the east. Based on the investigation results and the protections provided by the continuing obligations, further soil vapor pathway assessment is not warranted.

Based on a per- and polyfluoroalkyl substances (PFAS) screening assessment conducted pursuant to an August 17, 2020 WDNR *Reminder to Include Evaluation of Emerging Contaminants in Site Investigation* letter, there is no indication of PFAS releases to Site soil and/or groundwater related to former Site operations. Therefore, further PFAS assessment is not warranted.

An *Additional Groundwater Investigation Work Plan and Groundwater Monitoring Plan* will be prepared and submitted to WDNR for review and approval. This plan will document the scope and procedures for additional limited groundwater investigation [i.e., installation of supplemental piezometer(s)] and MNA groundwater monitoring.

As documented in the March 18, 2021 *Additional Groundwater Sampling Event* letter, an additional groundwater sampling event was conducted in April 2021 to maintain a quarterly sampling schedule. These data will be provided in the *Additional Groundwater Investigation Work Plan and Groundwater Monitoring Plan*.

1. INTRODUCTION

This Supplemental Site Investigation Report (“Report”) was prepared by Geosyntec Consultants (Geosyntec) on behalf of Pharmacia LLC (Pharmacia) for the Milwaukee Die Casting Company (MDCC) site located at 4132 North Holton Street, Milwaukee, Wisconsin (“Site”) [Wisconsin Department of Natural Resources (WDNR) Bureau for Remediation and Redevelopment Tracking System (BRRTS) # 02-41-000023]. Pharmacia is acting on behalf of Fisher Controls International, Inc. (Fisher) in this matter.¹

The Wisconsin Administrative Code NR 712.09 submittal certification is provided in **Appendix 1**.

1.1 Report Basis

This Report was prepared pursuant to the following, which are incorporated into this Report by reference:

- Item 4 on Page 3 of the WDNR August 10, 2018 letter to Pharmacia and Fisher, referred to hereafter as the “WDNR Notice Letter”;
- Wisconsin Administrative Code NR 716.15;
- December 14, 2018 *Site Investigation Work Plan* (prepared by Geosyntec on behalf of Pharmacia), referred to hereafter as the “Work Plan”;
- February 13, 2019 WDNR email comments to the December 14, 2018 Site Investigation Work Plan;
- February 28, 2019 WDNR email response to Geosyntec (on behalf of Pharmacia) February 27, 2019 email note;
- April 2, 2019 Responses to WDNR Comments (letter prepared by Geosyntec on behalf of Pharmacia);
- June 28, 2019 WDNR email providing supplemental comments (to the Work Plan and the April 2, 2019 Responses to WDNR Comments);
- August 22, 2019 Responses to WDNR Supplemental Comments (letter prepared by Geosyntec on behalf of Pharmacia);
- November 12, 2019 *Updated Site Investigation Work Plan* (prepared by Geosyntec on behalf of Pharmacia), referred to hereafter as the “Updated Work Plan”;

¹ By submitting this Report, neither Pharmacia nor Fisher is waiving any of its rights under federal or state law. Additionally, nothing in this Report should be deemed an admission of fact or law, or a waiver of any defense or right to contest Pharmacia’s or Fisher’s liability under any state or federal law.

- December 19, 2019 WDNR Updated Work Plan approval letter (with additional comments);
- August 17, 2020 WDNR *Reminder to Include Evaluation of Emerging Contaminants in Site Investigation* letter, including per- and polyfluoroalkyl substances (PFAS);
- December 1, 2020 *Site Investigation Work Plan Modification* letter (prepared by Geosyntec on behalf of Pharmacia);
- December 18, 2020 WDNR email response (to the December 1, 2020 Site Investigation Work Plan Modification); and
- March 18, 2021 *Additional Groundwater Sampling Event* letter (prepared by Geosyntec on behalf of Pharmacia).

1.2 Supplemental Site Investigation Regulatory Summary

The Work Plan was based on the WDNR Notice Letter. WDNR asserted in the WDNR Notice Letter that tetrachloroethene (PCE), trichloroethene (TCE), and related breakdown products are the primary groundwater contaminants of concern (COCs) at the Site. The Work Plan was prepared consistent with this assertion. WDNR subsequently requested in comments to the Work Plan that additional groundwater investigation include polychlorinated biphenyls (PCBs) (filtered and unfiltered) and semi-volatile organic compound (SVOC), including 1,4-dioxane, analysis in addition to volatile organic compound (VOC) analysis for the planned initial two rounds of groundwater sampling. As documented in the April 4, 2019 Responses to WDNR Comments and the August 22, 2019 Responses to WDNR Supplemental Comments, these parameters were added to the planned initial two rounds of sampling, despite Pharmacia's written objection to the addition of SVOCs, including 1,4-dioxane.

In addition, WDNR requested in comments to the Work Plan that the utility assessment, which was a planned task in the Work Plan, be conducted prior to and the findings incorporated into the Updated Work Plan. The utility assessment was subsequently completed, and the findings were incorporated into the Updated Work Plan.

In WDNR's December 19, 2019 Site Investigation Work Plan approval letter (approval of the Updated Work Plan), WDNR requested in comments that an additional groundwater monitoring well be installed near the southwest corner of the Site and that soil gas probes SG-5, SG-6 and SG-7 be moved adjacent to the off-Site east sanitary and storm sewers. An additional groundwater monitoring well (MW-14) was subsequently added to the Supplemental Site Investigation ("SSI") scope and the soil gas probes were moved to the requested locations adjacent to groundwater monitoring wells MW-5, MW-6 and MW-14, respectively (adjacent to the off-Site east sanitary and storm sewers).

In an April 2020 telephone communication, Geosyntec (on behalf of Pharmacia) notified WDNR that minor locational changes were made to several of the groundwater monitoring wells due to boring clearance safety protocols. WDNR approved the locational changes during the telephone communication and in a follow-up email on April 17, 2020.

In a December 1, 2020 *Site Investigation Work Plan Modification* letter to WDNR, Pharmacia requested a modification to the scope of groundwater sampling (eliminating PCBs and SVOCs for the second round of sampling) and provided notice to the WDNR of planned additional soil gas sampling.² The requested modification to the groundwater sampling scope was based upon analytical results for the first round of groundwater sampling in which SVOCs and PCBs were not detected in groundwater at any of groundwater monitoring wells piezometers. In December 18, 2020 email correspondence, WDNR requested that the second round of groundwater sampling maintain the parameters identified in the WDNR-approved Updated Work Plan. Subsequently, the second round of groundwater sampling included SVOCs and PCBs consistent with the Updated Work Plan.

In a March 18, 2021 *Additional Groundwater Sampling Event* letter, Pharmacia notified the WDNR of a planned additional groundwater sampling event scheduled for April 2021. WDNR acknowledged receipt of the letter in March 18, 2021 email correspondence.

1.3 Report Organization

This Report includes the following sections:

- Section 1: Introduction;
- Section 2: General and Background Information;
- Section 3: Additional Groundwater Investigation;
- Section 4: Vapor Pathway Investigation;
- Section 5: IDW Management;
- Section 6: PFAS Screening Assessment;
- Section 7: Summary and Conclusions;
- Section 8: Planned Activities and Schedule; and
- Section 9: References.

² One round of soil gas sampling was originally planned pursuant to the WDNR-approved Updated Work Plan.

2. GENERAL AND BACKGROUND INFORMATION

This section summarizes the general and background information pursuant to NR 716.15(2)(c) and NR 716.15(2)(d) including Site contact, ownership, location, description, previous groundwater investigation, removal action, WDNR continuing obligations, and physiographical and geological setting information.

2.1 Contact Information

Site contact information is summarized in the following table:

Responsible Party Contacts ³	Pharmacia LLC Christopher J. Clark, Vice President 235 E. 42 nd Street, 219/05/01 New York, NY 10017 212.733.5997 Christopher.J.Clark@pfizer.com Mary Jo Anzia, P.E., Pharmacia Project Manager c/o BSI Consulting Services 216 N. Green Bay Rd., Suite 201 Thiensville, WI, 53092 262.292.6080 MaryJo.Anzia@bsigroup.com
Consultant Contact	Geosyntec Consultants Greg Johnson, P.H., P.G., P.E., Senior Engineer 10600 North Port Washington Rd. Suite 100 Mequon, WI 53092 262.834.0226 gjohnson@geosyntec.com

2.2 Site Ownership

The Site is currently owned by the Redevelopment Authority of the City of Milwaukee (RACM).

2.3 Site Location

The Site location is depicted on **Figure 1**. Site location information is summarized in the following table:

³ Pharmacia is acting on behalf of Fisher in this matter.

Address	4132 North Holton Street Milwaukee, Wisconsin
Parcel ID (Tax Key number)	2419982000
Public Land Survey System (PLSS) Description	SW ¼ of the SW ¼ of Sec 4, T07N, R22E
Wisconsin Transverse Mercator (WTM) Coordinates	690593, 293172
Latitude, Longitude (WGS84)	43.0920757, -87.9039482

2.4 Site Description

2.4.1 Current Site Conditions

The Site is a 3.7-acre vacant, grass-covered parcel. Site removal action activities included Site capping and a vegetative cover. The Site cap consists of three components (i.e., clay cap, soil cover, and topsoil cover) as depicted on **Figure 2**.

The Site ground surface topography slopes from west to east as depicted on **Figure 2**. Site stormwater runoff flows by overland flow with the topography towards a shallow swale adjacent to the eastern Site boundary. The swale conveys stormwater to a storm sewer catch basin northeast of the Site.

The Site vicinity generally consists of light industrial, institutional, and commercial land use. The Site is bordered to the west by North Holton Street and a Wisconsin Army National Guard facility, to the north by a parking lot (Phoenix Cudahy LLC), to the east by vacant land (Phoenix Cudahy, LLC/Pamida Seven, LLC and Scripps Media, Inc.), and to the south by a parking lot and storage facility (DIV HDV Milwaukee I LLC).

2.4.2 Former Site Conditions

Prior to Site removal action activities, the Site was developed with a centrally-located, approximately 70,000-square-foot industrial building formerly used for die-casting operations. The building was reportedly constructed in the early 1950s with an addition constructed in the mid-1960s. Die casting operations reportedly ceased in 1997. The building was demolished as part of the Site removal action. The former building footprint is depicted on **Figure 2**.

On-Site subsurface utilities were removed/abandoned as part of the Site removal action. The former Site subsurface utilities are depicted on **Figure 3** and **Figure A2-1 (Appendix 2)**.

Historical records document the former presence of a TCE underground storage tank (UST) in the southwest portion of the Site (exterior of the southwest corner of the

former building).⁴ The approximate location of the former TCE UST is depicted on **Figure 6A**.

2.4.3 Proximate Off-Site Subsurface Utilities

On-Site subsurface utilities were removed as part of the Site removal action. An assessment of proximate off-Site subsurface utilities was conducted in September 2019 to assist in establishing groundwater and vapor pathway investigation locations, and in accordance with the WDNR request. The assessment included Diggers Hotline marking and records review, City of Milwaukee records review, and field surveying. The assessment findings were documented in the Updated Work Plan. The proximate off-Site subsurface utility information is provided on **Figure A2-1** and **Figure A2-2 (Appendix 2)**.⁵

2.5 Previous Groundwater Investigation Summary

Pre-removal action groundwater sampling conducted between 1998 and 2013 reported CVOC and PCB groundwater concentrations greater than Wisconsin Administrative Code NR 140 enforcement standards (ESs). The reported CVOCs consisted of TCE and PCE and their degradation products [cis-1,2- and trans-1,2-dichloroethene (DCE) and vinyl chloride]. The pre-removal action groundwater data were provided in the Updated Work Plan. The previous groundwater monitoring wells were abandoned in accordance with NR 141 during the Site removal action.

2.6 Removal Action Summary

Significant removal action activities were conducted at the Site pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund) by Pharmacia and Fisher between 2013 and 2015 in accordance with an Administrative Settlement Agreement and Order on Consent for Removal Action (AOC) with the United States Environmental Protection Agency (USEPA), effective date March 12, 2013 (USEPA, 2013). The Site removal action included, among other activities, the

⁴ Historical information presented in this Report is based on information provided by others and has been relied on as accurate. If it is determined that this information is inaccurate or incomplete, this Report and any associated reports may be revised, amended and/or supplemented as appropriate. The approximate former TCE UST location is documented in multiple historical reports including the *Summary Report: Spring 2005 Investigation* (Arcadis, 2008).

⁵ A supplemental field assessment was conducted in March 2021 to confirm the presence of the storm sewer segment that was previously depicted extending north from MH 7 on Figure 3A of the Updated Work Plan. The assessment revealed that this previously depicted storm sewer segment was capped with concrete at MH 7. Therefore, the storm sewer segment north from MH 7 has been removed from figures included in this Report.

excavation and off-site disposal of unsaturated soil containing CVOCs and the excavation and disposal or relocation (within capped area) of soil with PCBs. The USEPA issued a *Notification of Completion-Compliance with Settlement Agreement* on August 20, 2018 (USEPA, 2018).

The approximate extent of removal action soil excavation is depicted on **Figure 2**.

2.7 WDNR Continuing Obligations

The Site is subject to “continuing obligations” pursuant to a June 1, 2018 WDNR *Approval of Remedial Action and Post-Removal Site Control Plan* issued to Pharmacia and RACM. The continuing obligations include the following requirements:

- Maintenance, and WDNR approval for disturbance, of the Site cap including the clay cap, soil cover, and topsoil cover, in accordance with the WDNR-approved Cap Maintenance Plan;
- WDNR approval for construction of a water supply well on the Site and two adjacent properties to the east [4132 (R) N. Holton Street, Phoenix Cudahy LLC/Pamida Seven LLC and 720 E. Capital Drive, Scripps Media, Inc.] (the “East Adjacent Properties”);
- Vapor intrusion assessment, and WDNR approval, for new buildings constructed on the Site and the East Adjacent Properties;
- Proper management provisions for soil excavated on the Site, the East Adjacent Properties, and two adjacent properties to the north [4198 N. Holton Street and 4198 (AD) N. Holton Street, Phoenix Cudahy LLC] (the “North Adjacent Properties”); and
- The Site, the East Adjacent Properties, and the North Adjacent Properties are restricted to industrial use unless approved by WDNR.

2.8 Physiographical and Geological Setting

Site vicinity topography generally slopes to the east towards the Milwaukee River as depicted on **Figure 1**.

The Site is located within the Milwaukee River watershed. The Milwaukee River is located approximately 500 feet east of the Site as depicted on **Figure 1**. Lake Michigan is located approximately 1.5 miles east of the Site.

The regional surficial geology consists of glacial till and discontinuous lacustrine and outwash deposits. Bedrock of the Milwaukee Formation (dolomite, dolomitic siltstone, and shale) underlies the glacial till in the Site vicinity (WGNHS, 2004a). The depth to bedrock in the Site vicinity is approximately 50 to 100 feet below ground surface (bgs) (WGNHS, 2004b).

Historic soil fill of varying composition and thickness is common to the urban Milwaukee region and is present on the Site and in the Site vicinity.

Removal action activities modified the subsurface conditions at the Site. Removal action excavation depths ranged from approximately 2 to 20 feet bgs. The approximate extent of removal action soil excavation is depicted on **Figure 2**. The removal action excavation areas were backfilled and compacted with documented clean off-Site borrow source soil and relocated on-Site and proximate off-Site soil. Further, a cap was constructed over the Site consisting of three components (2-foot clay cap, 2-foot soil cover, and 6-inch topsoil cover) as depicted on **Figure 2**.

3. ADDITIONAL GROUNDWATER INVESTIGATION

Pursuant to NR 716.15(2)(e), NR 716.15(3) and NR 716.15(4), this section provides the additional groundwater investigation objectives, scope and procedures, data compilation and validation, results, and an evaluation of the results.

The additional groundwater field investigation was conducted between August 2020 and January 2021. The groundwater monitoring wells and piezometers were installed in August/September 2020 and sampled in September/October 2020 and January 2021.

3.1 Objectives

As documented in the Updated Work Plan, the objectives of the additional groundwater investigation were to evaluate post-removal action groundwater quality, potential migration pathways, and specific areas identified by WDNR on Pages 4 and 5 of the WDNR Notice Letter including the following:⁶

- Area adjacent to storm and sanitary sewers to the east (downgradient) of the Site to assess the sewers as preferential migration pathways;
- Area of former TCE UST (and area of former groundwater monitoring well GMMW-104) in the southwest portion of the Site;
- Area of abandoned underground gas line trending west of the northwest corner of the former building and upgradient of former groundwater monitoring well GMMW-102;
- Area of former electrical transformers in the southeast portion of the Site; and
- Additional locations as needed to assess general groundwater flow patterns and quality across the Site.

3.2 Scope and Procedures

The scope of the additional groundwater investigation consisted of the following:

- Installing and developing 14 groundwater monitoring wells (MW-1 to MW-14);
- Installing and developing three piezometers (PZ-1, PZ-2 and PZ-10);
- VOC field screening of soil samples with a photo-ionization detector (PID);

⁶ The rationale for monitoring well and piezometer locations to satisfy the additional groundwater investigation objectives was documented in Section 5.2 of the WDNR-approved Updated Work Plan. These locations were implemented with minor locational changes as described in Section 3.2 of this Report.

- Collecting one soil sample from the screen interval of each groundwater monitoring well and piezometer for grain size distribution testing;
- Collecting characterization soil samples prior to and during groundwater monitoring well/piezometer installation and analyzing the samples for VOCs, PCBs and Protocol B parameters to support investigation-derived waste (IDW) management;
- Surveying the locations and elevations (ground surface and top of casing) of the groundwater monitoring wells and piezometers;
- Conducting two rounds of groundwater sampling, including the measurement of groundwater levels; and
- Analyzing groundwater samples for VOCs, PCBs (filtered and unfiltered), SVOCs, 1,4-dioxane and select monitored natural attenuation (MNA) indicator parameters [ethane, ethene, methane, and total organic carbon (TOC)].

The scope and procedures of the additional groundwater investigation were consistent with the Updated Work Plan with the following exceptions:

- One additional groundwater monitoring well (MW-14) was installed pursuant to WDNR's December 19, 2020 letter comment request;
- Minor locational changes were made to several of the groundwater monitoring wells due to boring clearance safety protocols as communicated to WDNR in April 2020 correspondence; and
- In the first round of groundwater sampling, two monitoring wells (MW-10 and MW-11) did not produce sufficient groundwater for the analysis of all the scoped parameters. Specifically, SVOCs and MNA indicator parameters for the MW-10 groundwater sample, and SVOCs, MNA indicator parameters, and filtered PCBs for the MW-11 groundwater sample were not analyzed.

The groundwater monitoring wells were installed by GESTRA Engineering, Inc. (GESTRA) and developed by GESTRA and Geosyntec. Groundwater monitoring well installation included hydro-vac and hand-auger boring clearance conducted by Badger Daylighting Corp and Geosyntec, respectively. The monitoring wells were surveyed by TerraTec Engineering, LLC (TerraTec). Groundwater sampling was conducted by Geosyntec and groundwater sample analytical laboratory testing was conducted by NR 149 accredited laboratories Environmental Monitoring and Technologies, Inc. (EMT) and EMT subcontractor Pace Analytical Services, LLC (Pace Analytical). GESTRA conducted the grain size distribution testing.

3.3 Data Compilation and Validation

The additional groundwater investigation soil boring and well construction and development field data were reviewed and compiled on soil boring logs (WDNR Form

4400-122), well construction forms (WDNR Form 4400-113A) and well development forms (WDNR Form 4400-113B). The completed logs and forms are included in **Appendix 3**. VOC field screening (PID reading) data are included on the soil boring logs.

Survey data were reviewed and compiled on the boring logs, well construction forms, and tables included in this Report.

Groundwater level data and groundwater sample analytical data were compiled on summary tables and figures included in this Report.

The quality of the groundwater sample laboratory analytical data were validated by reviewing the chain-of-custody forms, holding times, analytical detection limits, results of field quality assurance/quality control (QA/QC) sample analyses, and laboratory QA/QC results (method blanks, surrogates, and laboratory control samples). Data validation qualifiers were added to the groundwater analytical summary table (**Table 2**). Based on the data validation, the groundwater data are considered valid. The groundwater data validation reports are included in **Appendix 4**.

3.4 Results

3.4.1 Soil Boring and Grain Size Testing Data

The additional groundwater investigation soil boring logs are included in **Appendix 3**. The soil boring logs document the following general stratigraphy at the Site (and proximate off-Site area east of the Site) which is summarized below and depicted on **Figure 4** (Section A-A’):

- Soil fill underlies the Site cap to depths ranging from approximately 4 to 12 feet bgs. The character of the soil fill varies across the Site but is predominantly clay with varying amounts of silt, sand, and gravel;
- Very stiff to hard glacial till underlies the soil fill. The glacial till is predominantly silt; however, the till varies from sandy silt to silty clay and contains varying amounts of sand and gravel, including discontinuous sand lenses; and
- A discontinuous clay unit was observed between the soil fill and the glacial till in the eastern portion of the Site.

Soil samples were collected from the screen interval of each groundwater monitoring well and piezometer for grain size distribution testing. The grain size testing laboratory reports are provided in **Appendix 3**. The following table provides a summary of the screen interval grain size testing data:

Monitoring Unit	Screen Interval Range (feet bgs)	% Gravel Average (Range)	% Sand Average (Range)	% Silt and Clay Average (Range)
Shallow Groundwater (Groundwater Monitoring Wells)	5 to 18	9.3 (0.0 to 34.0)	35.7 (0.9 to 66.6)	55.0 (20.4 to 99.1)
Deeper Groundwater (Piezometers)	28 to 37	13.0 (4.6 to 26.8)	41.5 (38.2 to 46.3)	45.5 (34.9 to 52.6)

The grain size distribution testing data show the heterogeneity of the soil fill and variability of the underlying glacial deposits at the Site and that shallow groundwater is predominantly located within fine-grained soil fill and glacial till.

Soil sample VOC field screening (PID) data are documented on the soil boring logs. The only elevated PID readings were measured in soil samples collected from the MW-1/PZ-1 soil boring (between approximately 10 and 20 feet bgs) where PID readings ranged from 11 to 290 instrument units (refer to the PZ-1 boring log in **Appendix 3**). PID readings at the other 14 groundwater monitoring well/piezometer soil borings ranged from 0 to 5 instrument units, with PID readings less than 1 instrument unit at 10 of these soil borings.

3.4.2 Groundwater Elevation Data

Groundwater depth and elevation data are summarized in **Table 1**. Shallow groundwater and deeper groundwater elevation data are also presented on **Figure 5A** and **Figure 5B**, respectively.

Shallow Groundwater

For the most recent round of groundwater sampling (January 18, 2021), the depth to groundwater in monitoring wells ranged from 1.66 to 9.50 feet bgs with an average of 5.81 feet bgs. Groundwater elevations ranged from 643.45 feet above mean sea level (amsl) at MW-13 on the west margin of the Site to 628.11 feet amsl at off-Site (east) monitoring well MW-10. A shallow groundwater elevation contour map is provided as **Figure 5A**. This map depicts shallow groundwater flow to the east which is consistent with historical groundwater flow data.

Deeper Groundwater

For the most recent round of groundwater sampling (January 18, 2021), the piezometric elevations ranged from 642.47 feet amsl at on-Site piezometer PZ-1 to 616.41 feet amsl at off-site east piezometer PZ-10. A piezometric elevation contour map is provided as **Figure 5B**. This map depicts deeper groundwater flow to the east-northeast.

Vertical Gradient

Monitoring well/piezometer nest elevation data [MW-1 (642.65 feet)/PZ-1 (642.47 feet) and MW-2 (642.17 feet/641.17 feet)] indicate a slight downward gradient at the Site.

3.4.3 Groundwater Sample Laboratory Analytical Data

The additional groundwater investigation laboratory reports are provided in **Appendix 4**. A summary of the groundwater sample analytical data is provided in **Table 2**. The data are further summarized as follows:

Chlorinated VOCs

TCE and TCE degradation products (cis-1,2-DCE, 1,1-DCE and/or vinyl chloride) were reported as detected in groundwater in both rounds of sampling at concentrations greater than NR 140 ESs at on-Site groundwater monitoring wells MW-1, MW-2, MW-4, and MW-7 and on-Site piezometer PZ-1. PCE was reported as detected at concentrations greater than the NR 140 ES at MW-1 and MW-2. CVOCs were not detected in groundwater at on-Site groundwater monitoring wells MW-3, MW-12 or MW-13 or piezometer PZ-2.

CVOCs reported as detected in groundwater in both rounds of sampling at off-Site groundwater monitoring wells and piezometers are limited to cis-1,2-DCE at MW-6 and MW-14 and 1,2-DCA at MW-6 at concentrations less than NR 140 ESs. CVOCs were not detected in groundwater at off-Site groundwater monitoring wells MW-5, MW-8, MW-9, MW-10 or MW-11 or piezometer PZ-10.

The CVOC groundwater data are summarized on **Figure 6A** (Groundwater Data Summary Map - Shallow Groundwater CVOCs) and **Figure 6B** (Groundwater Data Summary Map - Deeper Groundwater CVOCs). The CVOC groundwater data along the primary CVOC groundwater flow path at the Site are depicted on **Figure 4** (Section A-A').

PCBs

PCBs (filtered and non-filtered) were not detected in groundwater at any of the on-Site or off-Site groundwater monitoring wells or piezometers.

1,4-Dioxane and SVOCs

1,4-dioxane was reported as detected in groundwater at one off-site groundwater monitoring well (MW-6) in both sampling rounds. The reported 1,4-dioxane concentrations at MW-6 are greater than the NR 140 ES.

SVOCs were not detected in groundwater in the first round of sampling at any of the on-Site or off-Site groundwater monitoring wells or piezometers. In the second round of sampling, anomalous, low detections of benzo(a)anthracene and chrysene were reported as detected in the PZ-1 duplicate sample (SVOCs were not detected in the PZ-1 sample) and a trace estimated (J-qualified) concentration of phenol was reported as detected in the MW-9 sample.

3.5 Evaluation of Results

This section summarizes an evaluation of the additional groundwater investigation results.

Chlorinated VOCs

The additional groundwater investigation results, as summarized above and on **Figure 4**, **Figure 6A** and **Figure 6B**, indicate the following regarding post-removal action residual CVOC groundwater concentrations at the Site:

- The primary post-removal action residual CVOCs (PCE, TCE, and degradation products) were detected at on-Site monitoring well/piezometer nest MW-1/PZ-1 (southwest portion of former building). As depicted on **Figure 6A**, these residual concentrations appear to be associated with a former area of unsaturated soil CVOCs (and potentially the proximate former TCE UST location). The area of unsaturated soil CVOCs was excavated and disposed as part of the removal action. As indicated in Section 3.4.1, PID readings were observed for soil samples collected between approximately 10 and 20 feet bgs (refer to boring log PZ-1 in **Appendix 3**). Residual CVOC groundwater concentrations in deeper groundwater (PZ-1) are an order of magnitude less than shallow groundwater (MW-1); however, the vertical extent of residual CVOC groundwater concentrations greater than NR ESs has not been established at MW-1/PZ-1.

- Post-removal action residual CVOC groundwater concentrations greater than NR 140 ESs do not extend off-Site based on off-Site east groundwater monitoring well data (refer to **Figure 6A** and **Figure 6B**). Because the residual CVOC groundwater concentrations greater than NR 140 ESs do not extend off-Site, there is no indication that proximate off-Site east sanitary and storm sewers (or their trench backfill materials) are significant preferential migration pathways.
- Lower residual CVOC groundwater concentrations at MW-2 (northwest portion of the former building) appear limited and isolated. PCE is the only CVOC detected greater than its NR 140 ES at this location, and the PCE concentrations are near the NR 140 ES. CVOCs were not detected in nested piezometer PZ-2. In addition, PID readings for soil samples collected from the MW-2/PZ-2 soil boring were less than 1 instrument unit (refer to boring log PZ-2 in **Appendix 3**) indicating the absence of residual soil CVOCs at MW-2.
- Lower residual CVOC groundwater concentrations at MW-4 (northeast portion of the Site) also appear limited and isolated. CVOCs were not detected at MW-3 (located upgradient of MW-4) or at proximate off-site groundwater monitoring wells (MW-5, MW-10 or MW-11) as depicted on **Figure 6A**. Further, PID readings for soil samples collected from the MW-4 soil boring were less than 1 instrument unit (refer to boring log MW-4 in **Appendix 3**) indicating the absence of residual soil CVOCs at MW-4.

The following lines of evidence indicate that the primary on-Site post-removal action residual CVOCs in groundwater are effectively naturally attenuating through reductive de-chlorination (WDNR, 2014) and physical processes (e.g., advection, dispersion, and dilution):

- Significant reduction in total CVOC concentration with distance along the primary post-removal action residual CVOC groundwater flow path [MW-1 (14,234 µg/L) → MW-7 (240 µg/L) → MW-6 (19 µg/L) → MW-9 (non-detect)] as depicted on **Figure 4** and **Figure 6A**;
- The presence of elevated ethene concentrations at MW-1 associated with the observed expected CVOC reductive de-chlorination (degradation) pattern (TCE → DCE → VC → ethene) at MW-1; and
- Elevated methane concentrations at MW-1 indicating reduced groundwater conditions.

1,4-Dioxane and SVOCs

The isolated detection of 1,4-dioxane in off-Site groundwater at monitoring well MW-6 does not appear to be Site related based on the following rationale:

- 1,4-dioxane was not detected in groundwater at any of the on-Site groundwater monitoring wells or piezometers; and
- 1,1,1-trichloroethane (TCA)⁷ was only detected in groundwater at one on-Site groundwater monitoring well (MW-4) and MW-4 is not located upgradient of MW-6 (and 1,4-dioxane was not detected at MW-4 or at MW-5 located downgradient of MW-4).

The anomalous reported detections of SVOCs (benzo(a)anthracene and chrysene) in the PZ-1 duplicate sample in the second round of sampling are not considered significant and are likely not Site related. SVOCs were not detected in the corresponding PZ-1 sample and SVOCs were not detected in any other on-Site wells or piezometers in either round of groundwater sampling. The reported estimated trace phenol concentration detected in the off-Site MW-9 groundwater sample (second round of sampling only) is also not considered significant or Site related as phenol was not detected in groundwater at any other on-Site or off-Site groundwater monitoring well or piezometer.

⁷ The March 2020 Interstate Technology and Regulatory Council (ITRC) *History of Use and Potential Sources: 1,4-Dioxane* fact sheet documents that 1,4-dioxane was primarily used as a stabilizer for 1,1,1-TCA.

4. VAPOR PATHWAY INVESTIGATION

Pursuant to NR 716.15(2)(e), NR 716.15(3) and NR 716.15(4), this section provides the vapor pathway investigation objectives, scope and procedures, data compilation and validation, and results, and an evaluation of the results.

The vapor pathway field investigation was conducted between September 2020 and January 2021. The soil gas probes were installed in September 2020 and sampled in October 2020 and January 2021.

4.1 Objectives

The vapor pathway investigation was conducted pursuant to Page 5 of the WDNR Notice Letter. As documented in the Updated Work Plan, the objectives of the vapor pathway investigation were as follows;

- Assess the potential for post-removal action off-Site soil vapor migration preferential pathways; and
- Assess post-removal action residual on-Site vapor risk.

4.2 Scope and Procedures

The scope of the vapor pathway investigation consisted of the following:

- Installing six soil gas probes (SG-1 to SG-3 and SG-5 to SG-7);
- Collecting one soil sample from the screen interval of each soil gas probe for laboratory analysis of VOCs;
- Surveying the locations and elevations of the soil gas probes;
- Conducting two rounds of soil gas sampling; and
- Analyzing the soil gas samples for VOCs by USEPA Method TO-15.

The scope and procedures of the vapor pathway investigation were consistent with the Updated Work Plan with the following exceptions:

- Locational changes were made for the soil gas probes pursuant to WDNR's December 19, 2020 letter comment request and boring clearance safety protocols as communicated to WDNR in April 2020 correspondence;
- One of the planned soil gas probes (SG-4) could not be installed due to encountered obstructions and hole collapse as documented to the WDNR in the December 1, 2020 *Site Investigation Work Plan Modification* letter; and

- A second (additional) round of soil gas sampling was conducted as documented to the WDNR in the December 1, 2020 *Site Investigation Work Plan Modification*.

The soil gas probes were installed and sampled by Geosyntec and surveyed by TerraTec. Analytical laboratory testing was conducted by NR 149 accredited laboratories EMT and Pace Analytical.

4.3 Data Compilation and Validation

The soil vapor investigation soil boring and soil gas probe construction field data were reviewed and compiled on soil boring logs (WDNR Form 4400-122) and probe construction forms included in **Appendix 5**. Survey data were reviewed and compiled on the boring logs.

The quality of the soil gas sample and soil sample laboratory analytical data were validated by reviewing the chain-of-custody forms, holding times, analytical detection limits, results of field QA/QC sample analyses, and laboratory QA/QC results (method blanks, surrogates, and laboratory control samples). Data validation qualifiers were added to the soil gas sample analytical summary table (**Table 3**) and the soil sample analytical summary table (**Table 4**). Based on the data validation, the soil gas and soil sample data are considered valid. The soil gas data validation reports are included in **Appendix 6** and the soil sample data validation report is included in **Appendix 5**.

4.4 Results

The soil vapor investigation laboratory reports are provided in **Appendix 6**. A summary of the soil gas sample analytical data is provided in **Table 3** and on **Figure 7**. The data are further summarized as follows:

West Margin of Site (SG-1, SG-2 and SG-3)

Low concentrations of PCE and/or TCE were reported as detected at SG-1, SG-2, and SG-3 on the west margin of the Site (advanced near the former natural gas and water lateral locations as depicted on **Figure 7**). As summarized on **Table 3**, the detected PCE and TCE concentrations are three to five orders of magnitude less than WDNR Large Commercial/Industrial⁸ deep soil gas vapor risk screening levels (VRSLs). As

⁸ Large Commercial/Industrial VRSLs (i.e., for large commercial and/or industrial buildings) are applicable for the Site and adjacent properties. As documented in Section 2.7, the Site, East Adjacent Properties, and North Adjacent Properties are restricted to industrial use in accordance with “continuing

presented on **Table 3**, low concentrations of other VOCs were also detected in soil gas at the west margin soil gas probes.

CVOCs were not detected in groundwater at proximate groundwater monitoring well MW-13, and CVOCs were not detected in soil samples collected from the soil gas probe screen intervals at SG-1, SG-2, and SG-3 (refer to **Table 4**). Only low concentrations of toluene and/or benzene were detected in the SG-2 and SG-3 soil samples. These CVOC concentrations are less than VRSLs, not considered significant, and likely not Site related.

Off-Site East (SG-5, SG-6 and SG-7)

Soil gas probes SG-5, SG-6 and SG-7 were installed adjacent to groundwater monitoring wells MW-5, MW-6 and MW-14, respectively, adjacent to the sanitary and storm sewers (east of the Site property boundary).

CVOCs were reported as detected in soil gas at SG-5, SG-6, and SG-7. As summarized on **Table 3**, the detected CVOC concentrations are all less than WDNR Large Commercial/Industrial deep soil gas VRSLs. As presented on **Table 3**, low concentrations of other VOCs (less than VRSLs) were also detected in soil gas at the east off-Site soil gas probes.

CVOCs were not detected in soil samples collected from the soil gas probe screen intervals at SG-5, SG-6, and SG-7 (refer to **Table 4**). In addition, CVOCs were not detected in groundwater at adjacent groundwater monitoring wells (MW-5, MW-6, and MW-14) with the exception cis-1,2-DCE at MW-5 and MW6 and 1,1-DCA at MW-6 and those detected concentrations were less than NR 140 ESs.

4.5 Evaluation of Results

The soil vapor investigation results were evaluated to assess post-removal action preferential vapor migration pathways for the Site pursuant to the following guidance documents:

- *Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin Wis. Stat. ch. 292; Wis. Admin. Code ch. NR 700 (WDNR, 2018) (referred to hereafter as “WDNR VI guidance”); and*

obligations” pursuant to the June 1, 2018 WDNR *Approval of Remedial Action and Post-Removal Site Control Plan*.

- *Sewers and Utility Tunnels as Preferential Pathways For Volatile Organic Compound Migration Into Buildings: Risk Factors And Investigation Protocol* [Department of Defense (DOD) Environmental Security Technology Certification Program (ESTCP), 2018] (referred to hereafter as “DOD ESTCP guidance”).

Based on the soil gas sampling results (Section 4.4), the vapor migration pathway evaluation focuses on the CVOC soil gas concentrations detected at east off-Site soil gas probes SG-5, SG-6 and SG-7 which are located adjacent to groundwater monitoring wells MW-5, MW-6 and MW-14, respectively, and adjacent to the east off-Site sanitary and storm sewers (refer to **Figure 7**).

WDNR VI guidance indicates that “Preferential Pathways” should be investigated for “Utility line(s) that transect a CVOC source area.” The soil vapor investigation data (soil gas analytical data and soil sample analytical data) and the groundwater analytical data were evaluated to assess whether the off-Site sanitary and storm sewers “transect a CVOC source area.” This evaluation is summarized below:

- *Soil gas sample data collected adjacent to the off-Site east sanitary and storm sewers (SG-5, SG-6, SG-7) - CVOC soil gas concentrations are all less than WDNR Large Commercial/Industrial deep soil gas VRSLs.*
- *Soil gas probe (screen interval) soil sample data collected adjacent to the off-Site east sanitary and storm sewers (SG-5, SG-6 and SG-7) - CVOCs were not detected in soil at soil gas probes SG-5, SG-6 and SG-7.*
- *Groundwater sample data collected from monitoring wells adjacent to the off-Site east sanitary and storm sewers (MW-5, MW-6, and MW-14) – detected CVOCs are limited to cis-1,2-DCE at MW-5 and MW-6 and 1,1-DCA at MW-6 and the detected concentrations are less than NR 140 ESs.*

Based on this evaluation, the off-Site east sanitary and storm sewers do not “transect a CVOC source area.”

The investigation data were also reviewed pursuant to DOD ESTCP guidance to assess whether the off-Site east sanitary and storm sewers are potential preferential vapor pathways for VOCs.

DOD ESTCP guidance indicates that a “higher risk scenario” is associated with “sewer intersects contaminated groundwater” and a “lower risk scenario” is associated with “sewer in vadose zone above plume”.

- Based on groundwater elevation data (refer to **Table 1** and **Figure 4**), the adjacent sanitary sewer is located below the groundwater table and the storm sewer is located above the groundwater table (within the vadose zone); and
- Detected groundwater concentrations at monitoring wells adjacent to the sanitary sewer are less than NR 140 ESs and limited to cis-1,2-DCE at MW-5 and MW6 and 1,1-DCA at MW-6.

Therefore, the investigation data demonstrate a “low risk scenario” for off-Site east sanitary and storm sewers acting as potential preferential vapor pathways for VOCs.

The soil gas data were further evaluated to assess the “low risk scenario” associated with the potential for preferential soil vapor migration within the storm sewer (located above the water table) pursuant to DOD ESTCP guidance.

DOD ESTCP guidance documents that “sewer to building VOC attenuation” ranges from 20X to >1,000X (corresponding to attenuation factors of 0.05 to 0.001) and provides a suggested “protocol” attenuation factor of 0.03 (33X attenuation). The protocol and upper and lower bound attenuation factors were applied to the deep soil gas VRSLs to establish “sewer to building” VRSLs for comparison to the SG-5, SG-6 and SG-7 (adjacent to off-Site east storm sewer) soil gas data. Based on this comparison (refer to **Table A7-1** in **Appendix 7**), the detected soil gas concentrations are at least two orders of magnitude less than large commercial/industrial “sewer to building” VRSLs. Therefore, there is no indication that the storm sewer acts as a significant vapor migration preferential pathway.

5. IDW MANAGEMENT

This section summarizes IDW management activities conducted during the SSI.

Soil boring soil cuttings and development and sampling purge water were contained in labeled 55-gallon drums. The drums were staged in the northwest portion of the Site pending disposal. The water drums were staged in secondary containment (plastic sheeting over wood frame). Hydro-vac generated soil was transported directly to the disposal facility.

Soil disposal profiling was established based on characterization soil sampling data and water disposal profiling was based on groundwater sampling analytical results. The characterization soil sample laboratory reports and data validation reports are provided in **Appendix 8**. A summary of the VOC and PCB soil characterization soil sample analytical data is provided in **Table A8-1 (Appendix 8)**.

IDW was characterized for disposal in accordance with applicable requirements and knowledge of historical Site activities. The following is a summary of the IDW transport and disposal activities:

- August 24, 2020 - 5.16 tons of hydro-vac generated soil was transported by Badger Daylighting Corp to Veolia ES Technical Solutions in Menomonee Falls, Wisconsin. The soil was disposed as a non-hazardous⁹ waste based on pre-hydro-vac soil characterization sampling data.
- October 16, 2020 - 16 drums of soil were transported by Veolia to Veolia ES Technical Solutions in Menomonee Falls, Wisconsin. The drums were disposed as a non-hazardous waste based on soil characterization sampling data.
- November 6, 2020 - four drums of development and sampling purge water were transported by Veolia to Veolia ES Technical Solutions in Menomonee Falls, Wisconsin. Two of the drums were disposed as a hazardous waste [F002 listed hazardous waste and water concentrations greater than NR 140 ESs (WDNR “contained-out” values)], and two drums were disposed as a non-hazardous waste (not listed and water concentrations less than NR 140 ESs).
- February 25, 2021 - six drums of sampling purge water were transported by Veolia to Veolia ES Technical Solutions in Menomonee Falls, Wisconsin. One of the drums was disposed as a hazardous waste (F002 listed hazardous waste and water concentrations greater than NR 140 ESs), one drum was disposed of as a hazardous waste (F002 listed waste only), and four drums were disposed

⁹ Non-hazardous = non-regulated material, non-RCRA, non-DOT, non-TSCA

as a non-hazardous waste (not listed and water concentrations less than NR 140 ESs).

Disposal documentation is provided in **Appendix 8**. The Hazardous Waste Annual Report for 2020 was filed with the WDNR on February 21, 2021.

6. PFAS SCREENING ASSESSMENT

A PFAS screening assessment was conducted pursuant to WDNR's August 17, 2020 *Reminder to Include Evaluation of Emerging Contaminants in Site Investigation* letter.

As referenced in WDNR's August 17, 2020 letter, ITRC PFAS fact sheets were reviewed and incorporated into this screening assessment.

April 2020 ITRC *History and Use of Per- and Polyfluoroalkyl Substances (PFAS) and Aqueous Film-Forming Foam (AFFF)* fact sheets document that the most prevalent source of potential PFAS in the environment is from AFFF, which was commonly used as a fire-suppression agent between the 1960s and 2000s. Available historical information was reviewed to assess the potential for AFFF use at the Site. The following is a summary of the historical information review:

- A 2004 *Phase I ESA Environmental Site Assessment* report (Braun Intertec, 2004) cited City of Milwaukee Fire Department records that reported "*The Fire Department completed an environmental search and provided two Incident Reports from fires at the Milwaukee Die Casting Company property in 1999. Both fires were related to metals and contained within the building;*"
- In March 5, 2021 email correspondence with Geosyntec, the City of Milwaukee reported no Milwaukee Fire Department responses to the Site address in the past 10 years (City of Milwaukee, 2021); and
- Available historical Sanborn[®] fire insurance maps (EDR, 2021) depicting the former Milwaukee Die Casting Company building (1950 and 1967) do not depict the presence of a fire suppression system.

Based on this historical information review, there is no indication of AFFF use at the Site.

In addition, the former die casting operations at the Site do not fall within the primary users or secondary source manufacturing sectors identified in the above-referenced ITRC fact sheets.

Based on this screening assessment, there is no indication of PFAS releases to soil and/or groundwater at the Site related to former Site operations.

7. SUMMARY AND CONCLUSIONS

Pharmacia has completed the SSI scope of work documented in the WDNR-approved Updated Work Plan. Pursuant to NR 716.15(6), this section provides a summary of the results and conclusions for these additional groundwater and soil vapor pathway investigations.

The SSI groundwater investigation results indicated the following:

- PCBs (filtered and non-filtered) were not detected in groundwater at any of the on-Site or off-Site groundwater monitoring wells or piezometers;
- The primary post-removal action residual groundwater constituents (TCE and TCE degradation products) were detected at on-Site monitoring well/piezometer nest MW-1/PZ-1 (southwest portion of former building). These residual concentrations appear to be associated with a former area of unsaturated soil CVOCs (and potentially the proximate former TCE UST location). The area of unsaturated soil CVOCs was excavated and disposed of as part of the removal action. Residual CVOCs in deeper groundwater (PZ-1) are an order of magnitude less than shallow groundwater (MW-1); however, concentrations of several CVOCs at PZ-1 are greater than NR 140 ESs. The vertical extent of residual CVOC concentrations has not been established at MW-1/PZ-1;
- Post-removal action residual CVOC groundwater concentrations greater than NR 140 ESs do not extend off-Site; therefore, there is no indication that proximate off-Site east sanitary and storm sewers (or their trench backfill materials) are significant preferential migration pathways for residual groundwater CVOCs;
- Multiple lines of evidence indicate that the on-Site residual groundwater CVOCs are effectively naturally attenuating through reductive de-chlorination;
- Lower residual CVOCs in groundwater at MW-2 (northwest portion of the former building) and at MW-4 (northeast portion of the Site) appear limited and isolated;
- The isolated detection of 1,4-dioxane in off-Site groundwater at monitoring well MW-6 does not appear to be Site related; and
- The reported low concentrations of three SVOCs detected in only the second round of groundwater sampling are not considered significant (concentrations less than NR 140 ESs) and are likely not Site related.

Based on these results, limited further groundwater investigation is planned to establish the vertical extent of CVOC concentrations greater than NR 140 ESs at MW-1/PZ-1. Subsequent MNA groundwater monitoring is planned to collect sufficient data to confirm that post-removal action residual CVOCs are effectively naturally attenuating.

The soil vapor investigation results indicated the following:

- Low concentrations of PCE and/or TCE were reported as detected at SG-1, SG-2, and SG-3 on the west margin of the Site (advanced near former natural gas and water lateral locations). The detected PCE and TCE concentrations are three to five orders of magnitude less than WDNR Large Commercial/Industrial deep soil gas VRSLs. In addition, CVOCs were not detected in groundwater at proximate groundwater monitoring well MW-13;
- CVOCs were reported as detected in soil gas at off-Site east soil gas probes SG-5, SG-6 and SG-7 installed adjacent to groundwater monitoring wells MW-5, MW-6 and MW-14, respectively, and adjacent to the off-Site east sanitary and storm sewers. The detected CVOC concentrations at SG-5, SG-6 and SG-7 were less than WDNR Large Commercial/Industrial deep soil gas VRSLs. ;
- Data evaluation pursuant to WDNR VI guidance demonstrated that off-Site east sanitary and storm sewers do not transect a CVOC source area; and
- Data evaluation pursuant to DOD ESTCP guidance demonstrated that there is no indication that the sewers act as significant vapor migration preferential pathways.

Pursuant to the Site “continuing obligations” documented in the June 1, 2018 WDNR *Approval of Remedial Action and Post-Removal Site Control Plan*, a vapor intrusion assessment and WDNR approval are required for all new buildings constructed on the Site and the East Adjacent Properties. Based on the investigation results and the protections provided by the continuing obligations, further soil vapor pathway assessment is not warranted.

Based on the PFAS screening assessment, there is no indication of PFAS releases to Site soil and/or groundwater related to former Site operations. Therefore, further PFAS assessment is not warranted.

8. PLANNED ACTIVITIES AND SCHEDULE

An *Additional Groundwater Investigation Work Plan and Groundwater Monitoring Plan* will be prepared and submitted to WDNR for review and approval. This plan will document the scope and procedures for limited additional groundwater investigation and MNA groundwater monitoring. The MNA groundwater monitoring plan will be prepared in accordance with Wisconsin Administrative Code NR 724.17(2) and WDNR guidance *Understanding Chlorinated Hydrocarbon Behavior in Groundwater: Guidance on the Investigation, Assessment and Limitations of Monitored Natural Attenuation* (WDNR, 2014).

As documented in the March 18, 2021 *Additional Groundwater Sampling Event* letter, an additional groundwater sampling event was conducted in April 2021 to maintain a quarterly sampling schedule. The April 2021 groundwater sampling results will be documented in the *Additional Groundwater Investigation Work Plan and Groundwater Monitoring Plan*.

It is anticipated that the *Additional Groundwater Investigation Work Plan and Groundwater Monitoring Plan* will be submitted to WDNR in the 2Q2021. Schedule updates will be provided to WDNR in the NR 700 semi-annual progress reports.

9. REFERENCES

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TABLES

TABLE 1
Summary of Groundwater Elevation Data
Milwaukee Die Casting Company Site
4132 North Holton Street
Milwaukee, Wisconsin

Well	Ground Surface Elevation	TOC Elevation	Screen Interval Elevations		Groundwater Level ¹								
					9/23/2020		10/23/2020			1/18/2021			
			Bottom	Top	Depth		Elevation	Depth		Elevation	Depth		Elevation
			(ft amsl)	(ft amsl)	(ft bTOC)	(ft bgs)	(ft amsl)	(ft bTOC)	(ft bgs)	(ft amsl)	(ft bTOC)	(ft bgs)	(ft amsl)
MW-1	646.55	648.74	631.15	641.15	6.64	4.45	642.10	--	--	--	6.09	3.90	642.65
MW-2	647.67	650.20	632.67	642.67	8.17	5.64	642.03	--	--	--	8.03	5.50	642.17
MW-3	648.57	650.91	633.07	643.07	10.13	7.79	640.78	--	--	--	8.46	6.12	642.45
MW-4	641.68	644.48	624.18	634.18	7.89	5.09	636.59	--	--	--	6.78	3.98	637.70
MW-5	638.52	641.49	621.22	631.22	16.68	13.70	624.81	13.86	10.88	627.63	11.94	8.96	629.55
MW-6	639.26	641.59	621.26	631.26	11.76	9.43	629.83	--	--	--	11.83	9.50	629.76
MW-7	641.78	644.17	626.88	636.88	4.82	2.43	639.35	--	--	--	4.05	1.66	640.12
MW-8	638.03	640.47	621.23	631.23	11.40	8.96	629.07	--	--	--	6.96	4.52	633.51
MW-9	635.74	638.33	620.54	630.54	10.63	8.05	627.70	--	--	--	8.05	5.47	630.28
MW-10	637.28	639.42	618.98	628.98	17.81	15.67	621.61	16.11	13.97	623.31	11.31	9.16	628.11
MW-11	637.66	640.29	622.36	632.36	16.97	14.35	623.32	14.52	11.90	625.77	5.15	2.53	635.14
MW-12	651.07	653.30	635.67	645.67	11.39	9.15	641.91	--	--	--	10.84	8.60	642.46
MW-13	650.91	653.17	635.61	645.61	10.44	8.19	642.73	--	--	--	9.72	7.47	643.45
MW-14	640.35	642.81	622.55	632.55	8.06	5.59	634.75	--	--	--	6.46	3.99	636.35
PZ-1	646.74	648.89	610.64	615.64	6.93	4.78	641.96	--	--	--	6.42	4.27	642.47
PZ-2	648.21	650.86	611.11	616.11	9.98	7.33	640.88	--	--	--	9.69	7.04	641.17
PZ-10	637.53	640.15	604.83	609.83	23.55	20.93	616.60	--	--	--	23.74	21.12	616.41

Notes:

¹ - measured prior to groundwater sampling

ft amsl - feet above mean sea level

ft bgs - feet below ground surface

ft bTOC - feet below top of casing

TOC - top of casing

-- - not measured

TABLE 2
Summary of Groundwater Sample Analytical Results
 Milwaukee Die Casting Company Site
 4132 North Holton Street
 Milwaukee, Wisconsin

Well Identification	MW-1		PZ-1		PZ-1 DUP	MW-2		PZ-2		MW-3		MW-3 DUP	MW-4		MW-5		MW-6		MW-6 DUP	NR 140 Groundwater	
Approximate Screen Interval (ft bgs)	5-15		31-36		31-36	5-15		32-37		5.5-15.5		5.5-15.5	7.5-17.5		7-17		8-18		8-18	Quality Standard	
Sample Date	9/25/2020	1/21/2021	9/25/2020	1/20/2021	1/20/2021	9/24/2020	1/20/2021	9/25/2020	1/19/2021	9/23/2020	1/18/2021	9/23/2020	9/24/2020	1/20/2021	10/29/2020	1/21/2021	9/25/2020	1/20/2021	1/20/2021	PAL	ES
Analytical Parameters																					
Detected VOCS (µg/L)																					
1,1,1-Trichloroethane	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	17.3	13.7	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	40	200
1,1-Dichloroethane	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	7.21	8.53	< 2.00	< 2.00	< 2.00	4.33 <i>J</i>	< 2.00 <i>UJ</i>	85	850
1,1-Dichloroethene	9.52	13.9	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	0.7	7
cis-1,2-Dichloroethene	3150	5440	128 J	896	837	4.35	5.31	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	27.8	23.4	< 2.00	< 2.00	6.39	22.3	19.0	7	70
Tetrachloroethene	2230	4190	325	192	188	5.55	6.99	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	0.5	5
trans-1,2-Dichloroethene	22.2	34.8	< 2.00	4.07	4.29	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	20	100
Trichloroethene	2580	4080	109	110	108	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	10.6	7.57	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	0.5	5
Vinyl chloride	217	475	10.9	8.32	8.27	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	4.31	12.2	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	0.02	0.2
PCBs, Total (unfiltered)	< 0.515	< 0.522	< 0.519	< 0.518	< 0.525	< 0.529	< 0.525	< 0.511	< 0.522	< 0.524	< 0.519	< 0.508	< 0.535	< 0.518	< 0.617	< 0.542	< 0.568	< 0.524	< 0.506	0.003	0.03
PCBs, Total (filtered)	< 0.531	< 0.516	< 0.510	< 0.528	< 0.525	< 0.540	< 0.519	< 0.508	< 0.520	< 0.507	< 0.530	< 0.507	< 0.532	< 0.520	< 0.527	< 0.520	< 0.534	< 0.524	< 0.521	0.003	0.03
Detected SVOCs (µg/L)																					
Benzo(a)anthracene	< 0.315	< 0.313	< 0.335	< 0.320	0.222 J	< 0.339	< 0.314	< 0.311	< 0.311	< 0.314	< 0.324	< 0.312	< 0.321	< 0.313	< 0.315	< 0.328	< 0.340	< 0.315	< 0.303	--	--
Chrysene	< 0.315	< 0.313	< 0.335	< 0.320	0.159 J	< 0.339	< 0.314	< 0.311	< 0.311	< 0.314	< 0.324	< 0.312	< 0.321	< 0.313	< 0.315	< 0.328	< 0.340	< 0.315	< 0.303	0.02	0.2
Phenol	< 0.526	< 0.521	< 0.559	< 0.534	< 0.529	< 0.564	< 0.523	< 0.518	< 0.519	< 0.523	< 0.539	< 0.521	< 0.535	< 0.521	< 0.526	< 0.547	< 0.567	< 0.524	< 0.505	400	2000
1,4-Dioxane (µg/L)	< 0.200 <i>UJ</i>	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	28.2	23.9	23.4	0.3	3
MNA Geochemical Parameters																					
Ethane (µg/L)	< 1.2	1.3 J	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	2.1 J	2.1 J	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	--	--
Ethene (µg/L)	33.3	33.8	1.8 J	1.4 J	1.5 J	< 1.2	< 1.2	1.2 J	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	--	--
Methane (µg/L)	147	241	5.0	4.1	4.1	2.0 J	234	26.6	35.8	1.8J	< 0.66	1.4 J	< 0.66	58.1	1.2 J	< 0.66	9.4	23.9	20.3	--	--
TOC (mg/L)	3.25 <i>J</i>	2.80	3.92 <i>J</i>	8.57	9.04	1.93 <i>J</i>	1.40	2.98 <i>J</i>	2.27	3.83 <i>J</i>	2.69	3.82 <i>J</i>	10.8 <i>J</i>	6.38	3.86	2.17	6.84 <i>J</i>	3.78	3.76	--	--

Notes:

bold - concentration greater than NR 140 PAL

boxed - concentration greater than NR 140 ES

italics - data validation qualifier (refer to data validation reports)

--⁽¹⁾ - slow groundwater recovery prevented the collection of a sufficient volume of water for all the planned laboratory analytical parameters for MW-10 and MW-11 for September 2020 sampling event

-- - not analyzed or not established

DUP - duplicate

ES - NR 140 Enforcement Standard

ft bgs - feet below ground surface

J - estimated concentration at or above the limit of detection and below the limit of quantitation

mg/L - milligrams per liter

MNA - monitored natural attenuation

PAL - NR 140 Preventive Action Limit

PCBs - polychlorinated biphenyls

SVOCs - semi-volatile organic compounds

TOC - total organic carbon

µg/L - micrograms per liter

VOCs - volatile organics compounds

TABLE 2
Summary of Groundwater Sample Analytical Results
 Milwaukee Die Casting Company Site
 4132 North Holton Street
 Milwaukee, Wisconsin

Well Identification	MW-7		MW-8		MW-9		MW-10		PZ-10		MW-11		MW-12		MW-12 DUP	MW-13		MW-14		NR 140 Groundwater			
	5-15		7-17		5-15		8-18		28-33		5-15		5-15		5-15	5-15		8-18		PAL	ES		
Approximate Screen Interval (ft bgs)	9/24/2020	1/19/2021	9/24/2020	1/19/2021	9/24/2020	1/19/2021	10/29/2020	1/20/2021	9/25/2020	1/20/2021	10/29/2020	1/19/2021	9/23/2020	1/18/2021	9/23/2020	9/23/2020	1/18/2021	9/23/2020	1/19/2021				
Sample Date																							
Analytical Parameters																							
Detected VOCs (µg/L)																							
1,1,1-Trichloroethane	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	40	200	
1,1-Dichloroethane	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	85	850	
1,1-Dichloroethene	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	0.7	7	
cis-1,2-Dichloroethene	48.8	222	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	21.7	20.3	7	70
Tetrachloroethene	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	0.5	5	
trans-1,2-Dichloroethene	< 2.00	10.4	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	20	100	
Trichloroethene	< 2.00	7.12	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	0.5	5	
Vinyl chloride	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	0.02	0.2	
PCBs, Total (unfiltered)	< 0.508	< 0.514	< 0.508	< 0.509	< 0.515	< 0.524	< 0.546	< 0.508	< 0.572	< 0.560	< 0.533	< 0.532	< 0.524	< 0.519	< 0.534	< 0.517	< 0.508	< 0.531	< 0.529	0.003	0.03		
PCBs, Total (filtered)	< 0.520	< 0.523	< 0.508	< 0.517	< 0.518	< 0.531	< 0.512	< 0.526	< 0.533	< 0.559	-- ⁽¹⁾	< 0.515	< 0.532	< 0.517	< 0.525	< 0.513	< 0.510	< 0.530	< 0.523	0.003	0.03		
Detected SVOCs (µg/L)																							
Benzo(a)anthracene	< 0.315	< 0.306	< 0.310	< 0.311	< 0.307	< 0.313	-- ⁽¹⁾	< 0.315	< 0.329	< 0.307	-- ⁽¹⁾	< 0.320	< 0.326	< 0.318	< 0.324	< 0.311	< 0.307	< 0.318	< 0.320	--	--		
Chrysene	< 0.315	< 0.306	< 0.310	< 0.311	< 0.307	< 0.313	-- ⁽¹⁾	< 0.315	< 0.329	< 0.307	-- ⁽¹⁾	< 0.320	< 0.326	< 0.318	< 0.324	< 0.311	< 0.307	< 0.318	< 0.320	0.02	0.2		
Phenol	< 0.526	< 0.510	< 0.517	< 0.518	< 0.512	0.772 J	-- ⁽¹⁾	< 0.524	< 0.549	< 0.511	-- ⁽¹⁾	< 0.534	< 0.544	< 0.531	< 0.539	< 0.518	< 0.511	< 0.531	< 0.533	400	2000		
1,4-Dioxane (µg/L)	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.3	3		
MNA Geochemical Parameters																							
Ethane (µg/L)	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	-- ⁽¹⁾	< 1.2	< 1.2	< 1.2	-- ⁽¹⁾	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	--	--	
Ethene (µg/L)	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	-- ⁽¹⁾	< 1.2	< 1.2	< 1.2	-- ⁽¹⁾	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	--	--	
Methane (µg/L)	4.3	73.3	0.74 J	< 0.66	1.7 J	1.1 J	-- ⁽¹⁾	< 0.66	0.81 J	1.5 J	-- ⁽¹⁾	< 0.66	1.1 J	< 0.66	0.81 J	1.3 J	15.6	1.3 J	1.2 J	--	--		
TOC (mg/L)	3.05 J	2.29	3.88 J	2.74	3.85 J	4.20	-- ⁽¹⁾	1.99	2.13 J	1.24	-- ⁽¹⁾	2.40	2.75 J	1.08	2.44 J	2.39 J	1.66	2.84 J	2.04	--	--		

Notes:
 bold - concentration greater than NR 140 PAL
 boxed - concentration greater than NR 140 ES
 italics - data validation qualifier (refer to data validation reports)
 --⁽¹⁾ - slow groundwater recovery prevented the collection of a sufficient volume of water for all the planned laboratory analytical parameters for MW-10 and MW-11 for September 2020 sampling event
 -- - not analyzed or not established
 DUP - duplicate
 ES - NR 140 Enforcement Standard
 ft bgs - feet below ground surface
 J - estimated concentration at or above the limit of detection and below the limit of quantitation
 mg/L - milligrams per liter
 MNA - monitored natural attenuation
 PAL - NR 140 Preventive Action Limit
 PCBs - polychlorinated biphenyls
 SVOCs - semi-volatile organic compounds
 TOC - total organic carbon
 µg/L - micrograms per liter
 VOCs - volatile organics compounds

TABLE 3
Summary of Soil Gas Sample Analytical Results
Milwaukee Die Casting Company Site
4132 North Holton Street
Milwaukee, Wisconsin

Soil Gas Probe Identification	SG-1		SG-2		SG-3		SG-5		SG-5 DUP		SG-6		SG-7		WDNR Deep Soil Gas VRSLs	
	6.5-7		6.5-7		6.5-7		4.5-5		4.5-5		4.5-5		4.5-5		VAL	Large Commercial/ Industrial VRSL AF=0.001
Approximate Screen Interval (ft bgs)	10/14/2020	1/12/2021	10/14/2020	1/12/2021	10/14/2020	1/12/2021	10/14/2020	1/12/2021	10/14/2020	1/12/2021	10/14/2020	1/12/2021	10/14/2020	1/12/2021		
Sample Date																
Analytical Parameters																
Detected CVOCs (µg/m³)																
1,1-Dichloroethane	< 0.24	< 0.22	< 0.27	< 0.22	< 0.26	< 0.22	< 0.26	< 4.6 <i>UJ</i>	< 0.26	< 4.6 <i>UJ</i>	6,520	1,700	19.6 <i>J</i>	< 6.8 <i>UJ</i>	77	77,000
1,1-Dichloroethene	< 0.26	< 0.24	< 0.29	< 0.24	< 0.28	< 0.24	< 0.28	< 4.9 <i>UJ</i>	< 0.28	< 4.9 <i>UJ</i>	60.8	36.8	< 0.27	< 7.4 <i>UJ</i>	880	880,000
cis-1,2-Dichloroethene	< 0.21	< 0.20	< 0.24	< 0.20	< 0.23	< 0.20	< 0.23	< 4.0 <i>UJ</i>	< 0.23	< 4.0 <i>UJ</i>	7,660	1,810	3,050	1090 <i>J</i>	--	--
trans-1,2-Dichloroethene	< 0.20	< 0.18	< 0.22	< 0.18	< 0.21	< 0.18	< 0.21	< 3.8 <i>UJ</i>	< 0.21	< 3.8 <i>UJ</i>	616	164	558	177 <i>J</i>	--	--
Tetrachloroethene	12.7	1.8	36.7	6.4	46.9	16.4	8,150	2520 <i>J</i>	8,440	2410 <i>J</i>	96.5	< 12.8	116	35.1 <i>J</i>	180	180,000
1,1,1-Trichloroethane	< 0.23	< 0.22	< 0.26	< 0.22	< 0.25	< 0.22	10.5	< 4.4 <i>UJ</i>	10.6	< 4.4 <i>UJ</i>	3,680	720	5.0 <i>J</i>	< 6.7 <i>UJ</i>	22,000	22,000,000
Trichloroethene	< 0.23	< 0.22	< 0.27	< 0.22	< 0.26	2.1	527	180 <i>J</i>	533	181 <i>J</i>	1,610	316	117	44.8 <i>J</i>	8.8	8,800
Vinyl chloride	< 0.079	< 0.074	< 0.090	< 0.074	< 0.086	< 0.074	< 0.086	< 1.5 <i>UJ</i>	< 0.086	< 1.5 <i>UJ</i>	2,630	1,960	2.5 <i>J</i>	< 2.3 <i>UJ</i>	28	28,000
Other Detected VOCs (µg/m³)																
Acetone	15.3	< 2.7	< 3.2	< 2.7	< 3.1	17.2	48.6	< 54.9 <i>UJ</i>	44.8	< 54.9 <i>UJ</i>	< 3.2	< 80.0	< 3.0	< 82.4 <i>UJ</i>	--	--
Benzene	0.99	< 0.11	0.65	< 0.11	< 0.13	< 0.11	1.0	< 2.3 <i>UJ</i>	1.0	< 2.3 <i>UJ</i>	1.7	< 3.3	0.48	< 3.4 <i>UJ</i>	16	16,000
2-Butanone (MEK)	4.5	< 0.87	8.9	< 0.87	7.8	< 0.87	< 1.0	< 18.0 <i>UJ</i>	< 1.0	< 18.0 <i>UJ</i>	< 1.1	< 26.2	5.2	< 27.0 <i>UJ</i>	--	--
Carbon disulfide	17.5	1.1	17.0	1.9	19.2	1.2	36.5	< 6.4 <i>UJ</i>	36.0	< 6.4 <i>UJ</i>	2.4	< 9.3	11.5	< 9.6 <i>UJ</i>	--	--
Chloroform	1.4	< 0.20	< 0.24	< 0.20	2.0	2.2	< 0.23	< 4.0 <i>UJ</i>	< 0.23	< 4.0 <i>UJ</i>	< 0.24	< 5.8	< 0.22	< 6.0 <i>UJ</i>	5.3	5,300
Cyclohexane	< 0.26	< 0.25	< 0.30	< 0.25	< 0.29	< 0.25	< 0.29	< 5.1 <i>UJ</i>	< 0.29	< 5.1 <i>UJ</i>	5.6	< 7.4	< 0.28	< 7.6 <i>UJ</i>	--	--
Dichlorodifluoromethane	< 0.28	1.6	< 0.31	< 0.26	< 0.30	< 0.26	2.0	< 5.3 <i>UJ</i>	1.8	< 5.3 <i>UJ</i>	< 0.31	< 7.7	1.6	< 8.0 <i>UJ</i>	440	440,000
Ethanol	8.5	10.5	5.1	5.0	3.9	17.0	3.6	< 25.2 <i>UJ</i>	4.8	< 25.2 <i>UJ</i>	7.5	< 36.7	7.5	< 37.9 <i>UJ</i>	--	--
Ethylbenzene	< 0.28	< 0.26	< 0.31	< 0.26	< 0.30	< 0.26	< 0.30	< 5.3 <i>UJ</i>	< 0.30	< 5.3 <i>UJ</i>	1.9	< 7.7	< 0.29	< 8.0 <i>UJ</i>	49	49,000
n-Heptane	< 0.32	< 0.30	< 0.37	< 0.30	1.6	< 0.30	< 0.35	< 6.2 <i>UJ</i>	< 0.35	< 6.2 <i>UJ</i>	< 0.37	< 9.1	< 0.34	< 9.4 <i>UJ</i>	--	--
n-Hexane	< 0.30	2.0	2.6	< 0.28	< 0.32	< 0.28	< 0.32	< 5.7 <i>UJ</i>	< 0.32	< 5.7 <i>UJ</i>	10.1	< 8.3	< 0.31	< 8.6 <i>UJ</i>	--	--
2-Propanol	3.7	< 1.0	< 1.2	< 1.0	< 1.2	9.5	8.6	< 21.1 <i>UJ</i>	8.7	< 21.1 <i>UJ</i>	7.1	< 30.8	< 1.2	< 31.7 <i>UJ</i>	--	--
Toluene	< 0.27	< 0.25	< 0.31	< 0.25	< 0.30	< 0.25	2.9	< 5.3 <i>UJ</i>	3.2	< 5.3 <i>UJ</i>	6.5	< 7.6	< 0.29	< 7.9 <i>UJ</i>	22,000	22,000,000
Trichlorofluoromethane	1.7	< 0.50	< 0.61	< 0.50	< 0.58	< 0.50	6.8	< 10.3 <i>UJ</i>	6.9	< 10.3 <i>UJ</i>	< 0.61	< 15.0	1.9	< 15.4 <i>UJ</i>	--	--
1,2,4-Trimethylbenzene	< 0.49	< 0.45	< 0.55	< 0.45	< 0.53	< 0.45	< 0.53	< 9.4 <i>UJ</i>	< 0.53	< 9.4 <i>UJ</i>	2.6	< 13.6	< 0.51	< 14.0 <i>UJ</i>	260	260,000
m&p-Xylene	< 0.58	< 0.54	< 0.65	< 0.54	< 0.63	< 0.54	< 0.63 <i>UJ</i>	< 11.1 <i>UJ</i>	2.8 <i>J</i>	< 11.1 <i>UJ</i>	5.7	< 16.1	< 0.60	< 16.6 <i>UJ</i>	440	440,000
o-Xylene	< 0.33	< 0.30	< 0.37	< 0.30	< 0.36	< 0.30	< 0.36	< 6.3 <i>UJ</i>	< 0.36	< 6.3 <i>UJ</i>	1.6	< 9.1	< 0.34	< 9.4 <i>UJ</i>	440	440,000

Notes:

italics - data validation qualifier (refer to data validation reports)

-- - not established

AF - WDNR attenuation factor for deep soil gas

CVOCs - chlorinated volatile organic compounds

ft bgs - feet below ground surface

µg/m³ - micrograms per cubic meter

VAL - WDNR vapor action level

VRSL - vapor risk screening level

WDNR - Wisconsin Department of Natural Resources

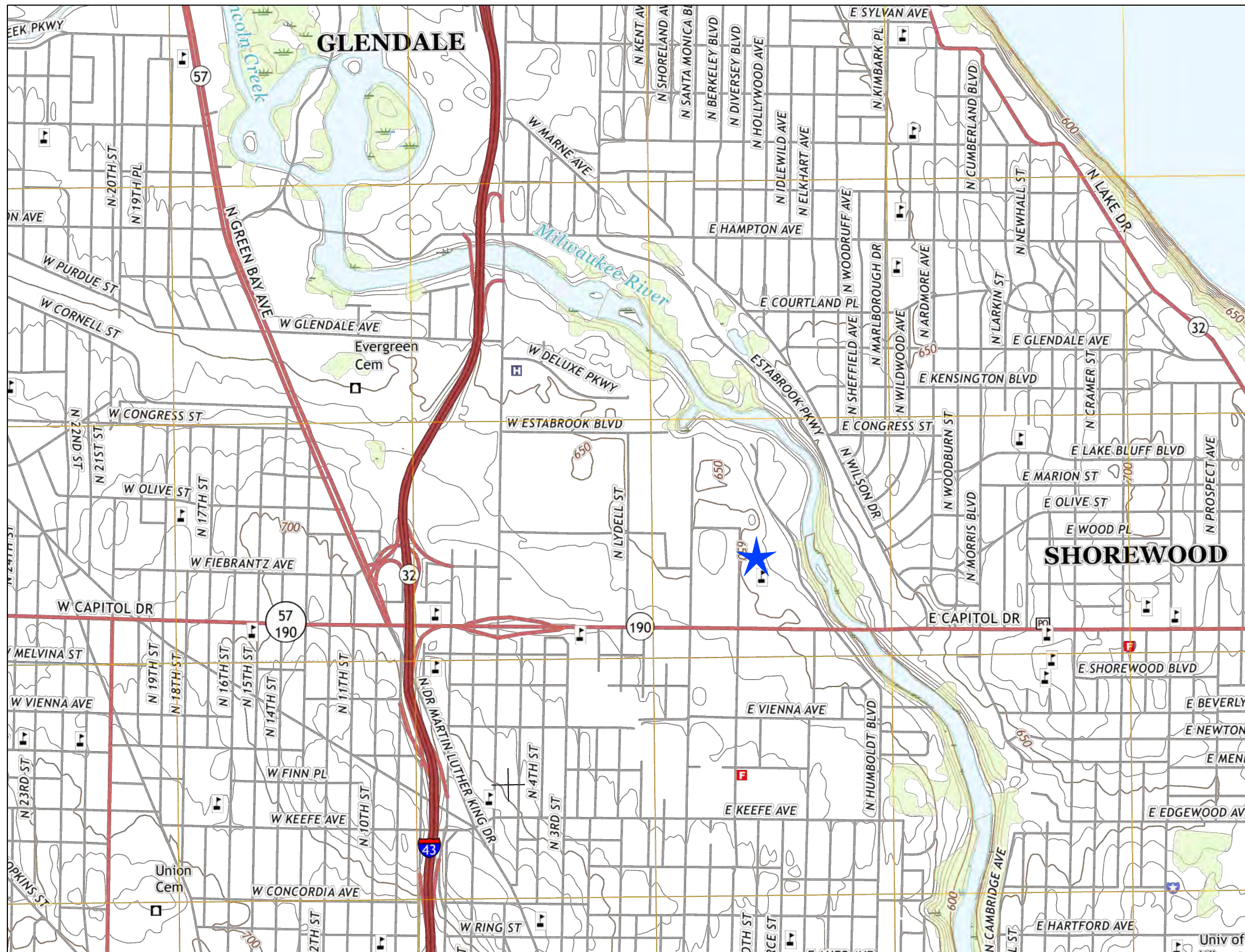
Table 4
Summary of Soil Gas Probe Screen Interval Soil Sample Analytical Results
 Milwaukee Die Casting Company Site
 4132 North Holton Street
 Milwaukee, Wisconsin

Soil Gas Probe No.	SG-1	SG-2	SG-3	SG-5	SG-6	SG-7
Sample Collection Date	9/30/2020	9/14/2020	9/14/2020	9/30/2020	9/30/2020	9/30/2020
Sample Depth (feet, bgs)	6.5-7	6.5-7	6.5-7	4.5-5	4.5-5	4.5-5
Detected VOCs (µg/kg)						
Benzene	<0.485	<0.535	1.31	<0.493	<0.381	<0.509
Toluene	<0.485	1.17	1.90	<0.493	<0.381	<0.509

Notes:

- not analyzed, not established or not applicable
- bgs - below ground surface
- VOCs - volatile organic compounds
- µg/kg - micrograms per kilogram

FIGURES



LEGEND



APPROXIMATE SITE LOCATION

REFERENCE: USGS MILWAUKEE, WI - 2016
SCALE: 1" = 1500' (APPROXIMATE)

<p>Geosyntec consultants</p>		
CLIENT:	PHARMACIA LLC	
PROJECT:	MILWAUKEE DIE CASTING COMPANY (MDCC) SITE 4132 NORTH HOLTON STREET MILWAUKEE, WISCONSIN	
TITLE:	SITE LOCATION MAP	
PROJECT:	CHW8271N	FIGURE NO.: 1
DATE:	March 25, 2021	FILE NO.: 2103MDCC914
DRAWING NO.:	1 OF 7	



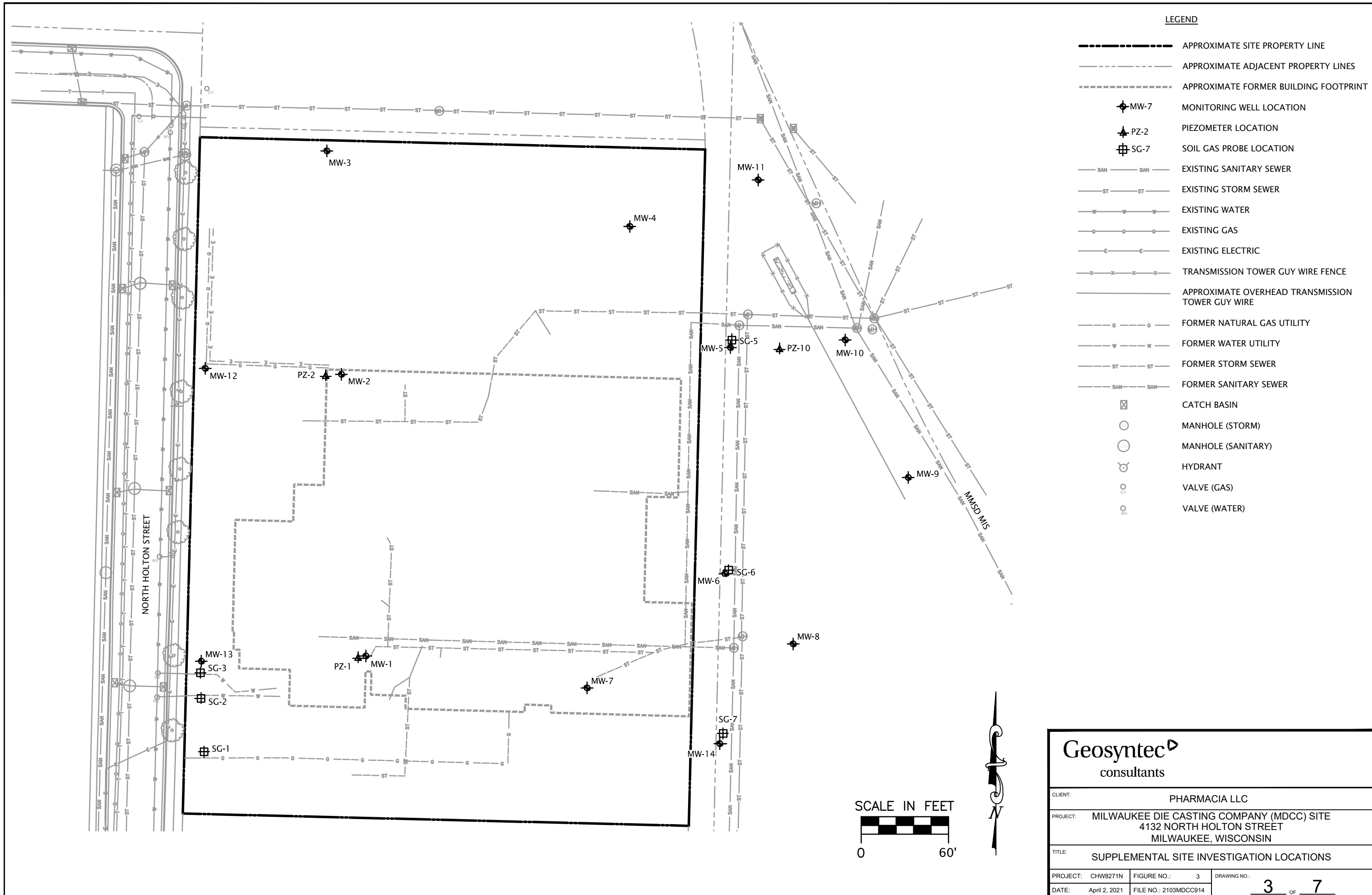
LEGEND

- APPROXIMATE SITE PROPERTY LINE
- APPROXIMATE ADJACENT PROPERTY LINES
- APPROXIMATE FORMER BUILDING FOOTPRINT
- APPROXIMATE EXTENT OF REMOVAL ACTION IMPACTED SOIL REMOVAL
- 1-FT GROUND SURFACE ELEVATION CONTOUR LINE (FEET ABOVE MEAN SEA LEVEL)
- TRANSMISSION TOWER GUY WIRE FENCE
- APPROXIMATE OVERHEAD TRANSMISSION TOWER GUY WIRE
- CLAY CAP
- SOIL COVER
- TOPSOIL COVER



Geosyntec consultants		
CLIENT:	PHARMACIA LLC	
PROJECT:	MILWAUKEE DIE CASTING COMPANY (MDCC) SITE 4132 NORTH HOLTON STREET MILWAUKEE, WISCONSIN	
TITLE:	SITE LAYOUT MAP	
PROJECT: CHW8271N	FIGURE NO.: 2	DRAWING NO.: 2 OF 7
DATE: March 25, 2021	FILE NO.: 2103MDCC914	





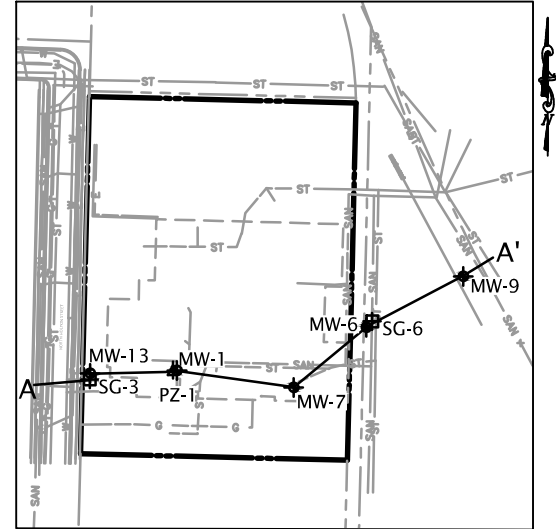
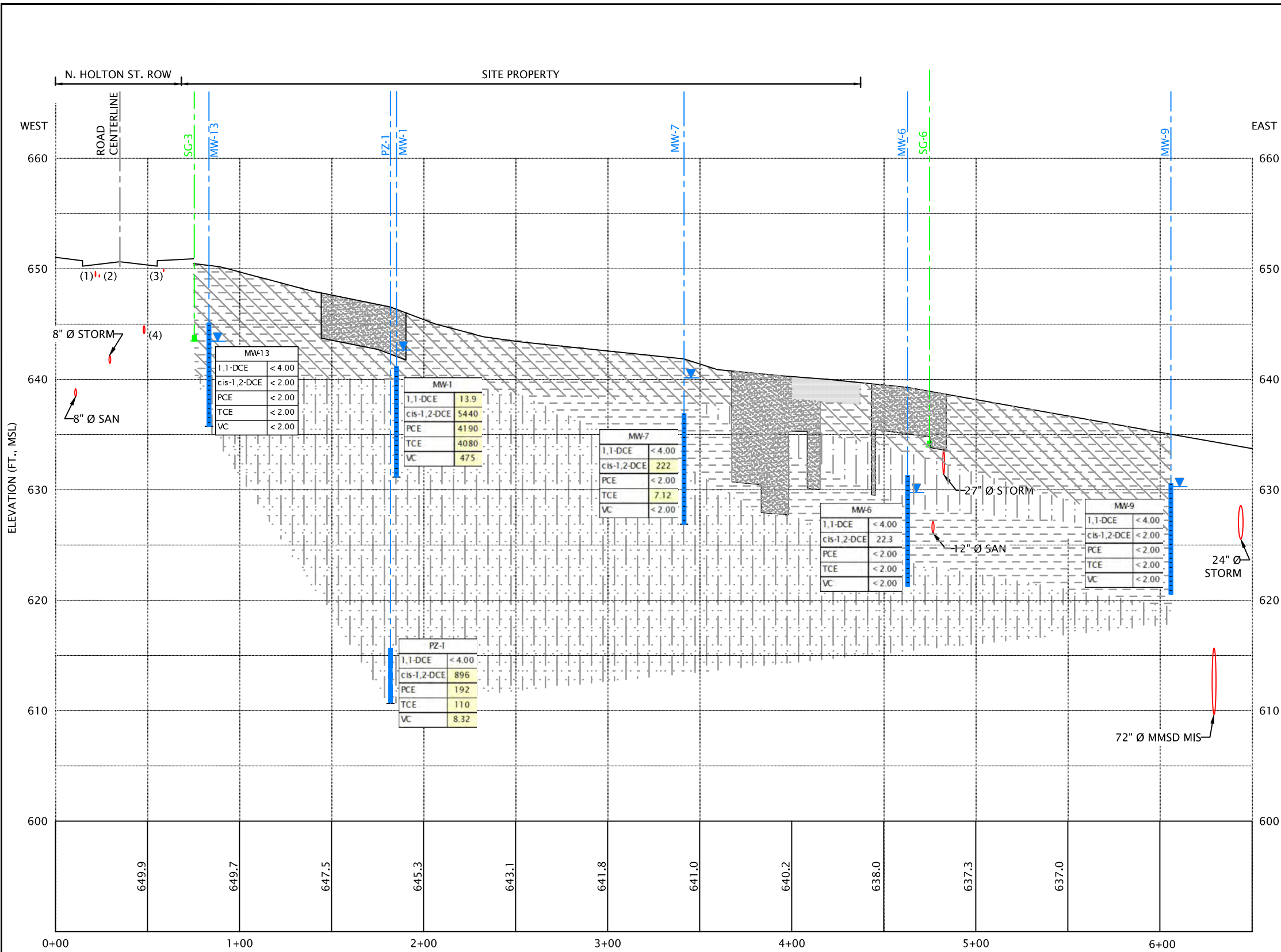
LEGEND

- APPROXIMATE SITE PROPERTY LINE
- APPROXIMATE ADJACENT PROPERTY LINES
- APPROXIMATE FORMER BUILDING FOOTPRINT
- ◆ MW-7 MONITORING WELL LOCATION
- ▲ PZ-2 PIEZOMETER LOCATION
- ⊞ SG-7 SOIL GAS PROBE LOCATION
- SAN — SAN — EXISTING SANITARY SEWER
- ST — ST — EXISTING STORM SEWER
- W — W — EXISTING WATER
- G — G — EXISTING GAS
- E — E — EXISTING ELECTRIC
- X — X — X — X — TRANSMISSION TOWER GUY WIRE FENCE
- — — — APPROXIMATE OVERHEAD TRANSMISSION TOWER GUY WIRE
- G — G — FORMER NATURAL GAS UTILITY
- W — W — FORMER WATER UTILITY
- ST — ST — FORMER STORM SEWER
- SAN — SAN — FORMER SANITARY SEWER
- ⊞ CATCH BASIN
- ⊙ MANHOLE (STORM)
- ⊙ MANHOLE (SANITARY)
- ⊙ HYDRANT
- ⊙ VALVE (GAS)
- ⊙ VALVE (WATER)



Geosyntec
consultants

CLIENT:	PHARMACIA LLC		
PROJECT:	MILWAUKEE DIE CASTING COMPANY (MDCC) SITE 4132 NORTH HOLTON STREET MILWAUKEE, WISCONSIN		
TITLE:	SUPPLEMENTAL SITE INVESTIGATION LOCATIONS		
PROJECT:	CHW8271N	FIGURE NO.:	3
DATE:	April 2, 2021	FILE NO.:	2103MDCC914
DRAWING NO.:	3		7



LOCATION MAP
N.T.S.

LEGEND:

- EXISTING GROUND SURFACE
- CLAY CAP
- BACKFILL (REMOVAL ACTION EXCAVATION AREA)
- SOIL FILL (HETEROGENOUS RE-WORKED CLAY WITH VARYING SILT, SAND & GRAVEL)
- SILT (VARYING FROM SANDY SILT TO SILTY CLAY)
- CLAY
- GROUNDWATER ELEVATION (1/18/2021)
- GROUNDWATER MONITORING WELL SCREEN
- SOIL GAS PROBE SCREEN

NOTES:

- ALL DATA IN MICROGRAMS PER LITER (µg/L)
- YELLOW BOXES - CONCENTRATION GREATER THAN NR 140 ES
- DCE - DICHLOROETHANE
- ES - ENFORCEMENT STANDARD
- PCE - TETRACHLOROETHENE
- TCE - TRICHLOROETHENE
- VC - VINYL CHLORIDE
- (1) 6" Ø GAS
- (2) TELEPHONE LINE
- (3) ELECTRIC LINE
- (4) 8" Ø WATER

Geosyntec
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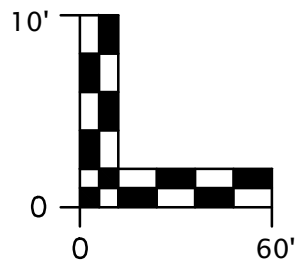
CLIENT: PHARMACIA LLC

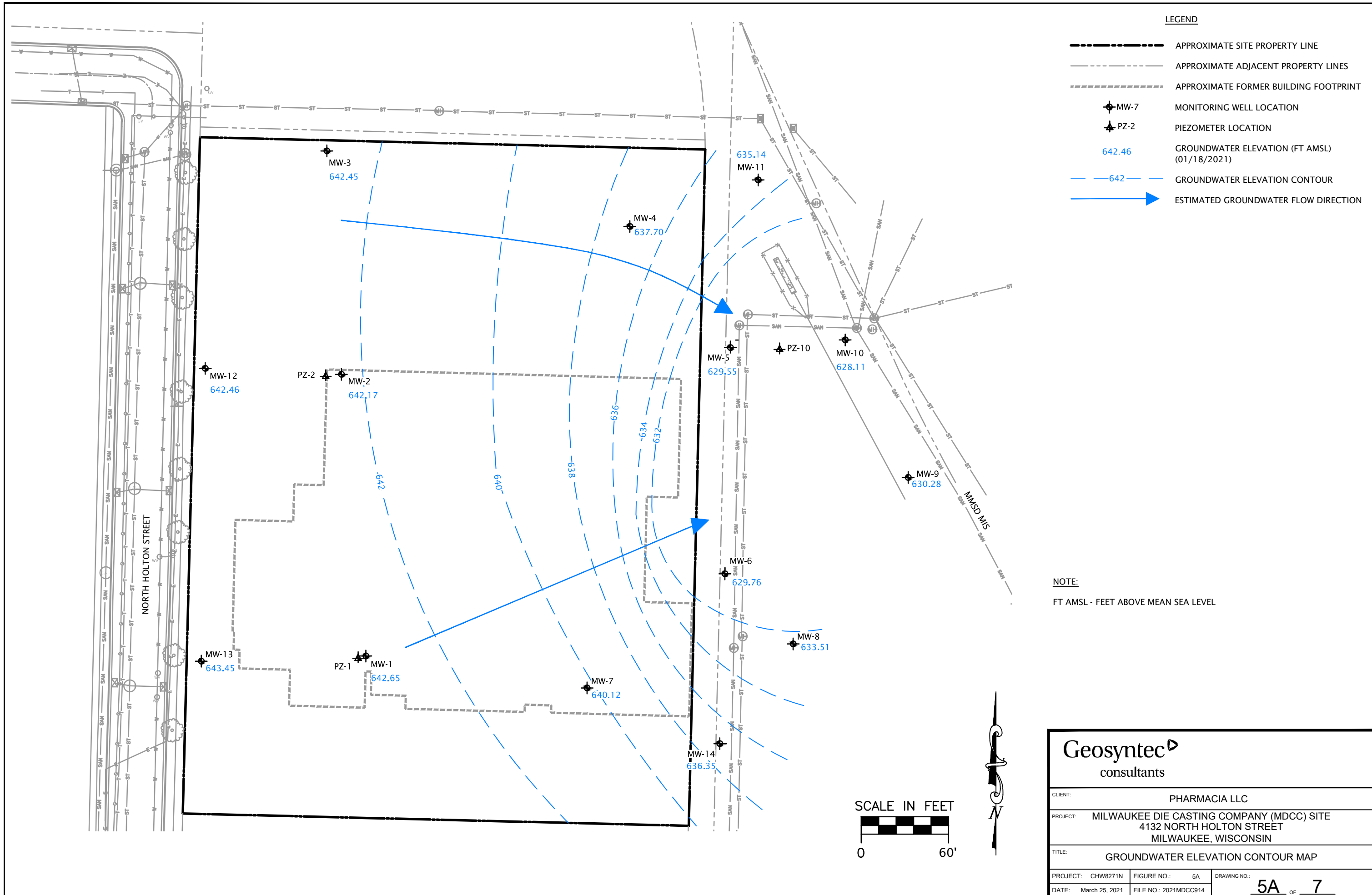
PROJECT: MILWAUKEE DIE CASTING COMPANY (MDCC) SITE
4132 NORTH HOLTON STREET
MILWAUKEE, WISCONSIN

TITLE: SECTION A - A'

PROJECT: CHW8271N FIGURE NO.: 4 DRAWING NO.: 4 OF 7

DATE: March 25, 2021 FILE NO.2103 MDCC 915





LEGEND

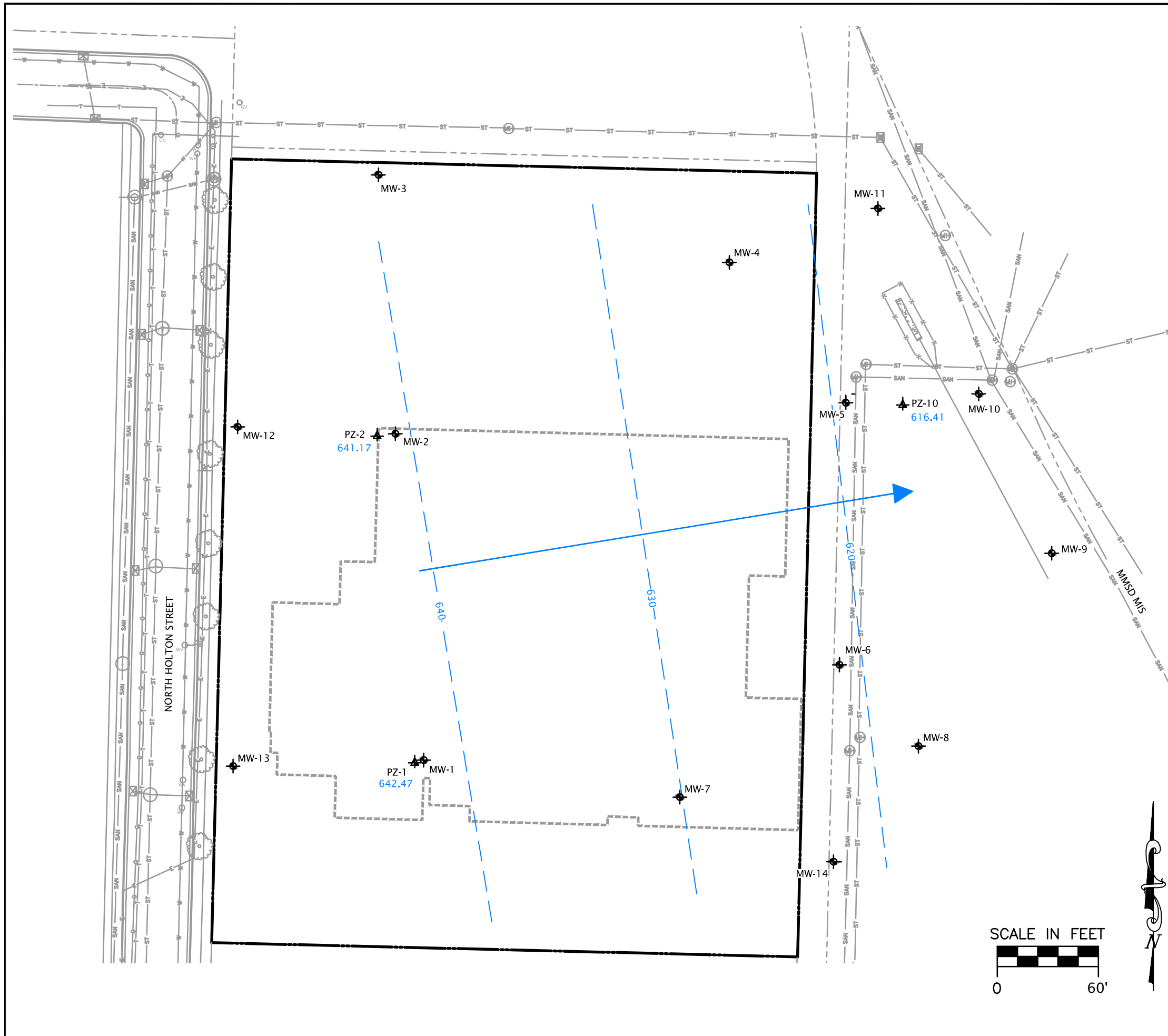
- APPROXIMATE SITE PROPERTY LINE
- APPROXIMATE ADJACENT PROPERTY LINES
- APPROXIMATE FORMER BUILDING FOOTPRINT
- MW-7 MONITORING WELL LOCATION
- PZ-2 PIEZOMETER LOCATION
- 642.46 GROUNDWATER ELEVATION (FT AMSL) (01/18/2021)
- 642 GROUNDWATER ELEVATION CONTOUR
- ESTIMATED GROUNDWATER FLOW DIRECTION

NOTE:
FT AMSL - FEET ABOVE MEAN SEA LEVEL

Geosyntec
consultants

CLIENT:	PHARMACIA LLC		
PROJECT:	MILWAUKEE DIE CASTING COMPANY (MDCC) SITE 4132 NORTH HOLTON STREET MILWAUKEE, WISCONSIN		
TITLE:	GROUNDWATER ELEVATION CONTOUR MAP		
PROJECT:	CHW8271N	FIGURE NO.:	5A
DATE:	March 25, 2021	FILE NO.:	2021MDCC914
DRAWING NO.:	5A OF 7		





LEGEND

- APPROXIMATE SITE PROPERTY LINE
- APPROXIMATE ADJACENT PROPERTY LINES
- APPROXIMATE FORMER BUILDING FOOTPRINT
- MW-7 MONITORING WELL LOCATION
- PZ-2 PIEZOMETER LOCATION
- 633.51 PIEZOMETRIC ELEVATION (FT AMSL) (01/18/2021)
- 632 ———— PIEZOMETRIC ELEVATION CONTOUR
- ESTIMATED GROUNDWATER FLOW DIRECTION

NOTE:

FT AMSL - FEET ABOVE MEAN SEA LEVEL



Geosyntec consultants		
CLIENT:	PHARMACIA LLC	
PROJECT:	MILWAUKEE DIE CASTING COMPANY (MDCC) SITE 4132 NORTH HOLTON STREET MILWAUKEE, WISCONSIN	
TITLE:	PIEZOMETRIC ELEVATION CONTOUR MAP	
PROJECT: CHW8271N	FIGURE NO.: 5B	DRAWING NO.:
DATE: March 25, 2021	FILE NO.: 2021MDCC914	5B OF 7

MW-4			MW-5			MW-11			MW-10		
DATE	9/24/20	1/20/21	DATE	10/29/20	1/21/21	DATE	10/29/20	1/19/21	DATE	10/29/20	1/20/21
1,1,1-TCA	17.3	13.7	1,1,1-TCA	2.00	2.00	1,1,1-TCA	2.00	2.00	1,1,1-TCA	2.00	2.00
1,1-DCA	7.21	8.53	1,1-DCA	2.00	2.00	1,1-DCA	2.00	2.00	1,1-DCA	2.00	2.00
1,1-DCE	4.00	4.00	1,1-DCE	4.00	4.00	1,1-DCE	4.00	4.00	1,1-DCE	4.00	4.00
cis-1,2-DCE	27.8	23.4	cis-1,2-DCE	2.00	2.00	cis-1,2-DCE	2.00	2.00	cis-1,2-DCE	2.00	2.00
PCE	2.00	2.00	PCE	2.00	2.00	PCE	2.00	2.00	PCE	2.00	2.00
trans-1,2-DCE	2.00	2.00	trans-1,2-DCE	2.00	2.00	trans-1,2-DCE	2.00	2.00	trans-1,2-DCE	2.00	2.00
TCE	10.6	7.57	TCE	2.00	2.00	TCE	2.00	2.00	TCE	2.00	2.00
VC	4.31	12.2	VC	2.00	2.00	VC	2.00	2.00	VC	2.00	2.00
ETHENE	1.2	1.2	ETHENE	1.2	1.2	ETHENE	1.2	1.2	ETHENE	1.2	1.2

MW-3		
DATE	9/23/20	1/18/21
1,1,1-TCA	2.00	2.00
1,1-DCA	2.00	2.00
1,1-DCE	4.00	4.00
cis-1,2-DCE	2.00	2.00
PCE	2.00	2.00
trans-1,2-DCE	2.00	2.00
TCE	2.00	2.00
VC	2.00	2.00
ETHENE	1.2	1.2

MW-12		
DATE	9/23/20	1/18/21
1,1,1-TCA	2.00	2.00
1,1-DCA	2.00	2.00
1,1-DCE	4.00	4.00
cis-1,2-DCE	2.00	2.00
PCE	2.00	2.00
trans-1,2-DCE	2.00	2.00
TCE	2.00	2.00
VC	2.00	2.00
ETHENE	1.2	1.2

MW-2		
DATE	9/24/20	1/20/21
1,1,1-TCA	2.00	2.00
1,1-DCA	2.00	2.00
1,1-DCE	4.00	4.00
cis-1,2-DCE	4.35	5.31
PCE	5.55	6.99
trans-1,2-DCE	2.00	2.00
TCE	2.00	2.00
VC	2.00	2.00
ETHENE	1.2	1.2

MW-13		
DATE	9/23/20	1/18/21
1,1,1-TCA	2.00	2.00
1,1-DCA	2.00	2.00
1,1-DCE	4.00	4.00
cis-1,2-DCE	2.00	2.00
PCE	2.00	2.00
trans-1,2-DCE	2.00	2.00
TCE	2.00	2.00
VC	2.00	2.00
ETHENE	1.2	1.2

MW-1		
DATE	9/23/20	1/21/21
1,1,1-TCA	2.00	2.00
1,1-DCA	2.00	2.00
1,1-DCE	9.52	13.9
cis-1,2-DCE	3150	5440
PCE	2230	4190
trans-1,2-DCE	22.2	34.8
TCE	2580	4080
VC	217	475
ETHENE	33.3	33.8

MW-7		
DATE	9/24/20	1/19/21
1,1,1-TCA	2.00	2.00
1,1-DCA	2.00	2.00
1,1-DCE	4.00	4.00
cis-1,2-DCE	48.8	222
PCE	2.00	2.00
trans-1,2-DCE	2.00	10.4
TCE	2.00	7.12
VC	2.00	2.00
ETHENE	1.2	1.2

MW-14		
DATE	9/23/20	1/19/21
1,1,1-TCA	2.00	2.00
1,1-DCA	2.00	2.00
1,1-DCE	4.00	4.00
cis-1,2-DCE	21.7	20.3
PCE	2.00	2.00
trans-1,2-DCE	2.00	2.00
TCE	2.00	2.00
VC	2.00	2.00
ETHENE	1.2	1.2

MW-6		
DATE	9/25/20	1/20/21
1,1,1-TCA	2.00	2.00
1,1-DCA	2.00	4.33
1,1-DCE	4.00	4.00
cis-1,2-DCE	6.39	22.3
PCE	2.00	2.00
trans-1,2-DCE	2.00	2.00
TCE	2.00	2.00
VC	2.00	2.00
ETHENE	1.2	1.2

MW-8		
DATE	9/24/20	1/19/21
1,1,1-TCA	2.00	2.00
1,1-DCA	2.00	2.00
1,1-DCE	4.00	4.00
cis-1,2-DCE	2.00	2.00
PCE	2.00	2.00
trans-1,2-DCE	2.00	2.00
TCE	2.00	2.00
VC	2.00	2.00
ETHENE	1.2	1.2

MW-9		
DATE	9/24/20	1/19/21
1,1,1-TCA	2.00	2.00
1,1-DCA	2.00	2.00
1,1-DCE	4.00	4.00
cis-1,2-DCE	2.00	2.00
PCE	2.00	2.00
trans-1,2-DCE	2.00	2.00
TCE	2.00	2.00
VC	2.00	2.00
ETHENE	1.2	1.2

- LEGEND**
- APPROXIMATE SITE PROPERTY LINE
 - - - APPROXIMATE ADJACENT PROPERTY LINES
 - - - - - APPROXIMATE FORMER BUILDING FOOTPRINT
 - ⊕ MW-7 MONITORING WELL LOCATION
 - 635.14 GROUNDWATER ELEVATION (FT AMSL) (01/18/2021)
 - 632--- GROUNDWATER ELEVATION CONTOUR
 - ESTIMATED GROUNDWATER FLOW DIRECTION
 - - - - - APPROXIMATE LOCATION OF FORMER TCE UST
 - ▨ 2015 CVOC-IMPACTED UNSATURATED SOIL REMOVAL AREA
 - ▨ ESTIMATED EXTENT OF CVOCs > NR 140 ES

- NOTES:**
- NOT ANALYZED
 - ALL DATA IN MICROGRAMS PER LITER (µg/L)
 - BOX + BOLD - CONCENTRATION GREATER THAN NR 140 ES
 - CVOC - CHLORINATED VOLATILE ORGANIC COMPOUNDS
 - DCA - DICHLOROETHANE
 - DCE - DICHLOROETHANE
 - ES - ENFORCEMENT STANDARD
 - FT AMSL - FEET ABOVE MEAN SEA LEVEL
 - PCE - TETRACHLOROETHENE
 - TCA - TRICHLOROETHANE
 - TCE - TRICHLOROETHENE
 - UST - UNDERGROUND STORAGE TANK
 - VC - VINYL CHLORIDE



Geosyntec
consultants

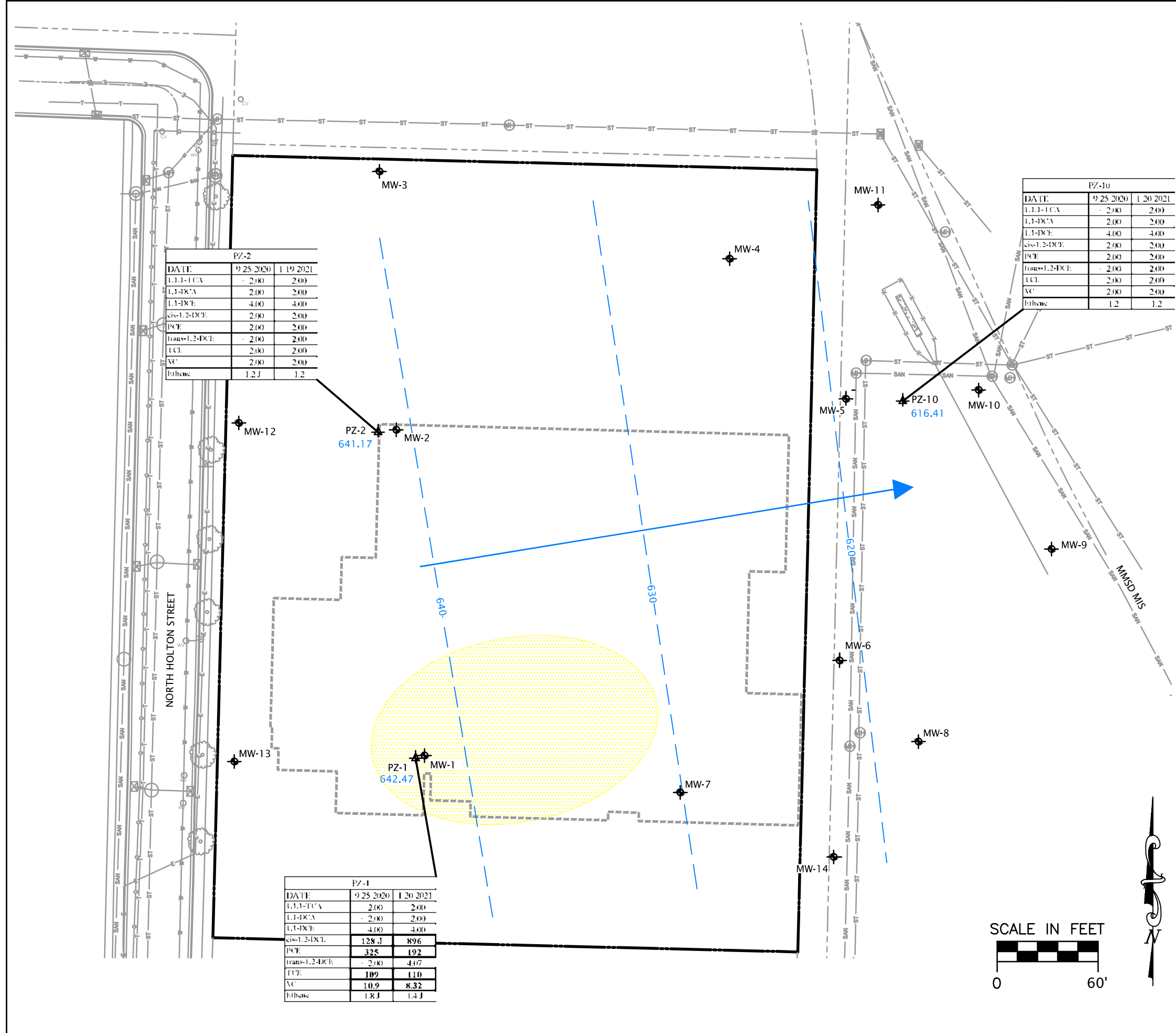
CLIENT: PHARMACIA LLC

PROJECT: MILWAUKEE DIE CASTING COMPANY (MDCC) SITE
4132 NORTH HOLTON STREET
MILWAUKEE, WISCONSIN

TITLE: GROUNDWATER DATA SUMMARY MAP -
SHALLOW GROUNDWATER CVOCs

PROJECT: CHW8271N | FIGURE NO.: 6A | DRAWING NO.: 6A OF 7

DATE: March 25, 2021 | FILE NO.: 2021MDCC914



PZ-2		
DATE	9/25/2020	1/19/2021
L,1,1-TCA	2.00	2.00
L,1,1-DCA	2.00	2.00
L,1,1-DCE	4.00	4.00
cis-1,2-DCE	2.00	2.00
PCE	2.00	2.00
trans-1,2-DCE	2.00	2.00
TCE	2.00	2.00
VC	2.00	2.00
Ethene	1.2J	1.2

PZ-10		
DATE	9/25/2020	1/20/2021
L,1,1-TCA	2.00	2.00
L,1,1-DCA	2.00	2.00
L,1,1-DCE	4.00	4.00
cis-1,2-DCE	2.00	2.00
PCE	2.00	2.00
trans-1,2-DCE	2.00	2.00
TCE	2.00	2.00
VC	2.00	2.00
Ethene	1.2	1.2

PZ-1		
DATE	9/25/2020	1/20/2021
L,1,1-TCA	2.00	2.00
L,1,1-DCA	2.00	2.00
L,1,1-DCE	4.00	4.00
cis-1,2-DCE	128J	896
PCE	325	192
trans-1,2-DCE	2.00	4.07
TCE	109	110
VC	10.9	8.32
Ethene	1.8J	1.4J

LEGEND

- APPROXIMATE SITE PROPERTY LINE
- APPROXIMATE ADJACENT PROPERTY LINES
- APPROXIMATE FORMER BUILDING FOOTPRINT
- MW-7 MONITORING WELL LOCATION
- PZ-2 PIEZOMETER LOCATION
- 633.51** PIEZOMETRIC ELEVATION (FT AMSL) (01/18/2021)
- 632 ———— PIEZOMETRIC ELEVATION CONTOUR
- ESTIMATED GROUNDWATER FLOW DIRECTION
- ESTIMATED EXTENT OF CVOCs > NR 140 ES

NOTES:





- - NOT ANALYZED
- ALL DATA IN MICROGRAMS PER LITER (µg/L)
- BOX + BOLD - CONCENTRATION GREATER THAN NR 140 ES
- CVOC - CHLORINATED VOLATILE ORGANIC COMPOUNDS
- DCA - DICHLOROETHANE
- ES - ENFORCEMENT STANDARD
- FT AMSL - FEET ABOVE MEAN SEA LEVEL
- PCE - TETRACHLOROETHENE
- TCA - TRICHLOROETHANE
- TCE - TRICHLOROETHENE
- UST - UNDERGROUND STORAGE TANK
- VC - VINYL CHLORIDE

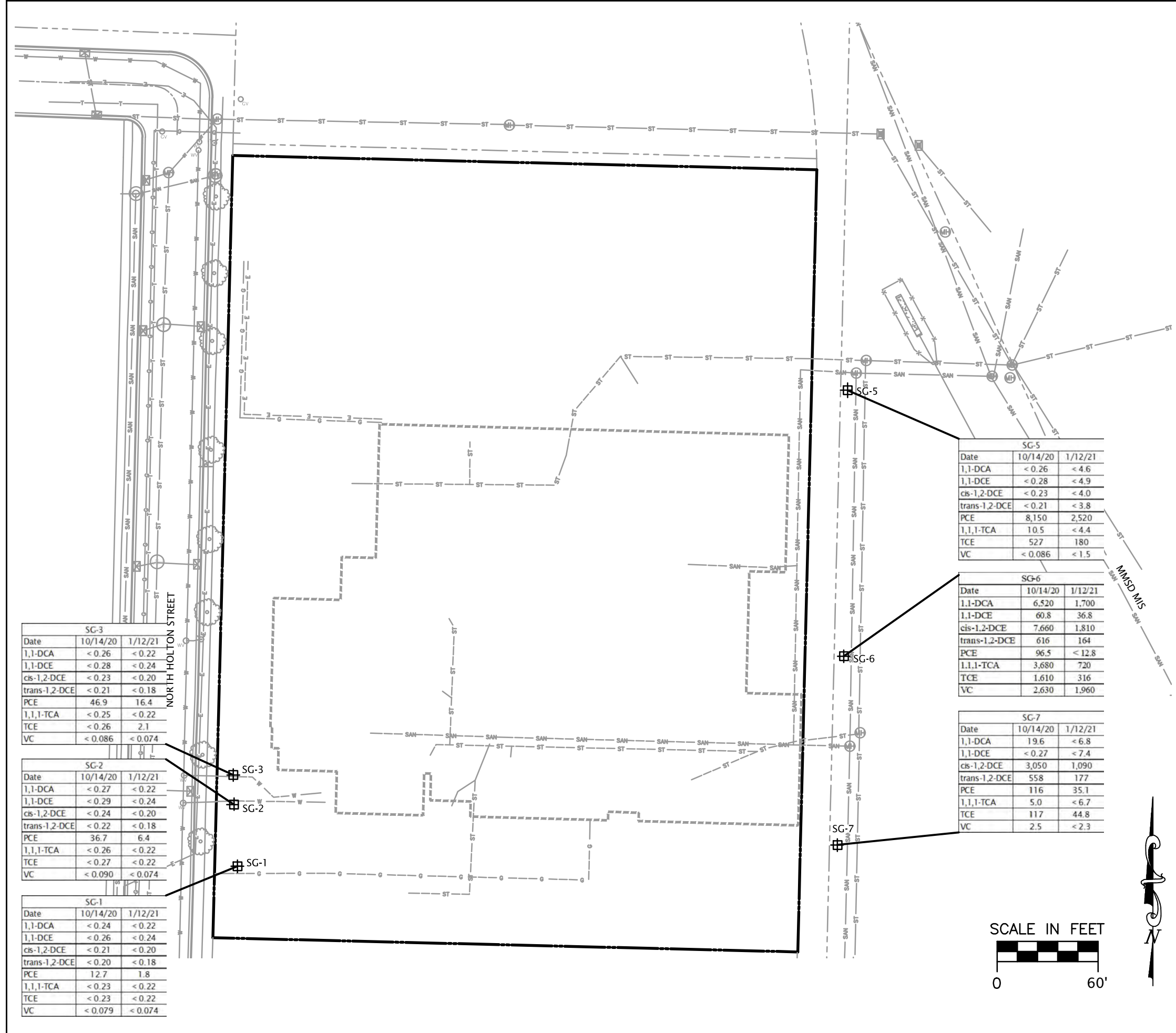
Geosyntec
consultants

CLIENT:	PHARMACIA LLC		
PROJECT:	MILWAUKEE DIE CASTING COMPANY (MDCC) SITE 4132 NORTH HOLTON STREET MILWAUKEE, WISCONSIN		
TITLE:	GROUNDWATER DATA SUMMARY MAP - DEEPER GROUNDWATER CVOCs		
PROJECT:	CHW8271N	FIGURE NO.:	6B
DATE:	March 25, 2021	FILE NO.:	2021MDCC914
DRAWING NO.:			6B OF 7



LEGEND

-  APPROXIMATE SITE PROPERTY LINE
-  APPROXIMATE ADJACENT PROPERTY LINES
-  APPROXIMATE FORMER BUILDING FOOTPRINT
-  SG-7 SOIL GAS PROBE LOCATION



SG-3		
Date	10/14/20	1/12/21
1,1-DCA	< 0.26	< 0.22
1,1-DCE	< 0.28	< 0.24
cis-1,2-DCE	< 0.23	< 0.20
trans-1,2-DCE	< 0.21	< 0.18
PCE	46.9	16.4
1,1,1-TCA	< 0.25	< 0.22
TCE	< 0.26	2.1
VC	< 0.086	< 0.074

SG-2		
Date	10/14/20	1/12/21
1,1-DCA	< 0.27	< 0.22
1,1-DCE	< 0.29	< 0.24
cis-1,2-DCE	< 0.24	< 0.20
trans-1,2-DCE	< 0.22	< 0.18
PCE	36.7	6.4
1,1,1-TCA	< 0.26	< 0.22
TCE	< 0.27	< 0.22
VC	< 0.090	< 0.074

SG-1		
Date	10/14/20	1/12/21
1,1-DCA	< 0.24	< 0.22
1,1-DCE	< 0.26	< 0.24
cis-1,2-DCE	< 0.21	< 0.20
trans-1,2-DCE	< 0.20	< 0.18
PCE	12.7	1.8
1,1,1-TCA	< 0.23	< 0.22
TCE	< 0.23	< 0.22
VC	< 0.079	< 0.074

SG-5		
Date	10/14/20	1/12/21
1,1-DCA	< 0.26	< 4.6
1,1-DCE	< 0.28	< 4.9
cis-1,2-DCE	< 0.23	< 4.0
trans-1,2-DCE	< 0.21	< 3.8
PCE	8,150	2,520
1,1,1-TCA	10.5	< 4.4
TCE	527	180
VC	< 0.086	< 1.5

SG-6		
Date	10/14/20	1/12/21
1,1-DCA	6,520	1,700
1,1-DCE	60.8	36.8
cis-1,2-DCE	7,660	1,810
trans-1,2-DCE	616	164
PCE	96.5	< 12.8
1,1,1-TCA	3,680	720
TCE	1,610	316
VC	2,630	1,960

SG-7		
Date	10/14/20	1/12/21
1,1-DCA	19.6	< 6.8
1,1-DCE	< 0.27	< 7.4
cis-1,2-DCE	3,050	1,090
trans-1,2-DCE	558	177
PCE	116	35.1
1,1,1-TCA	5.0	< 6.7
TCE	117	44.8
VC	2.5	< 2.3

NOTES:

- ALL DATA IN MICROGRAMS PER CUBIC METER (ug/m³)
- CVOC - CHLORINATED VOLATILE ORGANIC COMPOUND
- DCA - DICHLOROETHANE
- DCE - DICHLOROETHENE
- PCE - TETRACHLOROETHENE
- TCA - TETRACHLOROETHENE
- TCE - TRICHLOROETHENE
- VC - VINYL CHLORIDE



Geosyntec
consultants

CLIENT: PHARMACIA LLC

PROJECT: MILWAUKEE DIE CASTING COMPANY (MDCC) SITE
4132 NORTH HOLTON STREET
MILWAUKEE, WISCONSIN

TITLE: SOIL GAS DATA SUMMARY MAP - CVOCs

PROJECT: CHW8271N FIGURE NO.: 7 DRAWING NO.: 7 OF 7

DATE: April 14, 2021 FILE NO.: 2103MDCC914

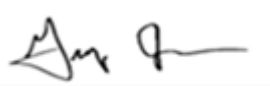

APPENDIX 1

NR 712.09 Submittal Certification

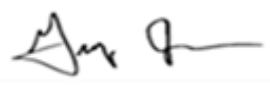
NR 712.09 Submittal certification.

Document Name	SUPPLEMENTAL SITE INVESTIGATION REPORT
Document Date	May 11, 2021
Site Name	Milwaukee Die Casting Company Site
WDNR BRRTS #	02-41-000023

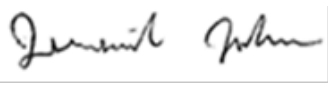
"I, Greg Johnson, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

 Greg Johnson, P.H., P.G., P.E. Senior Engineer P.E. #: 29898-006	 5/11/2021
Signature, title and P.E. number	P.E. stamp

"I, Greg Johnson, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

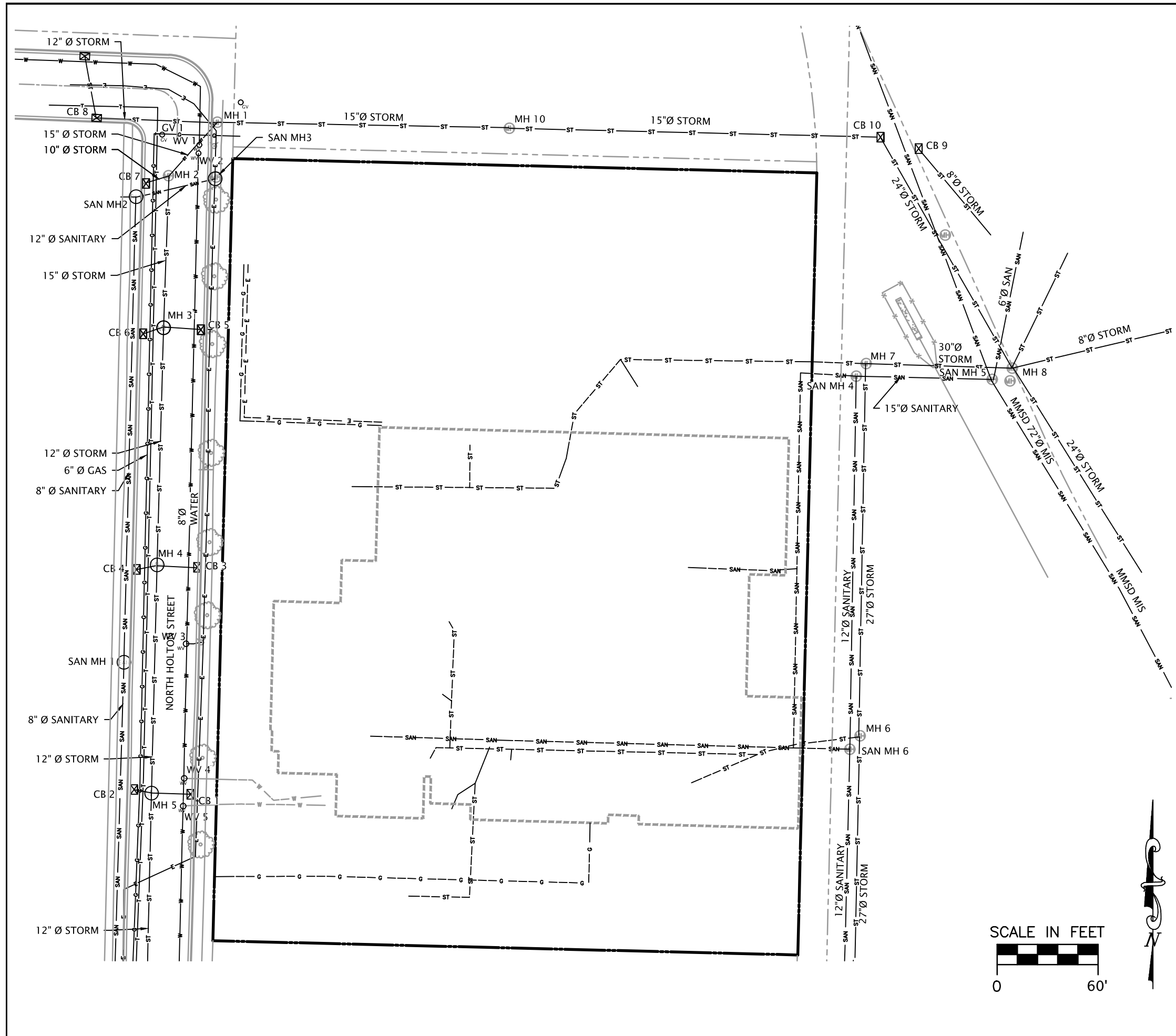
 Senior Engineer	5/11/2021
Signature and title	Date

"I, Jeremiah Johnson, hereby certify that I am a scientist as that term is defined in s. NR 712.03 (3), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

 Project Geologist	5/11/2021
Signature and title	Date

APPENDIX 2

Utility Information



LEGEND

- APPROXIMATE SITE PROPERTY LINE
- APPROXIMATE ADJACENT PROPERTY LINES
- APPROXIMATE FORMER BUILDING FOOTPRINT
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING WATER
- EXISTING GAS
- EXISTING ELECTRIC
- TRANSMISSION TOWER GUY WIRE FENCE
- APPROXIMATE OVERHEAD TRANSMISSION TOWER GUY WIRE
- FORMER NATURAL GAS UTILITY
- FORMER WATER UTILITY
- FORMER STORM SEWER
- FORMER SANITARY SEWER
- CATCH BASIN
- MANHOLE (STORM)
- MANHOLE (SANITARY)
- HYDRANT
- VALVE (GAS)
- VALVE (WATER)

GENERAL NOTES

1. DATUM: NAD 83 (2011 ADJUSTMENT) UM 16 N (US SURVEY FEET).
2. FIELD SURVEY PERFORMED BY TERRATEC ENGINEERING, LLC ON 20 SEPTEMBER 2019.
3. BENCHMARKS:
 - 1 HYDRANT - WEST NUT, EL. = 652.92 FT AMSL
 - 2 HYDRANT - EAST NUT, EL. = 652.89 FT AMSL
4. REFER TO FIGURE 3B FOR MANHOLE, CATCH BASIN AND VAULT INFORMATION.
5. FT AMSL = FEET ABOVE MEAN SEA LEVEL



Geosyntec consultants		
CLIENT:	PHARMACIA LLC	
PROJECT:	MILWAUKEE DIE CASTING COMPANY (MDCC) SITE 4132 NORTH HOLTON STREET MILWAUKEE, WISCONSIN	
TITLE:	UTILITY LAYOUT MAP	
PROJECT: CHW8271N	FIGURE NO.: A2-1	DRAWING NO.:
DATE: March 8, 2021	FILE NO.: 2103MDCC914	A2-1

SANITARY SEWER MANHOLE SUMMARY

SAN MH1
RIM = 650.50
N IE = 640.45
S IE = 640.35

SAN MH2
RIM = 650.60
E IE = 635.40
W/S IE = 635.50

SAN MH 3
RIM = 651.22
W IE = 635.17

SAN MH 4
RIM = 637.54
E IE = 620.80
S IE = 623.19
W IE = 622.99

MH 5 (MMSD)
RIM = 637.29
SEDIMENT @ 615.20
NE IE (6" CAST IRON DROP DOWN) ENTERS
MH = 627.64
NW/SE IE (72" RECORD) = 609.64

SAN MH 6
RIM = 640.10
N IE = 626.20
S IE = 626.28

STORM SEWER CATCH
BASIN SUMMARY

CB 1
RIM = 650.19
W IE = 646.19

CB 2
RIM = 650.19
E IE = 646.19

CB 3
RIM = 650.04
N IE = 646.50

CB 4
RIM = 650.04
N IE = 646.08

CB 5
RIM = 650.04
W IE = 645.64

CB 6
RIM = 650.04
E IE = 645.24

CB 7
RIM = 650.30
NE IE = 645.60

CB 8
RIM = 650.00
N IE = 645.35
E IE = 645.15

CB 9 (BEEHIVE COVER)
RIM = 635.40
SE IE = 632.90

CB 10 (BEEHIVE COVER)
RIM = 635.76
W/SE IE = 630.05

STORM SEWER MANHOLE SUMMARY

MH 1
RIM = 651.61
E IE = 640.21
SW IE = 640.16
W IE = 639.61

MH 2
RIM = 650.68
NE IE = 639.88
SW IE = 645.18
S IE = 639.98

MH 3
RIM 650.31
N IE = 640.33
E IE = 644.36
S IE = 640.43
W IE = 644.06

MH 4
RIM = 650.33
N IE = 640.93
S IE = 640.88
E IE = 644.38
W IE = 644.08

MH 5 = 650.39
N IE = 641.97
S IE = 641.91
E/W IE = 645.07

MH 6
RIM = 639.46
N IE = 632.33
S IE = 632.46
W IE = 639.48 (CAPPED)

MH 7
RIM = 637.45
N IE = 629.10 (CAPPED)
E IE = 625.63
S IE = 629.83
W IE = 632.45 (CAPPED)

MH 8
RIM = 636.93
NW IE = 625.53
NE IE = 629.58
E IE = 628.78
SW IE = 625.58

MH 10
RIM = 647.26
W IE = 638.56
E IE = 638.46

GAS & WATER VALVE SUMMARY

GV1
RIM = 650.00
UNABLE TO OPEN LID

WV 1
RIM = 650.67
TOP OF NUT = 645.99

WV2
RIM = 650.70
TOP OF NUT = 646.04

WV3
RIM = 650.43
TOP OF NUT = 645.44

WV4
RIM = 650.04
TOP OF NUT = 645.46

WV5
RIM = 649.94
TOP OF NUT = 645.23

UNITS = FEET ABOVE MEAN SEA LEVEL

Geosyntec consultants		
CLIENT:	PHARMACIA LLC	
PROJECT:	MILWAUKEE DIE CASTING COMPANY (MDCC) SITE 4132 NORTH HOLTON STREET MILWAUKEE, WISCONSIN	
TITLE:	UTILITY LAYOUT NOTES	
PROJECT:	CHW8271N	FIGURE NO.: A2-2
DATE:	April 2, 2021	FILE NO.: 2103MDCC914
		A2-2

APPENDIX 3


Groundwater Monitoring Well Soil Boring Logs
Well Construction and Development Forms
Well Screen Interval Grain Size Testing Data

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site			License/Permit/Monitoring No. BRRTS#02-41-000023		Boring Number PZ-1		
Boring Drilled By (First and Last Name, Firm) Steve Gonyer, GESTRA Engineering, Inc.			Drilling Start Date 08/20/2020		Drilling End Date 08/20/2020		
WI Unique Well No.		DNR Well ID No.	Well Name PZ-1 & MW-1		Final Static WL Feet MSL		
Local Grid Origin <input checked="" type="checkbox"/> State Plane 15654238.49 N, 1398981.47 E SW 1/4 of SW 1/4 of Section 04, T 07 N, R 22 E		Boring Location <input type="checkbox"/> Lat -- <input type="checkbox"/> N <input type="checkbox"/> E Long -- <input type="checkbox"/> S <input type="checkbox"/> W		Surface Elevation 646.74 Feet MSL		Borehole Diameter 8.25 inches	
Facility ID 241228240			County Milwaukee		County Code 41		
					Civil Town/City/Village Milwaukee		

SAMPLE				Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value	
1/SS	SS	18/24	3	0	(0') Stiff, brown CLAY (CL); moist, trace gravel, topsoil (FILL).	FILL									11	
2/SS	SS	12/24	4	0.6	(0.6') Very stiff, brown CLAY (CL); moist, trace gravel (FILL).	FILL									18	
3/SS	SS	12/24	8	3.8	(3.8') Stiff, dark brown CLAY (CL); moist, trace gravel, possible (FILL).	FILL									9	
4/SS	SS	18/24	5	6.5	(6.5') Very stiff, gray SILT with SAND (ML); moist, low plasticity, little to some fine to medium sand and trace gravel, massive.	ML									17	
5/SS	SS	18/24	9	8	(8') Medium dense, gray, SILTY SAND (SM); moist, trace gravel, massive.	SM									26	
6/SS	SS	18/24	4	9.5	(9.5') Wet.										50	
7/SS	SS	14/22	4	10	(10') Dense.				290.0						>50	
8/SS	SS	14/15	16	12	(12') Very dense.				16.1						>50	
9/SS	SS	24/24	23	14	(14') Very dense, gray, POORLY GRADED SAND with SILT (SP-SM); moist to wet, little to some silt and few gravel, massive.	SP-SM									>50	
10/SS	SS	12/17	19	15	(15') Very dense, gray, POORLY GRADED SAND (SP); wet, fine sand, massive.	SP									>50	
11/SS	SS	10/14	37	16.5	(16.5') Very dense, gray, SILTY SAND (SM); wet, fine sand, massive with few coarse sand layers (approximately 1 inch thick) from 18-20 feet.	SM									>50	
12/SS	SS		49	20	(18') Very dense, gray, SANDY SILT (ML); moist to wet, some fine sand and trace gravel, massive.	ML									>50	
13/SS	SS	6/6	21	20.8	(20.8') Hard, gray, SANDY SILT (ML); moist to wet, some fine sand and trace gravel, massive.	ML									>50	
			34	22	(22') As above from 20.8-22 feet.											
			50/5"	24	(24') As above from 20.8-24 feet.											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature		Firm	Geosyntec Consultants, Inc.
-----------	-------------------------------------------------------------------------------------	------	-----------------------------


This form is authorized by Chapters 281, 283, 289, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company			License/Permit/Monitoring No. BRRTS# 02-41-000023		Boring Number PZ-1		
Boring Drilled By (First and Last Name, Firm) Steve Gonyer, GESTRA Engineering, Inc.			Drilling Start Date 08/20/2020		Drilling End Date 08/20/2020		
WI Unique Well No.		DNR Well ID No.	Well Name PZ-1 & MW-1		Final Static WL Feet MSL		
Local Grid Origin <input checked="" type="checkbox"/> State Plane 15654238.49 N, 1398981.47 E SW 1/4 of SW 1/4 of Section 04, T 07 N, R 22 E		Boring Location <input type="checkbox"/> Lat -- Long --		Local Grid Location ____ Feet <input type="checkbox"/> N ____ Feet <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W			
Facility ID 241228240		County Milwaukee		County Code 41		Civil Town/City/Village Milwaukee	

SAMPLE					Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type	Sample Length Attempt	Recovery (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value	
14/SS	SS	6/6	88		25	(26') As above from 20.8-26 feet.				1.9							
15/SS	SS	10/18				(28') As above from 20.8-28 feet.											
16/SS	SS	12/18	37 24 55		30	(30.5') Very dense, gray, POORLY GRADED SAND (SP); wet, fine sand, massive.	SP			0.0						>50	
17/SS	SS	12/15	58 41 100/ 3"			(32.5') Hard, gray, SANDY SILT (ML); wet, some fine sand, massive.	ML			0.0						>50	
18/SS	SS	6/6	100		35	(34') Very dense, gray, SILTY SAND (SM); moist, trace gravel, massive.	SM			0.0							
(36') Boring terminated.																	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm Geosyntec Consultants, Inc.
-----------------------------------------------------------------------------------------------	--------------------------------------------


This form is authorized by Chapters 281, 283, 289, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site			License/Permit/Monitoring No. DTTVU%24/63/222245		Boring Number PZ-2	
Boring Drilled By (First and Last Name, Firm) Steve Gonyer, GESTRA Engineering, Inc.			Drilling Start Date 08/18/2020	Drilling End Date 08/18/2020	Drilling Method Hollow Stem Auger	
WI Unique Well No.	DNR Well ID No.	Well Name PZ-2 & MW-2	Final Static WL Feet MSL	Surface Elevation 637.53 Feet MSL	Borehole Diameter 8.25 inches	
Local Grid Origin <input checked="" type="checkbox"/> State Plane 5654431.46 N, 1398960.34 E SW 1/4 of SW 1/4 of Section 04, T 07 N, R 22 E			Boring Location <input type="checkbox"/> Lat -- <input type="checkbox"/> N <input type="checkbox"/> E Long -- <input type="checkbox"/> S <input type="checkbox"/> W		Local Grid Location Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID 241228240		County Milwaukee	County Code 41	Civil Town/City/Village Milwaukee		

SAMPLE				Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type	Length Attempt	Recovery (in)							Blow Counts	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
	HA		24/24		0	(0') Brown TOPSOIL (FILL).	FILL									
1/SS	SS		12/24	10	(2') Very stiff, brown CLAY (CL); moist, few gravel (>2 inch diameter) (FILL).	FILL									21	
2/SS	SS		12/24	8	(4') As above from 2-4 feet.										20	
3/SS	SS		16/24	5	(5') Medium dense, gray GRAVEL (GP); moist to wet, some sand and gravel (0.5-2 inch) (FILL).	FILL			0.1						30	
4/SS	SS		10/24	10	(6') Very stiff, brown, SANDY CLAY (CL); moist, low plasticity, some fine sand and few gravel, massive with few orange mottles.	CL									>50	
5/SS	SS		15/24	6	(8') Hard, gray SILT (ML); moist, low plasticity, few gravel and sand, massive with large rock at 8 feet (glacial till).	ML			0.3						47	
6/SS	SS		14/24	11	(10') As above from 8-10 feet.				0.1						>50	
7/SS	SS		18/24	11	(12') As above from 8-12 feet.				0.2						>50	
8/SS	SS		18/18	13	(13') Very dense, gray, POORLY GRADED SAND (SP); wet, fine sand grading to fine-medium sand and larger rocks at 14 feet, massive.	SP									>50	
9/SS	SS		18/24	28	(14') Hard, gray SILT with SAND (ML); moist, fine sand and trace gravel.	ML									>50	
10/SS	SS		18/24	11	(16') As above from 14-16 feet.				0.0						>50	
11/SS	SS		18/18	22	(18') As above from 14-18 feet.				0.0						>50	
12/SS	SS		12/12	45	(20.8') Very dense, gray, POORLY GRADED SAND (SP); wet, fine to medium sand with few coarse gravel, massive.	SP			0.4						>50	
				74	(22') Hard, gray SILT with SAND (ML); moist, fine sand with few gravel, massive with thin (<2 inch) wet fine sand seams from 22-24 feet.	ML			0.1							
				76					0.0							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm Geosyntec Consultants, Inc.
--------------------------------------------------------------------------------------------------	--------------------------------------------


This form is authorized by Chapters 281, 283, 289, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site			License/Permit/Monitoring No. BRRTS# 02-41-000023		Boring Number PZ-2	
Boring Drilled By (First and Last Name, Firm) Steve Gonyer, GESTRA Engineering, Inc.			Drilling Start Date 08/18/2020		Drilling End Date 08/18/2020	
WI Unique Well No.			DNR Well ID No.		Well Name PZ-2 & MW-2	
Final Static WL Feet MSL			Surface Elevation 637.53 Feet MSL		Borehole Diameter 8.25 inches	
Local Grid Origin <input checked="" type="checkbox"/> State Plane 5654431.46 N, 1398960.34 E SW 1/4 of SW 1/4 of Section 04, T 07 N, R 22 E			Boring Location <input type="checkbox"/> Lat -- Long --		Local Grid Location ____ Feet <input type="checkbox"/> N ____ Feet <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W	
Facility ID 241228240			County Milwaukee		County Code 41	
			Civil Town/City/Village Milwaukee			

SAMPLE					Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type	Length Attempt	Recovery (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value	
13/SS	SS	12/12	46	70	25	(24') As above from 22-23.5 feet.											
14/SS	SS	6/6	100			(26') As above from 22-26 feet.											
15/SS	SS	12/12	33	100	30	(30') Hard, gray CLAY (CL); moist, low plasticity, cohesive, with clayey silt (CL/ML) and few gravel and few-little sand, massive.	CL										>50
16/SS	SS	12/12	68	82		(32') Hard, gray SILT (ML); moist, few gravel and sand, massive (glacial till).	ML										>50
17/SS	SS	12/12			35	(34') Gray, SILTY SAND (SM); moist, fine to medium sand with few gravel, massive.	SM										
18/SS	SS	3/3	100/5"			(36') POORLY GRADED GRAVEL (GP); SHALE and LIMESTONE Fragments.	GP										
19/SS	SS	3/3	100/3"			(38.3') Boring terminated.											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm Geosyntec Consultants, Inc.
-----------------------------------------------------------------------------------------------	--------------------------------------------


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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site			License/Permit/Monitoring No. BRRTS# 02-41-000023		Boring Number MW-3	
Boring Drilled By (First and Last Name, Firm) Steve Gonyer, GESTRA Engineering, Inc.			Drilling Start Date 08/17/2020		Drilling End Date 08/17/2020	
WI Unique Well No.			DNR Well ID No.		Well Name MW-3	
Final Static WL Feet MSL			Surface Elevation 648.57 Feet MSL		Borehole Diameter 8.25 inches	
Local Grid Origin <input checked="" type="checkbox"/> State Plane 15654587.38 N, 398960.56 E SW 1/4 of SW 1/4 of Section 04, T 07 N, R 22 E			Boring Location <input type="checkbox"/> Lat -- Long --		Local Grid Location ____ Feet <input type="checkbox"/> N <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID 241228240			County Milwaukee		County Code 41	
					Civil Town/City/Village Milwaukee	

SAMPLE				Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type	Sample Length Attempt	Recovery (in)							Blow Counts	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
	HA				0	(0') Brown CLAY (CL); dry to moist, trace gravel, topsoil (FILL). (1') Gray GRAVEL (GP); dry to moist, >1 inch stone (FILL). (2') Dark brown CLAY (CL); moist, few sand and trace gravel (FILL).	FILL									Hand auger 0-5 ft bgs
					5	(4.4') Brown, SANDY CLAY to CLAY WITH SAND(CL); moist, little to some sand and trace gravel, massive. (6') Hard	CL									13
1/SS	SS	12/24		8												23
				8												26
2/SS	SS	14/24		15												34
				16												15
				17												13
3/SS	SS	17/24		27		(8') Very stiff, grayish brown, SILTY CLAY (CL-ML); moist, little gravel (0.25-2 inch diameter) and few sand, massive. (10') Hard, gray.	CL-ML									30
				20												17
				30												27
4/SS	SS	16/24		39		(12') As above from 10-12 feet.										50
				30												20
				31												30
5/SS	SS	16/24		40		(14') Hard, gray SILT (ML); moist, little sand and few gravel, massive.	ML									47
				40												22
				53												25
6/SS	SS	12/15		49		(16') As above from 14-16 feet.										>50
				86												34
				100/3"		(17.5') Boring terminated.										>50

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm Geosyntec Consultants, Inc.
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site			License/Permit/Monitoring No. BRRTS# 02-41-000023		Boring Number MW-4	
Boring Drilled By (First and Last Name, Firm) Steve Gonyer, GESTRA Engineering, Inc.			Drilling Start Date 08/18/2020		Drilling End Date 08/18/2020	
Drilling Method Hollow Stem Auger			Final Static WL Feet MSL		Surface Elevation 641.68 Feet MSL	
WI Unique Well No.		DNR Well ID No.		Well Name MW-4		Borehole Diameter 8.25 inches
Local Grid Origin <input checked="" type="checkbox"/> State Plane 15654535.11 N, 1399168.17 E SW 1/4 of SW 1/4 of Section 04, T 07 N, R 22 E			Boring Location <input type="checkbox"/> Lat -- <input type="checkbox"/> N <input type="checkbox"/> S Long -- <input type="checkbox"/> E <input type="checkbox"/> W		Local Grid Location ____ Feet <input type="checkbox"/> N <input type="checkbox"/> S	
Facility ID 241228240		County Milwaukee		County Code 41		Civil Town/City/Village Milwaukee

SAMPLE				Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value	
	HA			0	(0') Brown CLAY (CL); topsoil (FILL). (0.5') Gray CLAY (CL); little silt (FILL).	FILL FILL									Hand auger 0-5 ft bgs	
				2.5	(2.5') Dark brown CLAY (CL); moist, few to little organics, possible (FILL).	FILL			0.4						9	
				4	(4') Dark brown CLAY (CL); moist, medium plasticity, massive with few gray mottles.	CL									10	
1/SS	SS	18/24	5	6	(6') Stiff, brown CLAY with SAND (CL); moist, medium plasticity, cohesive, little sand and trace gravel, massive.	CL			0.0						13	
2/SS	SS	18/24	10	21	(8') Hard.				0.4						37	
3/SS	SS	10/24	14	14	(10') Hard, brown CLAY (CL); moist, medium plasticity, cohesive, trace gravel and sand, massive.	CL			0.8						31	
4/SS	SS	18/24	7	11	(12') Very stiff, grayish brown CLAY (CL); moist, medium plasticity, cohesive, trace gravel and sand, massive.	CL			0.5						25	
5/SS	SS	5/24	11	17	(13') Very stiff, gray CLAY (CL); moist, medium plasticity, cohesive, trace gravel and sand, massive.	ML			0.0						36	
6/SS	SS	20/24	13	18	(14') Hard, gray, SANDY SILT (ML); moist, some sand and few gravel, massive.										>50	
7/SS	SS	20/24	14	17	(16') As above from 14-16 feet.				0.0						50	
			33	35	(18') As above from 14-18 feet.				0.0							
(20') Boring terminated.																

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Geosyntec Consultants, Inc.
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site			License/Permit/Monitoring No. BRRTS# 02-41-000023		Boring Number MW-5
Boring Drilled By (First and Last Name, Firm) Steve Gonyer, GESTRA Engineering, Inc.			Drilling Start Date 08/24/2020	Drilling End Date 08/26/2020	Drilling Method Hollow Stem Auger
WI Unique Well No.	DNR Well ID No.	Well Name MW-5	Final Static WL Feet MSL	Surface Elevation 638.52 Feet MSL	Borehole Diameter 8.25 inches
Local Grid Origin <input checked="" type="checkbox"/> State Plane 15654451.67 N, 1399236.93 E SW 1/4 of SW 1/4 of Section 04, T 07 N, R 22 E			Boring Location <input type="checkbox"/> Lat -- Long --	Local Grid Location ____ Feet <input type="checkbox"/> N <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID 241228240		County Milwaukee	County Code 41	Civil Town/City/Village Milwaukee	

SAMPLE					Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES					Comments
Sample ID	Sample Type	Length Attempt	Recovery (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
					0	(0') No samples collected from 0-6 feet.										Hydrovac 0-5 ft bgs
1/SS	SS	14/24	9	9	9	(6') Very stiff, brown CLAY with SAND (CL); moist, cohesive, few gravel.	CL									20
2/SS	SS	24/24	4	9	18	(8') As above from 6-8 feet.				0.4						27
3/SS	SS	24/24	4	12	23	(10') Very stiff, brown, SANDY SILT (ML); moist, fine sand and few gravel, massive.	ML			0.2						29
4/SS	SS	22/24	3	7	22	(12.5') Very stiff, gray CLAY (CL); moist, few gravel, sand and silt.	CL			0.0						16
						(14') As above from 12.5-14. feet.				0.0						
5/SS	SS	24/24	5	7	9	(15') Very stiff, gray CLAY (CL); moist, medium plasticity, cohesive, without gravel.	CL									16
6/SS	SS	24/24	16	28	30	(17') Hard, gray, SANDY SILT (ML); moist, fine sand and trace gravel, massive.	ML									>50
7/SS	SS	20/24	26	39	30	(19') As above from 17-19 feet.										>50
					20	(21') Boring terminated.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm Geosyntec Consultants, Inc.
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site			License/Permit/Monitoring No. BRRTS# 02-41-000023		Boring Number MW-6	
Boring Drilled By (First and Last Name, Firm) Steve Gonyer, GESTRA Engineering, Inc.			Drilling Start Date 08/26/2020		Drilling End Date 08/26/2020	
WI Unique Well No.			DNR Well ID No.		Well Name MW-6	
Final Static WL Feet MSL			Surface Elevation 639.26 Feet MSL		Borehole Diameter 8.25 inches	
Local Grid Origin <input checked="" type="checkbox"/> State Plane 15654296.49 N, 1399233.58 E SW 1/4 of SW 1/4 of Section 04, T 07 N, R 22 E			Boring Location <input type="checkbox"/> Lat -- Long --		Local Grid Location ____ Feet <input type="checkbox"/> N ____ Feet <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W	
Facility ID 241228240			County Milwaukee		County Code 41	
					Civil Town/City/Village Milwaukee	

SAMPLE				Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type	Sample Length Attempt	Recovery (in)							Blow Counts	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
					0	(0') No samples collected from 0-6 feet.										Hydrovac 0-6 ft bgs
1/SS	SS	21/24	4	8	(6') Very stiff, brown, SANDY SILT (ML); moist, fine sand and few gravel.	ML										23
2/SS	SS	24/24	5	12	(8') As above from 6-8 feet.				3.6							30
3/SS	SS	22/24	5	10					5.2							22
4/SS	SS	18/24	6	12	(11') Very stiff, brown CLAY (CL); moist, medium plasticity, trace gravel.	CL										26
			6	14	(11.8') Very stiff, light brownish gray.	CL-ML			5.0							
5/SS	SS	20/24	5	11	(12') Gray, SILTY CLAY to CLAYEY SILT (CL-ML); moist, cohesive, trace gravel.	CL										20
			9	9	(13.8') Very stiff, gray CLAY (CL); moist, medium plasticity, cohesive, few fine sand and trace gravel.											
6/SS	SS	20/24	8	11	(15') Very stiff, fine sand seam (<1 inch).	ML			0.3							24
			13	17	(15.8') Very stiff, gray, SANDY SILT (ML); moist, fine sand and few gravel.				0.0							
					(18') Boring terminated.											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>Codyann Kolz</i>	Firm Geosyntec Consultants, Inc.
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site			License/Permit/Monitoring No. BRRTS# 02-41-000023		Boring Number MW-7	
Boring Drilled By (First and Last Name, Firm) Steve Gonyer, GESTRA Engineering, Inc.			Drilling Start Date 08/19/2020		Drilling End Date 08/19/2020	
WI Unique Well No.			DNR Well ID No.		Well Name MW-7	
Final Static WL Feet MSL			Surface Elevation 641.78 Feet MSL		Borehole Diameter 8.25 inches	
Local Grid Origin <input checked="" type="checkbox"/> State Plane 15654217.24 N, 1399138.46 E SW 1/4 of SW 1/4 of Section 04, T 07 N, R 22 E			Boring Location <input type="checkbox"/> Lat -- Long --		Local Grid Location ____ Feet <input type="checkbox"/> N ____ Feet <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W	
Facility ID 241228240			County Milwaukee		County Code 41	
					Civil Town/City/Village Milwaukee	

SAMPLE				Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type	Sample Length Attempt	Recovery (in)							Blow Counts	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1/SS	SS	14/24	3	0	(0') Stiff, brown CLAY (CL); moist (FILL).	FILL									11	
2/SS	SS	3/24	4	0-2	(2') As above from 0-2 feet.				0.3						14	
3/SS	SS	18/24	7	5	(4') Stiff, brown CLAY (CL); moist, few medium to coarse sand, massive.	CL			2.8						9	
4/SS	SS	18/24	3	10	(6.5') Very stiff, brown to grayish brown CLAY (CL); moist, medium plasticity, few gravel, massive.	CL			3.3						25	
5/SS	SS	18/24	8	15	(9') Very stiff, gray CLAY (CL); moist, medium plasticity, little silt and trace gravel, massive.	CL			3.5						21	
6/SS	SS	18/24	7	10	(10') Medium dense, gray, SILTY SAND (SM); moist, to sandy silt (ML) with fine to medium sand and few gravel and clay, massive.	SM			0.1						23	
7/SS	SS	20/24	15	10	(12') As above from 10-12 feet.				0.0							
8/SS	SS	20/24	3	15	(14.5') Hard, gray SILT (ML); moist, trace to few gravel, massive.	ML			0.0						>50	

(16') Boring terminated.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Geosyntec Consultants, Inc.
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site			License/Permit/Monitoring No. BRRTS# 02-41-000023		Boring Number MW-8	
Boring Drilled By (First and Last Name, Firm) Steve Gonyer, GESTRA Engineering, Inc.			Drilling Start Date 08/20/2020		Drilling End Date 08/20/2020	
Drilling Method Hollow Stem Auger			Final Static WL Feet MSL		Surface Elevation 638.03 Feet MSL	
WI Unique Well No.		DNR Well ID No.		Well Name MW-8		Borehole Diameter 8.25 inches
Local Grid Origin <input checked="" type="checkbox"/> State Plane 15654248.01 N, 1399280.22 E SW 1/4 of SW 1/4 of Section 04, T 07 N, R 22 E			Boring Location <input type="checkbox"/> Lat -- <input type="checkbox"/> N <input type="checkbox"/> E Long -- <input type="checkbox"/> S <input type="checkbox"/> W		Local Grid Location ____ Feet <input type="checkbox"/> N ____ Feet <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W	
Facility ID 241228240		County Milwaukee		County Code 41		Civil Town/City/Village Milwaukee

SAMPLE				Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value	
	HA			0	(2') Brown CLAY (CL); moist, medium plasticity, trace roots (FILL).	FILL									Hand auger 0-5 ft bgs	
				5	(4.5') Brown, SILTY CLAY (CL-ML); moist, few sand and trace gravel, possible (FILL). (6') Very stiff.	FILL									20	
1/SS	SS	20/24	3	8												
2/SS	SS	18/24	3	10	(8') Very stiff, brown CLAY (CL); moist, few sand and trace gravel, massive.	CL									27	
3/SS	SS	6/24	3	14	(10') Hard.										39	
4/SS	SS	24/24	4	17	(12') Very stiff, gray CLAY (CL); moist, medium plasticity, cohesive, trace gravel, massive with thin (<1 inch) sand seam at ~15 feet.	CL									16	
5/SS	SS	14/24	6	20	(15') Very stiff, gray, SILTY CLAY (CL-ML); moist, few sand and trace gravel.	CL-ML									26	
6/SS	SS	24/24	6	24	(16') As above from 15-16 feet.										20	
				13	(18') Boring terminated.											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Geosyntec Consultants, Inc.
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site			License/Permit/Monitoring No. BRRTS# 02-41-000023		Boring Number MW-9
Boring Drilled By (First and Last Name, Firm) Steve Gonyer, GESTRA Engineering, Inc.			Drilling Start Date 08/26/2020	Drilling End Date 08/26/2020	Drilling Method Hollow Stem Auger
WI Unique Well No.	DNR Well ID No.	Well Name MW-9	Final Static WL Feet MSL	Surface Elevation 635.74 Feet MSL	Borehole Diameter 8.25 inches
Local Grid Origin <input checked="" type="checkbox"/> State Plane 15654362.46 N, 1399358.93 E SW 1/4 of SW 1/4 of Section 04, T 07 N, R 22 E			Boring Location <input type="checkbox"/> Lat -- Long --	Local Grid Location ____ Feet <input type="checkbox"/> N ____ Feet <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W	
Facility ID 241228240		County Milwaukee	County Code 41	Civil Town/City/Village Milwaukee	

SAMPLE					Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES					Comments
Sample ID	Sample Type	Sample Length Attempt	Recovery (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
	HA				0	(0') Dark brown to black SAND and GRAVEL (SP); some slag (FILL).	FILL									Hand auger 0-5 ft bgs
					4	(4') Loose.										
1/SS	SS	18/24	2	2						0.2					3	
2/SS	SS	20/24	2	2		(7') Very loose, brown, CLAYEY SAND (SC); wet, with sandy clay (FILL).	FILL			0.1					6	
3/SS	SS	20/24	4	5		(8.5') Medium soft, brown CLAY (CL); moist, medium plasticity, with gray sand seams between 8 and 9 feet (FILL).	FILL			0.2					11	
			3	3		(9.5') Stiff, brown CLAY (CL); moist, medium plasticity, cohesive, massive (FILL).	FILL			0.1						
4/SS	SS	20/24	6	10		(11.8') Very stiff, brown CLAY (CL); moist, some silt with little fine sand and trace gravel, massive.	CL								24	
5/SS	SS	0/24	12	17		(13') Brown CLAY (CL); moist, trace gravel, massive.	CL									
					15	(14') No recovery.										
					16	(16') Boring terminated.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Geosyntec Consultants, Inc.
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site			License/Permit/Monitoring No. BRRTS# 02-41-000023		Boring Number MW-10
Boring Drilled By (First and Last Name, Firm) Steve Gonyer, GESTRA Engineering, Inc.			Drilling Start Date 08/27/2020	Drilling End Date 08/27/2020	Drilling Method Hollow Stem Auger
WI Unique Well No.	DNR Well ID No.	Well Name MW-10	Final Static WL Feet MSL	Surface Elevation 637.28 Feet MSL	Borehole Diameter 8.25 inches
Local Grid Origin <input checked="" type="checkbox"/> State Plane 15654456.17 N, 1399315.75 E SW 1/4 of SW 1/4 of Section 04, T 07 N, R 22 E			Boring Location <input type="checkbox"/> Lat -- Long --	Local Grid Location ____ Feet <input type="checkbox"/> N ____ Feet <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W	
Facility ID 241228240		County Milwaukee	County Code 41	Civil Town/City/Village Milwaukee	

SAMPLE					Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type	Length Attempt	Recovery (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value	
					0	(0') No samples collected.										Hydrovac 0-6 ft bgs	
1/SS	SS	24/24	3	6	6	(6') Stiff, brown CLAY (CL); moist, little silt and trace gravel, massive with few orange mottles.	CL			0.0						15	
2/SS	SS	14/24	4	9	14	(8') Very stiff.										23	
3/SS	SS	14/24	8	18	21					0.1						50	
4/SS	SS	0/24	15	32	34	(11') Hard, brown to grayish brown CLAY TO SILTY CLAY (CL); moist, little to some silt and few gravel, massive.	CL			0.0						>50	
			50/5"			(13') No recovery - end of spoon was wet.											
5/SS	SS	24/24	7	15	15	(14') Gray, SILTY CLAY TO CLAY (CL-ML); moist, little to some silt and few gravel and sand, massive.	CL-ML			5.0							
6/SS	SS	24/24	8	8	9	(16') Very stiff, gray CLAY (CL); moist, medium plasticity, lacustrine.	CL									17	
						(18.3') Boring terminated.											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Geosyntec Consultants, Inc.
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site			License/Permit/Monitoring No. BRRTS# 02-41-000023		Boring Number PZ-10	
Boring Drilled By (First and Last Name, Firm) Steve Gonyer, GESTRA Engineering, Inc.			Drilling Start Date 08/24/2020		Drilling End Date 08/24/2020	
WI Unique Well No.			DNR Well ID No.		Well Name PZ-10	
Final Static WL Feet MSL			Surface Elevation 648.21 Feet MSL		Borehole Diameter 8.25 inches	
Local Grid Origin <input checked="" type="checkbox"/> State Plane 15654450.65 N, 1399271.03 E SW 1/4 of SW 1/4 of Section 04, T 07 N, R 22 E			Boring Location <input type="checkbox"/> Lat -- Long --		Local Grid Location Feet <input type="checkbox"/> S <input type="checkbox"/> E <input checked="" type="checkbox"/> Feet <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID 241228240			County Milwaukee		County Code 41	
			Civil Town/City/Village Milwaukee			

SAMPLE					SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type	Length Attempt	Recovery (in)	Blow Counts						Depth (ft)	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
					0	(0') No samples collected.									Hydrovac 0-6 ft bgs	
1/SS	SS	24/24	4	8	6	(6') Very stiff, brown CLAY with SAND (CL); moist, medium plasticity, cohesive, few gravel, massive.	CL								21	
2/SS	SS	24/24	4	10	8	(8') With less sand becoming clay with few sand.			0.1						30	
3/SS	SS	24/24	8	18	10	(10') Hard, with fine sand.			0.0						36	
4/SS	SS	12/24	7	16	11	(11') Medium to fine sand seam (<1 inch thick).	CL		0.0						22	
5/SS	SS	1/24	10	14	12	(12') Very stiff, grayish brown CLAY (CL); moist, cohesive, little fine to medium sand and few gravel and silt, massive.			0.9						28	
6/SS	SS	24/24	4	6	14	(14') Coarse gravel (>2 inch) in shoe, little to no recovery.									15	
7/SS	SS	24/24	3	7	15	(15') Stiff, gray, medium plasticity, without sand and silt.										
8/SS	SS	22/22	4	14	17.8	(17.8') Very stiff, gray, SANDY SILT (ML); moist, some fine to medium sand and trace gravel, massive.	ML		0.0						21	
9/SS	SS	22/22	3	14	20	(20') Hard.			0.1						>50	
10/SS	SS	24/24	18	23	23	(23') Hard, gray, SANDY SILT (ML); moist, fine sand with silty sand (SM) and trace gravel.	ML		0.1						>50	
			23	25					0.4						49	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>Codyann Kolz</i>	Firm Geosyntec Consultants, Inc.
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This form is authorized by Chapters 281, 283, 289, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site			License/Permit/Monitoring No. BRRTS# 02-41-000023		Boring Number PZ-10	
Boring Drilled By (First and Last Name, Firm) Steve Gonyer, GESTRA Engineering, Inc.			Drilling Start Date 08/24/2020		Drilling End Date 08/24/2020	
WI Unique Well No.			DNR Well ID No.		Well Name PZ-10	
Final Static WL Feet MSL			Surface Elevation 648.21 Feet MSL		Borehole Diameter 8.25 inches	
Local Grid Origin <input checked="" type="checkbox"/> State Plane 15634450.65 N, 1399271.03 E SW 1/4 of SW 1/4 of Section 04, T 07 N, R 22 E			Boring Location <input type="checkbox"/> Lat -- Long --		Local Grid Location ____ Feet <input type="checkbox"/> N ____ Feet <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W	
Facility ID 241228240			County Milwaukee		County Code 41	
					Civil Town/City/Village Milwaukee	

SAMPLE					Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type	Length Attempt	Recovery (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value	
11/SS	SS	10/10	32	50/4"	25	(24') As above from 23-24 feet.											
			44			(26') Gray SILT (ML); moist, cohesive, trace clay, massive.	ML			0.1							
12/SS	SS	10/10	35	50/4"		(27.6') Very moist.											
			49			(28.2') Gray, SILTY SAND (SM); moist, fine sand with trace gravel.	SM			0.0							
13/SS	SS	9/9	49	50/3"	30	(30') As above from 28.2-30 feet.											

(32.7') Boring terminated.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>Codyann Kolz</i>	Firm Geosyntec Consultants, Inc.
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site			License/Permit/Monitoring No. BRRTS# 02-41-000023		Boring Number MW-11
Boring Drilled By (First and Last Name, Firm) Steve Gonyer, GESTRA Engineering, Inc.			Drilling Start Date 08/27/2020	Drilling End Date 08/27/2020	Drilling Method Hollow Stem Auger
WI Unique Well No.	DNR Well ID No.	Well Name MW-11	Final Static WL Feet MSL	Surface Elevation 637.66 Feet MSL	Borehole Diameter 8.25 inches
Local Grid Origin <input checked="" type="checkbox"/> State Plane 15654566.50 N, 1399255.91 E SW 1/4 of SW 1/4 of Section 04, T 07 N, R 22 E			Boring Location <input type="checkbox"/> Lat -- Long --	Local Grid Location ____ Feet <input type="checkbox"/> N ____ Feet <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W	
Facility ID 241228240		County Milwaukee	County Code 41	Civil Town/City/Village Milwaukee	

SAMPLE					Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES					Comments
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts	Compressive Strength							Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value	
	HA	96/96			0	(0') FILL.	FILL									Hand auger 0-8 ft bgs
					5	(4') Brown, SILTY CLAY (CL-ML); moist, medium plasticity, possible (FILL).	FILL									
1/SS	SS	0.1/24	3 9 26		9	(8') Hard. (8.3') Water in open hand auger hole.				0.0					35	
2/SS	SS	24/24	16 19 23 34		10	(10') Hard, brown, CLAYEY SILT (CL-ML); moist, little clay with few to little gravel and sand.	CL-ML			0.1					42	
3/SS	SS	20/24	9 19 14 17		14	(12') Dense, gray, SILTY SAND (SM); moist, to sandy silt (ML) with fine sand with few gravel, massive.	SM			0.1					33	
4/SS	SS	22/24	5 6 9 10		15	(14.2') Stiff, gray CLAY (CL); moist, medium plasticity, trace gravel, massive.	CL								15	
(16') Boring terminated.																

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Geosyntec Consultants, Inc.
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This form is authorized by Chapters 281, 283, 289, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site			License/Permit/Monitoring No. BRRTS# 02-41-000023		Boring Number MW-12
Boring Drilled By (First and Last Name, Firm) Steve Gonyer, GESTRA Engineering, Inc.			Drilling Start Date 08/19/2020	Drilling End Date 08/19/2020	Drilling Method Hollow Stem Auger
WI Unique Well No.	DNR Well ID No.	Well Name MW-12	Final Static WL Feet MSL	Surface Elevation 651.07 Feet MSL	Borehole Diameter 8.25 inches
Local Grid Origin <input checked="" type="checkbox"/> State Plane 15654436.89 N, 1398876.32 E SW 1/4 of SW 1/4 of Section 04, T 07 N, R 22 E			Boring Location <input type="checkbox"/> Lat -- <input type="checkbox"/> N <input type="checkbox"/> E Long -- <input type="checkbox"/> S <input type="checkbox"/> W		Local Grid Location ____ Feet <input type="checkbox"/> N ____ Feet <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W
Facility ID 241228240		County Milwaukee	County Code 41	Civil Town/City/Village Milwaukee	

SAMPLE					Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES					Comments
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts	Compressive Strength							Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value	
	HA				0	(0') Brown CLAY (CL); topsoil (FILL). (0.6') Brown CLAY (CL); few coarse gravel and trace cobble (FILL).	FILL									Hand auger 0-5 ft bgs
					2.5	(2.5') Light brown, SILTY SAND (SM); moist, fine sand with few gravel (FILL). (4') Coarse gravel (>2 inch).	FILL			0.0						
1/SS	SS	21/24	5		4	(5.9') Medium soft, brown, SANDY CLAY (CL); moist to very moist, low plasticity, fine sand with few gravel.	CL			0.0					8	
2/SS	SS	2/24	7		9	(8') Coarse gravel (>2 inch) at 8 and 10 feet, little to no recovery.				0.1					30	
3/SS	SS	16/24	10		17	(10') Dense, gray and brown, SILTY SAND (SM); moist, fine sand with trace gravel, massive.	SM								48	
4/SS	SS	3/9	23		23	(11') Gray. (12') Coarse gravel (>2 inch), little recovery.				0.0					>50	
5/SS	SS	18/24	7		26	(14') Very dense, gray, SILTY SAND (SM); moist, fine to medium sand with few gravel, massive.	SM			0.0					>50	
			45		47	(16') Boring terminated.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm Geosyntec Consultants, Inc.
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site			License/Permit/Monitoring No. BRRTS# 02-41-000023		Boring Number MW-13
Boring Drilled By (First and Last Name, Firm) Steve Gonyer, GESTRA Engineering, Inc.			Drilling Start Date 08/19/2020	Drilling End Date 08/19/2020	Drilling Method Hollow Stem Auger
WI Unique Well No.	DNR Well ID No.	Well Name MW-13	Final Static WL Feet MSL	Surface Elevation 650.91 Feet MSL	Borehole Diameter 8.25 inches
Local Grid Origin <input checked="" type="checkbox"/> State Plane 15654235.53 N, 1398874.03 E SW 1/4 of SW 1/4 of Section 04, T 07 N, R 22 E			Boring Location <input type="checkbox"/> Lat -- Long --	Local Grid Location ____ Feet <input type="checkbox"/> N ____ Feet <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W	
Facility ID 241228240		County Milwaukee	County Code 41	Civil Town/City/Village Milwaukee	

SAMPLE					Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES					Comments		
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts	Compressive Strength							Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value		RQD	
	HA				0	(0') Brown CLAY (CL); topsoil (FILL). (0.6') Brown CLAY (CL); trace coarse gravel and cobble (FILL).	FILL									Hand auger 0-5 ft bgs		
						(2.5') Light brown, SILTY SAND (SM); moist, few gravel (FILL).	FILL											
1/SS	SS	18/24	5		5	(5.8') Very stiff, brown, SANDY CLAY (CL); moist, low to medium plasticity, medium sand with clayey sand (SC) and few gravel, possible (FILL).	FILL			0.0							18	
2/SS	SS	20/21	11		8	(8') As above from 5.8-8 feet.				0.0							>50	
3/SS	SS	18/24	18		10	(9') Very dense, gray and brown, SILTY SAND (SM); moist, to sandy silt (ML) with trace few gravel, massive.	SM			0.0							>50	
4/SS	SS	17/17	36		10	(10') As above from 9-10 feet.			0.0						>50			
5/SS	SS	14/14	41		15	(12') Very dense, gray, SILTY SAND (SM); moist, fine to coarse sand with few gravel, massive.	SM		0.0						>50			
(16') Boring terminated.																		

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Geosyntec Consultants, Inc.
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site			License/Permit/Monitoring No. BRRTS# 02-41-000023		Boring Number MW-14
Boring Drilled By (First and Last Name, Firm) Steve Gonyer, GESTRA Engineering, Inc.			Drilling Start Date 08/26/2020	Drilling End Date 08/26/2020	Drilling Method Hollow Stem Auger
WI Unique Well No.	DNR Well ID No.	Well Name MW-14	Final Static WL Feet MSL	Surface Elevation 640.35 Feet MSL	Borehole Diameter 8.25 inches
Local Grid Origin <input checked="" type="checkbox"/> State Plane 15654179.40 N, 1399229.86 E SW 1/4 of SW 1/4 of Section 04, T 07 N, R 22 E			Boring Location <input type="checkbox"/> Lat -- Long --	Local Grid Location ____ Feet <input type="checkbox"/> N ____ Feet <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W	
Facility ID 241228240		County Milwaukee	County Code 41	Civil Town/City/Village Milwaukee	

SAMPLE				Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value	
	HA			0	(0') Soft, brown CLAY (CL); moist, medium plasticity, trace gravel, massive (FILL).	FILL									Hand auger 0-5 ft bgs	
				5	(4') Light brown CLAY (CL); moist, medium plasticity, cohesive, trace gravel (FILL).	FILL			0.2							
1/SS	SS	22/24	2	4					1.1					10		
2/SS	SS	20/24	3	6	(7') Stiff, brown CLAY (CL); moist, medium plasticity, cohesive, few fine to medium sand and trace gravel, with thin (<1 inch) medium grained sand seam at 12 feet.	CL			0.7					20		
3/SS	SS	24/24	4	8	(8') Very stiff.				0.3					20		
			8	12	(10') As above from 7-10 feet.											
4/SS	SS	22/24	3	5	(12') Stiff, gray CLAY (CL); moist, medium plasticity, cohesive, without gravel, massive.	CL			0.5					14		
5/SS	SS	23/24	2	6	(14') Very stiff, gray, SILTY CLAY (CL-ML); moist, cohesive, few gravel and sand.	CL-ML			0.2					16		
6/SS	SS	24/24	14	10	(15.5') Hard, gray, SANDY SILT (ML); moist, few gravel, massive.	ML			0.0					35		
			12	17	(18') Boring terminated.											


I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm Geosyntec Consultants, Inc.
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Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	Local Grid Location of Well ft. N. <input type="checkbox"/> E. <input type="checkbox"/> ft. S. <input type="checkbox"/> W. <input type="checkbox"/>	Well Name MW-1
Facility License, Permit or Monitoring No. BRRTS# 02-41-000023	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>
Facility ID 241228240	St. Plane 15654239.31 ft. N, 1398986.49 ft. E. <input checked="" type="checkbox"/> / C / N	Date Well Installed 08/20/2020
Type of Well Well Code 11 / mw	Section Location of Waste/Source SW 1/4 of SW 1/4 of Sec. 04 T. 07 N, R. 22	Well Installed By: Name (first, last) and Firm Steve Gonyer GESTRA Engineering, Inc.
Distance from Waste/Source <input type="checkbox"/> ft	Enf. Stds. <input type="checkbox"/> Apply <input type="checkbox"/>	Gov. Lot Number <input type="checkbox"/>
	Location of Well Relative to Well/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation	649.22 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	648.74 ft. MSL	2. Protective cover pipe: a. Inside diameter: 4 in. b. Length: 5 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
C. Land surface elevation	646.55 ft. MSL	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
D. Surface seal, bottom	645.55 ft. MSL or 1.0 ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Filter sand Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite sand-slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 1 FT ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow stem auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		7. Fine sand material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #15 Other <input type="checkbox"/> b. Volume added 0.15 ft ³
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		8. Filter pack material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #40 Other <input type="checkbox"/> b. Volume added 3 ft ³
16. Drilling additives used: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
17. Source of water (attach analysis, if required): _____		10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> b. Manufacturer: Johnson Screens c. Slot size: 0.010 in. d. Slotted length: 10.0 ft.
E. Bentonite seal, top	645.55 ft. MSL or 1 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top	643.05 ft. MSL or 3.5 ft.	
G. Filter pack, top	642.55 ft. MSL or 4 ft.	
H. Screen joint, top	641.15 ft. MSL or 5.4 ft.	
I. Well bottom	631.15 ft. MSL or 15.4 ft.	
J. Filter pack, bottom	631.15 ft. MSL or 15.4 ft.	
K. Borehole, bottom	631.15 ft. MSL or 15.4 ft.	
L. Borehole diameter	8.25 in.	
M. O.D. well casing	2.36 in.	
N. I.D. well casing	2.06 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature  Firm **Geosyntec Consultants**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	Local Grid Location of Well ft. N. <input type="checkbox"/> E. <input type="checkbox"/> ft. S. <input type="checkbox"/> W. <input type="checkbox"/>	Well Name PZ-1
Facility License, Permit or Monitoring No. BRRTS# 02-41-000023	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>
Facility ID 241228240	St. Plane 15654238.49 ft. N., 1398981.47 ft. E. (S) / C / N	Date Well Installed 08/20/2020
Type of Well Well Code 12 / pz	Section Location of Waste/Source SW 1/4 of SW 1/4 of Sec. 04 T. 07 N, R. 22	Well Installed By: Name (first, last) and Firm Steve Gonyer GESTRA Engineering, Inc.
Distance from Waste/Source <input type="checkbox"/> ft	Enf. Stds. <input type="checkbox"/> Apply <input type="checkbox"/>	Gov. Lot Number <input type="checkbox"/>
	Location of Well Relative to Well/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation	649.43 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	648.89 ft. MSL	2. Protective cover pipe: a. Inside diameter: 4 in. b. Length: 5 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
C. Land surface elevation	646.74 ft. MSL	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
D. Surface seal, bottom	645.74 ft. MSL or 1.0 ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Filter sand Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite sand-slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. 15 % Bentonite... Bentonite-cement grout <input checked="" type="checkbox"/> 50 e. 50 gal FT ³ volume added for any of the above f. How installed: Tremie <input checked="" type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input checked="" type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow stem auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		7. Fine sand material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #15 Other <input type="checkbox"/> b. Volume added 0.15 ft ³
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		8. Filter pack material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #40 Other <input type="checkbox"/> b. Volume added 1.5 ft ³
16. Drilling additives used: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
17. Source of water (attach analysis, if required): _____		10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> b. Manufacturer: Johnson Screens c. Slot size: 0.010 in. d. Slotted length: 5.0 ft.
E. Bentonite seal, top	621.74 ft. MSL or 25.0 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top	618.24 ft. MSL or 28.5 ft.	
G. Filter pack, top	617.74 ft. MSL or 29.0 ft.	
H. Screen joint, top	615.74 ft. MSL or 31.0 ft.	
I. Well bottom	610.74 ft. MSL or 36.0 ft.	
J. Filter pack, bottom	610.74 ft. MSL or 36.0 ft.	
K. Borehole, bottom	610.74 ft. MSL or 36.0 ft.	
L. Borehole diameter	8.25 in.	
M. O.D. well casing	2.36 in.	
N. I.D. well casing	2.06 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.


Signature 

Firm
Geosyntec Consultants

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	Local Grid Location of Well ft. N. <input type="checkbox"/> E. <input type="checkbox"/> ft. S. <input type="checkbox"/> W. <input type="checkbox"/>	Well Name MW-2
Facility License, Permit or Monitoring No. BRRTS# 02-41-000023	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>
Facility ID 241228240	St. Plane 15654433.13 ft. N, 1398970.23 ft. E. <input checked="" type="checkbox"/> / C / N	Date Well Installed 08/19/2020
Type of Well Well Code 11 / mw	Section Location of Waste/Source SW 1/4 of SW 1/4 of Sec. 04 T. 07 N, R. 22	Well Installed By: Name (first, last) and Firm Steve Gonyer GESTRA Engineering, Inc.
Distance from Waste/Source <input type="checkbox"/> ft	Enf. Stds. <input type="checkbox"/> Apply <input type="checkbox"/>	Gov. Lot Number <input type="checkbox"/>
	Location of Well Relative to Well/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation	650.73 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	650.20 ft. MSL	2. Protective cover pipe: a. Inside diameter: 4 in. b. Length: 5 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
C. Land surface elevation	647.67 ft. MSL	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
D. Surface seal, bottom	646.67 ft. MSL or 1.0 ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Filter sand Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow stem auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		
16. Drilling additives used: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		
17. Source of water (attach analysis, if required): _____		
E. Bentonite seal, top	646.67 ft. MSL or 1.0 ft.	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite sand-slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 1 FT ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
F. Fine sand, top	644.17 ft. MSL or 3.5 ft.	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
G. Filter pack, top	643.67 ft. MSL or 4.0 ft.	7. Fine sand material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #15 Other <input type="checkbox"/> b. Volume added 0.25 ft ³
H. Screen joint, top	642.67 ft. MSL or 5.0 ft.	8. Filter pack material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #40 Other <input type="checkbox"/> b. Volume added 3.5 ft ³
I. Well bottom	632.67 ft. MSL or 15.0 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
J. Filter pack, bottom	632.67 ft. MSL or 15.0 ft.	10. Screen material: PVC
K. Borehole, bottom	632.67 ft. MSL or 15.0 ft.	a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
L. Borehole diameter	8.25 in.	b. Manufacturer: Johnson Screens
M. O.D. well casing	2.36 in.	c. Slot size: 0.010 in.
N. I.D. well casing	2.06 in.	d. Slotted length: 10.0 ft.
		11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature  Firm **Geosyntec Consultants**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	Local Grid Location of Well ft. N. <input type="checkbox"/> E. <input type="checkbox"/> ft. S. <input type="checkbox"/> W. <input type="checkbox"/>	Well Name PZ-2
Facility License, Permit or Monitoring No. BRRTS# 02-41-000023	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>
Facility ID 241228240	St. Plane 15654431.46 ft. N, 1398960.34 ft. E. (S) / C / N	Date Well Installed 08/18/2020
Type of Well Well Code 12 / pz	Section Location of Waste/Source SW 1/4 of SW 1/4 of Sec. 04 T. 07 N, R. 22	Well Installed By: Name (first, last) and Firm Steve Gonyer GESTRA Engineering, Inc.
Distance from Waste/Source <input type="checkbox"/> ft	Enf. Stds. <input type="checkbox"/> Apply <input type="checkbox"/>	Gov. Lot Number <input type="checkbox"/>
	Location of Well Relative to Well/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation	651.38 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	650.86 ft. MSL	2. Protective cover pipe: a. Inside diameter: 4 in. b. Length: 5 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
C. Land surface elevation	648.21 ft. MSL	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
D. Surface seal, bottom	647.21 ft. MSL or 1.0 ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Filter sand Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite sand-slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 5.25 FT ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow stem auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		7. Fine sand material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #15 Other <input type="checkbox"/> b. Volume added 0.15 ft ³
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		8. Filter pack material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #40 Other <input type="checkbox"/> b. Volume added 1.25 ft ³
16. Drilling additives used: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
17. Source of water (attach analysis, if required): _____		10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> b. Manufacturer: Johnson Screens c. Slot size: 0.010 in. d. Slotted length: 5.0 ft.
E. Bentonite seal, top	621.21 ft. MSL or 27.0 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top	616.71 ft. MSL or 31.5 ft.	
G. Filter pack, top	616.21 ft. MSL or 32.0 ft.	
H. Screen joint, top	615.11 ft. MSL or 33.1 ft.	
I. Well bottom	611.11 ft. MSL or 37.1 ft.	
J. Filter pack, bottom	609.91 ft. MSL or 38.3 ft.	
K. Borehole, bottom	609.91 ft. MSL or 38.3 ft.	
L. Borehole diameter	8.25 in.	
M. O.D. well casing	2.36 in.	
N. I.D. well casing	2.06 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm
Geosyntec Consultants

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	Local Grid Location of Well ft. N. <input type="checkbox"/> E. <input type="checkbox"/> ft. S. <input type="checkbox"/> W. <input type="checkbox"/>	Well Name MW-3
Facility License, Permit or Monitoring No. BRRTS# 02-41-000023	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>
Facility ID 241228240	St. Plane 15654587.38 ft. N, 1398960.56 ft. E. (S) / C / N	Date Well Installed 08/17/2020
Type of Well Well Code 11 / mw	Section Location of Waste/Source SW 1/4 of SW 1/4 of Sec. 04 T. 07 N, R. 22	Well Installed By: Name (first, last) and Firm Steve Gonyer GESTRA Engineering, Inc.
Distance from Waste/Source <input type="checkbox"/> ft	Enf. Stds. <input type="checkbox"/> Apply <input type="checkbox"/>	Gov. Lot Number <input type="checkbox"/>
	Location of Well Relative to Well/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation	651.28 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	650.91 ft. MSL	2. Protective cover pipe: a. Inside diameter: 4 in. b. Length: 5 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
C. Land surface elevation	648.57 ft. MSL	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
D. Surface seal, bottom	647.57 ft. MSL or 1.0 ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Filter sand Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow stem auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		
16. Drilling additives used: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		
17. Source of water (attach analysis, if required): _____		
E. Bentonite seal, top	647.57 ft. MSL or 1.0 ft.	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite sand-slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 2 FT ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
F. Fine sand, top	645.07 ft. MSL or 3.5 ft.	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
G. Filter pack, top	644.57 ft. MSL or 4.0 ft.	7. Fine sand material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #15 Other <input type="checkbox"/> b. Volume added 0.25 ft ³
H. Screen joint, top	643.07 ft. MSL or 5.5 ft.	8. Filter pack material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #40 Other <input type="checkbox"/> b. Volume added 4.5 ft ³
I. Well bottom	633.07 ft. MSL or 15.5 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
J. Filter pack, bottom	631.07 ft. MSL or 17.5 ft.	10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
K. Borehole, bottom	631.07 ft. MSL or 17.5 ft.	b. Manufacturer: Johnson Screens c. Slot size: 0.010 in. d. Slotted length: 10.0 ft.
L. Borehole diameter	8.25 in.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
M. O.D. well casing	2.36 in.	
N. I.D. well casing	2.06 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm
Geosyntec Consultants

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	Local Grid Location of Well ft. N. <input type="checkbox"/> E. <input type="checkbox"/> ft. S. <input type="checkbox"/> W. <input type="checkbox"/>	Well Name MW-4
Facility License, Permit or Monitoring No. BRRTS# 02-41-000023	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>
Facility ID 241228240	St. Plane 15654535.11 ft. N, 1399168.17 ft. E. <input checked="" type="checkbox"/> / C / N	Date Well Installed 08/19/2020
Type of Well Well Code 11 / mw	Section Location of Waste/Source SW 1/4 of SW 1/4 of Sec. 04 T. 07 N, R. 22	Well Installed By: Name (first, last) and Firm Steve Gonyer GESTRA Engineering, Inc.
Distance from Waste/Source <input type="checkbox"/> ft	Enf. Stds. <input type="checkbox"/> Apply <input type="checkbox"/>	Gov. Lot Number <input type="checkbox"/>
	Location of Well Relative to Well/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation	645.05 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	644.48 ft. MSL	2. Protective cover pipe: a. Inside diameter: 4 in. b. Length: 5 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
C. Land surface elevation	641.68 ft. MSL	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
D. Surface seal, bottom	640.68 ft. MSL or 1.0 ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Filter sand Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow stem auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		
16. Drilling additives used: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		
17. Source of water (attach analysis, if required): _____		
E. Bentonite seal, top	640.68 ft. MSL or 1.0 ft.	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite sand-slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 1 FT ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
F. Fine sand, top	637.17 ft. MSL or 4.5 ft.	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
G. Filter pack, top	636.68 ft. MSL or 5.0 ft.	7. Fine sand material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #15 Other <input type="checkbox"/> b. Volume added 0.15 ft ³
H. Screen joint, top	634.18 ft. MSL or 7.5 ft.	8. Filter pack material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #40 Other <input type="checkbox"/> b. Volume added 4 ft ³
I. Well bottom	624.18 ft. MSL or 17.5 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
J. Filter pack, bottom	621.68 ft. MSL or 20.0 ft.	10. Screen material: PVC
K. Borehole, bottom	621.68 ft. MSL or 20.0 ft.	a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
L. Borehole diameter	8.25 in.	b. Manufacturer: Johnson Screens
M. O.D. well casing	2.36 in.	c. Slot size: 0.010 in.
N. I.D. well casing	2.06 in.	d. Slotted length: 10.0 ft.
		11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm
Geosyntec Consultants

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	Local Grid Location of Well ft. N. <input type="checkbox"/> E. <input type="checkbox"/> ft. S. <input type="checkbox"/> W. <input type="checkbox"/>	Well Name MW-5
Facility License, Permit or Monitoring No. BRRTS# 02-41-000023	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>
Facility ID 241228240	St. Plane 15654451.67 ft. N, 1399236.93 ft. E. <input checked="" type="checkbox"/> / C / N	Date Well Installed 08/27/2020
Type of Well Well Code 11 / mw	Section Location of Waste/Source SW 1/4 of SW 1/4 of Sec. 04 T. 07 N, R. 22	Well Installed By: Name (first, last) and Firm Steve Gonyer GESTRA Engineering, Inc.
Distance from Waste/Source <input type="checkbox"/> ft	Enf. Stds. <input type="checkbox"/> Apply <input type="checkbox"/>	Gov. Lot Number <input type="checkbox"/>
	Location of Well Relative to Well/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation	641.77 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	641.49 ft. MSL	2. Protective cover pipe: a. Inside diameter: 4 in. b. Length: 5 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
C. Land surface elevation	638.52 ft. MSL	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
D. Surface seal, bottom	637.52 ft. MSL or 1.0 ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Filter sand Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite sand-slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 2 FT ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow stem auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		7. Fine sand material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #15 Other <input type="checkbox"/> b. Volume added 0.25 ft ³
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		8. Filter pack material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #40 Other <input type="checkbox"/> b. Volume added 4 ft ³
16. Drilling additives used: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
17. Source of water (attach analysis, if required): _____		10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> b. Manufacturer: Johnson Screens c. Slot size: 0.010 in. d. Slotted length: 10.0 ft.
E. Bentonite seal, top	637.52 ft. MSL or 1.0 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top	634.02 ft. MSL or 4.5 ft.	
G. Filter pack, top	633.52 ft. MSL or 5.0 ft.	
H. Screen joint, top	631.22 ft. MSL or 7.3 ft.	
I. Well bottom	621.212 ft. MSL or 17.3 ft.	
J. Filter pack, bottom	617.52 ft. MSL or 21.0 ft.	
K. Borehole, bottom	617.52 ft. MSL or 21.0 ft.	
L. Borehole diameter	8.25 in.	
M. O.D. well casing	2.36 in.	
N. I.D. well casing	2.06 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Codyann Kolz*

Firm **Geosyntec Consultants**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	Local Grid Location of Well ft. N. <input type="checkbox"/> E. <input type="checkbox"/> ft. S. <input type="checkbox"/> W. <input type="checkbox"/>	Well Name MW-6
Facility License, Permit or Monitoring No. BRRTS# 02-41-000023	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>
Facility ID 241228240	St. Plane 15654296.49 ft. N, 1399233.58 ft. E. <input checked="" type="checkbox"/> / C / N	Date Well Installed 08/26/2020
Type of Well Well Code 11 / mw	Section Location of Waste/Source SW 1/4 of SW 1/4 of Sec. 04 T. 07 N, R. 22	Well Installed By: Name (first, last) and Firm Steve Gonyer GESTRA Engineering, Inc.
Distance from Waste/Source <input type="checkbox"/> ft	Enf. Stds. <input type="checkbox"/> Apply <input type="checkbox"/>	Gov. Lot Number <input type="checkbox"/>
	Location of Well Relative to Well/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation	641.97 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	641.59 ft. MSL	2. Protective cover pipe: a. Inside diameter: 4 in. b. Length: 5 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
C. Land surface elevation	639.26 ft. MSL	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
D. Surface seal, bottom	638.26 ft. MSL or 1.0 ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Filter sand Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow stem auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		
16. Drilling additives used: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		
17. Source of water (attach analysis, if required): _____		
E. Bentonite seal, top	638.26 ft. MSL or 1.0 ft.	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite sand-slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 1 FT ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
F. Fine sand, top	634.76 ft. MSL or 4.5 ft.	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
G. Filter pack, top	634.26 ft. MSL or 5.0 ft.	7. Fine sand material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #15 Other <input type="checkbox"/> b. Volume added 0.15 ft ³
H. Screen joint, top	631.26 ft. MSL or 8.0 ft.	8. Filter pack material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #40 Other <input type="checkbox"/> b. Volume added 2.5 ft ³
I. Well bottom	621.26 ft. MSL or 18.0 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
J. Filter pack, bottom	621.26 ft. MSL or 18.0 ft.	10. Screen material: PVC
K. Borehole, bottom	621.26 ft. MSL or 18.0 ft.	a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
L. Borehole diameter	8.25 in.	b. Manufacturer: Johnson Screens
M. O.D. well casing	2.36 in.	c. Slot size: 0.010 in.
N. I.D. well casing	2.06 in.	d. Slotted length: 10.0 ft.
		11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Codyann Kolz*

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Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	Local Grid Location of Well ft. N. <input type="checkbox"/> E. <input type="checkbox"/> ft. S. <input type="checkbox"/> W. <input type="checkbox"/>	Well Name MW-7
Facility License, Permit or Monitoring No. BRRTS# 02-41-000023	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>
Facility ID 241228240	St. Plane 15654217.24 ft. N, 1399138.46 ft. E. <input checked="" type="checkbox"/> / C / N	Date Well Installed 08/19/2020
Type of Well Well Code 11 / mw	Section Location of Waste/Source SW 1/4 of SW 1/4 of Sec. 04 T. 07 N, R. 22	Well Installed By: Name (first, last) and Firm Steve Gonyer GESTRA Engineering, Inc.
Distance from Waste/Source <input type="checkbox"/> ft	Enf. Stds. <input type="checkbox"/> Apply <input type="checkbox"/>	Gov. Lot Number <input type="checkbox"/>
	Location of Well Relative to Well/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation	<u>644.67</u> ft. MSL		1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	<u>644.17</u> ft. MSL		2. Protective cover pipe: a. Inside diameter: <u>4</u> in. b. Length: <u>5</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
C. Land surface elevation	<u>641.78</u> ft. MSL		3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
D. Surface seal, bottom	<u>640.78</u> ft. MSL or <u>1.0</u> ft.		4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Filter sand Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>			5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite sand-slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. <u>1</u> FT ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow stem auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>			7. Fine sand material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #15 Other <input type="checkbox"/> b. Volume added <u>0.15</u> ft ³
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99			8. Filter pack material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #40 Other <input type="checkbox"/> b. Volume added <u>3</u> ft ³
16. Drilling additives used: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____			9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
17. Source of water (attach analysis, if required): _____			10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> b. Manufacturer: Johnson Screens c. Slot size: 0.010 in. d. Slotted length: 10.0 ft.
E. Bentonite seal, top	<u>640.78</u> ft. MSL or <u>1.0</u> ft.		11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top	<u>637.78</u> ft. MSL or <u>4.0</u> ft.		
G. Filter pack, top	<u>637.28</u> ft. MSL or <u>4.5</u> ft.		
H. Screen joint, top	<u>636.78</u> ft. MSL or <u>5.0</u> ft.		
I. Well bottom	<u>626.78</u> ft. MSL or <u>15.0</u> ft.		
J. Filter pack, bottom	<u>625.78</u> ft. MSL or <u>16.0</u> ft.		
K. Borehole, bottom	<u>625.78</u> ft. MSL or <u>16.0</u> ft.		
L. Borehole diameter	<u>8.25</u> in.		
M. O.D. well casing	<u>2.36</u> in.		
N. I.D. well casing	<u>2.06</u> in.		

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

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Geosyntec Consultants

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	Local Grid Location of Well ft. N. <input type="checkbox"/> E. <input type="checkbox"/> ft. S. <input type="checkbox"/> W. <input type="checkbox"/>	Well Name MW-8
Facility License, Permit or Monitoring No. BRRTS# 02-41-000023	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>
Facility ID 241228240	St. Plane 15654248.01 ft. N, 1399280.22 ft. E. (S) / C / N	Date Well Installed 08/20/2020
Type of Well Well Code 11 / mw	Section Location of Waste/Source SW 1/4 of SW 1/4 of Sec. 04 T. 07 N, R. 22	Well Installed By: Name (first, last) and Firm Steve Gonyer GESTRA Engineering, Inc.
Distance from Waste/Source <input type="checkbox"/> ft	Enf. Stds. <input type="checkbox"/> Apply <input type="checkbox"/>	Gov. Lot Number <input type="checkbox"/>
	Location of Well Relative to Well/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation	640.98 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	640.47 ft. MSL	2. Protective cover pipe: a. Inside diameter: 4 in. b. Length: 5 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
C. Land surface elevation	638.03 ft. MSL	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
D. Surface seal, bottom	637.03 ft. MSL or 1.0 ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Filter sand Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow stem auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		
16. Drilling additives used: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		
17. Source of water (attach analysis, if required): _____		
E. Bentonite seal, top	637.03 ft. MSL or 1.0 ft.	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite sand-slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 1 FT ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
F. Fine sand, top	633.53 ft. MSL or 4.5 ft.	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
G. Filter pack, top	633.03 ft. MSL or 5.0 ft.	7. Fine sand material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #15 Other <input type="checkbox"/> b. Volume added 0.15 ft ³
H. Screen joint, top	631.03 ft. MSL or 7.0 ft.	8. Filter pack material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #40 Other <input type="checkbox"/> b. Volume added 3 ft ³
I. Well bottom	621.03 ft. MSL or 17.0 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
J. Filter pack, bottom	620.03 ft. MSL or 18.0 ft.	10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
K. Borehole, bottom	620.03 ft. MSL or 18.0 ft.	b. Manufacturer: Johnson Screens c. Slot size: 0.010 in. d. Slotted length: 10.0 ft.
L. Borehole diameter	8.25 in.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
M. O.D. well casing	2.36 in.	
N. I.D. well casing	2.06 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

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Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	Local Grid Location of Well ft. N. <input type="checkbox"/> E. <input type="checkbox"/> ft. S. <input type="checkbox"/> W. <input type="checkbox"/>	Well Name MW-9
Facility License, Permit or Monitoring No. BRRTS# 02-41-000023	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>
Facility ID 241228240	St. Plane 15654362.46 ft. N, 1399358.93 ft. E. <input checked="" type="checkbox"/> / C / N	Date Well Installed 08/26/2020
Type of Well Well Code 11 / mw	Section Location of Waste/Source SW 1/4 of SW 1/4 of Sec. 04 T. 07 N, R. 22	Well Installed By: Name (first, last) and Firm Steve Gonyer GESTRA Engineering, Inc.
Distance from Waste/Source <input type="checkbox"/> ft	Enf. Stds. <input type="checkbox"/> Apply <input type="checkbox"/>	Gov. Lot Number <input type="checkbox"/>
	Location of Well Relative to Well/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation	638.73 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	638.33 ft. MSL	2. Protective cover pipe: a. Inside diameter: 4 in. b. Length: 5 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
C. Land surface elevation	635.74 ft. MSL	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
D. Surface seal, bottom	634.74 ft. MSL or 1.0 ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Filter sand Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite sand-slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 1 FT ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow stem auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		7. Fine sand material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #15 Other <input type="checkbox"/> b. Volume added 0.15 ft ³
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		8. Filter pack material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #40 Other <input type="checkbox"/> b. Volume added 3.5 ft ³
16. Drilling additives used: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
17. Source of water (attach analysis, if required): _____		10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> b. Manufacturer: Johnson Screens c. Slot size: 0.010 in. d. Slotted length: 10.0 ft.
E. Bentonite seal, top	634.74 ft. MSL or 1.0 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top	632.24 ft. MSL or 3.5 ft.	
G. Filter pack, top	631.74 ft. MSL or 4.0 ft.	
H. Screen joint, top	630.74 ft. MSL or 5.0 ft.	
I. Well bottom	620.74 ft. MSL or 15.0 ft.	
J. Filter pack, bottom	619.74 ft. MSL or 16.0 ft.	
K. Borehole, bottom	619.74 ft. MSL or 16.0 ft.	
L. Borehole diameter	8.25 in.	
M. O.D. well casing	2.36 in.	
N. I.D. well casing	2.06 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

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Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	Local Grid Location of Well N. _____ ft. E. _____ ft. S. _____ ft. W. _____ ft.	Well Name MW-10
Facility License, Permit or Monitoring No. BRRTS# 02-41-000023	Local Grid Origin _____ (estimated: _____) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID 241228240	St. Plane 15654456.17 ft. N, 1399315.75 ft. E. (S) / C / N	Date Well Installed 08/27/2020
Type of Well Well Code 11 / mw	Section Location of Waste/Source SW 1/4 of SW 1/4 of Sec. 04 T. 07 N, R. 22	Well Installed By: Name (first, last) and Firm Steve Gonyer GESTRA Engineering, Inc.
Distance from Waste/Source _____ ft	Enf. Stds. Apply <input type="checkbox"/>	Gov. Lot Number _____
Location of Well Relative to Well/Source u _____ s _____ d _____ n _____	Upgradient _____ Sidegradient _____ Downgradient _____ Not Known _____	

A. Protective pipe, top elevation	639.90 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	639.42 ft. MSL	2. Protective cover pipe: a. Inside diameter: 4 in. b. Length: 5 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
C. Land surface elevation	637.28 ft. MSL	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
D. Surface seal, bottom	636.28 ft. MSL or 1.0 ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Filter sand Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite sand-slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 1 FT ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow stem auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		7. Fine sand material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #15 Other _____ b. Volume added 0.15 ft ³
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		8. Filter pack material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #40 Other _____ b. Volume added 3 ft ³
16. Drilling additives used: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
17. Source of water (attach analysis, if required): _____		10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> b. Manufacturer: Johnson Screens c. Slot size: 0.010 in. d. Slotted length: 10.0 ft.
E. Bentonite seal, top	636.28 ft. MSL or 1.0 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top	633.27 ft. MSL or 4.0 ft.	
G. Filter pack, top	632.28 ft. MSL or 5.0 ft.	
H. Screen joint, top	628.98 ft. MSL or 8.3 ft.	
I. Well bottom	618.98 ft. MSL or 18.3 ft.	
J. Filter pack, bottom	618.98 ft. MSL or 18.3 ft.	
K. Borehole, bottom	618.98 ft. MSL or 18.3 ft.	
L. Borehole diameter	8.25 in.	
M. O.D. well casing	2.36 in.	
N. I.D. well casing	2.06 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm
Geosyntec Consultants

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	Local Grid Location of Well ft. N. <input type="checkbox"/> E. <input type="checkbox"/> ft. S. <input type="checkbox"/> W. <input type="checkbox"/>	Well Name PZ-10
Facility License, Permit or Monitoring No. BRRTS# 02-41-000023	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>
Facility ID 241228240	St. Plane 15654450.65 ft. N, 1399271.03 ft. E. <input checked="" type="checkbox"/> / C / N	Date Well Installed 08/24/2020
Type of Well Well Code 12 / pz	Section Location of Waste/Source SW 1/4 of SW 1/4 of Sec. 04 T. 07 N, R. 22 <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Well Installed By: Name (first, last) and Firm Steve Gonyer GESTRA Engineering, Inc.
Distance from Waste/Source <input type="checkbox"/> ft	Enf. Stds. <input type="checkbox"/> Apply <input type="checkbox"/>	Location of Well Relative to Well/Source u <input type="checkbox"/> s <input type="checkbox"/> d <input type="checkbox"/> n <input type="checkbox"/>
	Upgradient <input type="checkbox"/> Downgradient <input type="checkbox"/> Sidegradient <input type="checkbox"/> Not Known <input type="checkbox"/>	Gov. Lot Number <input type="checkbox"/>

A. Protective pipe, top elevation **640.72** ft. MSL

B. Well casing, top elevation **640.15** ft. MSL

C. Land surface elevation **637.53** ft. MSL

D. Surface seal, bottom **636.53** ft. MSL or **1.0** ft.

12. USCS classification of soil near screen:

GP <input type="checkbox"/>	GM <input type="checkbox"/>	GC <input type="checkbox"/>	GW <input type="checkbox"/>	SW <input type="checkbox"/>	SP <input type="checkbox"/>
SM <input checked="" type="checkbox"/>	SC <input type="checkbox"/>	ML <input type="checkbox"/>	MH <input type="checkbox"/>	CL <input type="checkbox"/>	CH <input type="checkbox"/>

Bedrock

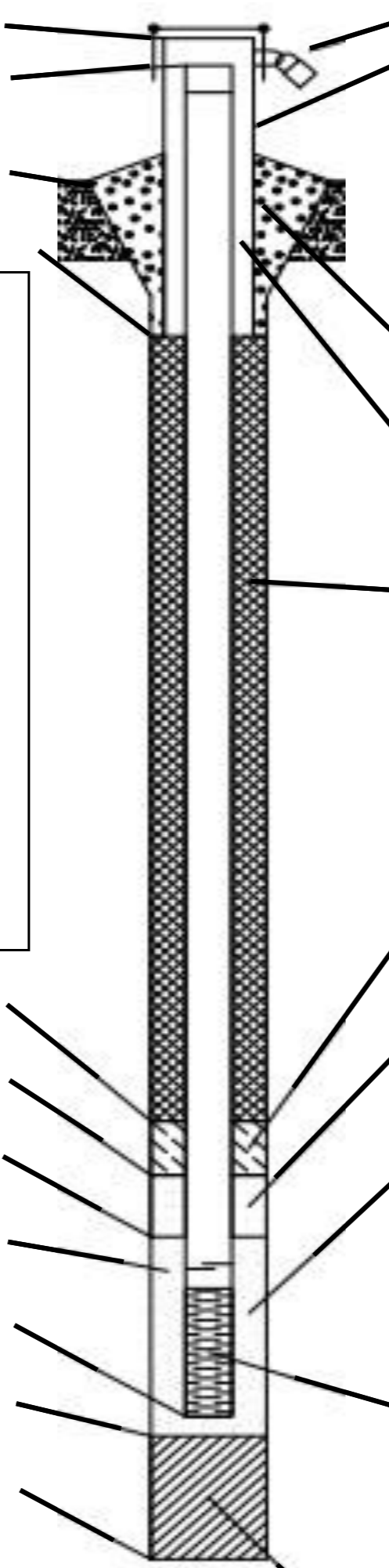
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
Hollow stem auger 41
Other

15. Drilling fluid used: Water 02 Air 01
Drilling Mud 03 None 99

16. Drilling additives used: Yes No
Describe

17. Source of water (attach analysis, if required):



1. Cap and lock? Yes No

2. Protective cover pipe:
a. Inside diameter: **4** in.
b. Length: **5** ft.
c. Material: Steel 04
Other
d. Additional protection? Yes No
If yes, describe:

3. Surface seal: Bentonite 30
Concrete 01
Other

4. Material between well casing and protective pipe: Bentonite 30
Filter sand Other

5. Annular space seal: a. Granular/Chipped Bentonite 33
b. Lbs/gal mud weight... Bentonite sand-slurry 35
c. Lbs/gal mud weight... Bentonite slurry 31
d. % Bentonite... Bentonite-cement grout 50
e. **6** FT³ volume added for any of the above
f. How installed: Tremie 01
Tremie pumped 02
Gravity 08

6. Bentonite seal: a. Bentonite granules 33
b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
c. Other

7. Fine sand material: Manufacturer, product name & mesh size
a. **Red Flint Filter Sand and Gravel #15** Other
b. Volume added **0.15** ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. **Red Flint Filter Sand and Gravel #40** Other
b. Volume added **2** ft³

9. Well casing: Flush threaded PVC schedule 40 23
Flush threaded PVC schedule 80 24
Other

10. Screen material: **PVC**
a. Screen type: Factory cut 11
Continuous slot 01
Other
b. Manufacturer: **Johnson Screens**
c. Slot size: **0.010** in.
d. Slotted length: **5.0** ft.

11. Backfill material (below filter pack): None 01
Other

E. Bentonite seal, top **616.53** ft. MSL or **21.0** ft.

F. Fine sand, top **613.03** ft. MSL or **24.5** ft.

G. Filter pack, top **612.53** ft. MSL or **25.0** ft.

H. Screen joint, top **609.83** ft. MSL or **27.7** ft.

I. Well bottom **604.83** ft. MSL or **32.7** ft.

J. Filter pack, bottom **604.83** ft. MSL or **32.7** ft.

K. Borehole, bottom **604.83** ft. MSL or **32.7** ft.

L. Borehole diameter **8.25** in.

M. O.D. well casing **2.36** in.

N. I.D. well casing **2.06** in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Codyann Kolz*

Firm **Geosyntec Consultants**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	Local Grid Location of Well ft. N. <input type="checkbox"/> E. <input type="checkbox"/> ft. S. <input type="checkbox"/> W. <input type="checkbox"/>	Well Name MW-11
Facility License, Permit or Monitoring No. BRRTS# 02-41-000023	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>
Facility ID 241228240	St. Plane 15654566.50 ft. N, 1399255.91 ft. E. (S) / C / N	Date Well Installed 08/27/2020
Type of Well Well Code 11 / mw	Section Location of Waste/Source SW 1/4 of SW 1/4 of Sec. 04 T. 07 N, R. 22	Well Installed By: Name (first, last) and Firm Steve Gonyer GESTRA Engineering, Inc.
Distance from Waste/Source <input type="checkbox"/> ft	Enf. Stds. <input type="checkbox"/> Apply <input type="checkbox"/>	Gov. Lot Number <input type="checkbox"/>
	Location of Well Relative to Well/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation	640.66 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	640.29 ft. MSL	2. Protective cover pipe: a. Inside diameter: 4 in. b. Length: 5 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
C. Land surface elevation	637.66 ft. MSL	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
D. Surface seal, bottom	636.66 ft. MSL or 1.0 ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Filter sand Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow stem auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		
16. Drilling additives used: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		
17. Source of water (attach analysis, if required): _____		
E. Bentonite seal, top	636.66 ft. MSL or 1.0 ft.	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite sand-slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 1 FT ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
F. Fine sand, top	634.16 ft. MSL or 3.5 ft.	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
G. Filter pack, top	633.66 ft. MSL or 4.0 ft.	7. Fine sand material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #15 Other <input type="checkbox"/> b. Volume added 0.25 ft ³
H. Screen joint, top	632.66 ft. MSL or 5.0 ft.	8. Filter pack material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #40 Other <input type="checkbox"/> b. Volume added 3.5 ft ³
I. Well bottom	622.66 ft. MSL or 15.0 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
J. Filter pack, bottom	621.66 ft. MSL or 16.0 ft.	10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
K. Borehole, bottom	621.66 ft. MSL or 16.0 ft.	b. Manufacturer: Johnson Screens c. Slot size: 0.010 in. d. Slotted length: 10.0 ft.
L. Borehole diameter	8.25 in.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
M. O.D. well casing	2.36 in.	
N. I.D. well casing	2.06 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm
Geosyntec Consultants

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	Local Grid Location of Well ft. N. <input type="checkbox"/> E. <input type="checkbox"/> ft. S. <input type="checkbox"/> W. <input type="checkbox"/>	Well Name MW-12
Facility License, Permit or Monitoring No. BRRTS# 02-41-000023	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>
Facility ID 241228240	St. Plane 15654436.89 ft. N, 1398876.32 ft. E. (S) / C / N	Date Well Installed 08/19/2020
Type of Well Well Code 11 / mw	Section Location of Waste/Source SW 1/4 of SW 1/4 of Sec. 04 T. 07 N, R. 22	Well Installed By: Name (first, last) and Firm Steve Gonyer GESTRA Engineering, Inc.
Distance from Waste/Source <input type="checkbox"/> ft	Enf. Stds. <input type="checkbox"/> Apply <input type="checkbox"/>	Gov. Lot Number <input type="checkbox"/>
	Location of Well Relative to Well/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation	653.80 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	653.30 ft. MSL	2. Protective cover pipe: a. Inside diameter: 4 in. b. Length: 5 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
C. Land surface elevation	651.07 ft. MSL	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
D. Surface seal, bottom	650.07 ft. MSL or 1.0 ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Filter sand <input checked="" type="checkbox"/> Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow stem auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		
16. Drilling additives used: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		
17. Source of water (attach analysis, if required): _____		
E. Bentonite seal, top	650.07 ft. MSL or 1.0 ft.	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite sand-slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 1 FT ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
F. Fine sand, top	647.57 ft. MSL or 3.5 ft.	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
G. Filter pack, top	647.07 ft. MSL or 4.0 ft.	7. Fine sand material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #15 Other <input type="checkbox"/> b. Volume added 0.15 ft ³
H. Screen joint, top	645.67 ft. MSL or 5.4 ft.	8. Filter pack material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #40 Other <input type="checkbox"/> b. Volume added 3.5 ft ³
I. Well bottom	635.67 ft. MSL or 15.4 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
J. Filter pack, bottom	635.07 ft. MSL or 16.0 ft.	10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
K. Borehole, bottom	635.07 ft. MSL or 16.0 ft.	b. Manufacturer: Johnson Screens c. Slot size: 0.010 in. d. Slotted length: 10.0 ft.
L. Borehole diameter	8.25 in.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
M. O.D. well casing	2.36 in.	
N. I.D. well casing	2.06 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.


Signature *Codyann Kolz*

Firm **Geosyntec Consultants**

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	Local Grid Location of Well ft. N. <input type="checkbox"/> E. <input type="checkbox"/> ft. S. <input type="checkbox"/> W. <input type="checkbox"/>	Well Name MW-13
Facility License, Permit or Monitoring No. BRRTS# 02-41-000023	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>
Facility ID 241228240	St. Plane 15654235.53 ft. N, 1398874.03 ft. E. (S) / C / N	Date Well Installed 08/19/2020
Type of Well Well Code 11 / mw	Section Location of Waste/Source SW 1/4 of SW 1/4 of Sec. 04 T. 07 N, R. 22	Well Installed By: Name (first, last) and Firm Steve Gonyer GESTRA Engineering, Inc.
Distance from Waste/Source <input type="checkbox"/> ft	Enf. Stds. <input type="checkbox"/> Apply <input type="checkbox"/>	Gov. Lot Number <input type="checkbox"/>
	Location of Well Relative to Well/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation	653.72 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	653.17 ft. MSL	2. Protective cover pipe: a. Inside diameter: 4 in. b. Length: 5 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
C. Land surface elevation	650.91 ft. MSL	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
D. Surface seal, bottom	649.91 ft. MSL or 1.0 ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Filter sand Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite sand-slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 1 FT ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow stem auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		7. Fine sand material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #15 Other <input type="checkbox"/> b. Volume added 0.15 ft ³
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		8. Filter pack material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #40 Other <input type="checkbox"/> b. Volume added 3 ft ³
16. Drilling additives used: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
17. Source of water (attach analysis, if required): _____		10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> b. Manufacturer: Johnson Screens c. Slot size: 0.010 in. d. Slotted length: 10.0 ft.
E. Bentonite seal, top	649.91 ft. MSL or 1.0 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top	647.41 ft. MSL or 3.5 ft.	
G. Filter pack, top	646.91 ft. MSL or 4.0 ft.	
H. Screen joint, top	645.51 ft. MSL or 5.4 ft.	
I. Well bottom	635.51 ft. MSL or 15.4 ft.	
J. Filter pack, bottom	634.91 ft. MSL or 16.0 ft.	
K. Borehole, bottom	634.91 ft. MSL or 16.0 ft.	
L. Borehole diameter	8.25 in.	
M. O.D. well casing	2.36 in.	
N. I.D. well casing	2.06 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature  Firm **Geosyntec Consultants**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	Local Grid Location of Well ft. N. <input type="checkbox"/> E. <input type="checkbox"/> ft. S. <input type="checkbox"/> W. <input type="checkbox"/>	Well Name MW-14
Facility License, Permit or Monitoring No. BRRTS# 02-41-000023	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>
Facility ID 241228240	St. Plane 15654179.40 ft. N, 1399229.86 ft. E. (S) / C / N	Date Well Installed 08/26/2020
Type of Well Well Code 11 / mw	Section Location of Waste/Source SW 1/4 of SW 1/4 of Sec. 04 T. 07 N, R. 22	Well Installed By: Name (first, last) and Firm Steve Gonyer GESTRA Engineering, Inc.
Distance from Waste/Source <input type="checkbox"/> ft	Enf. Stds. <input type="checkbox"/> Apply <input type="checkbox"/>	Gov. Lot Number <input type="checkbox"/>
	Location of Well Relative to Well/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation	643.16 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	642.81 ft. MSL	2. Protective cover pipe: a. Inside diameter: 4 in. b. Length: 5 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
C. Land surface elevation	640.35 ft. MSL	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
D. Surface seal, bottom	639.35 ft. MSL or 1.0 ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Filter sand <input checked="" type="checkbox"/> Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow stem auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		
16. Drilling additives used: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		
17. Source of water (attach analysis, if required): _____		
E. Bentonite seal, top	639.35 ft. MSL or 1.0 ft.	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite sand-slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 1 FT ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
F. Fine sand, top	635.85 ft. MSL or 4.5 ft.	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
G. Filter pack, top	635.35 ft. MSL or 5.0 ft.	7. Fine sand material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #15 Other <input type="checkbox"/> b. Volume added 0.15 ft ³
H. Screen joint, top	632.55 ft. MSL or 7.8 ft.	8. Filter pack material: Manufacturer, product name & mesh size a. Red Flint Filter Sand and Gravel #40 Other <input type="checkbox"/> b. Volume added 5 ft ³
I. Well bottom	622.55 ft. MSL or 17.8 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
J. Filter pack, bottom	622.35 ft. MSL or 18.0 ft.	10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
K. Borehole, bottom	622.35 ft. MSL or 18.0 ft.	b. Manufacturer: Johnson Screens c. Slot size: 0.010 in. d. Slotted length: 10.0 ft.
L. Borehole diameter	8.25 in.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
M. O.D. well casing	2.36 in.	
N. I.D. well casing	2.06 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Codyann Kolz*

Firm **Geosyntec Consultants**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	County Name Milwaukee	Well Name MW-1	
Facility License, Permit or Monitoring Number BRRS# 02-41-000023	County Code 4 1	Wis. Unique Well Number _____	DNR Well ID Number _____

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other pumped and surged with pump

3. Time spent developing well _____ 18 _____ min.

4. Depth of well (from top of well casing) _____ 1 7 . 6 _____ ft.

5. Inside diameter of well _____ 2 . 0 6 _____ in.

6. Volume of water in filter pack and well casing _____ 9 . 1 _____ gal.

7. Volume of water removed from well _____ 1 9 . 0 _____ gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added N/A

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

14:15 - begin surge and purge
14:18 - removed 5 gallons, surged
14:34 - removed 19 gallons, water clear

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. _____ 7 . 6 7 _____ ft.	_____ 1 4 . 6 3 _____ ft.
Date	b. <u>0 9 / 1 4 / 2 0 2 0</u>	<u>0 9 / 1 4 / 2 0 2 0</u>
	m m d d y y y y	m m d d y y y y
Time	c. <u>1 4 : 1 0</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	<u>1 4 : 3 4</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>brown, turbid</u>	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) <u>clear</u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm
 First Name: Codyann Last Name: Kolp
 Firm: Geosyntec Consultants

Name and Address of Facility Contact/Owner/Responsible Party
 First Name: Christopher Last Name: Clark
 Facility/Firm: Pharmacia, LLC.
 Street: 235 East 42nd Street, 219/5/1
 City/State/Zip: New York, NY 10017

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Codyann Kolp
 Print Name: Codyann Kolp
 Firm: Geosyntec Consultants

NOTE: See instructions for more information including a list of county codes and well type codes.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	County Name Milwaukee	Well Name PZ-1	
Facility License, Permit or Monitoring Number BRRTS# 02-41-000023	County Code 41	Wis. Unique Well Number _____	DNR Well ID Number _____

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other pumped and surged with pump

3. Time spent developing well _____ 27 min.

4. Depth of well (from top of well casing) _____ 38.3 ft.

5. Inside diameter of well _____ 206 in.

6. Volume of water in filter pack and well casing _____ 88 gal.

7. Volume of water removed from well _____ 98 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added N/A

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

13:30 - surge well
13:37 - start purging, water brown, turbid
14:04 - dry after 9.8 gallons

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. _____ 6.99 ft.	_____ DRY _____ ft.
Date	b. <u>09/14/2020</u>	<u>09/14/2020</u>
Time	c. _____ a.m. _____ p.m.	_____ a.m. _____ p.m.
12. Sediment in well bottom	_____ 13.2 inches	_____ 0.0 inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>brown, turbid</u>	Clear <input type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) <u>dry</u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm
 First Name: Codyann Last Name: Kolp
 Firm: Geosyntec Consultants

Name and Address of Facility Contact/Owner/Responsible Party
 First Name: Christopher Last Name: Clark
 Facility/Firm: Pharmacia, LLC.
 Street: 235 East 42nd Street, 219/5/1
 City/State/Zip: New York, NY 10017

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Codyann Kolp
 Print Name: Codyann Kolp
 Firm: Geosyntec Consultants

NOTE: See instructions for more information including a list of county codes and well type codes.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	County Name Milwaukee	Well Name MW-2	
Facility License, Permit or Monitoring Number BRRS# 02-41-000023	County Code 41	Wis. Unique Well Number _____	DNR Well ID Number _____

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other pumped and surged with pump

3. Time spent developing well _____ 5 min.

4. Depth of well (from top of well casing) 1 7 5 ft.

5. Inside diameter of well 2 0 6 in.

6. Volume of water in filter pack and well casing _____ 2 8 gal.

7. Volume of water removed from well _____ 7 0 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added N/A

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

15:28 - surge well
15:30 - begin surge and purge
15:34 - dry after 5 gallons, allow to recover and purge again
15:38 - pump dry again; total of 7 gallons removed

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>8 3 5</u> ft.	<u>DRY</u> ft.
Date	b. <u>0 9 / 1 4 / 2 0 2 0</u> m m d d y y y y	<u>0 9 / 1 4 / 2 0 2 0</u> m m d d y y y y
Time	c. <u>1 5 : 2 5</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	<u>1 5 : 3 8</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	<u>0 0</u> inches	<u>0 0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10	Clear <input type="checkbox"/> 20
	Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>light brown</u>	Turbid <input type="checkbox"/> 25 (Describe) <u>dry</u>

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Codyann Last Name: Kolp
Firm: Geosyntec Consultants

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Christopher Last Name: Clark
Facility/Firm: Pharmacia, LLC.
Street: 235 East 42nd Street, 219/5/1
City/State/Zip: New York, NY 10017

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Codyann Kolp
Print Name: Codyann Kolp
Firm: Geosyntec Consultants

NOTE: See instructions for more information including a list of county codes and well type codes.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	County Name Milwaukee	Well Name MW-3	
Facility License, Permit or Monitoring Number BRRTS# 02-41-000023	County Code 4 1	Wis. Unique Well Number _____	DNR Well ID Number _____

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other pumped and surged with pump _____

3. Time spent developing well _____ 1 0 min.

4. Depth of well (from top of well casing) _____ 1 7 . 8 ft.

5. Inside diameter of well _____ 2 . 0 6 in.

6. Volume of water in filter pack and well casing _____ 6 . 8 gal.

7. Volume of water removed from well _____ 5 . 5 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added N/A

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

11:05 - begin surge and purge
11:08 - 2 gal. removed, surged
11:10 - 4 gal. removed, surged
11:13 - dry after 5.25 gal. removed
11:15 - pumped again, dry after additional 0.25 gal removed, total of 5.5 gal purged

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Christopher Last Name: Clark

Facility/Firm: Pharmacia, LLC.

Street: 235 East 42nd Street, 219/5/1

City/State/Zip: New York, NY 10017


	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>1 0 . 4 9</u> ft.	<u>DRY</u> ft.
Date	b. <u>0 9 / 1 1 / 2 0 2 0</u> m m d d y y y y	<u>0 9 / 1 1 / 2 0 2 0</u> m m d d y y y y
Time	c. <u>1 1 : 0 0</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>1 1 : 1 5</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>0 . 0</u> inches	<u>0 . 0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 1 0	Clear <input type="checkbox"/> 2 0
	Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>light brown, turbid</u>	Turbid <input type="checkbox"/> 2 5 (Describe) <u>dry</u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: David Last Name: Zolp

Firm: Geosyntec Consultants

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: 

Print Name: David Zolp

Firm: Geosyntec Consultants

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	County Name Milwaukee	Well Name MW-5
Facility License, Permit or Monitoring Number BRRS# 02-41-000023	County Code 4 1	Wis. Unique Well Number _____
		DNR Well ID Number _____

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other pumped and surged with pump _____

3. Time spent developing well _____ 1 8 min.

4. Depth of well (from top of well casing) _____ 2 0 . 3 ft.

5. Inside diameter of well _____ 2 0 6 in.

6. Volume of water in filter pack and well casing _____ 5 . 5 gal.

7. Volume of water removed from well _____ 5 . 5 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added N/A

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

9:55 - begin surging well
9:57 - begin pumping
10:05 - removed 4 gallons
10:13 - removed a total 5.5 gallons, dry

11. Depth to Water Before Development After Development

(from top of well casing) a. 1 3 . 8 6 ft. DRY ft.

Date b. 1 0 / 0 2 / 2 0 2 0 1 0 / 0 2 / 2 0 2 0
m m d d y y y y m m d d y y y y

Time c. 0 9 : 3 0 a.m. 1 0 : 1 3 a.m.
 p.m. p.m.

12. Sediment in well bottom 0 . 0 inches 0 . 0 inches

13. Water clarity Clear 1 0 Clear 2 0
Turbid 1 5 Turbid 2 5
(Describe) (Describe)
slightly turbid dry

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended _____ mg/l _____ mg/l
solids

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: David Last Name: Zolp

Firm: Geosyntec Consultants

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Christopher Last Name: Clark

Facility/Firm: Pharmacia, LLC.

Street: 235 East 42nd Street, 219/5/1

City/State/Zip: New York, NY 10017

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: 

Print Name: David Zolp

Firm: Geosyntec Consultants

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	County Name Milwaukee	Well Name MW-6
Facility License, Permit or Monitoring Number BRRTS# 02-41-000023	County Code 4 1	Wis. Unique Well Number _____
		DNR Well ID Number _____

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other surged and purged with pump _____

3. Time spent developing well _____ 1 1 min.

4. Depth of well (from top of well casing) _____ 2 0 . 3 ft.

5. Inside diameter of well _____ 2 0 6 in.

6. Volume of water in filter pack and well casing _____ 7 . 8 gal.

7. Volume of water removed from well _____ 6 . 0 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added N/A

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

13:05 - begin surge and purge
13:12 - well dry after 6 gallons removed

11. Depth to Water Before Development After Development

(from top of well casing) a. 1 1 . 8 0 ft. DRY ft.

Date b. 0 9 / 1 4 / 2 0 2 0 0 9 / 1 4 / 2 0 2 0
m m d d y y y y m m d d y y y y

Time c. 1 3 : 0 0 a.m. p.m. 1 3 : 1 6 p.m.

12. Sediment in well bottom _____ 0 . 0 inches _____ 0 . 0 inches

13. Water clarity Clear 1 0 Clear 2 0
Turbid 1 5 Turbid 2 5
(Describe) (Describe)
brown, turbid dry

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended _____ mg/l _____ mg/l
solids

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Codyann Last Name: Kolp

Firm: Geosyntec Consultants

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Christopher Last Name: Clark

Facility/Firm: Pharmacia, LLC.

Street: 235 East 42nd Street, 219/5/1

City/State/Zip: New York, NY 10017

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Codyann Kolp

Print Name: Codyann Kolp

Firm: Geosyntec Consultants

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	County Name Milwaukee	Well Name MW-7
Facility License, Permit or Monitoring Number BRRTS# 02-41-000023	County Code 4 1	Wis. Unique Well Number _____
		DNR Well ID Number _____

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other surged and purged with pump _____

3. Time spent developing well _____ 1 1 min.

4. Depth of well (from top of well casing) _____ 1 7 . 3 ft.

5. Inside diameter of well _____ 2 . 0 6 in.

6. Volume of water in filter pack and well casing _____ 1 0 . 5 gal.

7. Volume of water removed from well _____ 9 . 0 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added N/A

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

11:30 - begin surge and purge
11:38 - dry after 8.5 gallons, let recharge
11:45 - pump again, remove additional 0.5 gallons, dry

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. _____ 4 . 4 8 ft.	_____ DRY _____ ft.
Date	b. <u>0 9 / 1 4 / 2 0 2 0</u> m m d d y y y y	<u>0 9 / 1 4 / 2 0 2 0</u> m m d d y y y y
Time	c. <u>1 1 : 2 5</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>1 1 : 4 5</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	_____ 0 . 0 inches	_____ 0 . 0 inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>light brown, turbid</u>	Clear <input type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) <u>dry</u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Codyann Last Name: Kolp
Firm: Geosyntec Consultants

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Christopher Last Name: Clark
Facility/Firm: Pharmacia, LLC.
Street: 235 East 42nd Street, 219/5/1
City/State/Zip: New York, NY 10017

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Codyann Kolp
Print Name: Codyann Kolp
Firm: Geosyntec Consultants

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	County Name Milwaukee	Well Name MW-8	
Facility License, Permit or Monitoring Number BRRTS# 02-41-000023	County Code 4 1	Wis. Unique Well Number _____	DNR Well ID Number _____

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other surged and purged with pump _____
3. Time spent developing well _____ 1 1 min.
4. Depth of well (from top of well casing) _____ 1 9 . 3 ft.
5. Inside diameter of well _____ 2 . 0 6 in.
6. Volume of water in filter pack and well casing _____ 7 . 6 gal.
7. Volume of water removed from well _____ 6 . 0 gal.
8. Volume of water added (if any) _____ gal.
9. Source of water added N/A
-
10. Analysis performed on water added? Yes No
(If yes, attach results)

- | | Before Development | After Development |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 11. Depth to Water (from top of well casing) | a. _____ 1 1 . 1 8 ft. | _____ DRY. _____ ft. |
| Date | b. <u>0 9 / 1 1 / 2 0 2 0</u> | <u>0 9 / 1 1 / 2 0 2 0</u> |
| | m m d d y y y y | m m d d y y y y |
| Time | c. _____ <input type="checkbox"/> a.m. | _____ <input type="checkbox"/> a.m. |
| | _____ <input checked="" type="checkbox"/> p.m. | _____ <input checked="" type="checkbox"/> p.m. |
| 12. Sediment in well bottom | _____ 0 . 0 inches | _____ 0 . 0 inches |
| 13. Water clarity | Clear <input type="checkbox"/> 1 0
Turbid <input checked="" type="checkbox"/> 1 5
(Describe) <u>brown, turbid</u> | Clear <input type="checkbox"/> 2 0
Turbid <input type="checkbox"/> 2 5
(Describe) <u>dry</u> |
- Fill in if drilling fluids were used and well is at solid waste facility:
14. Total suspended solids _____ mg/l _____ mg/l
15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: David Last Name: Zolp

Firm: Geosyntec Consultants

17. Additional comments on development:

14:43 - begin surge
14:45 - begin pumping
14:49 - removed 3 gallons, surged
14:54 - removed total 6 gallons, dry

Name and Address of Facility Contact /Owner/Responsible Party


First Name: Christopher Last Name: Clark

Facility/Firm: Pharmacia, LLC.

Street: 235 East 42nd Street, 219/5/1

City/State/Zip: New York, NY 10017

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: 

Print Name: David Zolp

Firm: Geosyntec Consultants

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	County Name Milwaukee	Well Name MW-9
Facility License, Permit or Monitoring Number BRRTS# 02-41-000023	County Code 4 1	Wis. Unique Well Number _____
		DNR Well ID Number _____

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other surged and purged with pump _____

3. Time spent developing well _____ 4 2 min.

4. Depth of well (from top of well casing) _____ 1 7 . 8 ft.

5. Inside diameter of well _____ 2 . 0 6 in.

6. Volume of water in filter pack and well casing _____ 6 . 7 gal.

7. Volume of water removed from well _____ 1 2 . 0 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added N/A

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

15:25 - begin surge and purge
15:36 - dry after 7 gallons, allow to recharge
15:48 - begin pumping again
15:57 - dry after additional 4 gallons removed, total of 11 gallons, allow to recharge
16:05 - begin pumping again
16:07 - dry after additional gallon removed, total of 12 gallons removed

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Christopher Last Name: Clark

Facility/Firm: Pharmacia, LLC.

Street: 235 East 42nd Street, 219/5/1

City/State/Zip: New York, NY 10017


	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>1 0 . 3 5</u> ft.	<u>DRY</u> ft.
Date	b. <u>0 9 / 1 1 / 2 0 2 0</u> m m d d y y y y	<u>0 9 / 1 1 / 2 0 2 0</u> m m d d y y y y
Time	c. _____ <input type="checkbox"/> a.m. <u>1 5 : 2 0</u> <input checked="" type="checkbox"/> p.m.	_____ <input type="checkbox"/> a.m. <u>1 6 : 0 7</u> <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	<u>0 . 0</u> inches	<u>0 . 0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>brown, turbid</u>	Clear <input type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) <u>dry</u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: David Last Name: Zolp

Firm: Geosyntec Consultants

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: 

Print Name: David Zolp

Firm: Geosyntec Consultants

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	County Name Milwaukee	Well Name MW-10	
Facility License, Permit or Monitoring Number BRRTS# 02-41-000023	County Code 41	Wis. Unique Well Number _____	DNR Well ID Number _____

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other _____
3. Time spent developing well _____ 10 min.
4. Depth of well (from top of well casing) _____ 20.4 ft.
5. Inside diameter of well _____ 2.06 in.
6. Volume of water in filter pack and well casing _____ 3.6 gal.
7. Volume of water removed from well _____ 3.5 gal.
8. Volume of water added (if any) _____ gal.
9. Source of water added N/A
-
10. Analysis performed on water added? Yes No
(If yes, attach results)

- | | Before Development | After Development |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 11. Depth to Water (from top of well casing) | a. <u>16.11</u> ft. | <u>DRY</u> ft. |
| Date | b. <u>10/02/2010</u> | <u>10/02/2010</u> |
| Time | c. <u>9:32</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m. | <u>10:45</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m. |
| 12. Sediment in well bottom | <u>0.0</u> inches | <u>0.0</u> inches |
| 13. Water clarity | Clear <input type="checkbox"/> 10
Turbid <input checked="" type="checkbox"/> 15
(Describe) <u>brown, turbid</u> | Clear <input type="checkbox"/> 20
Turbid <input type="checkbox"/> 25
(Describe) <u>dry</u> |
- Fill in if drilling fluids were used and well is at solid waste facility:
14. Total suspended solids _____ mg/l _____ mg/l
15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: David Last Name: Zolp

Firm: Geosyntec Consultants

17. Additional comments on development:
10:35 - surged well with bailer and removed 3.5 gallons before well went dry

Name and Address of Facility Contact/Owner/Responsible Party


First Name: Christopher Last Name: Clark

Facility/Firm: Pharmacia, LLC.

Street: 235 East 42nd Street, 219/5/1

City/State/Zip: New York, NY 10017

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: 

Print Name: David Zolp

Firm: Geosyntec Consultants

NOTE: See instructions for more information including a list of county codes and well type codes.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	County Name Milwaukee	Well Name PZ-10
Facility License, Permit or Monitoring Number BRRTS# 02-41-000023	County Code 4 1	Wis. Unique Well Number _____
		DNR Well ID Number _____

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other pumped and surged with pump _____

3. Time spent developing well _____ 3 0 min.

4. Depth of well (from top of well casing) _____ 3 5 . 3 ft.

5. Inside diameter of well _____ 2 . 0 6 in.

6. Volume of water in filter pack and well casing _____ 6 . 8 gal.

7. Volume of water removed from well _____ 8 . 0 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added N/A

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

10:03 - begin surge and purge
10:10 - removed 3 gallons
10:25 - removed 7 gallons, well recharging very slowly
10:30 - removed 8 gallons
10:35 - dry

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Christopher Last Name: Clark

Facility/Firm: Pharmacia, LLC.

Street: 235 East 42nd Street, 219/5/1

City/State/Zip: New York, NY 10017

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>23.70</u> ft.	<u>DRY</u> ft.
Date	b. <u>09/14/2020</u>	<u>09/14/2020</u>
Time	c. <u>9:55</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>10:35</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>0.0</u> inches	<u>0.0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>light brown</u>	Clear <input type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) <u>dry</u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Codyann Last Name: Kolp

Firm: Geosyntec Consultants

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Codyann Kolp

Print Name: Codyann Kolp

Firm: Geosyntec Consultants

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	County Name Milwaukee	Well Name MW-11
Facility License, Permit or Monitoring Number BRRS# 02-41-000023	County Code 41	Wis. Unique Well Number _____
		DNR Well ID Number _____

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other _____

3. Time spent developing well _____ 10 min.

4. Depth of well (from top of well casing) _____ 17.9 ft.

5. Inside diameter of well _____ 2.06 in.

6. Volume of water in filter pack and well casing _____ 2.8 gal.

7. Volume of water removed from well _____ 2.0 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added N/A

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:


10:55 - start surge and purge
11:05 - removed 2 gallons, dry

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>14.52</u> ft.	<u>DRY</u> ft.
Date	b. <u>10/02/2010</u> m m d d y y y y	<u>10/02/2010</u> m m d d y y y y
Time	c. <u>09:58</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>11:10</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>0.0</u> inches	<u>0.0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>slightly turbid</u>	Clear <input type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) <u>dry</u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: David Last Name: Zolp
Firm: Geosyntec Consultants

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Christopher Last Name: Clark
Facility/Firm: Pharmacia, LLC.
Street: 235 East 42nd Street, 219/5/1
City/State/Zip: New York, NY 10017

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: 
Print Name: David Zolp
Firm: Geosyntec Consultants

NOTE: See instructions for more information including a list of county codes and well type codes.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	County Name Milwaukee	Well Name MW-12
Facility License, Permit or Monitoring Number BRRS# 02-41-000023	County Code 4 1	Wis. Unique Well Number _____
		DNR Well ID Number _____

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other pumped and surged with pump _____

3. Time spent developing well _____ 2 2 min.

4. Depth of well (from top of well casing) _____ 1 7 . 6 ft.

5. Inside diameter of well _____ 2 . 0 6 in.

6. Volume of water in filter pack and well casing _____ 5 . 5 gal.

7. Volume of water removed from well _____ 5 . 8 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added N/A

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

11:34 - begin surge and purge
11:49 - dry after 5.5 gal removed
11:56 - remove additional 0.25 gallons, total 5.75 gallons removed, dry

11. Depth to Water Before Development After Development

(from top of well casing) a. 1 1 . 5 7 ft. DRY ft.

Date b. 0 9 / 1 1 / 2 0 2 0 0 9 / 1 1 / 2 0 2 0
m m d d y y y y m m d d y y y y

Time c. 1 1 : 3 0 a.m. 1 1 : 5 6 a.m.
 p.m. p.m.

12. Sediment in well bottom _____ 0 . 0 inches _____ 0 . 0 inches

13. Water clarity Clear 1 0 Clear 2 0
Turbid 1 5 Turbid 2 5
(Describe) (Describe)
brown, turbid dry

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended _____ mg/l _____ mg/l
solids

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: David Last Name: Zolp

Firm: Geosyntec Consultants

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Christopher Last Name: Clark

Facility/Firm: Pharmacia, LLC.

Street: 235 East 42nd Street, 219/5/1

City/State/Zip: New York, NY 10017

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: 

Print Name: David Zolp

Firm: Geosyntec Consultants

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	County Name Milwaukee	Well Name MW-13	
Facility License, Permit or Monitoring Number BRRS# 02-41-000023	County Code 4 1	Wis. Unique Well Number _____	DNR Well ID Number _____

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other pumped and surged with pump _____
3. Time spent developing well _____ 5 6 min.
4. Depth of well (from top of well casing) _____ 1 0 . 6 ft.
5. Inside diameter of well _____ 2 . 0 6 in.
6. Volume of water in filter pack and well casing _____ 6 . 0 gal.
7. Volume of water removed from well _____ 8 . 5 gal.
8. Volume of water added (if any) _____ gal.
9. Source of water added N/A
-
10. Analysis performed on water added? Yes No
(If yes, attach results)

- | | Before Development | After Development |
|---------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------|
| 11. Depth to Water (from top of well casing) | a. <u>1 0 . 5 7</u> ft. | <u>DRY</u> ft. |
| Date | b. <u>0 9 / 1 1 / 2 0 2 0</u> | <u>0 9 / 1 1 / 2 0 2 0</u> |
| Time | c. <u>1 2 : 0 5</u> <input checked="" type="checkbox"/> p.m. | <u>1 3 : 0 8</u> <input checked="" type="checkbox"/> p.m. |
| 12. Sediment in well bottom | _____ 0 . 0 inches | _____ 0 . 0 inches |
| 13. Water clarity | Clear <input type="checkbox"/> 1 0 | Clear <input type="checkbox"/> 2 0 |
| | Turbid <input checked="" type="checkbox"/> 1 5 | Turbid <input type="checkbox"/> 2 5 |
| | (Describe) <u>brown, turbid</u> | (Describe) <u>dry</u> |
| Fill in if drilling fluids were used and well is at solid waste facility: | | |
| 14. Total suspended solids | _____ mg/l | _____ mg/l |
| 15. COD | _____ mg/l | _____ mg/l |

16. Well developed by: Name (first, last) and Firm

First Name: David Last Name: Zolp

Firm: Geosyntec Consultants

17. Additional comments on development:

12:12 - begin surge and purge
12:19 - removed 3.5 gallons, surge
12:22 - dry after 5 gallons removed, let recharge
12:45 - remove additional 1.5 gallons to dry
13:08 - remove additional 2 gallons to dry, total of 8.5 gallons

Name and Address of Facility Contact /Owner/Responsible Party


First Name: Christopher Last Name: Clark

Facility/Firm: Pharmacia, LLC.

Street: 235 East 42nd Street, 219/5/1

City/State/Zip: New York, NY 10017

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: 

Print Name: David Zolp

Firm: Geosyntec Consultants

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company Site	County Name Milwaukee	Well Name MW-14	
Facility License, Permit or Monitoring Number BRRS# 02-41-000023	County Code 4 1	Wis. Unique Well Number _____	DNR Well ID Number _____

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other pumped and surged with pump _____

3. Time spent developing well _____ 2 7 min.

4. Depth of well (from top of well casing) _____ 2 0 . 3 ft.

5. Inside diameter of well _____ 2 . 0 6 in.

6. Volume of water in filter pack and well casing _____ 1 1 . 0 gal.

7. Volume of water removed from well _____ 9 . 5 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added N/A

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

13:33 - surge well
13:36 - begin pumping
13:40 - 2.5 gallons removed, surge well
13:44 - 3.5 gallons removed, surge well
14:00 - 9.5 gallons total removed, dry

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Christopher Last Name: Clark

Facility/Firm: Pharmacia, LLC.

Street: 235 East 42nd Street, 219/5/1

City/State/Zip: New York, NY 10017


	Before Development	After Development
11. Depth to Water (from top of well casing)	a. _____ 7 . 8 7 ft.	_____ DRY _____ ft.
Date	b. <u>0 9 / 1 1 / 2 0 2 0</u>	<u>0 9 / 1 1 / 2 0 2 0</u>
	m m d d y y y y	m m d d y y y y
Time	c. _____ 1 3 : 0 0 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	_____ 1 4 : 0 0 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ 0 . 0 inches	_____ 0 . 0 inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>brown, turbid</u>	Clear <input type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) <u>dry</u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: David Last Name: Zolp

Firm: Geosyntec Consultants

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: 

Print Name: David Zolp

Firm: Geosyntec Consultants



Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

Project Name: Milwaukee Die Cast
 Project Number: 20013-60
 Project Location: Milwaukee, WI
 ASTM Designation: **C136, D422**

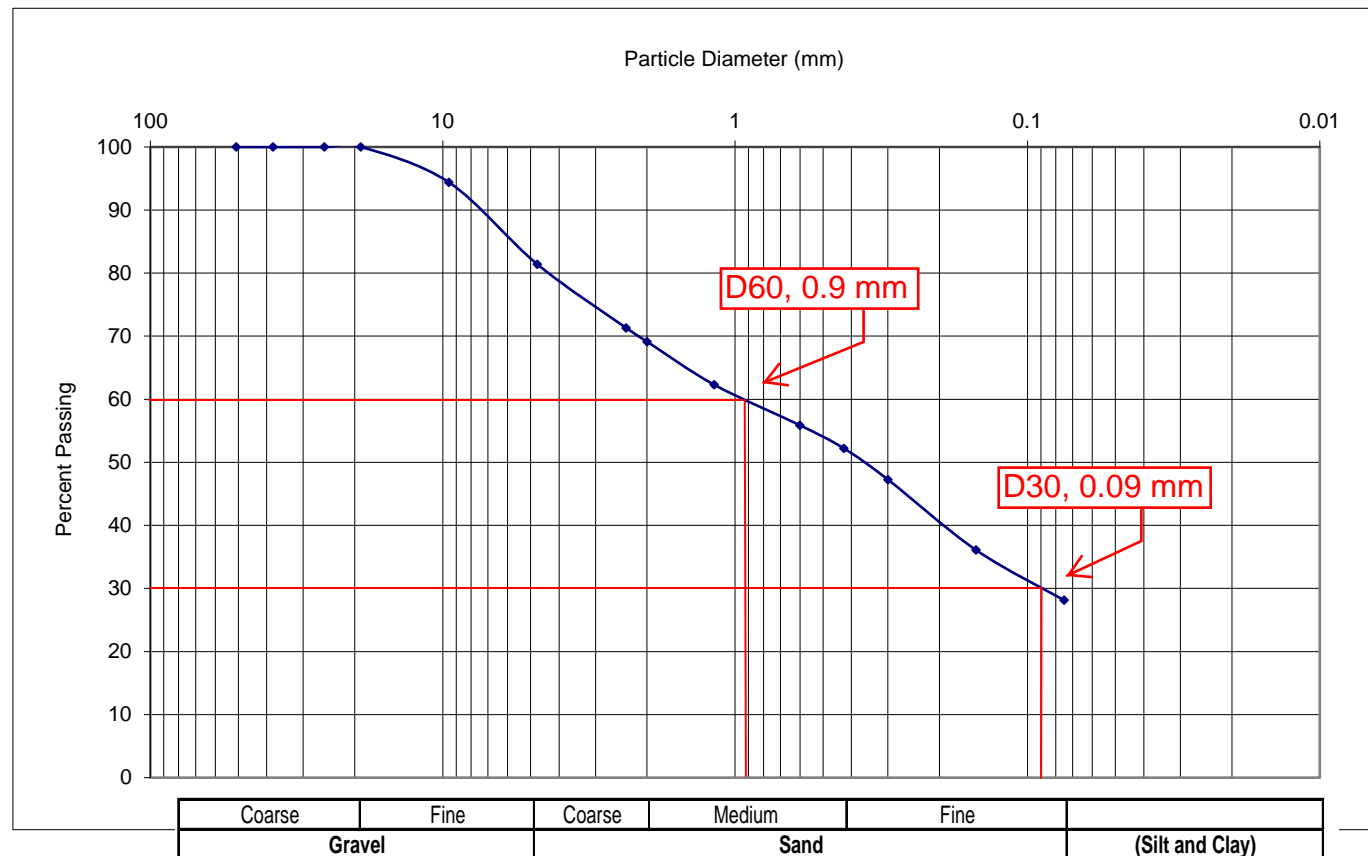
Date: January 19, 2021
 Reported To: Geosyntec

Sample Information

Type of Sample: Split Spoon Sample Number: _____
 Boring Number: MW-1 Depth of Sample: 14'-16'

Mechanical Analysis Data

Sieve	Sieve Opening (mm)	Percent Passing (%)
2	50.8	100.0
1 1/2	38.1	100.0
1	25.4	100.0
3/4	19.05	100.0
3/8	9.525	94.4
#4	4.75	81.4
#8	2.36	71.3
#10	2	69.1
#16	1.18	62.3
#30	0.6	55.9
#40	0.425	52.2
#50	0.3	47.3
#100	0.15	36.1
#200	0.075	28.2



Moisture Content 7.3 %

Remarks: Gravel 18.6 % Sand 53.3 %
Passing #200 Sieve (Silt & Clay) 28.2 %

Performed by: A. Hamberger/ B. Bills

Reviewed by: T Stevens

GESTRA Engineering, Inc.



Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

Project Name: Milwaukee Die Cast
 Project Number: 20013-60
 Project Location: Milwaukee, WI
 ASTM Designation: **C136, D422**

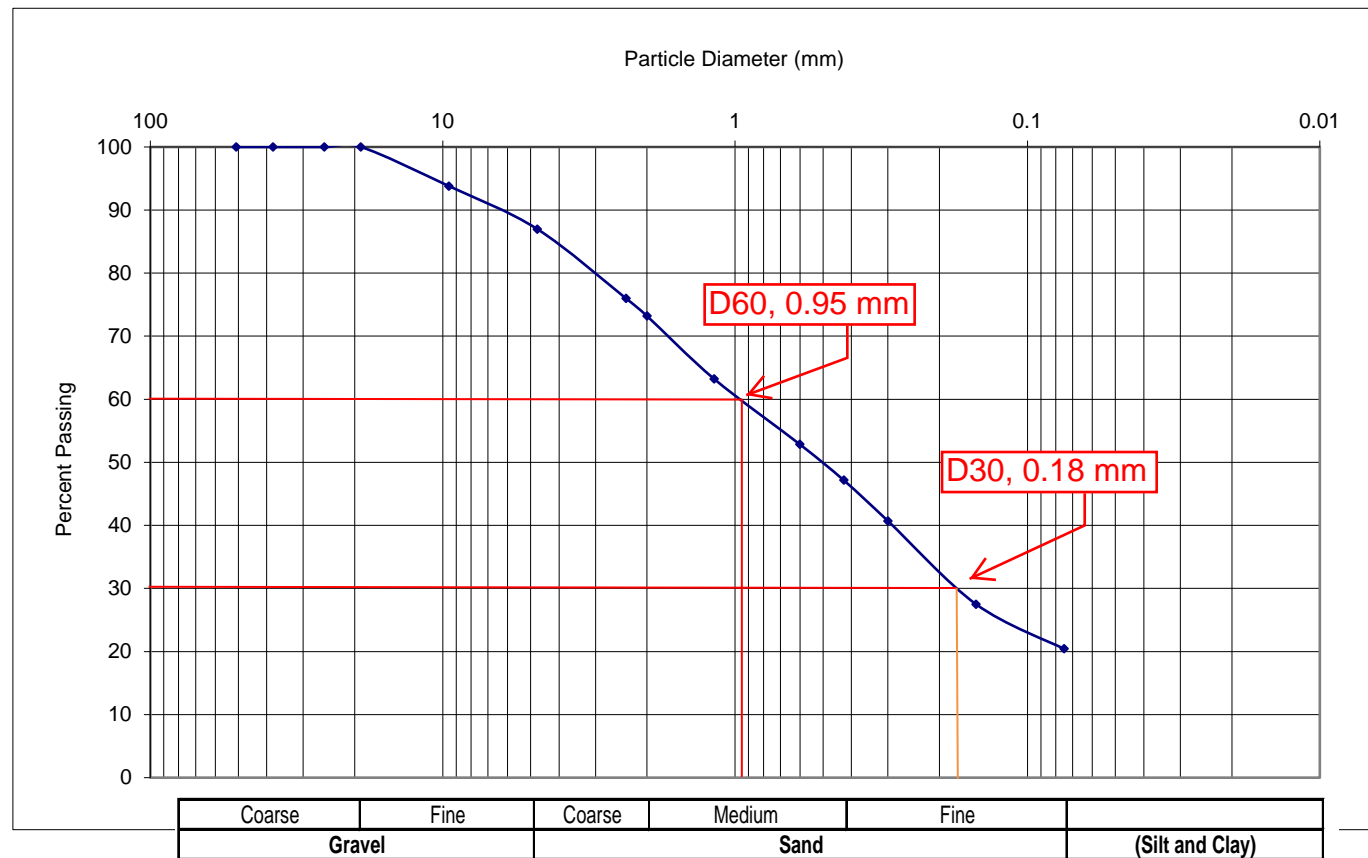
Date: January 19, 2021
 Reported To: Geosyntec

Sample Information

Type of Sample: Split Spoon Sample Number: _____
 Boring Number: MW-2 Depth of Sample: 13'-14'

Mechanical Analysis Data

Sieve	Sieve Opening (mm)	Percent Passing (%)
2	50.8	100.0
1 1/2	38.1	100.0
1	25.4	100.0
3/4	19.05	100.0
3/8	9.525	93.8
#4	4.75	87.0
#8	2.36	76.0
#10	2	73.2
#16	1.18	63.2
#30	0.6	52.8
#40	0.425	47.2
#50	0.3	40.7
#100	0.15	27.5
#200	0.075	20.4



Moisture Content 8.0 %

Remarks: Gravel 13.0 % Sand 66.6 %
Passing #200 Sieve (Silt & Clay) 20.4 %

Performed by: A. Hamberger/ B. Bills

Reviewed by: T Stevens

GESTRA Engineering, Inc.



Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

Project Name: Milwaukee Die Cast
 Project Number: 20013-60
 Project Location: Milwaukee, WI
 ASTM Designation: **C136, D422**

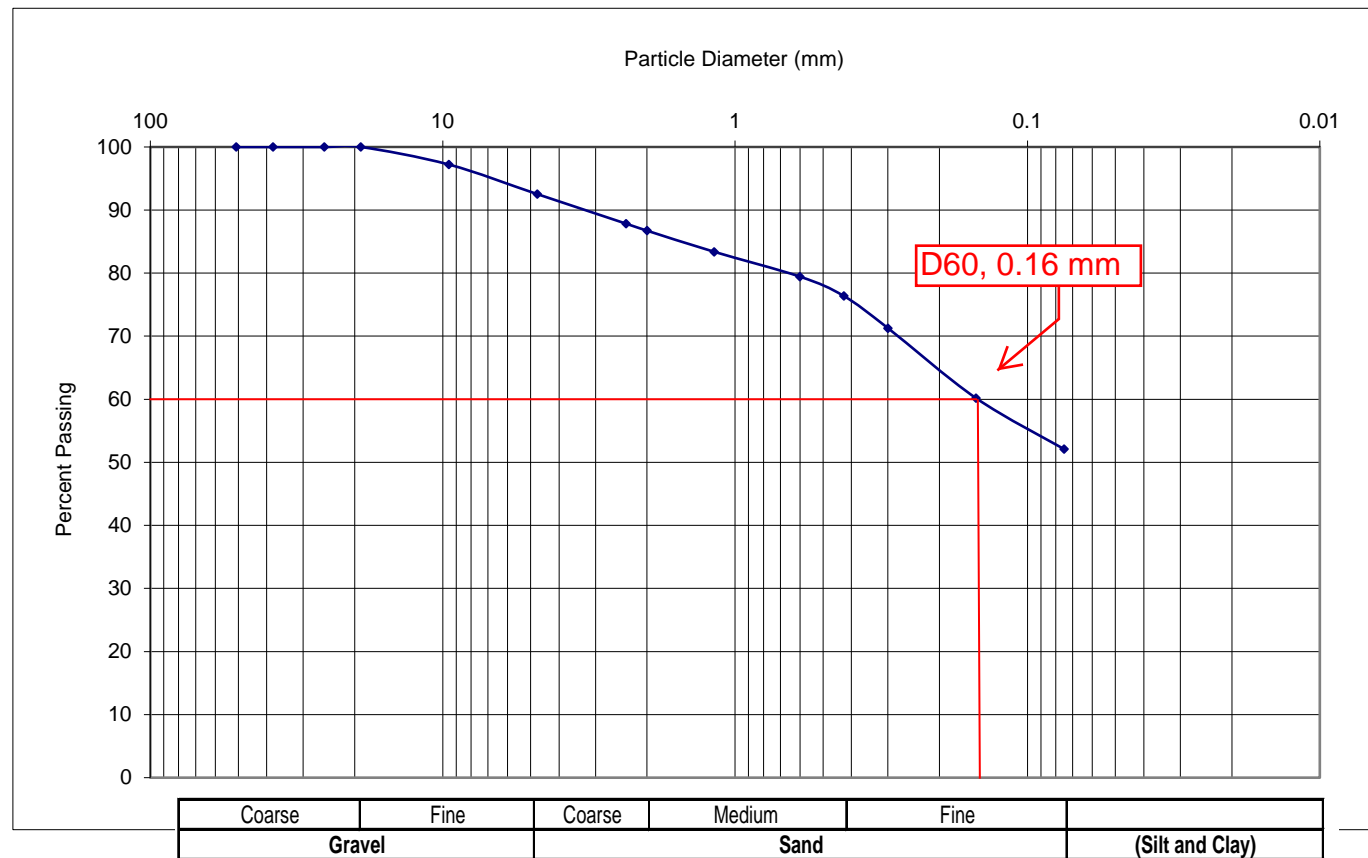
Date: January 19, 2021
 Reported To: Geosyntec

Sample Information

Type of Sample: Split Spoon Sample Number: _____
 Boring Number: MW-3 Depth of Sample: 5'-15'

Mechanical Analysis Data

Sieve	Sieve Opening (mm)	Percent Passing (%)
2	50.8	100.0
1 1/2	38.1	100.0
1	25.4	100.0
3/4	19.05	100.0
3/8	9.525	97.2
#4	4.75	92.5
#8	2.36	87.8
#10	2	86.7
#16	1.18	83.4
#30	0.6	79.4
#40	0.425	76.4
#50	0.3	71.3
#100	0.15	60.2
#200	0.075	52.1



Moisture Content 6.6 %

Remarks: Gravel 7.5 % Sand 40.4 %
Passing #200 Sieve (Silt & Clay) 52.1 %

Performed by: A. Hamberger/ B. Bills

Reviewed by: T Stevens

GESTRA Engineering, Inc.



Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

Project Name: Milwaukee Die Cast
 Project Number: 20013-60
 Project Location: Milwaukee, WI
 ASTM Designation: **C136, D422**

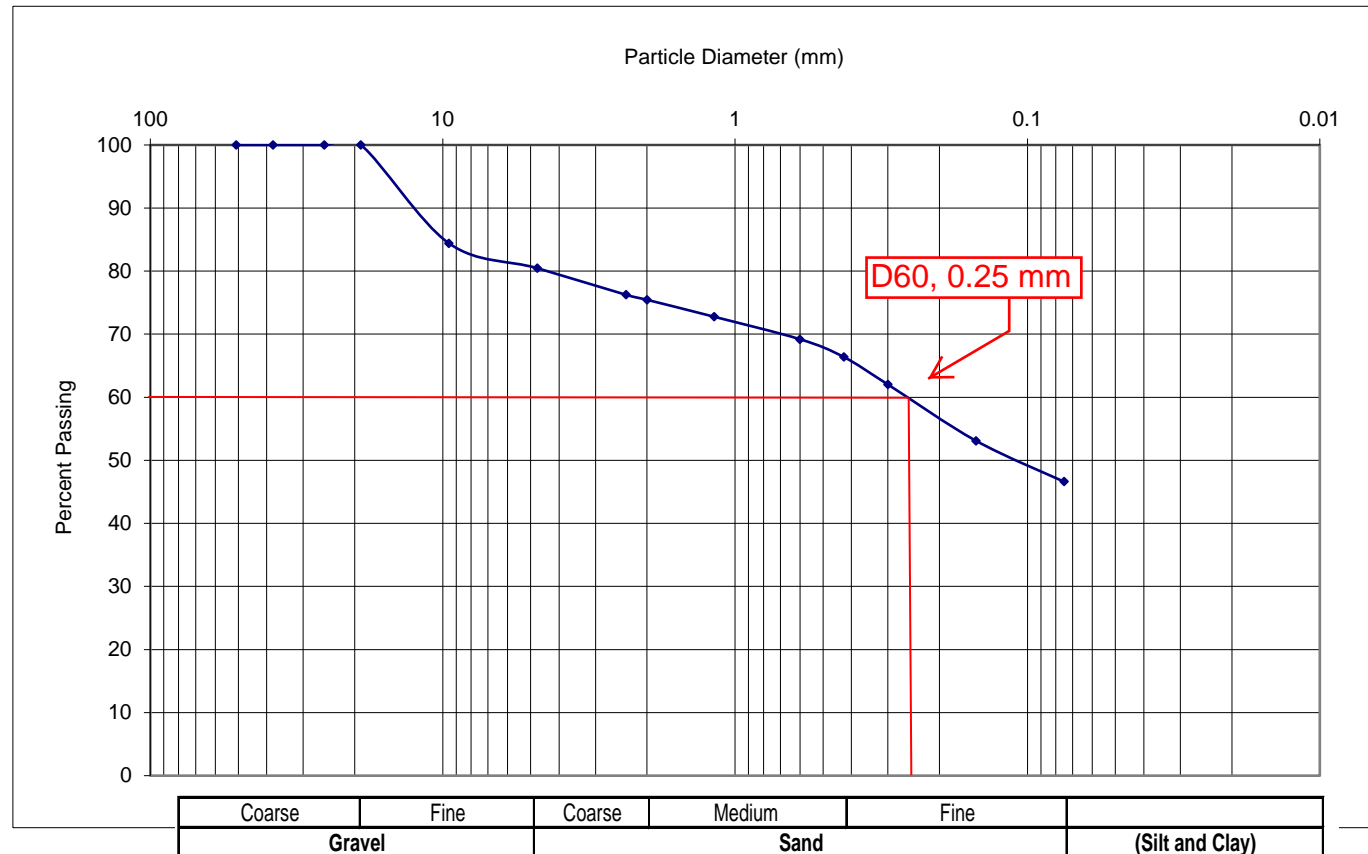
Date: January 19, 2021
 Reported To: Geosyntec

Sample Information

Type of Sample: Split Spoon Sample Number: _____
 Boring Number: MW-4 Depth of Sample: 14'-16'

Mechanical Analysis Data

Sieve	Sieve Opening (mm)	Percent Passing (%)
2	50.8	100.0
1 1/2	38.1	100.0
1	25.4	100.0
3/4	19.05	100.0
3/8	9.525	84.4
#4	4.75	80.5
#8	2.36	76.2
#10	2	75.4
#16	1.18	72.8
#30	0.6	69.2
#40	0.425	66.4
#50	0.3	62.0
#100	0.15	53.1
#200	0.075	46.6



Moisture Content 8.2 %

Remarks: Gravel 19.5 % Sand 33.8 %
Passing #200 Sieve (Silt & Clay) 46.6 %

Performed by: A. Hamberger/ B. Bills

Reviewed by: T Stevens

GESTRA Engineering, Inc.



Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

Project Name: Milwaukee Die Cast
 Project Number: 20013-60
 Project Location: Milwaukee, WI
 ASTM Designation: **C136, D422**

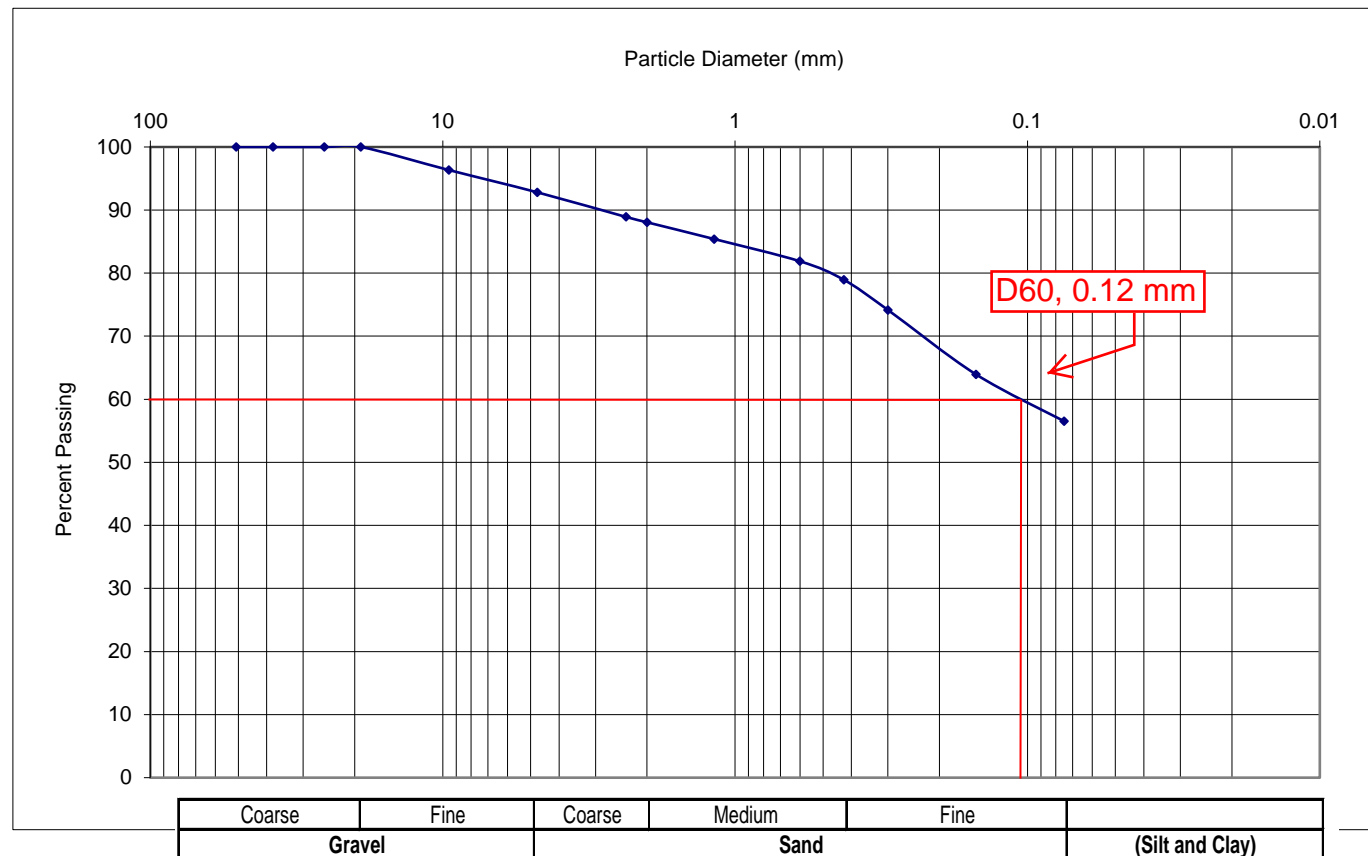
Date: January 19, 2021
 Reported To: Geosyntec

Sample Information

Type of Sample: Split Spoon Sample Number: _____
 Boring Number: MW-5 Depth of Sample: 12'-14'

Mechanical Analysis Data

Sieve	Sieve Opening (mm)	Percent Passing (%)
2	50.8	100.0
1 1/2	38.1	100.0
1	25.4	100.0
3/4	19.05	100.0
3/8	9.525	96.3
#4	4.75	92.8
#8	2.36	88.9
#10	2	88.1
#16	1.18	85.4
#30	0.6	81.9
#40	0.425	78.9
#50	0.3	74.2
#100	0.15	63.9
#200	0.075	56.5



Moisture Content 9.4 %

Remarks: Gravel 7.2 % Sand 36.3 %
Passing #200 Sieve (Silt & Clay) 56.5 %

Performed by: A. Hamberger/ B. Bills

Reviewed by: T Stevens

GESTRA Engineering, Inc.



Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

Project Name: Milwaukee Die Cast
 Project Number: 20013-60
 Project Location: Milwaukee, WI
 ASTM Designation: **C136, D422**

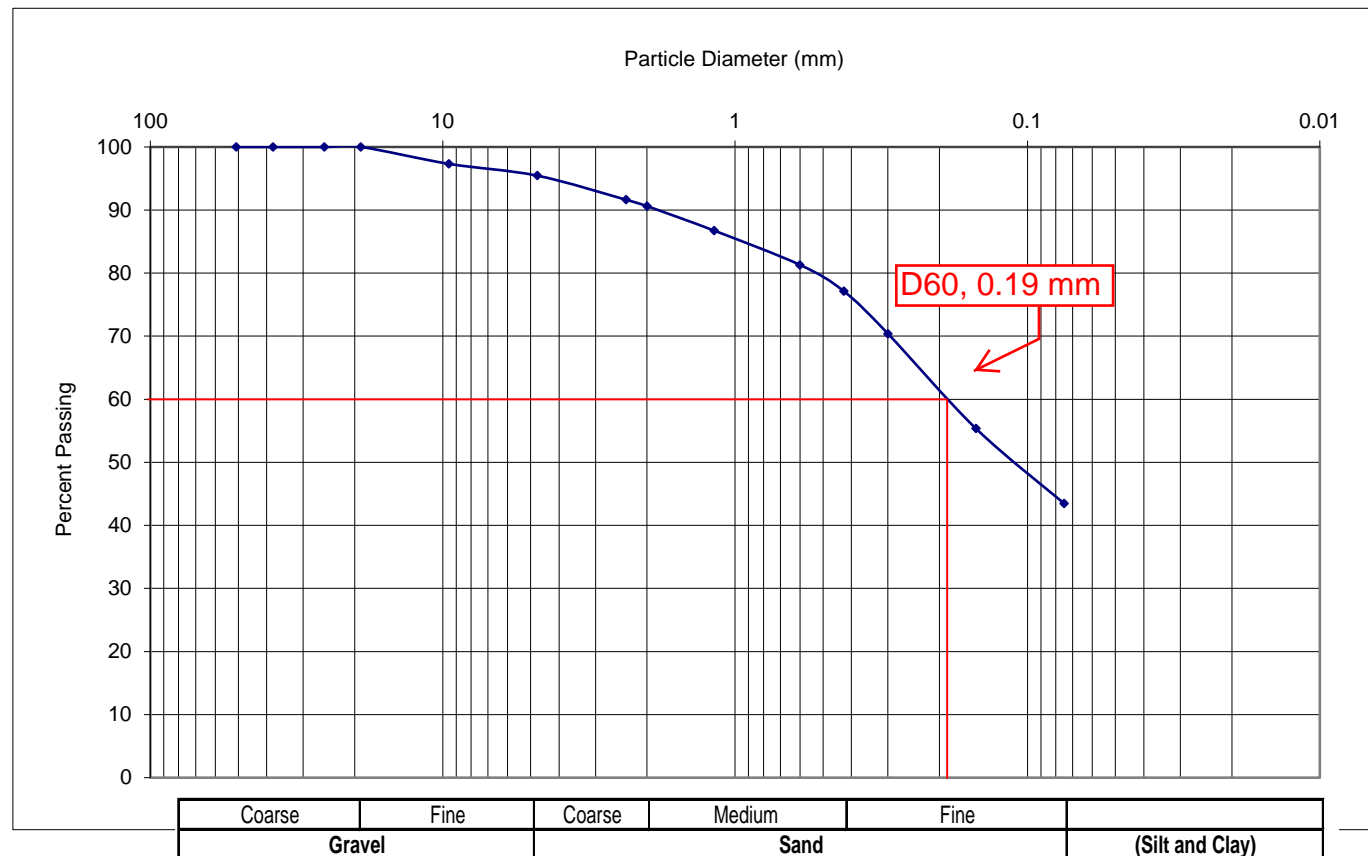
Date: January 19, 2021
 Reported To: Geosyntec

Sample Information

Type of Sample: Split Spoon Sample Number: _____
 Boring Number: MW-6 Depth of Sample: 15'-16'

Mechanical Analysis Data

Sieve	Sieve Opening (mm)	Percent Passing (%)
2	50.8	100.0
1 1/2	38.1	100.0
1	25.4	100.0
3/4	19.05	100.0
3/8	9.525	97.3
#4	4.75	95.5
#8	2.36	91.6
#10	2	90.6
#16	1.18	86.7
#30	0.6	81.3
#40	0.425	77.1
#50	0.3	70.4
#100	0.15	55.4
#200	0.075	43.5



Moisture Content 11.6 %

Remarks: Gravel 4.5 % Sand 52.0 %
Passing #200 Sieve (Silt & Clay) 43.5 %

Performed by: A. Hamberger/ B. Bills

Reviewed by: T Stevens

GESTRA Engineering, Inc.



Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

Project Name: Milwaukee Die Cast
 Project Number: 20013-60
 Project Location: Milwaukee, WI
 ASTM Designation: **C136, D422**

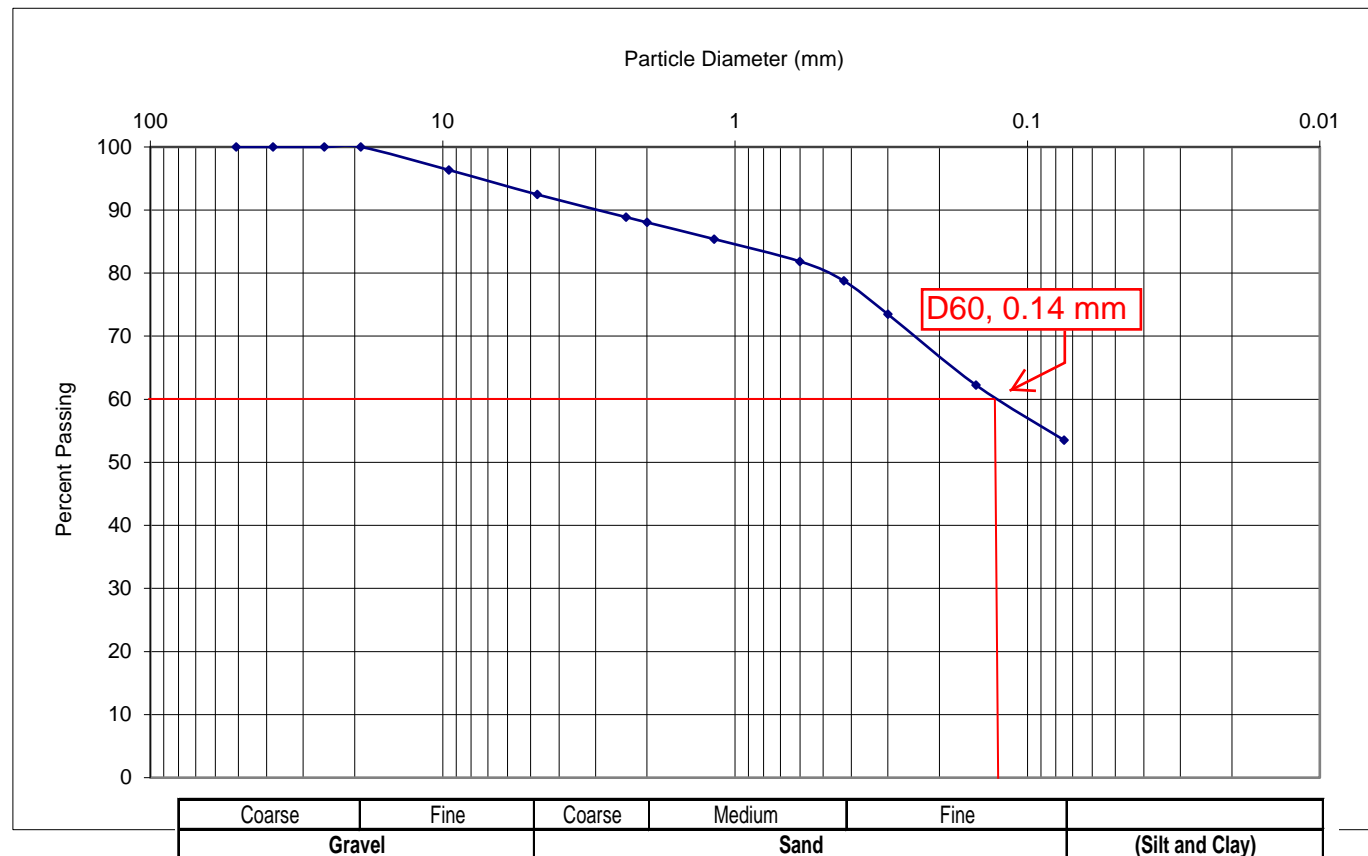
Date: January 19, 2021
 Reported To: Geosyntec

Sample Information

Type of Sample: Split Spoon Sample Number: _____
 Boring Number: MW-7 Depth of Sample: 10'-12'

Mechanical Analysis Data

Sieve	Sieve Opening (mm)	Percent Passing (%)
2	50.8	100.0
1 1/2	38.1	100.0
1	25.4	100.0
3/4	19.05	100.0
3/8	9.525	96.4
#4	4.75	92.5
#8	2.36	88.9
#10	2	88.0
#16	1.18	85.4
#30	0.6	81.9
#40	0.425	78.8
#50	0.3	73.5
#100	0.15	62.3
#200	0.075	53.5



Moisture Content 8.9 %

Remarks: Gravel 7.5 % Sand 38.9 %
Passing #200 Sieve (Silt & Clay) 53.5 %

Performed by: A. Hamberger/ B. Bills

Reviewed by: T Stevens

GESTRA Engineering, Inc.



Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

Project Name: Milwaukee Die Cast
 Project Number: 20013-60
 Project Location: Milwaukee, WI
 ASTM Designation: **C136, D422**

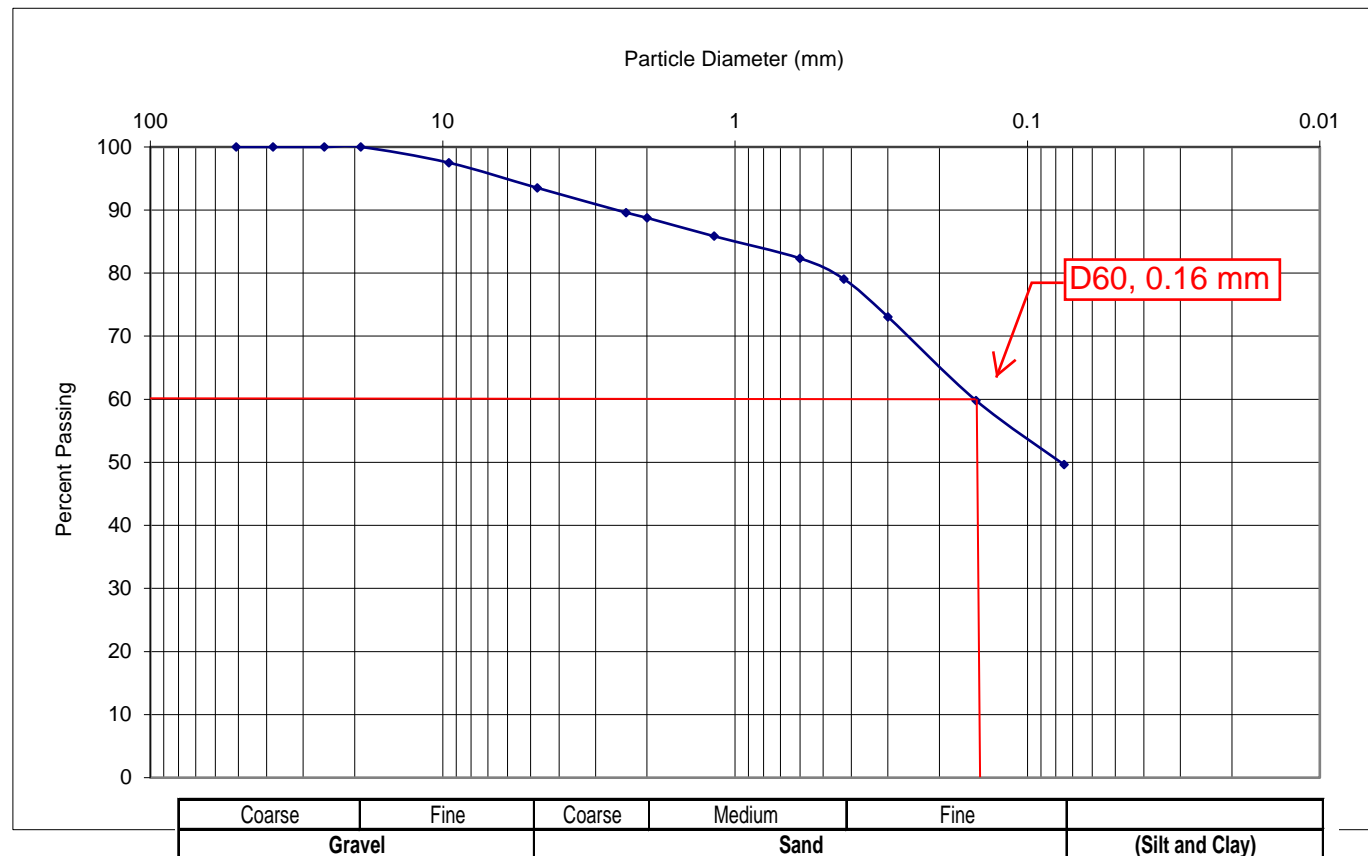
Date: January 19, 2021
 Reported To: Geosyntec

Sample Information

Type of Sample: Split Spoon Sample Number: _____
 Boring Number: MW-8 Depth of Sample: 14'-16'

Mechanical Analysis Data

Sieve	Sieve Opening (mm)	Percent Passing (%)
2	50.8	100.0
1 1/2	38.1	100.0
1	25.4	100.0
3/4	19.05	100.0
3/8	9.525	97.5
#4	4.75	93.5
#8	2.36	89.6
#10	2	88.8
#16	1.18	85.9
#30	0.6	82.3
#40	0.425	79.1
#50	0.3	73.1
#100	0.15	59.8
#200	0.075	49.6



Moisture Content 8.4 %

Remarks: Gravel 6.5 % Sand 43.9 %
Passing #200 Sieve (Silt & Clay) 49.6 %

Performed by: A. Hamberger/ B. Bills

Reviewed by: T Stevens

GESTRA Engineering, Inc.



Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

Project Name: Milwaukee Die Cast
 Project Number: 20013-60
 Project Location: Milwaukee, WI
 ASTM Designation: **C136, D422**

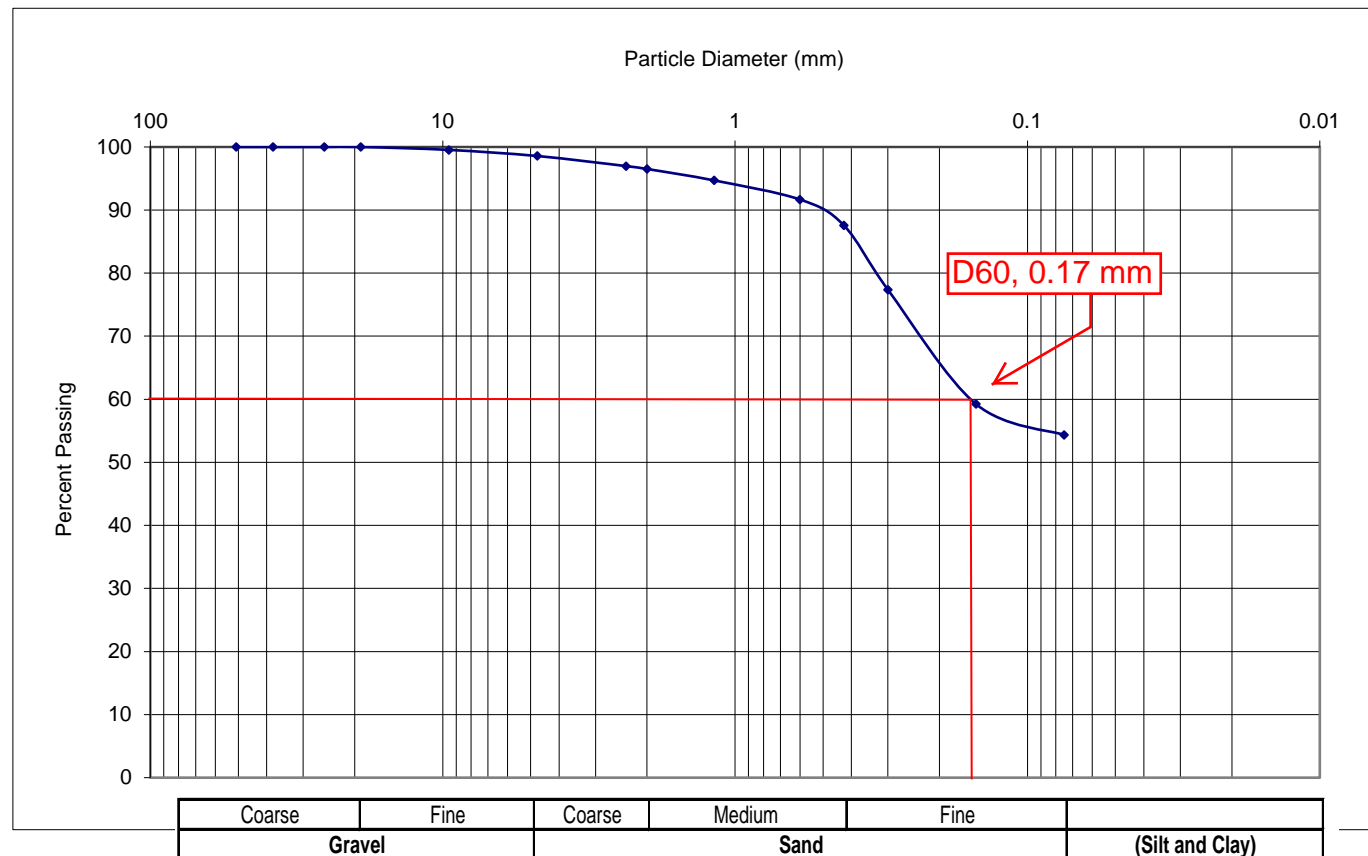
Date: January 19, 2021
 Reported To: Geosyntec

Sample Information

Type of Sample: Split Spoon Sample Number: _____
 Boring Number: MW-9 Depth of Sample: 6'-10'

Mechanical Analysis Data

Sieve	Sieve Opening (mm)	Percent Passing (%)
2	50.8	100.0
1 1/2	38.1	100.0
1	25.4	100.0
3/4	19.05	100.0
3/8	9.525	99.5
#4	4.75	98.6
#8	2.36	97.0
#10	2	96.5
#16	1.18	94.7
#30	0.6	91.7
#40	0.425	87.6
#50	0.3	77.4
#100	0.15	59.2
#200	0.075	54.4



Moisture Content 17.2 %

Remarks: Gravel 1.4 % Sand 44.2 %
Passing #200 Sieve (Silt & Clay) 54.4 %

Performed by: A. Hamberger/ B. Bills

Reviewed by: T Stevens

GESTRA Engineering, Inc.



Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

Project Name: Milwaukee Die Cast
 Project Number: 20013-60
 Project Location: Milwaukee, WI
 ASTM Designation: **C136, D422**

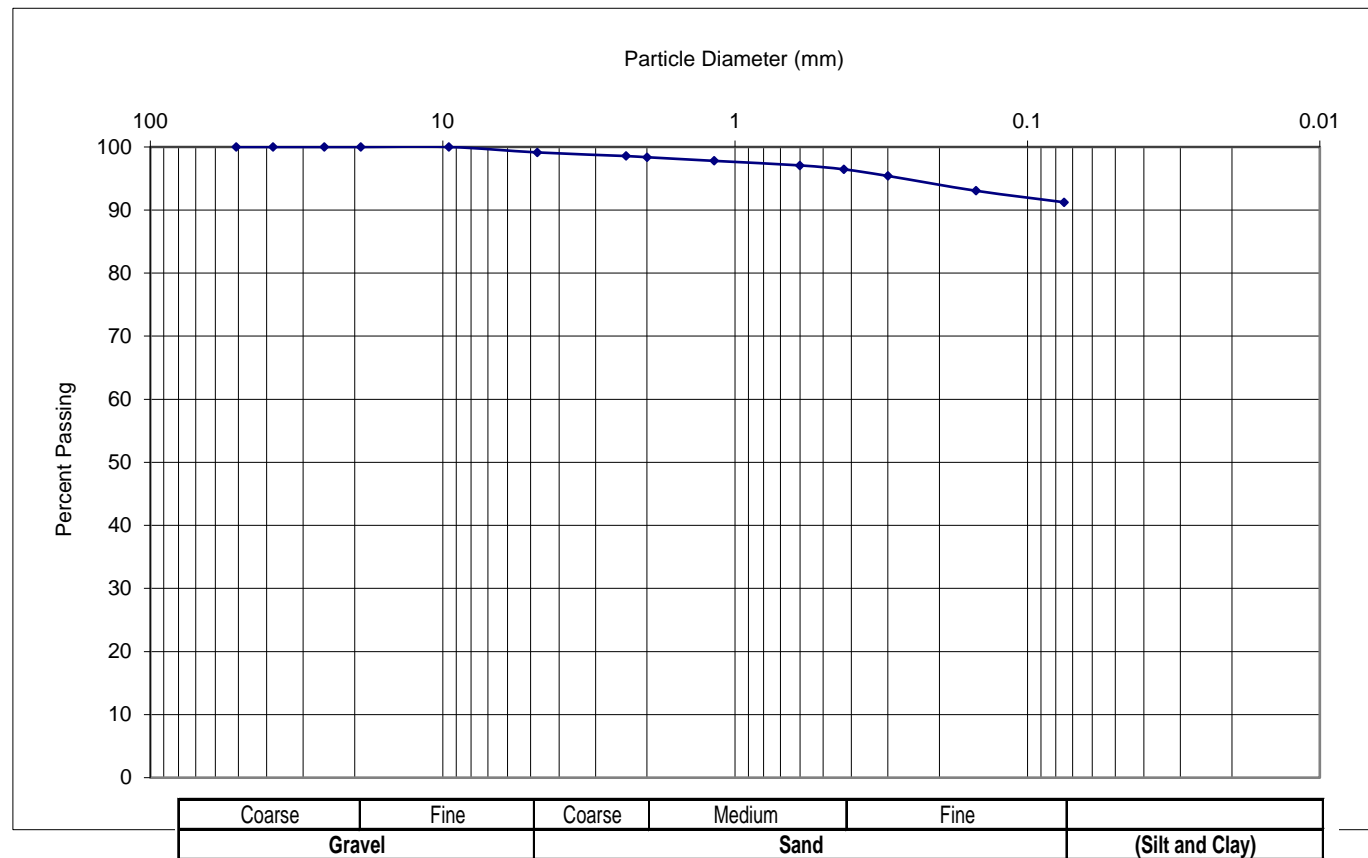
Date: January 19, 2021
 Reported To: Geosyntec

Sample Information

Type of Sample: Split Spoon Sample Number: _____
 Boring Number: MW-10 Depth of Sample: 16'-17'

Mechanical Analysis Data

Sieve	Sieve Opening (mm)	Percent Passing (%)
2	50.8	100.0
1 1/2	38.1	100.0
1	25.4	100.0
3/4	19.05	100.0
3/8	9.525	100.0
#4	4.75	99.1
#8	2.36	98.6
#10	2	98.4
#16	1.18	97.8
#30	0.6	97.1
#40	0.425	96.5
#50	0.3	95.4
#100	0.15	93.1
#200	0.075	91.2



Moisture Content 18.0 %

Remarks: Gravel 0.9 % Sand 7.9 %
Passing #200 Sieve (Silt & Clay) 91.2 %

Performed by: A. Hamberger/ B. Bills

Reviewed by: T Stevens

GESTRA Engineering, Inc.



Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

Project Name: Milwaukee Die Cast
 Project Number: 20013-60
 Project Location: Milwaukee, WI
 ASTM Designation: **C136, D422**

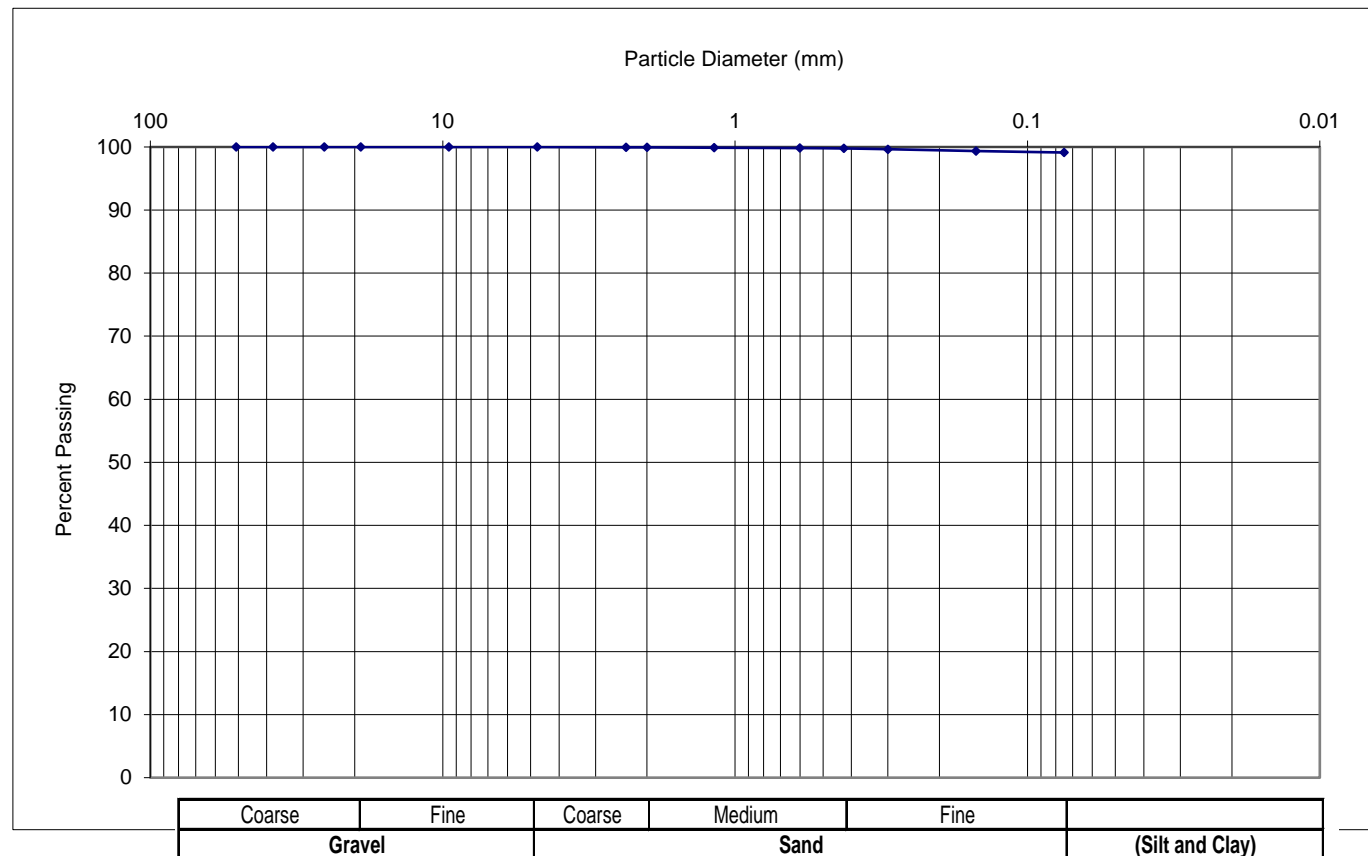
Date: January 19, 2021
 Reported To: Geosyntec

Sample Information

Type of Sample: Split Spoon Sample Number: _____
 Boring Number: MW-11 Depth of Sample: 14'-16'

Mechanical Analysis Data

Sieve	Sieve Opening (mm)	Percent Passing (%)
2	50.8	100.0
1 1/2	38.1	100.0
1	25.4	100.0
3/4	19.05	100.0
3/8	9.525	100.0
#4	4.75	100.0
#8	2.36	99.9
#10	2	99.9
#16	1.18	99.9
#30	0.6	99.8
#40	0.425	99.8
#50	0.3	99.6
#100	0.15	99.4
#200	0.075	99.1



Moisture Content 22.4 %

Remarks: Gravel 0.0 % Sand 0.9 %
Passing #200 Sieve (Silt & Clay) 99.1 %

Performed by: B. Bills

Reviewed by: T Stevens
 GESTRA Engineering, Inc.



Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

Project Name: Milwaukee Die Cast
 Project Number: 20013-60
 Project Location: Milwaukee, WI
 ASTM Designation: **C136, D422**

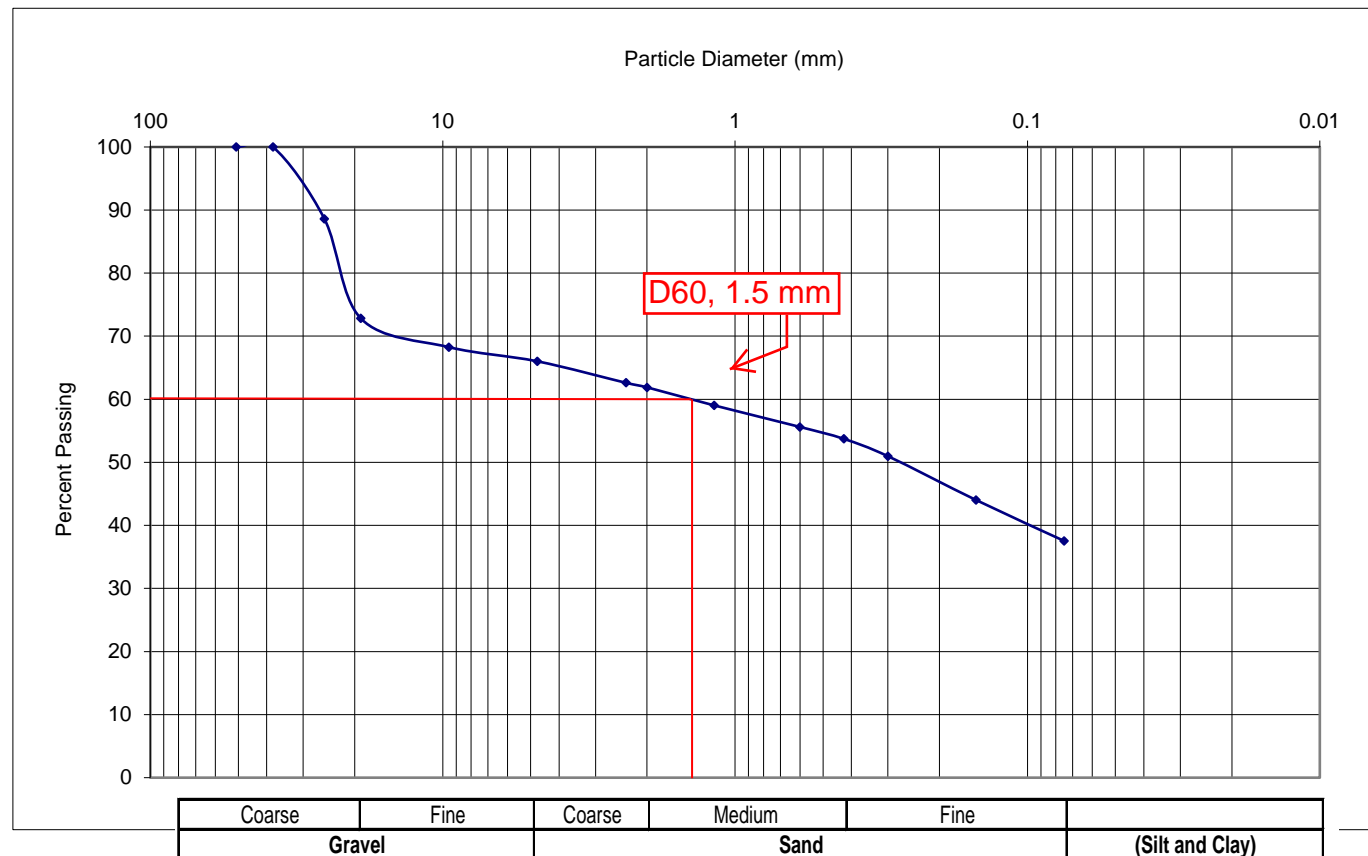
Date: January 22, 2021
 Reported To: Geosyntec

Sample Information

Type of Sample: Split Spoon Sample Number: _____
 Boring Number: MW-12 Depth of Sample: 12'-14'

Mechanical Analysis Data

Sieve	Sieve Opening (mm)	Percent Passing (%)
2	50.8	100.0
1 1/2	38.1	100.0
1	25.4	88.6
3/4	19.05	72.8
3/8	9.525	68.3
#4	4.75	66.0
#8	2.36	62.6
#10	2	61.9
#16	1.18	59.0
#30	0.6	55.6
#40	0.425	53.7
#50	0.3	51.0
#100	0.15	44.0
#200	0.075	37.6



Moisture Content 6.5 %

Remarks: Gravel 34.0 % Sand 28.5 %
 Passing #200 Sieve (Silt & Clay) 37.6 %

Performed by: B. Bills

Reviewed by: T Stevens

GESTRA Engineering, Inc.



Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

Project Name: Milwaukee Die Cast
 Project Number: 20013-60
 Project Location: Milwaukee, WI
 ASTM Designation: **C136, D422**

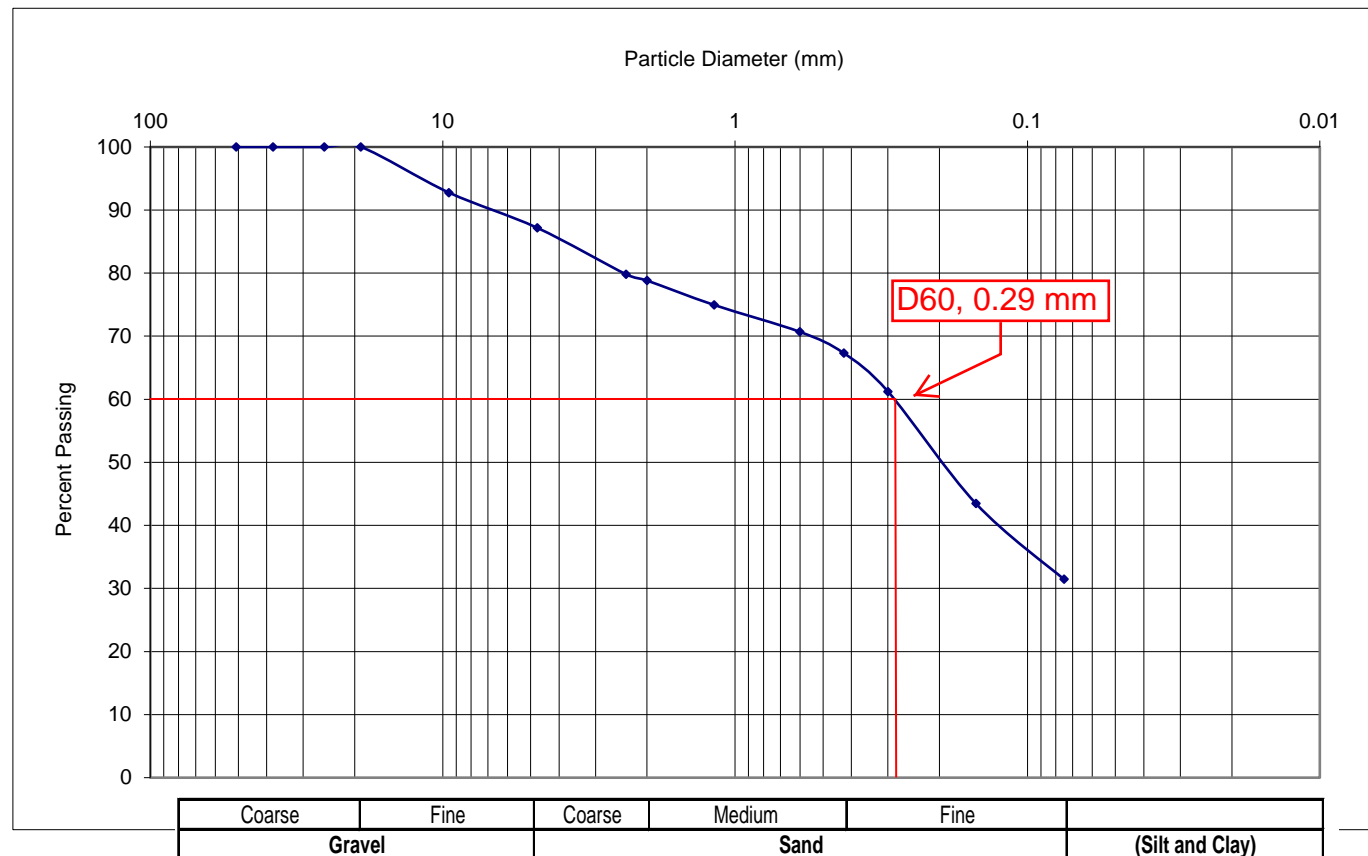
Date: January 22, 2021
 Reported To: Geosyntec

Sample Information

Type of Sample: Split Spoon Sample Number: _____
 Boring Number: MW-13 Depth of Sample: 14"-16'

Mechanical Analysis Data

Sieve	Sieve Opening (mm)	Percent Passing (%)
2	50.8	100.0
1 1/2	38.1	100.0
1	25.4	100.0
3/4	19.05	100.0
3/8	9.525	92.8
#4	4.75	87.2
#8	2.36	79.8
#10	2	78.8
#16	1.18	75.0
#30	0.6	70.7
#40	0.425	67.3
#50	0.3	61.2
#100	0.15	43.5
#200	0.075	31.5



Moisture Content 6.2 %

Remarks: Gravel 12.8 % Sand 55.7 %
Passing #200 Sieve (Silt & Clay) 31.5 %

Performed by: B. Bills

Reviewed by: T Stevens

GESTRA Engineering, Inc.



Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

Project Name: Milwaukee Die Cast
 Project Number: 20013-60
 Project Location: Milwaukee, WI
 ASTM Designation: **C136, D422**

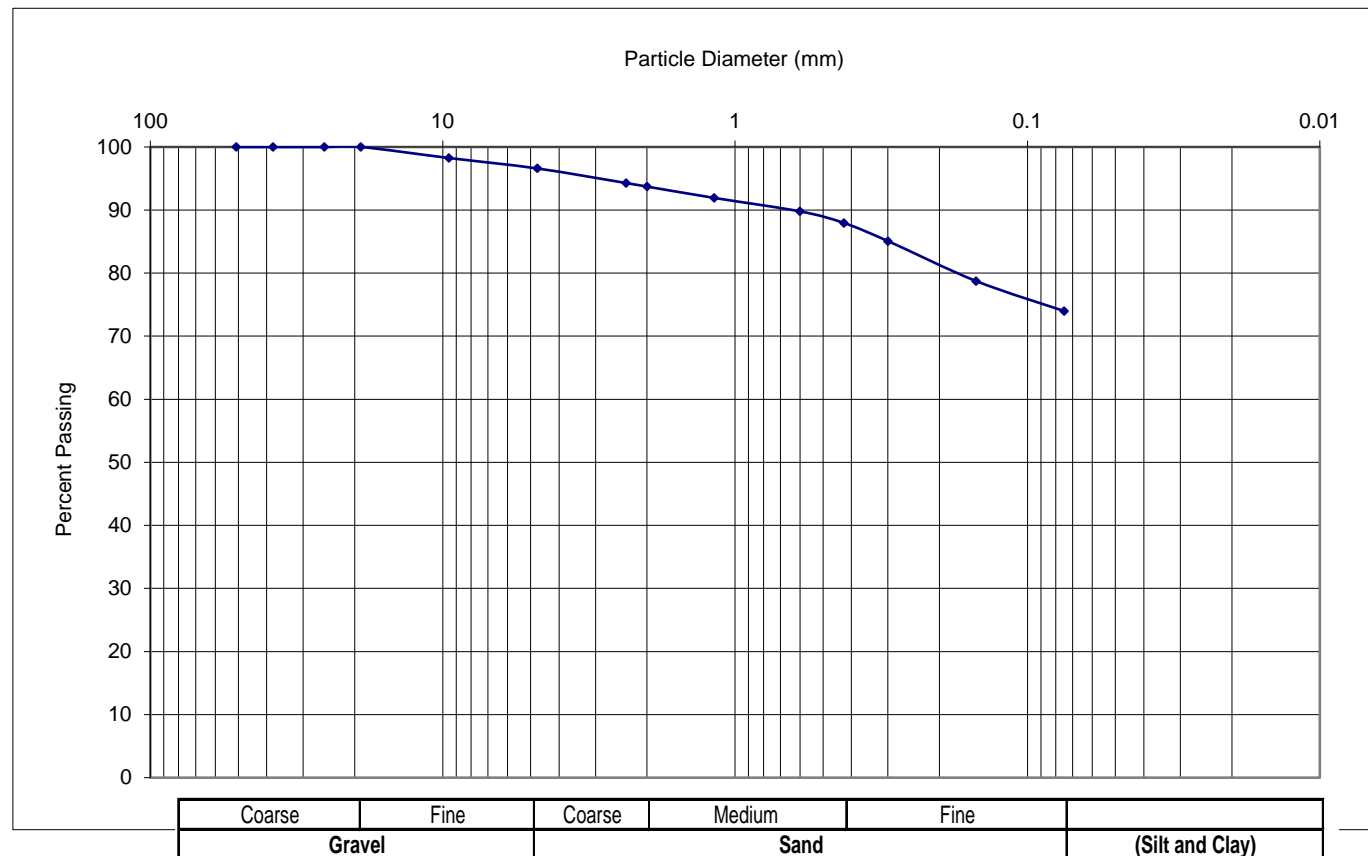
Date: January 22, 2021
 Reported To: Geosyntec

Sample Information

Type of Sample: Split Spoon Sample Number: _____
 Boring Number: MW-14 Depth of Sample: 10'-12'

Mechanical Analysis Data

Sieve	Sieve Opening (mm)	Percent Passing (%)
2	50.8	100.0
1 1/2	38.1	100.0
1	25.4	100.0
3/4	19.05	100.0
3/8	9.525	98.3
#4	4.75	96.6
#8	2.36	94.3
#10	2	93.7
#16	1.18	91.9
#30	0.6	89.8
#40	0.425	88.0
#50	0.3	85.1
#100	0.15	78.8
#200	0.075	74.0



Moisture Content 13.7 %

Remarks: Gravel 3.4 % Sand 22.6 %
Passing #200 Sieve (Silt & Clay) 74.0 %

Performed by: B. Bills

Reviewed by: T Stevens

GESTRA Engineering, Inc.



Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

Project Name: Milwaukee Die Cast
 Project Number: 20013-60
 Project Location: Milwaukee, WI
 ASTM Designation: **C136, D422**

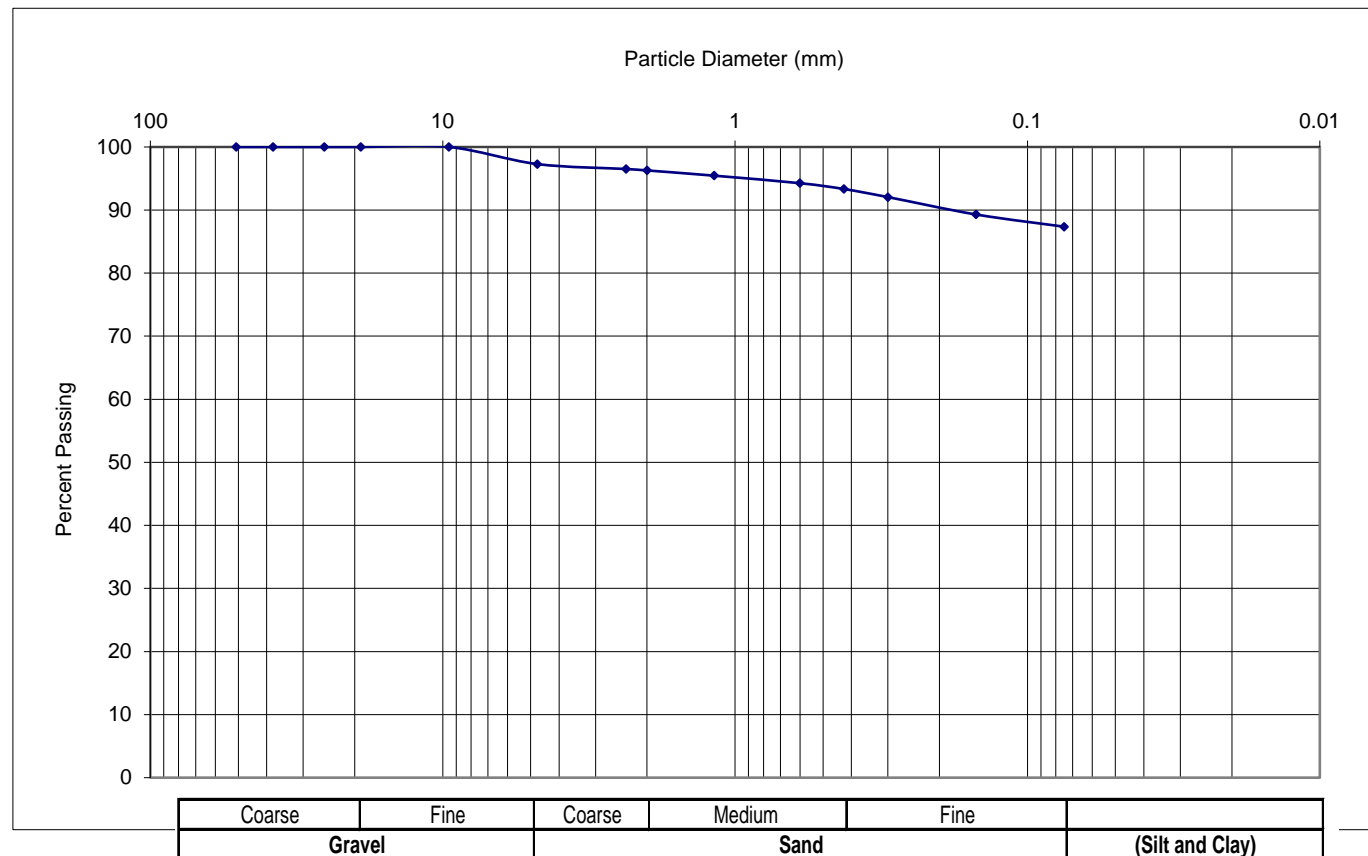
Date: January 22, 2021
 Reported To: Geosyntec

Sample Information

Type of Sample: Split Spoon Sample Number: _____
 Boring Number: MW-14 Depth of Sample: 12'-13'

Mechanical Analysis Data

Sieve	Sieve Opening (mm)	Percent Passing (%)
2	50.8	100.0
1 1/2	38.1	100.0
1	25.4	100.0
3/4	19.05	100.0
3/8	9.525	100.0
#4	4.75	97.3
#8	2.36	96.5
#10	2	96.3
#16	1.18	95.5
#30	0.6	94.3
#40	0.425	93.3
#50	0.3	92.1
#100	0.15	89.3
#200	0.075	87.4



Moisture Content 17.5 %

Remarks: Gravel 2.7 % Sand 9.9 %
Passing #200 Sieve (Silt & Clay) 87.4 %

Performed by: B. Bills

Reviewed by: T Stevens
 GESTRA Engineering, Inc.



Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

Project Name: Milwaukee Die Cast
 Project Number: 20013-60
 Project Location: Milwaukee, WI
 ASTM Designation: **C136, D422**

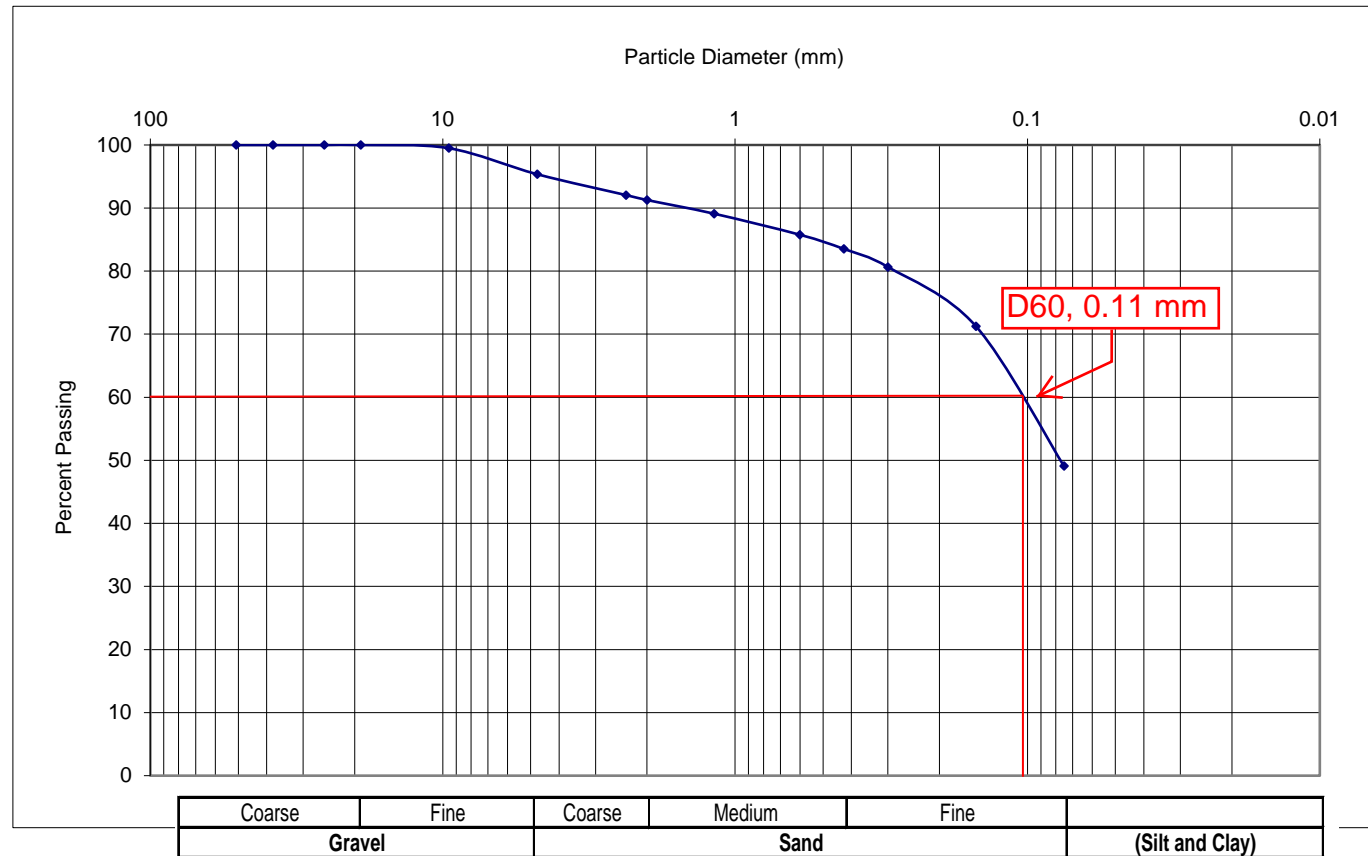
Date: January 19, 2021
 Reported To: Geosyntec

Sample Information

Type of Sample: Split Spoon Sample Number: _____
 Boring Number: PZ-1 Depth of Sample: 30'-32'

Mechanical Analysis Data

Sieve	Sieve Opening (mm)	Percent Passing (%)
2	50.8	100.0
1 1/2	38.1	100.0
1	25.4	100.0
3/4	19.05	100.0
3/8	9.525	99.5
#4	4.75	95.4
#8	2.36	92.1
#10	2	91.3
#16	1.18	89.1
#30	0.6	85.8
#40	0.425	83.5
#50	0.3	80.7
#100	0.15	71.3
#200	0.075	49.1



Moisture Content 15.1 %

Remarks: Gravel 4.6 % Sand 46.3 %
Passing #200 Sieve (Silt & Clay) 49.1 %

Performed by: A. Hamberger/ B. Bills

Reviewed by: T Stevens

GESTRA Engineering, Inc.



Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

Project Name: Milwaukee Die Cast
 Project Number: 20013-60
 Project Location: Milwaukee, WI
 ASTM Designation: **C136, D422**

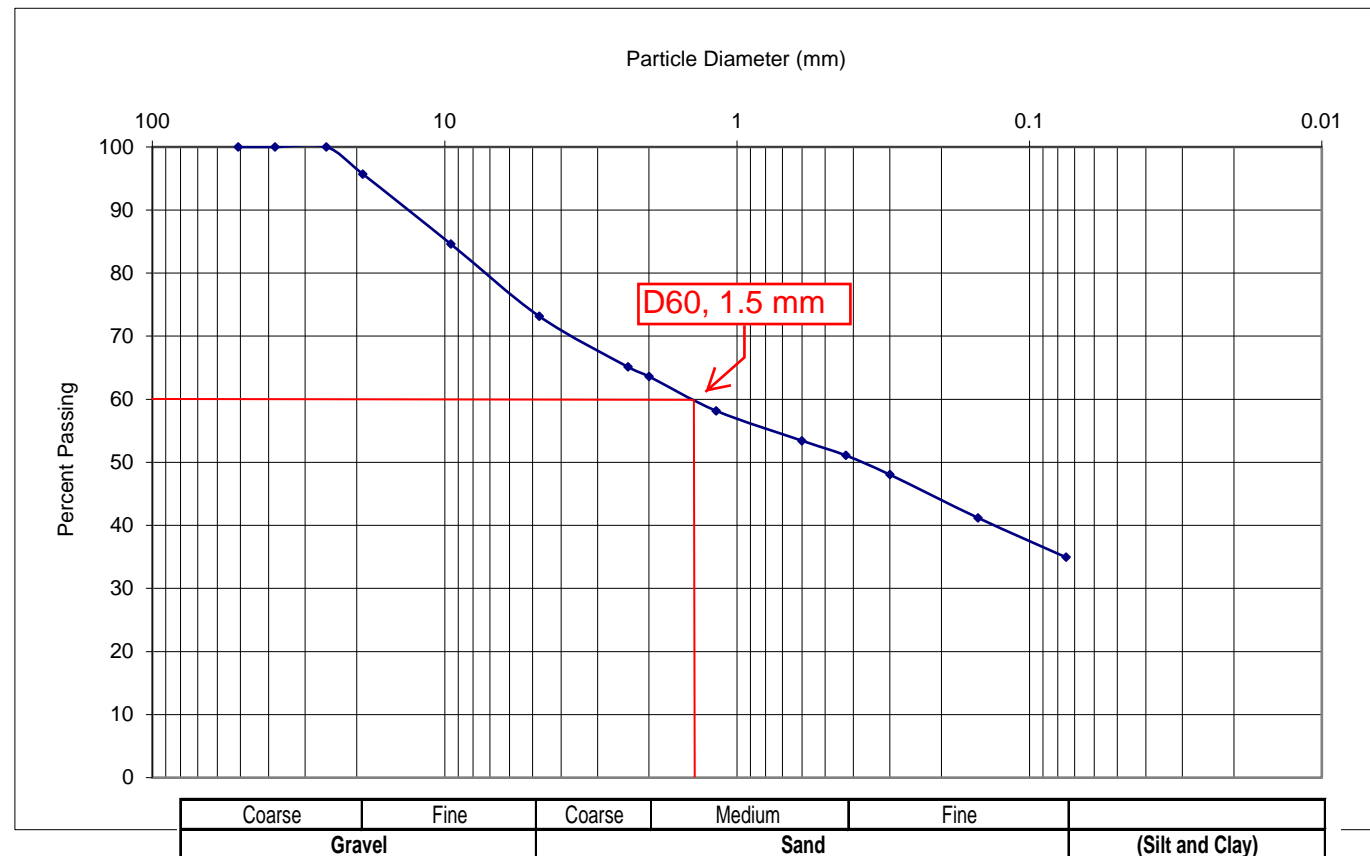
Date: January 19, 2021
 Reported To: Geosyntec

Sample Information

Type of Sample: Split Spoon Sample Number: _____
 Boring Number: PZ-2 Depth of Sample: 33'-38'

Mechanical Analysis Data

Sieve	Sieve Opening (mm)	Percent Passing (%)
2	50.8	100.0
1 1/2	38.1	100.0
1	25.4	100.0
3/4	19.05	95.7
3/8	9.525	84.6
#4	4.75	73.2
#8	2.36	65.1
#10	2	63.6
#16	1.18	58.2
#30	0.6	53.4
#40	0.425	51.1
#50	0.3	48.0
#100	0.15	41.2
#200	0.075	34.9



Moisture Content 7.2 %

Remarks: Gravel 26.8 % Sand 38.2 %
Passing #200 Sieve (Silt & Clay) 34.9 %

Performed by: A. Hamberger/ B. Bills

Reviewed by: T Stevens

GESTRA Engineering, Inc.



Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

Project Name: Milwaukee Die Cast
 Project Number: 20013-60
 Project Location: Milwaukee, WI
 ASTM Designation: **C136, D422**

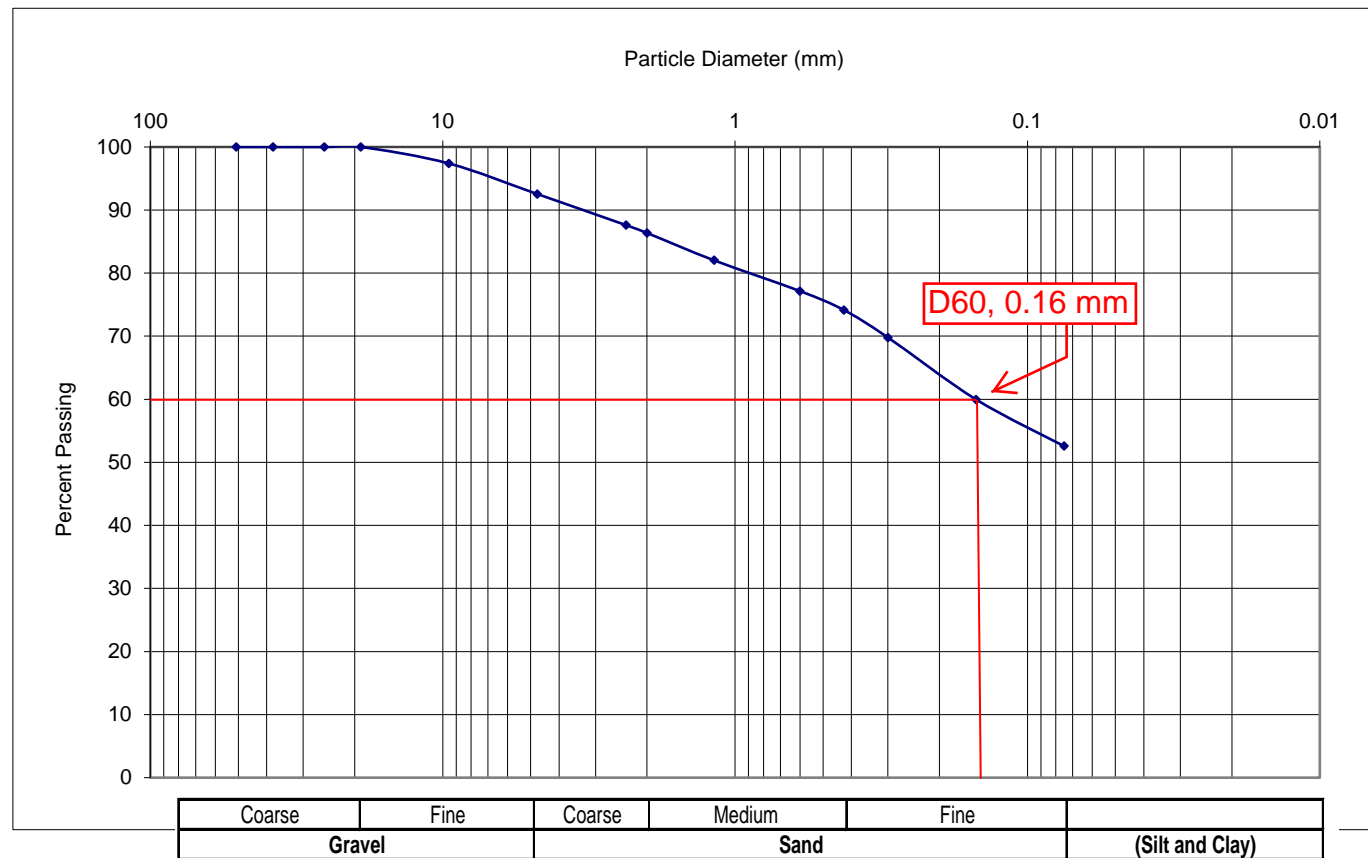
Date: January 19, 2021
 Reported To: Geosyntec

Sample Information

Type of Sample: Split Spoon Sample Number: _____
 Boring Number: PZ-10 Depth of Sample: 29'-30'

Mechanical Analysis Data

Sieve	Sieve Opening (mm)	Percent Passing (%)
2	50.8	100.0
1 1/2	38.1	100.0
1	25.4	100.0
3/4	19.05	100.0
3/8	9.525	97.4
#4	4.75	92.5
#8	2.36	87.6
#10	2	86.4
#16	1.18	82.0
#30	0.6	77.2
#40	0.425	74.2
#50	0.3	69.8
#100	0.15	60.0
#200	0.075	52.6



Moisture Content 8.1 %

Remarks: Gravel 7.5 % Sand 40.0 %
Passing #200 Sieve (Silt & Clay) 52.6 %

Performed by: A. Hamberger/ B. Bills

Reviewed by: T Stevens

GESTRA Engineering, Inc.

APPENDIX 4

Groundwater Sample Laboratory Reports Data Validation Reports

Supplemental Site Investigation Report
Milwaukee Die Casting Company Site
4132 North Holton Street
Milwaukee, Wisconsin
WDNR BRRS # 02-41-000023
WDNR FID # 241228240

Analytical Report

Jeremiah Johnson
Geosyntec Consultants
10600 N. Port Washington Rd.
Mequon, WI 53092

October 07, 2020

Work Order: 2010861

RE: Milw Die Cast
CHW8271N

Dear Jeremiah Johnson:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

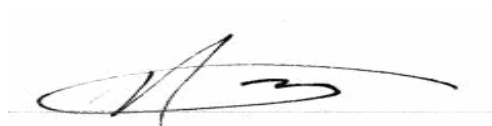
Sincerely,



Nicole Ryan
Federal Project Manager
847.967.6666
nryan@emt.com

Approved for release: 10/7/2020 2:52:29PM

Approved by,



Nathan Fey
Laboratory Operations Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Wisconsin Dept of Natural Resources, Cert No. 999888890

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Sample Summary

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	20I0861-01	Groundwater	09/25/20 12:30	09/28/20 18:15
MW-1	20I0861-02	Groundwater	09/25/20 12:30	09/28/20 18:15
PZ-1	20I0861-03	Groundwater	09/25/20 11:55	09/28/20 18:15
PZ-1	20I0861-04	Groundwater	09/25/20 11:55	09/28/20 18:15
MW-2	20I0861-05	Groundwater	09/24/20 13:40	09/28/20 18:15
MW-2	20I0861-06	Groundwater	09/24/20 13:40	09/28/20 18:15
PZ-2	20I0861-07	Groundwater	09/25/20 08:25	09/28/20 18:15
PZ-2	20I0861-08	Groundwater	09/25/20 08:25	09/28/20 18:15
MW-3	20I0861-09	Groundwater	09/23/20 11:00	09/28/20 18:15
MW-3	20I0861-10	Groundwater	09/23/20 11:00	09/28/20 18:15
MW-3 DUP	20I0861-11	Groundwater	09/23/20 11:00	09/28/20 18:15
MW-3 DUP	20I0861-12	Groundwater	09/23/20 11:00	09/28/20 18:15
MW-4	20I0861-13	Groundwater	09/24/20 09:55	09/28/20 18:15
MW-4	20I0861-14	Groundwater	09/24/20 09:55	09/28/20 18:15
MW-6	20I0861-15	Groundwater	09/25/20 11:05	09/28/20 18:15
MW-6	20I0861-16	Groundwater	09/25/20 11:05	09/28/20 18:15
MW-7	20I0861-17	Groundwater	09/24/20 16:05	09/28/20 18:15
MW-7	20I0861-18	Groundwater	09/24/20 16:05	09/28/20 18:15
MW-8	20I0861-19	Groundwater	09/24/20 09:55	09/28/20 18:15
MW-8	20I0861-20	Groundwater	09/24/20 09:55	09/28/20 18:15
MW-9	20I0861-21	Groundwater	09/24/20 11:55	09/28/20 18:15
MW-9	20I0861-22	Groundwater	09/24/20 11:55	09/28/20 18:15
PZ-10	20I0861-23	Groundwater	09/25/20 08:25	09/28/20 18:15
PZ-10	20I0861-24	Groundwater	09/25/20 08:25	09/28/20 18:15
MW-12	20I0861-25	Groundwater	09/23/20 11:30	09/28/20 18:15
MW-12	20I0861-26	Groundwater	09/23/20 11:30	09/28/20 18:15
MW-12 DUP	20I0861-27	Groundwater	09/23/20 11:30	09/28/20 18:15
MW-12 DUP	20I0861-28	Groundwater	09/23/20 11:30	09/28/20 18:15
MW-13	20I0861-29	Groundwater	09/23/20 14:05	09/28/20 18:15
MW-13	20I0861-30	Groundwater	09/23/20 14:05	09/28/20 18:15
MW-14	20I0861-31	Groundwater	09/23/20 14:35	09/28/20 18:15
MW-14	20I0861-32	Groundwater	09/23/20 14:35	09/28/20 18:15
Trip Blank	20I0861-33	Water	09/23/20 00:00	09/28/20 18:15
Equipment Blank	20I0861-34	Groundwater	09/25/20 00:00	09/28/20 18:15

Case Narrative

Client: Geosyntec Consultants

Date: 10/07/2020

Project: Milw Die Cast
CHW8271N

Work Order: 20I0861

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 20I0861

The samples were received on 09/28/20 18:15. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was:

<u>Cooler</u>	<u>Temp C°</u>
1	3.3
2	1.9
3	4.3
4	4.8
5	4.9
6	3.7
7	4.7

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

GC Semivolatiles

8082A_PCB

20I0861-04: The sample was utilized for MS/MSD purposes. The recovery for 1016 on the MS exceeded control criteria and the RPD calculated above limits. As all other pertinent QC was acceptable, these exceedances would be attributed to matrix.

20I0861-10: The surrogate spike, decachlorobiphenyl recovered above control criteria. This would indicate potential high bias for sample analytes. As the sample had no positive PCB detections, the exceedance did not impact sample data.

GCMS Semivolatiles

8270D_SVOC

20I0861-03: The sample was utilized for MS/MSD purposes. Benzoic acid fell outside recovery criteria. As all other pertinent QC was acceptable, the exceedance would be attributed to sample matrix.

GC-MS Volatiles (SIM)

8260B-p-Dioxane

Sample 20I0861-01 Internal standard recovered just above the lab control limit due to a high non-target matrix interferent that also affected the Toluene-d8 surrogate recovery. The sample would still be below the lab reporting limit if the Internal standard was calculated for true value- even with the potential low bias.

Sample 20I0861-17 Toluene-d8 surrogate recovery was above the lab control limit, potentially due to the sample matrix.

Client Sample Results

Client: Geosyntec Consultants
Project: Milw Die Cast
CHW8271N
Work Order: 20I0861

Client Sample ID: MW-1
Report Date: 10/07/2020
Collection Date: 09/25/2020 12:30
Matrix: Groundwater
Lab ID: 20I0861-01

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Wet Chemistry											
Method: SW9060											
Organic Carbon, Total	3.25	1.00			mg/L	0.400	0.800	10/06/20 18:13	B0J0227	TB2	1
Polychlorinated Biphenyls (PCBs) by GC/ECD											
Method: SW8082A / SW3510											
Aroclor 1016	< 0.515	1.03			ug/L	0.219	0.515	10/01/20 16:22	B0I0902	CS2	1
Aroclor 1221	< 0.515	0.618			ug/L	0.197	0.515	10/01/20 16:22	B0I0902	CS2	1
Aroclor 1232	< 0.515	0.618			ug/L	0.167	0.515	10/01/20 16:22	B0I0902	CS2	1
Aroclor 1242	< 1.03	2.06			ug/L	0.361	1.03	10/01/20 16:22	B0I0902	CS2	1
Aroclor 1248	< 0.515	0.618			ug/L	0.165	0.515	10/01/20 16:22	B0I0902	CS2	1
Aroclor 1254	< 0.515	0.618			ug/L	0.181	0.515	10/01/20 16:22	B0I0902	CS2	1
Aroclor 1260	< 0.309	0.412			ug/L	0.116	0.309	10/01/20 16:22	B0I0902	CS2	1
Total PCB	< 0.515	0.618			ug/L	0.197	0.515	10/01/20 16:22	B0I0902	CS2	1
Surrogate: Decachlorobiphenyl					Recovery: 75%	Limits: 10-139		10/01/20 16:22	B0I0902	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene					Recovery: 54%	Limits: 26-107		10/01/20 16:22	B0I0902	CS2	1
Volatile Organic Compounds by GC/MS											
Method: SW8260B / SW5030											
1,1,1,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.706	2.00	09/29/20 16:15	B0I0944	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00			ug/L	0.719	2.00	09/29/20 16:15	B0I0944	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.713	2.00	09/29/20 16:15	B0I0944	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00			ug/L	0.198	0.600	09/29/20 16:15	B0I0944	WZZ	1
1,1-Dichloroethane	< 2.00	4.00			ug/L	0.691	2.00	09/29/20 16:15	B0I0944	WZZ	1
1,1-Dichloroethene	9.52	8.00			ug/L	1.10	4.00	09/29/20 16:15	B0I0944	WZZ	1
1,1-Dichloropropene	< 1.00	2.00			ug/L	0.462	1.00	09/29/20 16:15	B0I0944	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00			ug/L	0.199	0.600	09/29/20 16:15	B0I0944	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00			ug/L	0.598	2.00	09/29/20 16:15	B0I0944	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00			ug/L	0.753	2.00	09/29/20 16:15	B0I0944	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00			ug/L	1.22	4.00	09/29/20 16:15	B0I0944	WZZ	1
1,2-Dibromoethane	< 1.00	2.00			ug/L	0.420	1.00	09/29/20 16:15	B0I0944	WZZ	1
1,2-Dichloroethane	< 2.00	4.00			ug/L	0.731	2.00	09/29/20 16:15	B0I0944	WZZ	1
1,2-Dichloropropane	< 2.00	4.00			ug/L	0.557	2.00	09/29/20 16:15	B0I0944	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00			ug/L	0.351	1.00	09/29/20 16:15	B0I0944	WZZ	1
1,3-Dichloropropane	< 1.00	2.00			ug/L	0.345	1.00	09/29/20 16:15	B0I0944	WZZ	1
2,2-Dichloropropane	< 4.00	8.00			ug/L	1.03	4.00	09/29/20 16:15	B0I0944	WZZ	1
2-Butanone	< 14.0	28.0			ug/L	4.79	14.0	09/29/20 16:15	B0I0944	WZZ	1
2-Chlorotoluene	< 1.00	2.00			ug/L	0.384	1.00	09/29/20 16:15	B0I0944	WZZ	1
2-Hexanone	< 14.0	28.0			ug/L	4.74	14.0	09/29/20 16:15	B0I0944	WZZ	1
4-Isopropyltoluene	< 2.00	4.00			ug/L	0.930	2.00	09/29/20 16:15	B0I0944	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0			ug/L	4.40	14.0	09/29/20 16:15	B0I0944	WZZ	1
Acetone	< 28.0	70.0	Q, S1		ug/L	9.21	28.0	09/29/20 16:15	B0I0944	WZZ	1
Benzene	< 1.00	2.00			ug/L	0.362	1.00	09/29/20 16:15	B0I0944	WZZ	1
Bromobenzene	< 1.00	2.00			ug/L	0.354	1.00	09/29/20 16:15	B0I0944	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-1
Report Date: 10/07/2020
Collection Date: 09/25/2020 12:30
Matrix: Groundwater
Lab ID: 20I0861-01 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	09/29/20 16:15	B0I0944	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	09/29/20 16:15	B0I0944	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	09/29/20 16:15	B0I0944	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	09/29/20 16:15	B0I0944	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	09/29/20 16:15	B0I0944	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	09/29/20 16:15	B0I0944	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	09/29/20 16:15	B0I0944	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	09/29/20 16:15	B0I0944	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	09/29/20 16:15	B0I0944	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	09/29/20 16:15	B0I0944	WZZ	1
cis-1,2-Dichloroethene	3150	100		ug/L	16.3	50.0	10/01/20 14:20	B0J0079	WZZ	25
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	09/29/20 16:15	B0I0944	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	09/29/20 16:15	B0I0944	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	09/29/20 16:15	B0I0944	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	09/29/20 16:15	B0I0944	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	09/29/20 16:15	B0I0944	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	09/29/20 16:15	B0I0944	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	09/29/20 16:15	B0I0944	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	09/29/20 16:15	B0I0944	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	09/29/20 16:15	B0I0944	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	09/29/20 16:15	B0I0944	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	09/29/20 16:15	B0I0944	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	09/29/20 16:15	B0I0944	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	09/29/20 16:15	B0I0944	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	09/29/20 16:15	B0I0944	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 16:15	B0I0944	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	09/29/20 16:15	B0I0944	WZZ	1
Tetrachloroethene	2230	100		ug/L	16.2	50.0	10/01/20 14:20	B0J0079	WZZ	25
Toluene	< 2.00	4.00		ug/L	0.510	2.00	09/29/20 16:15	B0I0944	WZZ	1
trans-1,2-Dichloroethene	22.2	4.00		ug/L	0.566	2.00	09/29/20 16:15	B0I0944	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 16:15	B0I0944	WZZ	1
Trichloroethene	2580	100		ug/L	23.5	50.0	10/01/20 14:20	B0J0079	WZZ	25
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	09/29/20 16:15	B0I0944	WZZ	1
Vinyl chloride	217	100		ug/L	14.5	50.0	10/01/20 14:20	B0J0079	WZZ	25
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	09/29/20 16:15	B0I0944	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 98%</i>	<i>Limits: 84-137</i>		<i>09/29/20 16:15</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 102%</i>	<i>Limits: 74-140</i>		<i>09/29/20 16:15</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 100%</i>	<i>Limits: 90-105</i>		<i>09/29/20 16:15</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 99%</i>	<i>Limits: 74-109</i>		<i>09/29/20 16:15</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 98%</i>	<i>Limits: 86-128</i>		<i>09/29/20 16:15</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 98%</i>	<i>Limits: 90-128</i>		<i>09/29/20 16:15</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-1
Report Date: 10/07/2020
Collection Date: 09/25/2020 12:30
Matrix: Groundwater
Lab ID: 20I0861-01 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Semivolatile Organic Compounds by GC/MS											
Method: SW8270D / SW3510											
1,2,4-Trichlorobenzene	< 1.05	2.10			ug/L	0.294	1.05	09/30/20 08:08	B0I0881	CP1	1
1,2-Dichlorobenzene	< 1.05	2.10			ug/L	0.315	1.05	09/30/20 08:08	B0I0881	CP1	1
1,3-Dichlorobenzene	< 1.05	2.10			ug/L	0.326	1.05	09/30/20 08:08	B0I0881	CP1	1
1,4-Dichlorobenzene	< 1.05	2.10			ug/L	0.294	1.05	09/30/20 08:08	B0I0881	CP1	1
2,4,5-Trichlorophenol	< 0.526	1.05			ug/L	0.136	0.526	09/30/20 08:08	B0I0881	CP1	1
2,4,6-Trichlorophenol	< 0.526	1.05			ug/L	0.256	0.526	09/30/20 08:08	B0I0881	CP1	1
2,4-Dichlorophenol	< 0.526	1.05			ug/L	0.0829	0.526	09/30/20 08:08	B0I0881	CP1	1
2,4-Dimethylphenol	< 1.05	2.10			ug/L	0.123	1.05	09/30/20 08:08	B0I0881	CP1	1
2,4-Dinitrophenol	< 10.5	31.5			ug/L	3.48	10.5	09/30/20 08:08	B0I0881	CP1	1
2,4-Dinitrotoluene	< 1.05	2.10			ug/L	0.265	1.05	09/30/20 08:08	B0I0881	CP1	1
2,6-Dinitrotoluene	< 0.526	1.05			ug/L	0.242	0.526	09/30/20 08:08	B0I0881	CP1	1
2-Chloronaphthalene	< 0.315	0.631			ug/L	0.111	0.315	09/30/20 08:08	B0I0881	CP1	1
2-Chlorophenol	< 0.526	1.05			ug/L	0.161	0.526	09/30/20 08:08	B0I0881	CP1	1
2-Methylnaphthalene	< 2.10	4.21			ug/L	0.673	2.10	09/30/20 08:08	B0I0881	CP1	1
2-Methylphenol	< 0.526	1.05			ug/L	0.192	0.526	09/30/20 08:08	B0I0881	CP1	1
2-Nitroaniline	< 10.5	31.5			ug/L	2.69	10.5	09/30/20 08:08	B0I0881	CP1	1
2-Nitrophenol	< 0.526	1.05			ug/L	0.220	0.526	09/30/20 08:08	B0I0881	CP1	1
3,3'-Dichlorobenzidine	< 10.5	21.0			ug/L	3.33	10.5	09/30/20 08:08	B0I0881	CP1	1
3 & 4-Methylphenol	< 0.526	1.05			ug/L	0.188	0.526	09/30/20 08:08	B0I0881	CP1	1
3-Nitroaniline	< 1.05	2.10			ug/L	0.378	1.05	09/30/20 08:08	B0I0881	CP1	1
4,6-Dinitro-2-methylphenol	< 5.26	15.8			ug/L	2.58	5.26	09/30/20 08:08	B0I0881	CP1	1
4-Bromophenyl-phenylether	< 0.526	1.05			ug/L	0.168	0.526	09/30/20 08:08	B0I0881	CP1	1
4-Chloro-3-methylphenol	< 0.210	0.526			ug/L	0.0750	0.210	09/30/20 08:08	B0I0881	CP1	1
4-Chloroaniline	< 0.315	0.631			ug/L	0.112	0.315	09/30/20 08:08	B0I0881	CP1	1
4-Chlorophenyl-phenylether	< 0.526	1.05			ug/L	0.153	0.526	09/30/20 08:08	B0I0881	CP1	1
4-Nitroaniline	< 10.5	31.5			ug/L	3.97	10.5	09/30/20 08:08	B0I0881	CP1	1
4-Nitrophenol	< 5.26	15.8			ug/L	1.51	5.26	09/30/20 08:08	B0I0881	CP1	1
Acenaphthene	< 0.315	0.631			ug/L	0.109	0.315	09/30/20 08:08	B0I0881	CP1	1
Acenaphthylene	< 0.315	0.631			ug/L	0.137	0.315	09/30/20 08:08	B0I0881	CP1	1
Anthracene	< 0.315	0.631			ug/L	0.117	0.315	09/30/20 08:08	B0I0881	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.315	1.05			ug/L	0.0806	0.315	09/30/20 08:08	B0I0881	CP1	1
Benzidine	< 42.1	84.1			ug/L	17.4	42.1	09/30/20 08:08	B0I0881	CP1	1
Benzo(a)anthracene	< 0.315	0.631			ug/L	0.130	0.315	09/30/20 08:08	B0I0881	CP1	1
Benzo(a)pyrene	< 1.05	2.10			ug/L	0.395	1.05	09/30/20 08:08	B0I0881	CP1	1
Benzo(b)fluoranthene	< 1.05	2.10			ug/L	0.391	1.05	09/30/20 08:08	B0I0881	CP1	1
Benzo(g,h,i)perylene	< 1.05	2.10			ug/L	0.420	1.05	09/30/20 08:08	B0I0881	CP1	1
Benzo(k)fluoranthene	< 0.526	2.10			ug/L	0.262	0.526	09/30/20 08:08	B0I0881	CP1	1
Benzoic acid	< 25.2	42.1			ug/L	12.3	25.2	09/30/20 08:08	B0I0881	CP1	1
Benzyl alcohol	< 2.10	4.21			ug/L	0.578	2.10	09/30/20 08:08	B0I0881	CP1	1
Bis(2-chloroethoxy)methane	< 0.526	1.05			ug/L	0.142	0.526	09/30/20 08:08	B0I0881	CP1	1
Bis(2-chloroethyl)ether	< 0.526	1.05			ug/L	0.185	0.526	09/30/20 08:08	B0I0881	CP1	1
Bis(2-chloroisopropyl)ether	< 0.526	1.05			ug/L	0.135	0.526	09/30/20 08:08	B0I0881	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.5	21.0			ug/L	3.82	10.5	09/30/20 08:08	B0I0881	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-1
Report Date: 10/07/2020
Collection Date: 09/25/2020 12:30
Matrix: Groundwater
Lab ID: 20I0861-01 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Semivolatile Organic Compounds by GC/MS (Continued)											
Method: SW8270D / SW3510 (Continued)											
Butyl benzyl phthalate	< 0.526	1.05			ug/L	0.246	0.526	09/30/20 08:08	B0I0881	CP1	1
Carbazole	< 0.526	1.05			ug/L	0.182	0.526	09/30/20 08:08	B0I0881	CP1	1
Chrysene	< 0.315	0.631			ug/L	0.133	0.315	09/30/20 08:08	B0I0881	CP1	1
Dibenzo(a,h)anthracene	< 1.05	2.10			ug/L	0.465	1.05	09/30/20 08:08	B0I0881	CP1	1
Dibenzofuran	< 0.315	0.631			ug/L	0.129	0.315	09/30/20 08:08	B0I0881	CP1	1
Diethyl phthalate	< 3.15	6.31			ug/L	1.22	3.15	09/30/20 08:08	B0I0881	CP1	1
Dimethyl phthalate	< 0.315	0.631			ug/L	0.0928	0.315	09/30/20 08:08	B0I0881	CP1	1
Di-n-butyl phthalate	< 6.31	10.5			ug/L	3.03	6.31	09/30/20 08:08	B0I0881	CP1	1
Di-n-octyl phthalate	< 5.26	10.5			ug/L	1.99	5.26	09/30/20 08:08	B0I0881	CP1	1
Fluoranthene	< 0.526	1.05			ug/L	0.206	0.526	09/30/20 08:08	B0I0881	CP1	1
Fluorene	< 0.315	0.631			ug/L	0.130	0.315	09/30/20 08:08	B0I0881	CP1	1
Hexachlorobenzene	< 0.526	1.05			ug/L	0.173	0.526	09/30/20 08:08	B0I0881	CP1	1
Hexachlorobutadiene	< 0.526	1.05			ug/L	0.263	0.526	09/30/20 08:08	B0I0881	CP1	1
Hexachlorocyclopentadiene	< 5.26	15.8			ug/L	2.30	5.26	09/30/20 08:08	B0I0881	CP1	1
Hexachloroethane	< 0.526	1.05			ug/L	0.231	0.526	09/30/20 08:08	B0I0881	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.05	2.10			ug/L	0.528	1.05	09/30/20 08:08	B0I0881	CP1	1
Isophorone	< 0.315	0.631			ug/L	0.116	0.315	09/30/20 08:08	B0I0881	CP1	1
Naphthalene	< 2.10	4.21			ug/L	0.858	2.10	09/30/20 08:08	B0I0881	CP1	1
Nitrobenzene	< 0.315	0.631			ug/L	0.147	0.315	09/30/20 08:08	B0I0881	CP1	1
N-Nitrosodimethylamine	< 0.526	1.05			ug/L	0.164	0.526	09/30/20 08:08	B0I0881	CP1	1
N-Nitrosodi-n-propylamine	< 1.05	2.10			ug/L	0.335	1.05	09/30/20 08:08	B0I0881	CP1	1
N-Nitrosodiphenylamine	< 0.315	0.631			ug/L	0.109	0.315	09/30/20 08:08	B0I0881	CP1	1
Pentachlorophenol	< 10.5	31.5			ug/L	2.65	10.5	09/30/20 08:08	B0I0881	CP1	1
Phenanthrene	< 0.526	1.05			ug/L	0.217	0.526	09/30/20 08:08	B0I0881	CP1	1
Phenol	< 0.526	1.05			ug/L	0.179	0.526	09/30/20 08:08	B0I0881	CP1	1
Pyrene	< 0.526	1.05			ug/L	0.219	0.526	09/30/20 08:08	B0I0881	CP1	1
<i>Surrogate: 2-Fluorophenol</i>					<i>Recovery: 43%</i>	<i>Limits: 10-88</i>		<i>09/30/20 08:08</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Phenol-d5</i>					<i>Recovery: 34%</i>	<i>Limits: 10-65</i>		<i>09/30/20 08:08</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Nitrobenzene-d5</i>					<i>Recovery: 65%</i>	<i>Limits: 25-128</i>		<i>09/30/20 08:08</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2-Fluorobiphenyl</i>					<i>Recovery: 62%</i>	<i>Limits: 24-114</i>		<i>09/30/20 08:08</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>					<i>Recovery: 71%</i>	<i>Limits: 15-119</i>		<i>09/30/20 08:08</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 4-Terphenyl-d14</i>					<i>Recovery: 86%</i>	<i>Limits: 29-129</i>		<i>09/30/20 08:08</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>

Subcontracted Analyses**Method: SW8260-SIM Modified / SW5030**

1,4-Dioxane	< 0.200	0.500			ug/L	0.0625	0.200	10/02/20 17:45	B0J0077	CP1	1
<i>Surrogate: Toluene-d8</i>					<i>S</i>	<i>Recovery: 52%</i>	<i>Limits: 80-120</i>	<i>10/02/20 17:45</i>	<i>B0J0077</i>	<i>CP1</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-1
Report Date: 10/07/2020
Collection Date: 09/25/2020 12:30
Matrix: Groundwater
Lab ID: 20I0861-02

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit										
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.531	1.06			ug/L	0.226	0.531	10/01/20 16:22	B0I0905	CS2	1	
Aroclor 1221	< 0.531	0.638			ug/L	0.204	0.531	10/01/20 16:22	B0I0905	CS2	1	
Aroclor 1232	< 0.531	0.638			ug/L	0.172	0.531	10/01/20 16:22	B0I0905	CS2	1	
Aroclor 1242	< 1.06	2.13			ug/L	0.372	1.06	10/01/20 16:22	B0I0905	CS2	1	
Aroclor 1248	< 0.531	0.638			ug/L	0.170	0.531	10/01/20 16:22	B0I0905	CS2	1	
Aroclor 1254	< 0.531	0.638			ug/L	0.187	0.531	10/01/20 16:22	B0I0905	CS2	1	
Aroclor 1260	< 0.319	0.425			ug/L	0.119	0.319	10/01/20 16:22	B0I0905	CS2	1	
Total PCB	< 0.531	0.638			ug/L	0.204	0.531	10/01/20 16:22	B0I0905	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 88%		Limits: 10-139		10/01/20 16:22	B0I0905	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 67%		Limits: 26-107		10/01/20 16:22	B0I0905	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: PZ-1
Report Date: 10/07/2020
Collection Date: 09/25/2020 11:55
Matrix: Groundwater
Lab ID: 20I0861-03

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	3.92	5.00 Q, S1, J		mg/L	2.00	4.00	10/06/20 18:31	B0J0227	TB2	5
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3510										
Aroclor 1016	< 0.519	1.04		ug/L	0.220	0.519	09/30/20 17:24	B0I0902	CS2	1
Aroclor 1221	< 0.519	0.623		ug/L	0.199	0.519	09/30/20 17:24	B0I0902	CS2	1
Aroclor 1232	< 0.519	0.623		ug/L	0.168	0.519	09/30/20 17:24	B0I0902	CS2	1
Aroclor 1242	< 1.04	2.08		ug/L	0.364	1.04	09/30/20 17:24	B0I0902	CS2	1
Aroclor 1248	< 0.519	0.623		ug/L	0.166	0.519	09/30/20 17:24	B0I0902	CS2	1
Aroclor 1254	< 0.519	0.623		ug/L	0.182	0.519	09/30/20 17:24	B0I0902	CS2	1
Aroclor 1260	< 0.311	0.415		ug/L	0.116	0.311	09/30/20 17:24	B0I0902	CS2	1
Total PCB	< 0.519	0.623		ug/L	0.199	0.519	09/30/20 17:24	B0I0902	CS2	1
Surrogate: Decachlorobiphenyl				Recovery: 70%	Limits: 10-139		09/30/20 17:24	B0I0902	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				Recovery: 44%	Limits: 26-107		09/30/20 17:24	B0I0902	CS2	1
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.706	2.00	09/29/20 16:41	B0I0944	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00		ug/L	0.719	2.00	09/29/20 16:41	B0I0944	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.713	2.00	09/29/20 16:41	B0I0944	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00		ug/L	0.198	0.600	09/29/20 16:41	B0I0944	WZZ	1
1,1-Dichloroethane	< 2.00	4.00		ug/L	0.691	2.00	09/29/20 16:41	B0I0944	WZZ	1
1,1-Dichloroethene	< 4.00	8.00		ug/L	1.10	4.00	09/29/20 16:41	B0I0944	WZZ	1
1,1-Dichloropropene	< 1.00	2.00		ug/L	0.462	1.00	09/29/20 16:41	B0I0944	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00		ug/L	0.199	0.600	09/29/20 16:41	B0I0944	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00		ug/L	0.598	2.00	09/29/20 16:41	B0I0944	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00		ug/L	0.753	2.00	09/29/20 16:41	B0I0944	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00		ug/L	1.22	4.00	09/29/20 16:41	B0I0944	WZZ	1
1,2-Dibromoethane	< 1.00	2.00		ug/L	0.420	1.00	09/29/20 16:41	B0I0944	WZZ	1
1,2-Dichloroethane	< 2.00	4.00		ug/L	0.731	2.00	09/29/20 16:41	B0I0944	WZZ	1
1,2-Dichloropropane	< 2.00	4.00		ug/L	0.557	2.00	09/29/20 16:41	B0I0944	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00		ug/L	0.351	1.00	09/29/20 16:41	B0I0944	WZZ	1
1,3-Dichloropropane	< 1.00	2.00		ug/L	0.345	1.00	09/29/20 16:41	B0I0944	WZZ	1
2,2-Dichloropropane	< 4.00	8.00		ug/L	1.03	4.00	09/29/20 16:41	B0I0944	WZZ	1
2-Butanone	< 14.0	28.0		ug/L	4.79	14.0	09/29/20 16:41	B0I0944	WZZ	1
2-Chlorotoluene	< 1.00	2.00		ug/L	0.384	1.00	09/29/20 16:41	B0I0944	WZZ	1
2-Hexanone	< 14.0	28.0		ug/L	4.74	14.0	09/29/20 16:41	B0I0944	WZZ	1
4-Isopropyltoluene	< 2.00	4.00		ug/L	0.930	2.00	09/29/20 16:41	B0I0944	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0		ug/L	4.40	14.0	09/29/20 16:41	B0I0944	WZZ	1
Acetone	< 28.0	70.0 Q, S1		ug/L	9.21	28.0	09/29/20 16:41	B0I0944	WZZ	1
Benzene	< 1.00	2.00		ug/L	0.362	1.00	09/29/20 16:41	B0I0944	WZZ	1
Bromobenzene	< 1.00	2.00		ug/L	0.354	1.00	09/29/20 16:41	B0I0944	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: PZ-1
Report Date: 10/07/2020
Collection Date: 09/25/2020 11:55
Matrix: Groundwater
Lab ID: 20I0861-03 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	09/29/20 16:41	B0I0944	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	09/29/20 16:41	B0I0944	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	09/29/20 16:41	B0I0944	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	09/29/20 16:41	B0I0944	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	09/29/20 16:41	B0I0944	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	09/29/20 16:41	B0I0944	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	09/29/20 16:41	B0I0944	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	09/29/20 16:41	B0I0944	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	09/29/20 16:41	B0I0944	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	09/29/20 16:41	B0I0944	WZZ	1
cis-1,2-Dichloroethene	128	4.00	J1	ug/L	0.652	2.00	09/29/20 16:41	B0I0944	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	09/29/20 16:41	B0I0944	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	09/29/20 16:41	B0I0944	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	09/29/20 16:41	B0I0944	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	09/29/20 16:41	B0I0944	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	09/29/20 16:41	B0I0944	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	09/29/20 16:41	B0I0944	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	09/29/20 16:41	B0I0944	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	09/29/20 16:41	B0I0944	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	09/29/20 16:41	B0I0944	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	09/29/20 16:41	B0I0944	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	09/29/20 16:41	B0I0944	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	09/29/20 16:41	B0I0944	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	09/29/20 16:41	B0I0944	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	09/29/20 16:41	B0I0944	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 16:41	B0I0944	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	09/29/20 16:41	B0I0944	WZZ	1
Tetrachloroethene	325	8.00		ug/L	1.29	4.00	10/01/20 13:51	B0J0079	WZZ	2
Toluene	< 2.00	4.00		ug/L	0.510	2.00	09/29/20 16:41	B0I0944	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	09/29/20 16:41	B0I0944	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 16:41	B0I0944	WZZ	1
Trichloroethene	109	4.00		ug/L	0.939	2.00	09/29/20 16:41	B0I0944	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	09/29/20 16:41	B0I0944	WZZ	1
Vinyl chloride	10.9	4.00		ug/L	0.582	2.00	09/29/20 16:41	B0I0944	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	09/29/20 16:41	B0I0944	WZZ	1

Surrogate: Dibromofluoromethane	Recovery: 103%	Limits: 84-137	09/29/20 16:41	B0I0944	WZZ	1
Surrogate: 1,2-Dichloroethane-d4	Recovery: 108%	Limits: 74-140	09/29/20 16:41	B0I0944	WZZ	1
Surrogate: Fluorobenzene	Recovery: 101%	Limits: 90-105	09/29/20 16:41	B0I0944	WZZ	1
Surrogate: Toluene-d8	Recovery: 98%	Limits: 74-109	09/29/20 16:41	B0I0944	WZZ	1
Surrogate: 4-Bromofluorobenzene	Recovery: 101%	Limits: 86-128	09/29/20 16:41	B0I0944	WZZ	1
Surrogate: 1,2-Dichlorobenzene-d4	Recovery: 99%	Limits: 90-128	09/29/20 16:41	B0I0944	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: PZ-1
Report Date: 10/07/2020
Collection Date: 09/25/2020 11:55
Matrix: Groundwater
Lab ID: 20I0861-03 (Continued)

Analyses	Result	EMT		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Reporting Limit	Qual							
Semivolatile Organic Compounds by GC/MS										
Method: SW8270D / SW3510										
1,2,4-Trichlorobenzene	< 1.12	2.24		ug/L	0.313	1.12	09/30/20 07:05	B0I0881	CP1	1
1,2-Dichlorobenzene	< 1.12	2.24		ug/L	0.335	1.12	09/30/20 07:05	B0I0881	CP1	1
1,3-Dichlorobenzene	< 1.12	2.24		ug/L	0.346	1.12	09/30/20 07:05	B0I0881	CP1	1
1,4-Dichlorobenzene	< 1.12	2.24		ug/L	0.313	1.12	09/30/20 07:05	B0I0881	CP1	1
2,4,5-Trichlorophenol	< 0.559	1.12		ug/L	0.145	0.559	09/30/20 07:05	B0I0881	CP1	1
2,4,6-Trichlorophenol	< 0.559	1.12		ug/L	0.272	0.559	09/30/20 07:05	B0I0881	CP1	1
2,4-Dichlorophenol	< 0.559	1.12		ug/L	0.0881	0.559	09/30/20 07:05	B0I0881	CP1	1
2,4-Dimethylphenol	< 1.12	2.24		ug/L	0.131	1.12	09/30/20 07:05	B0I0881	CP1	1
2,4-Dinitrophenol	< 11.2	33.5		ug/L	3.70	11.2	09/30/20 07:05	B0I0881	CP1	1
2,4-Dinitrotoluene	< 1.12	2.24		ug/L	0.282	1.12	09/30/20 07:05	B0I0881	CP1	1
2,6-Dinitrotoluene	< 0.559	1.12		ug/L	0.257	0.559	09/30/20 07:05	B0I0881	CP1	1
2-Chloronaphthalene	< 0.335	0.671		ug/L	0.118	0.335	09/30/20 07:05	B0I0881	CP1	1
2-Chlorophenol	< 0.559	1.12		ug/L	0.171	0.559	09/30/20 07:05	B0I0881	CP1	1
2-Methylnaphthalene	< 2.24	4.47		ug/L	0.715	2.24	09/30/20 07:05	B0I0881	CP1	1
2-Methylphenol	< 0.559	1.12		ug/L	0.204	0.559	09/30/20 07:05	B0I0881	CP1	1
2-Nitroaniline	< 11.2	33.5		ug/L	2.86	11.2	09/30/20 07:05	B0I0881	CP1	1
2-Nitrophenol	< 0.559	1.12		ug/L	0.234	0.559	09/30/20 07:05	B0I0881	CP1	1
3,3'-Dichlorobenzidine	< 11.2	22.4		ug/L	3.54	11.2	09/30/20 07:05	B0I0881	CP1	1
3 & 4-Methylphenol	< 0.559	1.12		ug/L	0.200	0.559	09/30/20 07:05	B0I0881	CP1	1
3-Nitroaniline	< 1.12	2.24		ug/L	0.402	1.12	09/30/20 07:05	B0I0881	CP1	1
4,6-Dinitro-2-methylphenol	< 5.59	16.8		ug/L	2.74	5.59	09/30/20 07:05	B0I0881	CP1	1
4-Bromophenyl-phenylether	< 0.559	1.12		ug/L	0.179	0.559	09/30/20 07:05	B0I0881	CP1	1
4-Chloro-3-methylphenol	< 0.224	0.559		ug/L	0.0797	0.224	09/30/20 07:05	B0I0881	CP1	1
4-Chloroaniline	< 0.335	0.671		ug/L	0.119	0.335	09/30/20 07:05	B0I0881	CP1	1
4-Chlorophenyl-phenylether	< 0.559	1.12		ug/L	0.163	0.559	09/30/20 07:05	B0I0881	CP1	1
4-Nitroaniline	< 11.2	33.5		ug/L	4.22	11.2	09/30/20 07:05	B0I0881	CP1	1
4-Nitrophenol	< 5.59	16.8		ug/L	1.61	5.59	09/30/20 07:05	B0I0881	CP1	1
Acenaphthene	< 0.335	0.671		ug/L	0.116	0.335	09/30/20 07:05	B0I0881	CP1	1
Acenaphthylene	< 0.335	0.671		ug/L	0.145	0.335	09/30/20 07:05	B0I0881	CP1	1
Anthracene	< 0.335	0.671		ug/L	0.125	0.335	09/30/20 07:05	B0I0881	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.335	1.12		ug/L	0.0857	0.335	09/30/20 07:05	B0I0881	CP1	1
Benzidine	< 44.7	89.4		ug/L	18.5	44.7	09/30/20 07:05	B0I0881	CP1	1
Benzo(a)anthracene	< 0.335	0.671		ug/L	0.138	0.335	09/30/20 07:05	B0I0881	CP1	1
Benzo(a)pyrene	< 1.12	2.24		ug/L	0.420	1.12	09/30/20 07:05	B0I0881	CP1	1
Benzo(b)fluoranthene	< 1.12	2.24		ug/L	0.416	1.12	09/30/20 07:05	B0I0881	CP1	1
Benzo(g,h,i)perylene	< 1.12	2.24		ug/L	0.446	1.12	09/30/20 07:05	B0I0881	CP1	1
Benzo(k)fluoranthene	< 0.559	2.24		ug/L	0.278	0.559	09/30/20 07:05	B0I0881	CP1	1
Benzoic acid	< 26.8	44.7	J2	ug/L	13.1	26.8	09/30/20 07:05	B0I0881	CP1	1
Benzyl alcohol	< 2.24	4.47		ug/L	0.615	2.24	09/30/20 07:05	B0I0881	CP1	1
Bis(2-chloroethoxy)methane	< 0.559	1.12		ug/L	0.151	0.559	09/30/20 07:05	B0I0881	CP1	1
Bis(2-chloroethyl)ether	< 0.559	1.12		ug/L	0.197	0.559	09/30/20 07:05	B0I0881	CP1	1
Bis(2-chloroisopropyl)ether	< 0.559	1.12		ug/L	0.143	0.559	09/30/20 07:05	B0I0881	CP1	1
Bis(2-ethylhexyl)phthalate	< 11.2	22.4		ug/L	4.06	11.2	09/30/20 07:05	B0I0881	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: PZ-1
Report Date: 10/07/2020
Collection Date: 09/25/2020 11:55
Matrix: Groundwater
Lab ID: 20I0861-03 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit									
Semivolatile Organic Compounds by GC/MS (Continued)											
Method: SW8270D / SW3510 (Continued)											
Butyl benzyl phthalate	< 0.559	1.12			ug/L	0.262	0.559	09/30/20 07:05	B0I0881	CP1	1
Carbazole	< 0.559	1.12			ug/L	0.193	0.559	09/30/20 07:05	B0I0881	CP1	1
Chrysene	< 0.335	0.671			ug/L	0.142	0.335	09/30/20 07:05	B0I0881	CP1	1
Dibenzo(a,h)anthracene	< 1.12	2.24			ug/L	0.494	1.12	09/30/20 07:05	B0I0881	CP1	1
Dibenzofuran	< 0.335	0.671			ug/L	0.137	0.335	09/30/20 07:05	B0I0881	CP1	1
Diethyl phthalate	< 3.35	6.71			ug/L	1.30	3.35	09/30/20 07:05	B0I0881	CP1	1
Dimethyl phthalate	< 0.335	0.671			ug/L	0.0987	0.335	09/30/20 07:05	B0I0881	CP1	1
Di-n-butyl phthalate	< 6.71	11.2			ug/L	3.22	6.71	09/30/20 07:05	B0I0881	CP1	1
Di-n-octyl phthalate	< 5.59	11.2			ug/L	2.11	5.59	09/30/20 07:05	B0I0881	CP1	1
Fluoranthene	< 0.559	1.12			ug/L	0.219	0.559	09/30/20 07:05	B0I0881	CP1	1
Fluorene	< 0.335	0.671			ug/L	0.138	0.335	09/30/20 07:05	B0I0881	CP1	1
Hexachlorobenzene	< 0.559	1.12			ug/L	0.184	0.559	09/30/20 07:05	B0I0881	CP1	1
Hexachlorobutadiene	< 0.559	1.12			ug/L	0.279	0.559	09/30/20 07:05	B0I0881	CP1	1
Hexachlorocyclopentadiene	< 5.59	16.8			ug/L	2.44	5.59	09/30/20 07:05	B0I0881	CP1	1
Hexachloroethane	< 0.559	1.12			ug/L	0.246	0.559	09/30/20 07:05	B0I0881	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.12	2.24			ug/L	0.562	1.12	09/30/20 07:05	B0I0881	CP1	1
Isophorone	< 0.335	0.671			ug/L	0.123	0.335	09/30/20 07:05	B0I0881	CP1	1
Naphthalene	< 2.24	4.47			ug/L	0.912	2.24	09/30/20 07:05	B0I0881	CP1	1
Nitrobenzene	< 0.335	0.671			ug/L	0.156	0.335	09/30/20 07:05	B0I0881	CP1	1
N-Nitrosodimethylamine	< 0.559	1.12			ug/L	0.174	0.559	09/30/20 07:05	B0I0881	CP1	1
N-Nitrosodi-n-propylamine	< 1.12	2.24			ug/L	0.356	1.12	09/30/20 07:05	B0I0881	CP1	1
N-Nitrosodiphenylamine	< 0.335	0.671			ug/L	0.116	0.335	09/30/20 07:05	B0I0881	CP1	1
Pentachlorophenol	< 11.2	33.5			ug/L	2.82	11.2	09/30/20 07:05	B0I0881	CP1	1
Phenanthrene	< 0.559	1.12			ug/L	0.230	0.559	09/30/20 07:05	B0I0881	CP1	1
Phenol	< 0.559	1.12			ug/L	0.191	0.559	09/30/20 07:05	B0I0881	CP1	1
Pyrene	< 0.559	1.12			ug/L	0.232	0.559	09/30/20 07:05	B0I0881	CP1	1
<i>Surrogate: 2-Fluorophenol</i>					<i>Recovery: 48%</i>	<i>Limits: 10-88</i>		<i>09/30/20 07:05</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Phenol-d5</i>					<i>Recovery: 38%</i>	<i>Limits: 10-65</i>		<i>09/30/20 07:05</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Nitrobenzene-d5</i>					<i>Recovery: 62%</i>	<i>Limits: 25-128</i>		<i>09/30/20 07:05</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2-Fluorobiphenyl</i>					<i>Recovery: 62%</i>	<i>Limits: 24-114</i>		<i>09/30/20 07:05</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>					<i>Recovery: 73%</i>	<i>Limits: 15-119</i>		<i>09/30/20 07:05</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 4-Terphenyl-d14</i>					<i>Recovery: 90%</i>	<i>Limits: 29-129</i>		<i>09/30/20 07:05</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>

Subcontracted Analyses**Method: SW8260-SIM Modified / SW5030**

1,4-Dioxane	< 0.200	0.500			ug/L	0.0625	0.200	10/02/20 12:05	B0J0077	CP1	1
<i>Surrogate: Toluene-d8</i>					<i>Recovery: 106%</i>	<i>Limits: 80-120</i>		<i>10/02/20 12:05</i>	<i>B0J0077</i>	<i>CP1</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: PZ-1
Report Date: 10/07/2020
Collection Date: 09/25/2020 11:55
Matrix: Groundwater
Lab ID: 20I0861-04

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit									
Polychlorinated Biphenyls (PCBs) by GC/ECD											
Method: SW8082A / SW3510											
Aroclor 1016	< 0.510	1.02	J2	ug/L	0.217	0.510	09/30/20 17:41	B0I0905	CS2	1	
Aroclor 1221	< 0.510	0.612		ug/L	0.195	0.510	09/30/20 17:41	B0I0905	CS2	1	
Aroclor 1232	< 0.510	0.612		ug/L	0.165	0.510	09/30/20 17:41	B0I0905	CS2	1	
Aroclor 1242	< 1.02	2.04		ug/L	0.358	1.02	09/30/20 17:41	B0I0905	CS2	1	
Aroclor 1248	< 0.510	0.612		ug/L	0.163	0.510	09/30/20 17:41	B0I0905	CS2	1	
Aroclor 1254	< 0.510	0.612		ug/L	0.179	0.510	09/30/20 17:41	B0I0905	CS2	1	
Aroclor 1260	< 0.306	0.408		ug/L	0.115	0.306	09/30/20 17:41	B0I0905	CS2	1	
Total PCB	< 0.510	0.612		ug/L	0.195	0.510	09/30/20 17:41	B0I0905	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>				Recovery: 76%		Limits: 10-139		09/30/20 17:41	B0I0905	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>				Recovery: 64%		Limits: 26-107		09/30/20 17:41	B0I0905	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-2
Report Date: 10/07/2020
Collection Date: 09/24/2020 13:40
Matrix: Groundwater
Lab ID: 20I0861-05

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Limit									
Wet Chemistry												
Method: SW9060												
Organic Carbon, Total	1.93	1.00			mg/L	0.400	0.800	10/06/20 19:34	B0J0227	TB2	1	
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.540	1.08			ug/L	0.229	0.540	09/30/20 17:41	B0I0902	CS2	1	
Aroclor 1221	< 0.540	0.648			ug/L	0.207	0.540	09/30/20 17:41	B0I0902	CS2	1	
Aroclor 1232	< 0.540	0.648			ug/L	0.175	0.540	09/30/20 17:41	B0I0902	CS2	1	
Aroclor 1242	< 1.08	2.16			ug/L	0.378	1.08	09/30/20 17:41	B0I0902	CS2	1	
Aroclor 1248	< 0.540	0.648			ug/L	0.173	0.540	09/30/20 17:41	B0I0902	CS2	1	
Aroclor 1254	< 0.540	0.648			ug/L	0.190	0.540	09/30/20 17:41	B0I0902	CS2	1	
Aroclor 1260	< 0.324	0.432			ug/L	0.121	0.324	09/30/20 17:41	B0I0902	CS2	1	
Total PCB	< 0.540	0.648			ug/L	0.207	0.540	09/30/20 17:41	B0I0902	CS2	1	
Surrogate: Decachlorobiphenyl					Recovery: 83%		Limits: 10-139		09/30/20 17:41	B0I0902	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene					Recovery: 68%		Limits: 26-107		09/30/20 17:41	B0I0902	CS2	1
Volatile Organic Compounds by GC/MS												
Method: SW8260B / SW5030												
1,1,1,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.706	2.00	09/29/20 17:07	B0I0944	WZZ	1	
1,1,1-Trichloroethane	< 2.00	4.00			ug/L	0.719	2.00	09/29/20 17:07	B0I0944	WZZ	1	
1,1,2,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.713	2.00	09/29/20 17:07	B0I0944	WZZ	1	
1,1,2-Trichloroethane	< 0.600	2.00			ug/L	0.198	0.600	09/29/20 17:07	B0I0944	WZZ	1	
1,1-Dichloroethane	< 2.00	4.00			ug/L	0.691	2.00	09/29/20 17:07	B0I0944	WZZ	1	
1,1-Dichloroethene	< 4.00	8.00			ug/L	1.10	4.00	09/29/20 17:07	B0I0944	WZZ	1	
1,1-Dichloropropene	< 1.00	2.00			ug/L	0.462	1.00	09/29/20 17:07	B0I0944	WZZ	1	
1,2,3-Trichlorobenzene	< 0.600	2.00			ug/L	0.199	0.600	09/29/20 17:07	B0I0944	WZZ	1	
1,2,3-Trichloropropane	< 2.00	4.00			ug/L	0.598	2.00	09/29/20 17:07	B0I0944	WZZ	1	
1,2,4-Trimethylbenzene	< 2.00	4.00			ug/L	0.753	2.00	09/29/20 17:07	B0I0944	WZZ	1	
1,2-Dibromo-3-chloropropane	< 4.00	8.00			ug/L	1.22	4.00	09/29/20 17:07	B0I0944	WZZ	1	
1,2-Dibromoethane	< 1.00	2.00			ug/L	0.420	1.00	09/29/20 17:07	B0I0944	WZZ	1	
1,2-Dichloroethane	< 2.00	4.00			ug/L	0.731	2.00	09/29/20 17:07	B0I0944	WZZ	1	
1,2-Dichloropropane	< 2.00	4.00			ug/L	0.557	2.00	09/29/20 17:07	B0I0944	WZZ	1	
1,3,5-Trimethylbenzene	< 1.00	2.00			ug/L	0.351	1.00	09/29/20 17:07	B0I0944	WZZ	1	
1,3-Dichloropropane	< 1.00	2.00			ug/L	0.345	1.00	09/29/20 17:07	B0I0944	WZZ	1	
2,2-Dichloropropane	< 4.00	8.00			ug/L	1.03	4.00	09/29/20 17:07	B0I0944	WZZ	1	
2-Butanone	< 14.0	28.0			ug/L	4.79	14.0	09/29/20 17:07	B0I0944	WZZ	1	
2-Chlorotoluene	< 1.00	2.00			ug/L	0.384	1.00	09/29/20 17:07	B0I0944	WZZ	1	
2-Hexanone	< 14.0	28.0			ug/L	4.74	14.0	09/29/20 17:07	B0I0944	WZZ	1	
4-Isopropyltoluene	< 2.00	4.00			ug/L	0.930	2.00	09/29/20 17:07	B0I0944	WZZ	1	
4-Methyl-2-pentanone	< 14.0	28.0			ug/L	4.40	14.0	09/29/20 17:07	B0I0944	WZZ	1	
Acetone	< 28.0	70.0	Q, S1		ug/L	9.21	28.0	09/29/20 17:07	B0I0944	WZZ	1	
Benzene	< 1.00	2.00			ug/L	0.362	1.00	09/29/20 17:07	B0I0944	WZZ	1	
Bromobenzene	< 1.00	2.00			ug/L	0.354	1.00	09/29/20 17:07	B0I0944	WZZ	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-2
Report Date: 10/07/2020
Collection Date: 09/24/2020 13:40
Matrix: Groundwater
Lab ID: 20I0861-05 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	09/29/20 17:07	B0I0944	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	09/29/20 17:07	B0I0944	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	09/29/20 17:07	B0I0944	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	09/29/20 17:07	B0I0944	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	09/29/20 17:07	B0I0944	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	09/29/20 17:07	B0I0944	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	09/29/20 17:07	B0I0944	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	09/29/20 17:07	B0I0944	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	09/29/20 17:07	B0I0944	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	09/29/20 17:07	B0I0944	WZZ	1
cis-1,2-Dichloroethene	4.35	4.00		ug/L	0.652	2.00	09/29/20 17:07	B0I0944	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	09/29/20 17:07	B0I0944	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	09/29/20 17:07	B0I0944	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	09/29/20 17:07	B0I0944	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	09/29/20 17:07	B0I0944	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	09/29/20 17:07	B0I0944	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	09/29/20 17:07	B0I0944	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	09/29/20 17:07	B0I0944	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	09/29/20 17:07	B0I0944	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	09/29/20 17:07	B0I0944	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	09/29/20 17:07	B0I0944	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	09/29/20 17:07	B0I0944	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	09/29/20 17:07	B0I0944	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	09/29/20 17:07	B0I0944	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	09/29/20 17:07	B0I0944	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 17:07	B0I0944	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	09/29/20 17:07	B0I0944	WZZ	1
Tetrachloroethene	5.55	4.00		ug/L	0.646	2.00	09/29/20 17:07	B0I0944	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	09/29/20 17:07	B0I0944	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	09/29/20 17:07	B0I0944	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 17:07	B0I0944	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	09/29/20 17:07	B0I0944	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	09/29/20 17:07	B0I0944	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	09/29/20 17:07	B0I0944	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	09/29/20 17:07	B0I0944	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 98%</i>	<i>Limits: 84-137</i>		<i>09/29/20 17:07</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 100%</i>	<i>Limits: 74-140</i>		<i>09/29/20 17:07</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 101%</i>	<i>Limits: 90-105</i>		<i>09/29/20 17:07</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 101%</i>	<i>Limits: 74-109</i>		<i>09/29/20 17:07</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 95%</i>	<i>Limits: 86-128</i>		<i>09/29/20 17:07</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 97%</i>	<i>Limits: 90-128</i>		<i>09/29/20 17:07</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-2
Report Date: 10/07/2020
Collection Date: 09/24/2020 13:40
Matrix: Groundwater
Lab ID: 20I0861-05 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS										
Method: SW8270D / SW3510										
1,2,4-Trichlorobenzene	< 1.13	2.26		ug/L	0.316	1.13	09/30/20 08:29	B0I0881	CP1	1
1,2-Dichlorobenzene	< 1.13	2.26		ug/L	0.339	1.13	09/30/20 08:29	B0I0881	CP1	1
1,3-Dichlorobenzene	< 1.13	2.26		ug/L	0.350	1.13	09/30/20 08:29	B0I0881	CP1	1
1,4-Dichlorobenzene	< 1.13	2.26		ug/L	0.316	1.13	09/30/20 08:29	B0I0881	CP1	1
2,4,5-Trichlorophenol	< 0.564	1.13		ug/L	0.146	0.564	09/30/20 08:29	B0I0881	CP1	1
2,4,6-Trichlorophenol	< 0.564	1.13		ug/L	0.275	0.564	09/30/20 08:29	B0I0881	CP1	1
2,4-Dichlorophenol	< 0.564	1.13		ug/L	0.0889	0.564	09/30/20 08:29	B0I0881	CP1	1
2,4-Dimethylphenol	< 1.13	2.26		ug/L	0.132	1.13	09/30/20 08:29	B0I0881	CP1	1
2,4-Dinitrophenol	< 11.3	33.9		ug/L	3.73	11.3	09/30/20 08:29	B0I0881	CP1	1
2,4-Dinitrotoluene	< 1.13	2.26		ug/L	0.284	1.13	09/30/20 08:29	B0I0881	CP1	1
2,6-Dinitrotoluene	< 0.564	1.13		ug/L	0.259	0.564	09/30/20 08:29	B0I0881	CP1	1
2-Chloronaphthalene	< 0.339	0.677		ug/L	0.119	0.339	09/30/20 08:29	B0I0881	CP1	1
2-Chlorophenol	< 0.564	1.13		ug/L	0.173	0.564	09/30/20 08:29	B0I0881	CP1	1
2-Methylnaphthalene	< 2.26	4.51		ug/L	0.722	2.26	09/30/20 08:29	B0I0881	CP1	1
2-Methylphenol	< 0.564	1.13		ug/L	0.206	0.564	09/30/20 08:29	B0I0881	CP1	1
2-Nitroaniline	< 11.3	33.9		ug/L	2.89	11.3	09/30/20 08:29	B0I0881	CP1	1
2-Nitrophenol	< 0.564	1.13		ug/L	0.236	0.564	09/30/20 08:29	B0I0881	CP1	1
3,3'-Dichlorobenzidine	< 11.3	22.6		ug/L	3.57	11.3	09/30/20 08:29	B0I0881	CP1	1
3 & 4-Methylphenol	< 0.564	1.13		ug/L	0.202	0.564	09/30/20 08:29	B0I0881	CP1	1
3-Nitroaniline	< 1.13	2.26		ug/L	0.406	1.13	09/30/20 08:29	B0I0881	CP1	1
4,6-Dinitro-2-methylphenol	< 5.64	16.9		ug/L	2.77	5.64	09/30/20 08:29	B0I0881	CP1	1
4-Bromophenyl-phenylether	< 0.564	1.13		ug/L	0.181	0.564	09/30/20 08:29	B0I0881	CP1	1
4-Chloro-3-methylphenol	< 0.226	0.564		ug/L	0.0805	0.226	09/30/20 08:29	B0I0881	CP1	1
4-Chloroaniline	< 0.339	0.677		ug/L	0.121	0.339	09/30/20 08:29	B0I0881	CP1	1
4-Chlorophenyl-phenylether	< 0.564	1.13		ug/L	0.164	0.564	09/30/20 08:29	B0I0881	CP1	1
4-Nitroaniline	< 11.3	33.9		ug/L	4.26	11.3	09/30/20 08:29	B0I0881	CP1	1
4-Nitrophenol	< 5.64	16.9		ug/L	1.62	5.64	09/30/20 08:29	B0I0881	CP1	1
Acenaphthene	< 0.339	0.677		ug/L	0.117	0.339	09/30/20 08:29	B0I0881	CP1	1
Acenaphthylene	< 0.339	0.677		ug/L	0.147	0.339	09/30/20 08:29	B0I0881	CP1	1
Anthracene	< 0.339	0.677		ug/L	0.126	0.339	09/30/20 08:29	B0I0881	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.339	1.13		ug/L	0.0865	0.339	09/30/20 08:29	B0I0881	CP1	1
Benzidine	< 45.1	90.3		ug/L	18.7	45.1	09/30/20 08:29	B0I0881	CP1	1
Benzo(a)anthracene	< 0.339	0.677		ug/L	0.139	0.339	09/30/20 08:29	B0I0881	CP1	1
Benzo(a)pyrene	< 1.13	2.26		ug/L	0.424	1.13	09/30/20 08:29	B0I0881	CP1	1
Benzo(b)fluoranthene	< 1.13	2.26		ug/L	0.420	1.13	09/30/20 08:29	B0I0881	CP1	1
Benzo(g,h,i)perylene	< 1.13	2.26		ug/L	0.451	1.13	09/30/20 08:29	B0I0881	CP1	1
Benzo(k)fluoranthene	< 0.564	2.26		ug/L	0.281	0.564	09/30/20 08:29	B0I0881	CP1	1
Benzoic acid	< 27.1	45.1		ug/L	13.2	27.1	09/30/20 08:29	B0I0881	CP1	1
Benzyl alcohol	< 2.26	4.51		ug/L	0.621	2.26	09/30/20 08:29	B0I0881	CP1	1
Bis(2-chloroethoxy)methane	< 0.564	1.13		ug/L	0.153	0.564	09/30/20 08:29	B0I0881	CP1	1
Bis(2-chloroethyl)ether	< 0.564	1.13		ug/L	0.198	0.564	09/30/20 08:29	B0I0881	CP1	1
Bis(2-chloroisopropyl)ether	< 0.564	1.13		ug/L	0.145	0.564	09/30/20 08:29	B0I0881	CP1	1
Bis(2-ethylhexyl)phthalate	< 11.3	22.6		ug/L	4.10	11.3	09/30/20 08:29	B0I0881	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-2
Report Date: 10/07/2020
Collection Date: 09/24/2020 13:40
Matrix: Groundwater
Lab ID: 20I0861-05 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Semivolatile Organic Compounds by GC/MS (Continued)											
Method: SW8270D / SW3510 (Continued)											
Butyl benzyl phthalate	< 0.564	1.13			ug/L	0.264	0.564	09/30/20 08:29	B0I0881	CP1	1
Carbazole	< 0.564	1.13			ug/L	0.195	0.564	09/30/20 08:29	B0I0881	CP1	1
Chrysene	< 0.339	0.677			ug/L	0.143	0.339	09/30/20 08:29	B0I0881	CP1	1
Dibenzo(a,h)anthracene	< 1.13	2.26			ug/L	0.499	1.13	09/30/20 08:29	B0I0881	CP1	1
Dibenzofuran	< 0.339	0.677			ug/L	0.138	0.339	09/30/20 08:29	B0I0881	CP1	1
Diethyl phthalate	< 3.39	6.77			ug/L	1.31	3.39	09/30/20 08:29	B0I0881	CP1	1
Dimethyl phthalate	< 0.339	0.677			ug/L	0.0996	0.339	09/30/20 08:29	B0I0881	CP1	1
Di-n-butyl phthalate	< 6.77	11.3			ug/L	3.25	6.77	09/30/20 08:29	B0I0881	CP1	1
Di-n-octyl phthalate	< 5.64	11.3			ug/L	2.13	5.64	09/30/20 08:29	B0I0881	CP1	1
Fluoranthene	< 0.564	1.13			ug/L	0.222	0.564	09/30/20 08:29	B0I0881	CP1	1
Fluorene	< 0.339	0.677			ug/L	0.140	0.339	09/30/20 08:29	B0I0881	CP1	1
Hexachlorobenzene	< 0.564	1.13			ug/L	0.186	0.564	09/30/20 08:29	B0I0881	CP1	1
Hexachlorobutadiene	< 0.564	1.13			ug/L	0.282	0.564	09/30/20 08:29	B0I0881	CP1	1
Hexachlorocyclopentadiene	< 5.64	16.9			ug/L	2.47	5.64	09/30/20 08:29	B0I0881	CP1	1
Hexachloroethane	< 0.564	1.13			ug/L	0.248	0.564	09/30/20 08:29	B0I0881	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.13	2.26			ug/L	0.567	1.13	09/30/20 08:29	B0I0881	CP1	1
Isophorone	< 0.339	0.677			ug/L	0.124	0.339	09/30/20 08:29	B0I0881	CP1	1
Naphthalene	< 2.26	4.51			ug/L	0.921	2.26	09/30/20 08:29	B0I0881	CP1	1
Nitrobenzene	< 0.339	0.677			ug/L	0.158	0.339	09/30/20 08:29	B0I0881	CP1	1
N-Nitrosodimethylamine	< 0.564	1.13			ug/L	0.176	0.564	09/30/20 08:29	B0I0881	CP1	1
N-Nitrosodi-n-propylamine	< 1.13	2.26			ug/L	0.360	1.13	09/30/20 08:29	B0I0881	CP1	1
N-Nitrosodiphenylamine	< 0.339	0.677			ug/L	0.117	0.339	09/30/20 08:29	B0I0881	CP1	1
Pentachlorophenol	< 11.3	33.9			ug/L	2.85	11.3	09/30/20 08:29	B0I0881	CP1	1
Phenanthrene	< 0.564	1.13			ug/L	0.232	0.564	09/30/20 08:29	B0I0881	CP1	1
Phenol	< 0.564	1.13			ug/L	0.193	0.564	09/30/20 08:29	B0I0881	CP1	1
Pyrene	< 0.564	1.13			ug/L	0.235	0.564	09/30/20 08:29	B0I0881	CP1	1
<i>Surrogate: 2-Fluorophenol</i>					<i>Recovery: 48%</i>	<i>Limits: 10-88</i>		<i>09/30/20 08:29</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Phenol-d5</i>					<i>Recovery: 35%</i>	<i>Limits: 10-65</i>		<i>09/30/20 08:29</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Nitrobenzene-d5</i>					<i>Recovery: 72%</i>	<i>Limits: 25-128</i>		<i>09/30/20 08:29</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2-Fluorobiphenyl</i>					<i>Recovery: 65%</i>	<i>Limits: 24-114</i>		<i>09/30/20 08:29</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>					<i>Recovery: 76%</i>	<i>Limits: 15-119</i>		<i>09/30/20 08:29</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 4-Terphenyl-d14</i>					<i>Recovery: 95%</i>	<i>Limits: 29-129</i>		<i>09/30/20 08:29</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>

Subcontracted Analyses**Method: SW8260-SIM Modified / SW5030**

1,4-Dioxane	< 0.200	0.500			ug/L	0.0625	0.200	10/02/20 15:19	B0J0077	CP1	1
<i>Surrogate: Toluene-d8</i>					<i>Recovery: 108%</i>	<i>Limits: 80-120</i>		<i>10/02/20 15:19</i>	<i>B0J0077</i>	<i>CP1</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-2
Report Date: 10/07/2020
Collection Date: 09/24/2020 13:40
Matrix: Groundwater
Lab ID: 20I0861-06

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit										
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.529	1.06			ug/L	0.224	0.529	09/30/20 17:58	B0I0905	CS2	1	
Aroclor 1221	< 0.529	0.635			ug/L	0.203	0.529	09/30/20 17:58	B0I0905	CS2	1	
Aroclor 1232	< 0.529	0.635			ug/L	0.171	0.529	09/30/20 17:58	B0I0905	CS2	1	
Aroclor 1242	< 1.06	2.12			ug/L	0.371	1.06	09/30/20 17:58	B0I0905	CS2	1	
Aroclor 1248	< 0.529	0.635			ug/L	0.169	0.529	09/30/20 17:58	B0I0905	CS2	1	
Aroclor 1254	< 0.529	0.635			ug/L	0.186	0.529	09/30/20 17:58	B0I0905	CS2	1	
Aroclor 1260	< 0.317	0.423			ug/L	0.119	0.317	09/30/20 17:58	B0I0905	CS2	1	
Total PCB	< 0.529	0.635			ug/L	0.203	0.529	09/30/20 17:58	B0I0905	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					<i>Recovery: 105%</i>		<i>Limits: 10-139</i>		<i>09/30/20 17:58</i>	<i>B0I0905</i>	<i>CS2</i>	<i>1</i>
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					<i>Recovery: 66%</i>		<i>Limits: 26-107</i>		<i>09/30/20 17:58</i>	<i>B0I0905</i>	<i>CS2</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: PZ-2
Report Date: 10/07/2020
Collection Date: 09/25/2020 08:25
Matrix: Groundwater
Lab ID: 20I0861-07

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	2.98	1.00		mg/L	0.400	0.800	10/06/20 19:55	B0J0227	TB2	1
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3510										
Aroclor 1016	< 0.511	1.02		ug/L	0.217	0.511	10/01/20 16:39	B0I0902	CS2	1
Aroclor 1221	< 0.511	0.613		ug/L	0.196	0.511	10/01/20 16:39	B0I0902	CS2	1
Aroclor 1232	< 0.511	0.613		ug/L	0.166	0.511	10/01/20 16:39	B0I0902	CS2	1
Aroclor 1242	< 1.02	2.04		ug/L	0.358	1.02	10/01/20 16:39	B0I0902	CS2	1
Aroclor 1248	< 0.511	0.613		ug/L	0.163	0.511	10/01/20 16:39	B0I0902	CS2	1
Aroclor 1254	< 0.511	0.613		ug/L	0.179	0.511	10/01/20 16:39	B0I0902	CS2	1
Aroclor 1260	< 0.306	0.408		ug/L	0.115	0.306	10/01/20 16:39	B0I0902	CS2	1
Total PCB	< 0.511	0.613		ug/L	0.196	0.511	10/01/20 16:39	B0I0902	CS2	1
Surrogate: Decachlorobiphenyl				Recovery: 70%	Limits: 10-139		10/01/20 16:39	B0I0902	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				Recovery: 60%	Limits: 26-107		10/01/20 16:39	B0I0902	CS2	1
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.706	2.00	09/29/20 17:32	B0I0944	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00		ug/L	0.719	2.00	09/29/20 17:32	B0I0944	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.713	2.00	09/29/20 17:32	B0I0944	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00		ug/L	0.198	0.600	09/29/20 17:32	B0I0944	WZZ	1
1,1-Dichloroethane	< 2.00	4.00		ug/L	0.691	2.00	09/29/20 17:32	B0I0944	WZZ	1
1,1-Dichloroethene	< 4.00	8.00		ug/L	1.10	4.00	09/29/20 17:32	B0I0944	WZZ	1
1,1-Dichloropropene	< 1.00	2.00		ug/L	0.462	1.00	09/29/20 17:32	B0I0944	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00		ug/L	0.199	0.600	09/29/20 17:32	B0I0944	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00		ug/L	0.598	2.00	09/29/20 17:32	B0I0944	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00		ug/L	0.753	2.00	09/29/20 17:32	B0I0944	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00		ug/L	1.22	4.00	09/29/20 17:32	B0I0944	WZZ	1
1,2-Dibromoethane	< 1.00	2.00		ug/L	0.420	1.00	09/29/20 17:32	B0I0944	WZZ	1
1,2-Dichloroethane	< 2.00	4.00		ug/L	0.731	2.00	09/29/20 17:32	B0I0944	WZZ	1
1,2-Dichloropropane	< 2.00	4.00		ug/L	0.557	2.00	09/29/20 17:32	B0I0944	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00		ug/L	0.351	1.00	09/29/20 17:32	B0I0944	WZZ	1
1,3-Dichloropropane	< 1.00	2.00		ug/L	0.345	1.00	09/29/20 17:32	B0I0944	WZZ	1
2,2-Dichloropropane	< 4.00	8.00		ug/L	1.03	4.00	09/29/20 17:32	B0I0944	WZZ	1
2-Butanone	< 14.0	28.0		ug/L	4.79	14.0	09/29/20 17:32	B0I0944	WZZ	1
2-Chlorotoluene	< 1.00	2.00		ug/L	0.384	1.00	09/29/20 17:32	B0I0944	WZZ	1
2-Hexanone	< 14.0	28.0		ug/L	4.74	14.0	09/29/20 17:32	B0I0944	WZZ	1
4-Isopropyltoluene	< 2.00	4.00		ug/L	0.930	2.00	09/29/20 17:32	B0I0944	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0		ug/L	4.40	14.0	09/29/20 17:32	B0I0944	WZZ	1
Acetone	< 28.0	70.0	Q, S1	ug/L	9.21	28.0	09/29/20 17:32	B0I0944	WZZ	1
Benzene	< 1.00	2.00		ug/L	0.362	1.00	09/29/20 17:32	B0I0944	WZZ	1
Bromobenzene	< 1.00	2.00		ug/L	0.354	1.00	09/29/20 17:32	B0I0944	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: PZ-2
Report Date: 10/07/2020
Collection Date: 09/25/2020 08:25
Matrix: Groundwater
Lab ID: 20I0861-07 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	09/29/20 17:32	B0I0944	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	09/29/20 17:32	B0I0944	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	09/29/20 17:32	B0I0944	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	09/29/20 17:32	B0I0944	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	09/29/20 17:32	B0I0944	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	09/29/20 17:32	B0I0944	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	09/29/20 17:32	B0I0944	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	09/29/20 17:32	B0I0944	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	09/29/20 17:32	B0I0944	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	09/29/20 17:32	B0I0944	WZZ	1
cis-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.652	2.00	09/29/20 17:32	B0I0944	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	09/29/20 17:32	B0I0944	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	09/29/20 17:32	B0I0944	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	09/29/20 17:32	B0I0944	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	09/29/20 17:32	B0I0944	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	09/29/20 17:32	B0I0944	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	09/29/20 17:32	B0I0944	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	09/29/20 17:32	B0I0944	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	09/29/20 17:32	B0I0944	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	09/29/20 17:32	B0I0944	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	09/29/20 17:32	B0I0944	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	09/29/20 17:32	B0I0944	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	09/29/20 17:32	B0I0944	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	09/29/20 17:32	B0I0944	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	09/29/20 17:32	B0I0944	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 17:32	B0I0944	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	09/29/20 17:32	B0I0944	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	09/29/20 17:32	B0I0944	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	09/29/20 17:32	B0I0944	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	09/29/20 17:32	B0I0944	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 17:32	B0I0944	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	09/29/20 17:32	B0I0944	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	09/29/20 17:32	B0I0944	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	09/29/20 17:32	B0I0944	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	09/29/20 17:32	B0I0944	WZZ	1
Surrogate: Dibromofluoromethane				Recovery: 104%	Limits: 84-137		09/29/20 17:32	B0I0944	WZZ	1
Surrogate: 1,2-Dichloroethane-d4				Recovery: 102%	Limits: 74-140		09/29/20 17:32	B0I0944	WZZ	1
Surrogate: Fluorobenzene				Recovery: 100%	Limits: 90-105		09/29/20 17:32	B0I0944	WZZ	1
Surrogate: Toluene-d8				Recovery: 100%	Limits: 74-109		09/29/20 17:32	B0I0944	WZZ	1
Surrogate: 4-Bromofluorobenzene				Recovery: 94%	Limits: 86-128		09/29/20 17:32	B0I0944	WZZ	1
Surrogate: 1,2-Dichlorobenzene-d4				Recovery: 98%	Limits: 90-128		09/29/20 17:32	B0I0944	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: PZ-2
Report Date: 10/07/2020
Collection Date: 09/25/2020 08:25
Matrix: Groundwater
Lab ID: 20I0861-07 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Semivolatile Organic Compounds by GC/MS											
Method: SW8270D / SW3510											
1,2,4-Trichlorobenzene	< 1.04	2.07			ug/L	0.290	1.04	09/30/20 08:50	B0I0881	CP1	1
1,2-Dichlorobenzene	< 1.04	2.07			ug/L	0.311	1.04	09/30/20 08:50	B0I0881	CP1	1
1,3-Dichlorobenzene	< 1.04	2.07			ug/L	0.321	1.04	09/30/20 08:50	B0I0881	CP1	1
1,4-Dichlorobenzene	< 1.04	2.07			ug/L	0.290	1.04	09/30/20 08:50	B0I0881	CP1	1
2,4,5-Trichlorophenol	< 0.518	1.04			ug/L	0.134	0.518	09/30/20 08:50	B0I0881	CP1	1
2,4,6-Trichlorophenol	< 0.518	1.04			ug/L	0.252	0.518	09/30/20 08:50	B0I0881	CP1	1
2,4-Dichlorophenol	< 0.518	1.04			ug/L	0.0816	0.518	09/30/20 08:50	B0I0881	CP1	1
2,4-Dimethylphenol	< 1.04	2.07			ug/L	0.122	1.04	09/30/20 08:50	B0I0881	CP1	1
2,4-Dinitrophenol	< 10.4	31.1			ug/L	3.43	10.4	09/30/20 08:50	B0I0881	CP1	1
2,4-Dinitrotoluene	< 1.04	2.07			ug/L	0.261	1.04	09/30/20 08:50	B0I0881	CP1	1
2,6-Dinitrotoluene	< 0.518	1.04			ug/L	0.238	0.518	09/30/20 08:50	B0I0881	CP1	1
2-Chloronaphthalene	< 0.311	0.622			ug/L	0.110	0.311	09/30/20 08:50	B0I0881	CP1	1
2-Chlorophenol	< 0.518	1.04			ug/L	0.159	0.518	09/30/20 08:50	B0I0881	CP1	1
2-Methylnaphthalene	< 2.07	4.14			ug/L	0.663	2.07	09/30/20 08:50	B0I0881	CP1	1
2-Methylphenol	< 0.518	1.04			ug/L	0.189	0.518	09/30/20 08:50	B0I0881	CP1	1
2-Nitroaniline	< 10.4	31.1			ug/L	2.65	10.4	09/30/20 08:50	B0I0881	CP1	1
2-Nitrophenol	< 0.518	1.04			ug/L	0.217	0.518	09/30/20 08:50	B0I0881	CP1	1
3,3'-Dichlorobenzidine	< 10.4	20.7			ug/L	3.28	10.4	09/30/20 08:50	B0I0881	CP1	1
3 & 4-Methylphenol	< 0.518	1.04			ug/L	0.186	0.518	09/30/20 08:50	B0I0881	CP1	1
3-Nitroaniline	< 1.04	2.07			ug/L	0.373	1.04	09/30/20 08:50	B0I0881	CP1	1
4,6-Dinitro-2-methylphenol	< 5.18	15.5			ug/L	2.54	5.18	09/30/20 08:50	B0I0881	CP1	1
4-Bromophenyl-phenylether	< 0.518	1.04			ug/L	0.166	0.518	09/30/20 08:50	B0I0881	CP1	1
4-Chloro-3-methylphenol	< 0.207	0.518			ug/L	0.0739	0.207	09/30/20 08:50	B0I0881	CP1	1
4-Chloroaniline	< 0.311	0.622			ug/L	0.111	0.311	09/30/20 08:50	B0I0881	CP1	1
4-Chlorophenyl-phenylether	< 0.518	1.04			ug/L	0.151	0.518	09/30/20 08:50	B0I0881	CP1	1
4-Nitroaniline	< 10.4	31.1			ug/L	3.91	10.4	09/30/20 08:50	B0I0881	CP1	1
4-Nitrophenol	< 5.18	15.5			ug/L	1.49	5.18	09/30/20 08:50	B0I0881	CP1	1
Acenaphthene	< 0.311	0.622			ug/L	0.108	0.311	09/30/20 08:50	B0I0881	CP1	1
Acenaphthylene	< 0.311	0.622			ug/L	0.135	0.311	09/30/20 08:50	B0I0881	CP1	1
Anthracene	< 0.311	0.622			ug/L	0.116	0.311	09/30/20 08:50	B0I0881	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.311	1.04			ug/L	0.0795	0.311	09/30/20 08:50	B0I0881	CP1	1
Benzidine	< 41.4	82.9			ug/L	17.2	41.4	09/30/20 08:50	B0I0881	CP1	1
Benzo(a)anthracene	< 0.311	0.622			ug/L	0.128	0.311	09/30/20 08:50	B0I0881	CP1	1
Benzo(a)pyrene	< 1.04	2.07			ug/L	0.389	1.04	09/30/20 08:50	B0I0881	CP1	1
Benzo(b)fluoranthene	< 1.04	2.07			ug/L	0.386	1.04	09/30/20 08:50	B0I0881	CP1	1
Benzo(g,h,i)perylene	< 1.04	2.07			ug/L	0.414	1.04	09/30/20 08:50	B0I0881	CP1	1
Benzo(k)fluoranthene	< 0.518	2.07			ug/L	0.258	0.518	09/30/20 08:50	B0I0881	CP1	1
Benzoic acid	< 24.9	41.4			ug/L	12.2	24.9	09/30/20 08:50	B0I0881	CP1	1
Benzyl alcohol	< 2.07	4.14			ug/L	0.570	2.07	09/30/20 08:50	B0I0881	CP1	1
Bis(2-chloroethoxy)methane	< 0.518	1.04			ug/L	0.140	0.518	09/30/20 08:50	B0I0881	CP1	1
Bis(2-chloroethyl)ether	< 0.518	1.04			ug/L	0.182	0.518	09/30/20 08:50	B0I0881	CP1	1
Bis(2-chloroisopropyl)ether	< 0.518	1.04			ug/L	0.133	0.518	09/30/20 08:50	B0I0881	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.4	20.7			ug/L	3.76	10.4	09/30/20 08:50	B0I0881	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: PZ-2
Report Date: 10/07/2020
Collection Date: 09/25/2020 08:25
Matrix: Groundwater
Lab ID: 20I0861-07 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Semivolatile Organic Compounds by GC/MS (Continued)											
Method: SW8270D / SW3510 (Continued)											
Butyl benzyl phthalate	< 0.518	1.04			ug/L	0.242	0.518	09/30/20 08:50	B0I0881	CP1	1
Carbazole	< 0.518	1.04			ug/L	0.179	0.518	09/30/20 08:50	B0I0881	CP1	1
Chrysene	< 0.311	0.622			ug/L	0.131	0.311	09/30/20 08:50	B0I0881	CP1	1
Dibenzo(a,h)anthracene	< 1.04	2.07			ug/L	0.458	1.04	09/30/20 08:50	B0I0881	CP1	1
Dibenzofuran	< 0.311	0.622			ug/L	0.127	0.311	09/30/20 08:50	B0I0881	CP1	1
Diethyl phthalate	< 3.11	6.22			ug/L	1.21	3.11	09/30/20 08:50	B0I0881	CP1	1
Dimethyl phthalate	< 0.311	0.622			ug/L	0.0915	0.311	09/30/20 08:50	B0I0881	CP1	1
Di-n-butyl phthalate	< 6.22	10.4			ug/L	2.98	6.22	09/30/20 08:50	B0I0881	CP1	1
Di-n-octyl phthalate	< 5.18	10.4			ug/L	1.96	5.18	09/30/20 08:50	B0I0881	CP1	1
Fluoranthene	< 0.518	1.04			ug/L	0.203	0.518	09/30/20 08:50	B0I0881	CP1	1
Fluorene	< 0.311	0.622			ug/L	0.128	0.311	09/30/20 08:50	B0I0881	CP1	1
Hexachlorobenzene	< 0.518	1.04			ug/L	0.171	0.518	09/30/20 08:50	B0I0881	CP1	1
Hexachlorobutadiene	< 0.518	1.04			ug/L	0.259	0.518	09/30/20 08:50	B0I0881	CP1	1
Hexachlorocyclopentadiene	< 5.18	15.5			ug/L	2.27	5.18	09/30/20 08:50	B0I0881	CP1	1
Hexachloroethane	< 0.518	1.04			ug/L	0.228	0.518	09/30/20 08:50	B0I0881	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.04	2.07			ug/L	0.521	1.04	09/30/20 08:50	B0I0881	CP1	1
Isophorone	< 0.311	0.622			ug/L	0.114	0.311	09/30/20 08:50	B0I0881	CP1	1
Naphthalene	< 2.07	4.14			ug/L	0.845	2.07	09/30/20 08:50	B0I0881	CP1	1
Nitrobenzene	< 0.311	0.622			ug/L	0.145	0.311	09/30/20 08:50	B0I0881	CP1	1
N-Nitrosodimethylamine	< 0.518	1.04			ug/L	0.161	0.518	09/30/20 08:50	B0I0881	CP1	1
N-Nitrosodi-n-propylamine	< 1.04	2.07			ug/L	0.330	1.04	09/30/20 08:50	B0I0881	CP1	1
N-Nitrosodiphenylamine	< 0.311	0.622			ug/L	0.108	0.311	09/30/20 08:50	B0I0881	CP1	1
Pentachlorophenol	< 10.4	31.1			ug/L	2.61	10.4	09/30/20 08:50	B0I0881	CP1	1
Phenanthrene	< 0.518	1.04			ug/L	0.213	0.518	09/30/20 08:50	B0I0881	CP1	1
Phenol	< 0.518	1.04			ug/L	0.177	0.518	09/30/20 08:50	B0I0881	CP1	1
Pyrene	< 0.518	1.04			ug/L	0.215	0.518	09/30/20 08:50	B0I0881	CP1	1
<i>Surrogate: 2-Fluorophenol</i>					<i>Recovery: 47%</i>	<i>Limits: 10-88</i>		<i>09/30/20 08:50</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Phenol-d5</i>					<i>Recovery: 37%</i>	<i>Limits: 10-65</i>		<i>09/30/20 08:50</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Nitrobenzene-d5</i>					<i>Recovery: 76%</i>	<i>Limits: 25-128</i>		<i>09/30/20 08:50</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2-Fluorobiphenyl</i>					<i>Recovery: 69%</i>	<i>Limits: 24-114</i>		<i>09/30/20 08:50</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>					<i>Recovery: 78%</i>	<i>Limits: 15-119</i>		<i>09/30/20 08:50</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 4-Terphenyl-d14</i>					<i>Recovery: 95%</i>	<i>Limits: 29-129</i>		<i>09/30/20 08:50</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>

Subcontracted Analyses**Method: SW8260-SIM Modified / SW5030**

1,4-Dioxane	< 0.200	0.500			ug/L	0.0625	0.200	10/02/20 18:09	B0J0077	CP1	1
<i>Surrogate: Toluene-d8</i>					<i>Recovery: 97%</i>	<i>Limits: 80-120</i>		<i>10/02/20 18:09</i>	<i>B0J0077</i>	<i>CP1</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: PZ-2
Report Date: 10/07/2020
Collection Date: 09/25/2020 08:25
Matrix: Groundwater
Lab ID: 20I0861-08

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit										
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.508	1.02			ug/L	0.216	0.508	10/01/20 16:39	B0I0905	CS2	1	
Aroclor 1221	< 0.508	0.610			ug/L	0.195	0.508	10/01/20 16:39	B0I0905	CS2	1	
Aroclor 1232	< 0.508	0.610			ug/L	0.165	0.508	10/01/20 16:39	B0I0905	CS2	1	
Aroclor 1242	< 1.02	2.03			ug/L	0.356	1.02	10/01/20 16:39	B0I0905	CS2	1	
Aroclor 1248	< 0.508	0.610			ug/L	0.163	0.508	10/01/20 16:39	B0I0905	CS2	1	
Aroclor 1254	< 0.508	0.610			ug/L	0.179	0.508	10/01/20 16:39	B0I0905	CS2	1	
Aroclor 1260	< 0.305	0.407			ug/L	0.114	0.305	10/01/20 16:39	B0I0905	CS2	1	
Total PCB	< 0.508	0.610			ug/L	0.195	0.508	10/01/20 16:39	B0I0905	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 88%		Limits: 10-139		10/01/20 16:39	B0I0905	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 64%		Limits: 26-107		10/01/20 16:39	B0I0905	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-3
Report Date: 10/07/2020
Collection Date: 09/23/2020 11:00
Matrix: Groundwater
Lab ID: 20I0861-09

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Wet Chemistry											
Method: SW9060											
Organic Carbon, Total	3.83	1.00			mg/L	0.400	0.800	10/06/20 20:14	B0J0227	TB2	1
Polychlorinated Biphenyls (PCBs) by GC/ECD											
Method: SW8082A / SW3510											
Aroclor 1016	< 0.524	1.05			ug/L	0.223	0.524	09/30/20 17:58	B0I0902	CS2	1
Aroclor 1221	< 0.524	0.629			ug/L	0.201	0.524	09/30/20 17:58	B0I0902	CS2	1
Aroclor 1232	< 0.524	0.629			ug/L	0.170	0.524	09/30/20 17:58	B0I0902	CS2	1
Aroclor 1242	< 1.05	2.10			ug/L	0.367	1.05	09/30/20 17:58	B0I0902	CS2	1
Aroclor 1248	< 0.524	0.629			ug/L	0.168	0.524	09/30/20 17:58	B0I0902	CS2	1
Aroclor 1254	< 0.524	0.629			ug/L	0.184	0.524	09/30/20 17:58	B0I0902	CS2	1
Aroclor 1260	< 0.315	0.419			ug/L	0.118	0.315	09/30/20 17:58	B0I0902	CS2	1
Total PCB	< 0.524	0.629			ug/L	0.201	0.524	09/30/20 17:58	B0I0902	CS2	1
Surrogate: Decachlorobiphenyl					Recovery: 73%	Limits: 10-139		09/30/20 17:58	B0I0902	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene					Recovery: 47%	Limits: 26-107		09/30/20 17:58	B0I0902	CS2	1
Volatile Organic Compounds by GC/MS											
Method: SW8260B / SW5030											
1,1,1,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.706	2.00	09/29/20 17:58	B0I0944	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00			ug/L	0.719	2.00	09/29/20 17:58	B0I0944	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.713	2.00	09/29/20 17:58	B0I0944	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00			ug/L	0.198	0.600	09/29/20 17:58	B0I0944	WZZ	1
1,1-Dichloroethane	< 2.00	4.00			ug/L	0.691	2.00	09/29/20 17:58	B0I0944	WZZ	1
1,1-Dichloroethene	< 4.00	8.00			ug/L	1.10	4.00	09/29/20 17:58	B0I0944	WZZ	1
1,1-Dichloropropene	< 1.00	2.00			ug/L	0.462	1.00	09/29/20 17:58	B0I0944	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00			ug/L	0.199	0.600	09/29/20 17:58	B0I0944	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00			ug/L	0.598	2.00	09/29/20 17:58	B0I0944	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00			ug/L	0.753	2.00	09/29/20 17:58	B0I0944	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00			ug/L	1.22	4.00	09/29/20 17:58	B0I0944	WZZ	1
1,2-Dibromoethane	< 1.00	2.00			ug/L	0.420	1.00	09/29/20 17:58	B0I0944	WZZ	1
1,2-Dichloroethane	< 2.00	4.00			ug/L	0.731	2.00	09/29/20 17:58	B0I0944	WZZ	1
1,2-Dichloropropane	< 2.00	4.00			ug/L	0.557	2.00	09/29/20 17:58	B0I0944	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00			ug/L	0.351	1.00	09/29/20 17:58	B0I0944	WZZ	1
1,3-Dichloropropane	< 1.00	2.00			ug/L	0.345	1.00	09/29/20 17:58	B0I0944	WZZ	1
2,2-Dichloropropane	< 4.00	8.00			ug/L	1.03	4.00	09/29/20 17:58	B0I0944	WZZ	1
2-Butanone	< 14.0	28.0			ug/L	4.79	14.0	09/29/20 17:58	B0I0944	WZZ	1
2-Chlorotoluene	< 1.00	2.00			ug/L	0.384	1.00	09/29/20 17:58	B0I0944	WZZ	1
2-Hexanone	< 14.0	28.0			ug/L	4.74	14.0	09/29/20 17:58	B0I0944	WZZ	1
4-Isopropyltoluene	< 2.00	4.00			ug/L	0.930	2.00	09/29/20 17:58	B0I0944	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0			ug/L	4.40	14.0	09/29/20 17:58	B0I0944	WZZ	1
Acetone	< 28.0	70.0	Q, S1		ug/L	9.21	28.0	09/29/20 17:58	B0I0944	WZZ	1
Benzene	< 1.00	2.00			ug/L	0.362	1.00	09/29/20 17:58	B0I0944	WZZ	1
Bromobenzene	< 1.00	2.00			ug/L	0.354	1.00	09/29/20 17:58	B0I0944	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-3
Report Date: 10/07/2020
Collection Date: 09/23/2020 11:00
Matrix: Groundwater
Lab ID: 20I0861-09 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	09/29/20 17:58	B0I0944	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	09/29/20 17:58	B0I0944	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	09/29/20 17:58	B0I0944	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	09/29/20 17:58	B0I0944	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	09/29/20 17:58	B0I0944	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	09/29/20 17:58	B0I0944	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	09/29/20 17:58	B0I0944	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	09/29/20 17:58	B0I0944	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	09/29/20 17:58	B0I0944	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	09/29/20 17:58	B0I0944	WZZ	1
cis-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.652	2.00	09/29/20 17:58	B0I0944	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	09/29/20 17:58	B0I0944	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	09/29/20 17:58	B0I0944	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	09/29/20 17:58	B0I0944	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	09/29/20 17:58	B0I0944	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	09/29/20 17:58	B0I0944	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	09/29/20 17:58	B0I0944	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	09/29/20 17:58	B0I0944	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	09/29/20 17:58	B0I0944	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	09/29/20 17:58	B0I0944	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	09/29/20 17:58	B0I0944	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	09/29/20 17:58	B0I0944	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	09/29/20 17:58	B0I0944	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	09/29/20 17:58	B0I0944	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	09/29/20 17:58	B0I0944	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 17:58	B0I0944	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	09/29/20 17:58	B0I0944	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	09/29/20 17:58	B0I0944	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	09/29/20 17:58	B0I0944	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	09/29/20 17:58	B0I0944	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 17:58	B0I0944	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	09/29/20 17:58	B0I0944	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	09/29/20 17:58	B0I0944	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	09/29/20 17:58	B0I0944	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	09/29/20 17:58	B0I0944	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 99%</i>	<i>Limits: 84-137</i>		<i>09/29/20 17:58</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 103%</i>	<i>Limits: 74-140</i>		<i>09/29/20 17:58</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 99%</i>	<i>Limits: 90-105</i>		<i>09/29/20 17:58</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 102%</i>	<i>Limits: 74-109</i>		<i>09/29/20 17:58</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 103%</i>	<i>Limits: 86-128</i>		<i>09/29/20 17:58</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 100%</i>	<i>Limits: 90-128</i>		<i>09/29/20 17:58</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-3
Report Date: 10/07/2020
Collection Date: 09/23/2020 11:00
Matrix: Groundwater
Lab ID: 20I0861-09 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Semivolatile Organic Compounds by GC/MS											
Method: SW8270D / SW3510											
1,2,4-Trichlorobenzene	< 1.05	2.09			ug/L	0.293	1.05	09/30/20 09:11	B0I0881	CP1	1
1,2-Dichlorobenzene	< 1.05	2.09			ug/L	0.314	1.05	09/30/20 09:11	B0I0881	CP1	1
1,3-Dichlorobenzene	< 1.05	2.09			ug/L	0.324	1.05	09/30/20 09:11	B0I0881	CP1	1
1,4-Dichlorobenzene	< 1.05	2.09			ug/L	0.293	1.05	09/30/20 09:11	B0I0881	CP1	1
2,4,5-Trichlorophenol	< 0.523	1.05			ug/L	0.135	0.523	09/30/20 09:11	B0I0881	CP1	1
2,4,6-Trichlorophenol	< 0.523	1.05			ug/L	0.255	0.523	09/30/20 09:11	B0I0881	CP1	1
2,4-Dichlorophenol	< 0.523	1.05			ug/L	0.0825	0.523	09/30/20 09:11	B0I0881	CP1	1
2,4-Dimethylphenol	< 1.05	2.09			ug/L	0.123	1.05	09/30/20 09:11	B0I0881	CP1	1
2,4-Dinitrophenol	< 10.5	31.4			ug/L	3.46	10.5	09/30/20 09:11	B0I0881	CP1	1
2,4-Dinitrotoluene	< 1.05	2.09			ug/L	0.264	1.05	09/30/20 09:11	B0I0881	CP1	1
2,6-Dinitrotoluene	< 0.523	1.05			ug/L	0.241	0.523	09/30/20 09:11	B0I0881	CP1	1
2-Chloronaphthalene	< 0.314	0.628			ug/L	0.111	0.314	09/30/20 09:11	B0I0881	CP1	1
2-Chlorophenol	< 0.523	1.05			ug/L	0.161	0.523	09/30/20 09:11	B0I0881	CP1	1
2-Methylnaphthalene	< 2.09	4.19			ug/L	0.670	2.09	09/30/20 09:11	B0I0881	CP1	1
2-Methylphenol	< 0.523	1.05			ug/L	0.191	0.523	09/30/20 09:11	B0I0881	CP1	1
2-Nitroaniline	< 10.5	31.4			ug/L	2.68	10.5	09/30/20 09:11	B0I0881	CP1	1
2-Nitrophenol	< 0.523	1.05			ug/L	0.219	0.523	09/30/20 09:11	B0I0881	CP1	1
3,3'-Dichlorobenzidine	< 10.5	20.9			ug/L	3.31	10.5	09/30/20 09:11	B0I0881	CP1	1
3 & 4-Methylphenol	< 0.523	1.05			ug/L	0.187	0.523	09/30/20 09:11	B0I0881	CP1	1
3-Nitroaniline	< 1.05	2.09			ug/L	0.377	1.05	09/30/20 09:11	B0I0881	CP1	1
4,6-Dinitro-2-methylphenol	< 5.23	15.7			ug/L	2.57	5.23	09/30/20 09:11	B0I0881	CP1	1
4-Bromophenyl-phenylether	< 0.523	1.05			ug/L	0.168	0.523	09/30/20 09:11	B0I0881	CP1	1
4-Chloro-3-methylphenol	< 0.209	0.523			ug/L	0.0746	0.209	09/30/20 09:11	B0I0881	CP1	1
4-Chloroaniline	< 0.314	0.628			ug/L	0.112	0.314	09/30/20 09:11	B0I0881	CP1	1
4-Chlorophenyl-phenylether	< 0.523	1.05			ug/L	0.152	0.523	09/30/20 09:11	B0I0881	CP1	1
4-Nitroaniline	< 10.5	31.4			ug/L	3.95	10.5	09/30/20 09:11	B0I0881	CP1	1
4-Nitrophenol	< 5.23	15.7			ug/L	1.50	5.23	09/30/20 09:11	B0I0881	CP1	1
Acenaphthene	< 0.314	0.628			ug/L	0.109	0.314	09/30/20 09:11	B0I0881	CP1	1
Acenaphthylene	< 0.314	0.628			ug/L	0.136	0.314	09/30/20 09:11	B0I0881	CP1	1
Anthracene	< 0.314	0.628			ug/L	0.117	0.314	09/30/20 09:11	B0I0881	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.314	1.05			ug/L	0.0803	0.314	09/30/20 09:11	B0I0881	CP1	1
Benzidine	< 41.9	83.7			ug/L	17.3	41.9	09/30/20 09:11	B0I0881	CP1	1
Benzo(a)anthracene	< 0.314	0.628			ug/L	0.129	0.314	09/30/20 09:11	B0I0881	CP1	1
Benzo(a)pyrene	< 1.05	2.09			ug/L	0.393	1.05	09/30/20 09:11	B0I0881	CP1	1
Benzo(b)fluoranthene	< 1.05	2.09			ug/L	0.390	1.05	09/30/20 09:11	B0I0881	CP1	1
Benzo(g,h,i)perylene	< 1.05	2.09			ug/L	0.418	1.05	09/30/20 09:11	B0I0881	CP1	1
Benzo(k)fluoranthene	< 0.523	2.09			ug/L	0.260	0.523	09/30/20 09:11	B0I0881	CP1	1
Benzoic acid	< 25.1	41.9			ug/L	12.3	25.1	09/30/20 09:11	B0I0881	CP1	1
Benzyl alcohol	< 2.09	4.19			ug/L	0.576	2.09	09/30/20 09:11	B0I0881	CP1	1
Bis(2-chloroethoxy)methane	< 0.523	1.05			ug/L	0.142	0.523	09/30/20 09:11	B0I0881	CP1	1
Bis(2-chloroethyl)ether	< 0.523	1.05			ug/L	0.184	0.523	09/30/20 09:11	B0I0881	CP1	1
Bis(2-chloroisopropyl)ether	< 0.523	1.05			ug/L	0.134	0.523	09/30/20 09:11	B0I0881	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.5	20.9			ug/L	3.80	10.5	09/30/20 09:11	B0I0881	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-3
Report Date: 10/07/2020
Collection Date: 09/23/2020 11:00
Matrix: Groundwater
Lab ID: 20I0861-09 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Semivolatile Organic Compounds by GC/MS (Continued)											
Method: SW8270D / SW3510 (Continued)											
Butyl benzyl phthalate	< 0.523	1.05			ug/L	0.245	0.523	09/30/20 09:11	B0I0881	CP1	1
Carbazole	< 0.523	1.05			ug/L	0.181	0.523	09/30/20 09:11	B0I0881	CP1	1
Chrysene	< 0.314	0.628			ug/L	0.133	0.314	09/30/20 09:11	B0I0881	CP1	1
Dibenzo(a,h)anthracene	< 1.05	2.09			ug/L	0.462	1.05	09/30/20 09:11	B0I0881	CP1	1
Dibenzofuran	< 0.314	0.628			ug/L	0.128	0.314	09/30/20 09:11	B0I0881	CP1	1
Diethyl phthalate	< 3.14	6.28			ug/L	1.22	3.14	09/30/20 09:11	B0I0881	CP1	1
Dimethyl phthalate	< 0.314	0.628			ug/L	0.0924	0.314	09/30/20 09:11	B0I0881	CP1	1
Di-n-butyl phthalate	< 6.28	10.5			ug/L	3.01	6.28	09/30/20 09:11	B0I0881	CP1	1
Di-n-octyl phthalate	< 5.23	10.5			ug/L	1.98	5.23	09/30/20 09:11	B0I0881	CP1	1
Fluoranthene	< 0.523	1.05			ug/L	0.206	0.523	09/30/20 09:11	B0I0881	CP1	1
Fluorene	< 0.314	0.628			ug/L	0.130	0.314	09/30/20 09:11	B0I0881	CP1	1
Hexachlorobenzene	< 0.523	1.05			ug/L	0.173	0.523	09/30/20 09:11	B0I0881	CP1	1
Hexachlorobutadiene	< 0.523	1.05			ug/L	0.262	0.523	09/30/20 09:11	B0I0881	CP1	1
Hexachlorocyclopentadiene	< 5.23	15.7			ug/L	2.29	5.23	09/30/20 09:11	B0I0881	CP1	1
Hexachloroethane	< 0.523	1.05			ug/L	0.230	0.523	09/30/20 09:11	B0I0881	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.05	2.09			ug/L	0.526	1.05	09/30/20 09:11	B0I0881	CP1	1
Isophorone	< 0.314	0.628			ug/L	0.115	0.314	09/30/20 09:11	B0I0881	CP1	1
Naphthalene	< 2.09	4.19			ug/L	0.854	2.09	09/30/20 09:11	B0I0881	CP1	1
Nitrobenzene	< 0.314	0.628			ug/L	0.146	0.314	09/30/20 09:11	B0I0881	CP1	1
N-Nitrosodimethylamine	< 0.523	1.05			ug/L	0.163	0.523	09/30/20 09:11	B0I0881	CP1	1
N-Nitrosodi-n-propylamine	< 1.05	2.09			ug/L	0.334	1.05	09/30/20 09:11	B0I0881	CP1	1
N-Nitrosodiphenylamine	< 0.314	0.628			ug/L	0.109	0.314	09/30/20 09:11	B0I0881	CP1	1
Pentachlorophenol	< 10.5	31.4			ug/L	2.64	10.5	09/30/20 09:11	B0I0881	CP1	1
Phenanthrene	< 0.523	1.05			ug/L	0.216	0.523	09/30/20 09:11	B0I0881	CP1	1
Phenol	< 0.523	1.05			ug/L	0.179	0.523	09/30/20 09:11	B0I0881	CP1	1
Pyrene	< 0.523	1.05			ug/L	0.218	0.523	09/30/20 09:11	B0I0881	CP1	1
<i>Surrogate: 2-Fluorophenol</i>				<i>Recovery: 35%</i>	<i>Limits: 10-88</i>			<i>09/30/20 09:11</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Phenol-d5</i>				<i>Recovery: 30%</i>	<i>Limits: 10-65</i>			<i>09/30/20 09:11</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Nitrobenzene-d5</i>				<i>Recovery: 56%</i>	<i>Limits: 25-128</i>			<i>09/30/20 09:11</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2-Fluorobiphenyl</i>				<i>Recovery: 54%</i>	<i>Limits: 24-114</i>			<i>09/30/20 09:11</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>				<i>Recovery: 64%</i>	<i>Limits: 15-119</i>			<i>09/30/20 09:11</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 4-Terphenyl-d14</i>				<i>Recovery: 81%</i>	<i>Limits: 29-129</i>			<i>09/30/20 09:11</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>

Subcontracted Analyses**Method: SW8260-SIM Modified / SW5030**

1,4-Dioxane	< 0.200	0.500			ug/L	0.0625	0.200	10/02/20 12:53	B0J0077	CP1	1
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 108%</i>	<i>Limits: 80-120</i>			<i>10/02/20 12:53</i>	<i>B0J0077</i>	<i>CP1</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-3
Report Date: 10/07/2020
Collection Date: 09/23/2020 11:00
Matrix: Groundwater
Lab ID: 20I0861-10

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Polychlorinated Biphenyls (PCBs) by GC/ECD											
Method: SW8082A / SW3510											
Aroclor 1016	< 0.507	1.01			ug/L	0.215	0.507	09/30/20 18:15	B0I0905	CS2	1
Aroclor 1221	< 0.507	0.609			ug/L	0.194	0.507	09/30/20 18:15	B0I0905	CS2	1
Aroclor 1232	< 0.507	0.609			ug/L	0.164	0.507	09/30/20 18:15	B0I0905	CS2	1
Aroclor 1242	< 1.01	2.03			ug/L	0.356	1.01	09/30/20 18:15	B0I0905	CS2	1
Aroclor 1248	< 0.507	0.609			ug/L	0.162	0.507	09/30/20 18:15	B0I0905	CS2	1
Aroclor 1254	< 0.507	0.609			ug/L	0.178	0.507	09/30/20 18:15	B0I0905	CS2	1
Aroclor 1260	< 0.304	0.406			ug/L	0.114	0.304	09/30/20 18:15	B0I0905	CS2	1
Total PCB	< 0.507	0.609			ug/L	0.194	0.507	09/30/20 18:15	B0I0905	CS2	1
<hr/>											
Surrogate: Decachlorobiphenyl			S			Recovery: 229%	Limits: 10-139	09/30/20 18:15	B0I0905	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene						Recovery: 73%	Limits: 26-107	09/30/20 18:15	B0I0905	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-3 DUP
Report Date: 10/07/2020
Collection Date: 09/23/2020 11:00
Matrix: Groundwater
Lab ID: 20I0861-11

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Limit									
Wet Chemistry												
Method: SW9060												
Organic Carbon, Total	3.82	1.00			mg/L	0.400	0.800	10/06/20 20:36	B0J0227	TB2	1	
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.508	1.02			ug/L	0.215	0.508	09/30/20 18:15	B0I0902	CS2	1	
Aroclor 1221	< 0.508	0.609			ug/L	0.194	0.508	09/30/20 18:15	B0I0902	CS2	1	
Aroclor 1232	< 0.508	0.609			ug/L	0.165	0.508	09/30/20 18:15	B0I0902	CS2	1	
Aroclor 1242	< 1.02	2.03			ug/L	0.356	1.02	09/30/20 18:15	B0I0902	CS2	1	
Aroclor 1248	< 0.508	0.609			ug/L	0.162	0.508	09/30/20 18:15	B0I0902	CS2	1	
Aroclor 1254	< 0.508	0.609			ug/L	0.178	0.508	09/30/20 18:15	B0I0902	CS2	1	
Aroclor 1260	< 0.305	0.406			ug/L	0.114	0.305	09/30/20 18:15	B0I0902	CS2	1	
Total PCB	< 0.508	0.609			ug/L	0.194	0.508	09/30/20 18:15	B0I0902	CS2	1	
Surrogate: Decachlorobiphenyl					Recovery: 75%		Limits: 10-139		09/30/20 18:15		B0I0902	CS2 1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene					Recovery: 55%		Limits: 26-107		09/30/20 18:15		B0I0902	CS2 1
Volatile Organic Compounds by GC/MS												
Method: SW8260B / SW5030												
1,1,1,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.706	2.00	09/29/20 18:23	B0I0944	WZZ	1	
1,1,1-Trichloroethane	< 2.00	4.00			ug/L	0.719	2.00	09/29/20 18:23	B0I0944	WZZ	1	
1,1,2,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.713	2.00	09/29/20 18:23	B0I0944	WZZ	1	
1,1,2-Trichloroethane	< 0.600	2.00			ug/L	0.198	0.600	09/29/20 18:23	B0I0944	WZZ	1	
1,1-Dichloroethane	< 2.00	4.00			ug/L	0.691	2.00	09/29/20 18:23	B0I0944	WZZ	1	
1,1-Dichloroethene	< 4.00	8.00			ug/L	1.10	4.00	09/29/20 18:23	B0I0944	WZZ	1	
1,1-Dichloropropene	< 1.00	2.00			ug/L	0.462	1.00	09/29/20 18:23	B0I0944	WZZ	1	
1,2,3-Trichlorobenzene	< 0.600	2.00			ug/L	0.199	0.600	09/29/20 18:23	B0I0944	WZZ	1	
1,2,3-Trichloropropane	< 2.00	4.00			ug/L	0.598	2.00	09/29/20 18:23	B0I0944	WZZ	1	
1,2,4-Trimethylbenzene	< 2.00	4.00			ug/L	0.753	2.00	09/29/20 18:23	B0I0944	WZZ	1	
1,2-Dibromo-3-chloropropane	< 4.00	8.00			ug/L	1.22	4.00	09/29/20 18:23	B0I0944	WZZ	1	
1,2-Dibromoethane	< 1.00	2.00			ug/L	0.420	1.00	09/29/20 18:23	B0I0944	WZZ	1	
1,2-Dichloroethane	< 2.00	4.00			ug/L	0.731	2.00	09/29/20 18:23	B0I0944	WZZ	1	
1,2-Dichloropropane	< 2.00	4.00			ug/L	0.557	2.00	09/29/20 18:23	B0I0944	WZZ	1	
1,3,5-Trimethylbenzene	< 1.00	2.00			ug/L	0.351	1.00	09/29/20 18:23	B0I0944	WZZ	1	
1,3-Dichloropropane	< 1.00	2.00			ug/L	0.345	1.00	09/29/20 18:23	B0I0944	WZZ	1	
2,2-Dichloropropane	< 4.00	8.00			ug/L	1.03	4.00	09/29/20 18:23	B0I0944	WZZ	1	
2-Butanone	< 14.0	28.0			ug/L	4.79	14.0	09/29/20 18:23	B0I0944	WZZ	1	
2-Chlorotoluene	< 1.00	2.00			ug/L	0.384	1.00	09/29/20 18:23	B0I0944	WZZ	1	
2-Hexanone	< 14.0	28.0			ug/L	4.74	14.0	09/29/20 18:23	B0I0944	WZZ	1	
4-Isopropyltoluene	< 2.00	4.00			ug/L	0.930	2.00	09/29/20 18:23	B0I0944	WZZ	1	
4-Methyl-2-pentanone	< 14.0	28.0			ug/L	4.40	14.0	09/29/20 18:23	B0I0944	WZZ	1	
Acetone	< 28.0	70.0	Q, S1		ug/L	9.21	28.0	09/29/20 18:23	B0I0944	WZZ	1	
Benzene	< 1.00	2.00			ug/L	0.362	1.00	09/29/20 18:23	B0I0944	WZZ	1	
Bromobenzene	< 1.00	2.00			ug/L	0.354	1.00	09/29/20 18:23	B0I0944	WZZ	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-3 DUP
Report Date: 10/07/2020
Collection Date: 09/23/2020 11:00
Matrix: Groundwater
Lab ID: 20I0861-11 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	09/29/20 18:23	B0I0944	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	09/29/20 18:23	B0I0944	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	09/29/20 18:23	B0I0944	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	09/29/20 18:23	B0I0944	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	09/29/20 18:23	B0I0944	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	09/29/20 18:23	B0I0944	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	09/29/20 18:23	B0I0944	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	09/29/20 18:23	B0I0944	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	09/29/20 18:23	B0I0944	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	09/29/20 18:23	B0I0944	WZZ	1
cis-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.652	2.00	09/29/20 18:23	B0I0944	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	09/29/20 18:23	B0I0944	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	09/29/20 18:23	B0I0944	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	09/29/20 18:23	B0I0944	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	09/29/20 18:23	B0I0944	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	09/29/20 18:23	B0I0944	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	09/29/20 18:23	B0I0944	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	09/29/20 18:23	B0I0944	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	09/29/20 18:23	B0I0944	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	09/29/20 18:23	B0I0944	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	09/29/20 18:23	B0I0944	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	09/29/20 18:23	B0I0944	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	09/29/20 18:23	B0I0944	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	09/29/20 18:23	B0I0944	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	09/29/20 18:23	B0I0944	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 18:23	B0I0944	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	09/29/20 18:23	B0I0944	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	09/29/20 18:23	B0I0944	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	09/29/20 18:23	B0I0944	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	09/29/20 18:23	B0I0944	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 18:23	B0I0944	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	09/29/20 18:23	B0I0944	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	09/29/20 18:23	B0I0944	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	09/29/20 18:23	B0I0944	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	09/29/20 18:23	B0I0944	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 102%</i>	<i>Limits: 84-137</i>		<i>09/29/20 18:23</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 104%</i>	<i>Limits: 74-140</i>		<i>09/29/20 18:23</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 100%</i>	<i>Limits: 90-105</i>		<i>09/29/20 18:23</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 100%</i>	<i>Limits: 74-109</i>		<i>09/29/20 18:23</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 99%</i>	<i>Limits: 86-128</i>		<i>09/29/20 18:23</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 103%</i>	<i>Limits: 90-128</i>		<i>09/29/20 18:23</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
CHW8271N
Work Order: 20I0861

Client Sample ID: MW-3 DUP
Report Date: 10/07/2020
Collection Date: 09/23/2020 11:00
Matrix: Groundwater
Lab ID: 20I0861-11 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Semivolatile Organic Compounds by GC/MS											
Method: SW8270D / SW3510											
1,2,4-Trichlorobenzene	< 1.04	2.08			ug/L	0.291	1.04	09/30/20 09:31	B0I0881	CP1	1
1,2-Dichlorobenzene	< 1.04	2.08			ug/L	0.312	1.04	09/30/20 09:31	B0I0881	CP1	1
1,3-Dichlorobenzene	< 1.04	2.08			ug/L	0.323	1.04	09/30/20 09:31	B0I0881	CP1	1
1,4-Dichlorobenzene	< 1.04	2.08			ug/L	0.291	1.04	09/30/20 09:31	B0I0881	CP1	1
2,4,5-Trichlorophenol	< 0.521	1.04			ug/L	0.135	0.521	09/30/20 09:31	B0I0881	CP1	1
2,4,6-Trichlorophenol	< 0.521	1.04			ug/L	0.254	0.521	09/30/20 09:31	B0I0881	CP1	1
2,4-Dichlorophenol	< 0.521	1.04			ug/L	0.0820	0.521	09/30/20 09:31	B0I0881	CP1	1
2,4-Dimethylphenol	< 1.04	2.08			ug/L	0.122	1.04	09/30/20 09:31	B0I0881	CP1	1
2,4-Dinitrophenol	< 10.4	31.2			ug/L	3.45	10.4	09/30/20 09:31	B0I0881	CP1	1
2,4-Dinitrotoluene	< 1.04	2.08			ug/L	0.262	1.04	09/30/20 09:31	B0I0881	CP1	1
2,6-Dinitrotoluene	< 0.521	1.04			ug/L	0.239	0.521	09/30/20 09:31	B0I0881	CP1	1
2-Chloronaphthalene	< 0.312	0.625			ug/L	0.110	0.312	09/30/20 09:31	B0I0881	CP1	1
2-Chlorophenol	< 0.521	1.04			ug/L	0.160	0.521	09/30/20 09:31	B0I0881	CP1	1
2-Methylnaphthalene	< 2.08	4.16			ug/L	0.666	2.08	09/30/20 09:31	B0I0881	CP1	1
2-Methylphenol	< 0.521	1.04			ug/L	0.190	0.521	09/30/20 09:31	B0I0881	CP1	1
2-Nitroaniline	< 10.4	31.2			ug/L	2.67	10.4	09/30/20 09:31	B0I0881	CP1	1
2-Nitrophenol	< 0.521	1.04			ug/L	0.218	0.521	09/30/20 09:31	B0I0881	CP1	1
3,3'-Dichlorobenzidine	< 10.4	20.8			ug/L	3.29	10.4	09/30/20 09:31	B0I0881	CP1	1
3 & 4-Methylphenol	< 0.521	1.04			ug/L	0.186	0.521	09/30/20 09:31	B0I0881	CP1	1
3-Nitroaniline	< 1.04	2.08			ug/L	0.375	1.04	09/30/20 09:31	B0I0881	CP1	1
4,6-Dinitro-2-methylphenol	< 5.21	15.6			ug/L	2.55	5.21	09/30/20 09:31	B0I0881	CP1	1
4-Bromophenyl-phenylether	< 0.521	1.04			ug/L	0.167	0.521	09/30/20 09:31	B0I0881	CP1	1
4-Chloro-3-methylphenol	< 0.208	0.521			ug/L	0.0742	0.208	09/30/20 09:31	B0I0881	CP1	1
4-Chloroaniline	< 0.312	0.625			ug/L	0.111	0.312	09/30/20 09:31	B0I0881	CP1	1
4-Chlorophenyl-phenylether	< 0.521	1.04			ug/L	0.152	0.521	09/30/20 09:31	B0I0881	CP1	1
4-Nitroaniline	< 10.4	31.2			ug/L	3.93	10.4	09/30/20 09:31	B0I0881	CP1	1
4-Nitrophenol	< 5.21	15.6			ug/L	1.50	5.21	09/30/20 09:31	B0I0881	CP1	1
Acenaphthene	< 0.312	0.625			ug/L	0.108	0.312	09/30/20 09:31	B0I0881	CP1	1
Acenaphthylene	< 0.312	0.625			ug/L	0.135	0.312	09/30/20 09:31	B0I0881	CP1	1
Anthracene	< 0.312	0.625			ug/L	0.116	0.312	09/30/20 09:31	B0I0881	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.312	1.04			ug/L	0.0798	0.312	09/30/20 09:31	B0I0881	CP1	1
Benzidine	< 41.6	83.3			ug/L	17.2	41.6	09/30/20 09:31	B0I0881	CP1	1
Benzo(a)anthracene	< 0.312	0.625			ug/L	0.128	0.312	09/30/20 09:31	B0I0881	CP1	1
Benzo(a)pyrene	< 1.04	2.08			ug/L	0.391	1.04	09/30/20 09:31	B0I0881	CP1	1
Benzo(b)fluoranthene	< 1.04	2.08			ug/L	0.388	1.04	09/30/20 09:31	B0I0881	CP1	1
Benzo(g,h,i)perylene	< 1.04	2.08			ug/L	0.416	1.04	09/30/20 09:31	B0I0881	CP1	1
Benzo(k)fluoranthene	< 0.521	2.08			ug/L	0.259	0.521	09/30/20 09:31	B0I0881	CP1	1
Benzoic acid	< 25.0	41.6			ug/L	12.2	25.0	09/30/20 09:31	B0I0881	CP1	1
Benzyl alcohol	< 2.08	4.16			ug/L	0.573	2.08	09/30/20 09:31	B0I0881	CP1	1
Bis(2-chloroethoxy)methane	< 0.521	1.04			ug/L	0.141	0.521	09/30/20 09:31	B0I0881	CP1	1
Bis(2-chloroethyl)ether	< 0.521	1.04			ug/L	0.183	0.521	09/30/20 09:31	B0I0881	CP1	1
Bis(2-chloroisopropyl)ether	< 0.521	1.04			ug/L	0.134	0.521	09/30/20 09:31	B0I0881	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.4	20.8			ug/L	3.78	10.4	09/30/20 09:31	B0I0881	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-3 DUP
Report Date: 10/07/2020
Collection Date: 09/23/2020 11:00
Matrix: Groundwater
Lab ID: 20I0861-11 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS (Continued)										
Method: SW8270D / SW3510 (Continued)										
Butyl benzyl phthalate	< 0.521	1.04		ug/L	0.244	0.521	09/30/20 09:31	B0I0881	CP1	1
Carbazole	< 0.521	1.04		ug/L	0.180	0.521	09/30/20 09:31	B0I0881	CP1	1
Chrysene	< 0.312	0.625		ug/L	0.132	0.312	09/30/20 09:31	B0I0881	CP1	1
Dibenzo(a,h)anthracene	< 1.04	2.08		ug/L	0.460	1.04	09/30/20 09:31	B0I0881	CP1	1
Dibenzofuran	< 0.312	0.625		ug/L	0.128	0.312	09/30/20 09:31	B0I0881	CP1	1
Diethyl phthalate	< 3.12	6.25		ug/L	1.21	3.12	09/30/20 09:31	B0I0881	CP1	1
Dimethyl phthalate	< 0.312	0.625		ug/L	0.0919	0.312	09/30/20 09:31	B0I0881	CP1	1
Di-n-butyl phthalate	< 6.25	10.4		ug/L	3.00	6.25	09/30/20 09:31	B0I0881	CP1	1
Di-n-octyl phthalate	< 5.21	10.4		ug/L	1.97	5.21	09/30/20 09:31	B0I0881	CP1	1
Fluoranthene	< 0.521	1.04		ug/L	0.204	0.521	09/30/20 09:31	B0I0881	CP1	1
Fluorene	< 0.312	0.625		ug/L	0.129	0.312	09/30/20 09:31	B0I0881	CP1	1
Hexachlorobenzene	< 0.521	1.04		ug/L	0.172	0.521	09/30/20 09:31	B0I0881	CP1	1
Hexachlorobutadiene	< 0.521	1.04		ug/L	0.260	0.521	09/30/20 09:31	B0I0881	CP1	1
Hexachlorocyclopentadiene	< 5.21	15.6		ug/L	2.28	5.21	09/30/20 09:31	B0I0881	CP1	1
Hexachloroethane	< 0.521	1.04		ug/L	0.229	0.521	09/30/20 09:31	B0I0881	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.04	2.08		ug/L	0.523	1.04	09/30/20 09:31	B0I0881	CP1	1
Isophorone	< 0.312	0.625		ug/L	0.115	0.312	09/30/20 09:31	B0I0881	CP1	1
Naphthalene	< 2.08	4.16		ug/L	0.849	2.08	09/30/20 09:31	B0I0881	CP1	1
Nitrobenzene	< 0.312	0.625		ug/L	0.145	0.312	09/30/20 09:31	B0I0881	CP1	1
N-Nitrosodimethylamine	< 0.521	1.04		ug/L	0.162	0.521	09/30/20 09:31	B0I0881	CP1	1
N-Nitrosodi-n-propylamine	< 1.04	2.08		ug/L	0.332	1.04	09/30/20 09:31	B0I0881	CP1	1
N-Nitrosodiphenylamine	< 0.312	0.625		ug/L	0.108	0.312	09/30/20 09:31	B0I0881	CP1	1
Pentachlorophenol	< 10.4	31.2		ug/L	2.62	10.4	09/30/20 09:31	B0I0881	CP1	1
Phenanthrene	< 0.521	1.04		ug/L	0.214	0.521	09/30/20 09:31	B0I0881	CP1	1
Phenol	< 0.521	1.04		ug/L	0.178	0.521	09/30/20 09:31	B0I0881	CP1	1
Pyrene	< 0.521	1.04		ug/L	0.217	0.521	09/30/20 09:31	B0I0881	CP1	1
<i>Surrogate: 2-Fluorophenol</i>				<i>Recovery: 39%</i>	<i>Limits: 10-88</i>		<i>09/30/20 09:31</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Phenol-d5</i>				<i>Recovery: 33%</i>	<i>Limits: 10-65</i>		<i>09/30/20 09:31</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Nitrobenzene-d5</i>				<i>Recovery: 67%</i>	<i>Limits: 25-128</i>		<i>09/30/20 09:31</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2-Fluorobiphenyl</i>				<i>Recovery: 63%</i>	<i>Limits: 24-114</i>		<i>09/30/20 09:31</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>				<i>Recovery: 74%</i>	<i>Limits: 15-119</i>		<i>09/30/20 09:31</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 4-Terphenyl-d14</i>				<i>Recovery: 93%</i>	<i>Limits: 29-129</i>		<i>09/30/20 09:31</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500		ug/L	0.0625	0.200	10/02/20 13:17	B0J0077	CP1	1
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 103%</i>	<i>Limits: 80-120</i>		<i>10/02/20 13:17</i>	<i>B0J0077</i>	<i>CP1</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-3 DUP
Report Date: 10/07/2020
Collection Date: 09/23/2020 11:00
Matrix: Groundwater
Lab ID: 20I0861-12

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3510										
Aroclor 1016	< 0.507	1.01		ug/L	0.215	0.507	09/30/20 18:32	B0I0905	CS2	1
Aroclor 1221	< 0.507	0.608		ug/L	0.194	0.507	09/30/20 18:32	B0I0905	CS2	1
Aroclor 1232	< 0.507	0.608		ug/L	0.164	0.507	09/30/20 18:32	B0I0905	CS2	1
Aroclor 1242	< 1.01	2.03		ug/L	0.355	1.01	09/30/20 18:32	B0I0905	CS2	1
Aroclor 1248	< 0.507	0.608		ug/L	0.162	0.507	09/30/20 18:32	B0I0905	CS2	1
Aroclor 1254	< 0.507	0.608		ug/L	0.178	0.507	09/30/20 18:32	B0I0905	CS2	1
Aroclor 1260	< 0.304	0.405		ug/L	0.114	0.304	09/30/20 18:32	B0I0905	CS2	1
Total PCB	< 0.507	0.608		ug/L	0.194	0.507	09/30/20 18:32	B0I0905	CS2	1
<i>Surrogate: Decachlorobiphenyl</i>				<i>Recovery: 81%</i>	<i>Limits: 10-139</i>		<i>09/30/20 18:32</i>	<i>B0I0905</i>	<i>CS2</i>	<i>1</i>
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>				<i>Recovery: 66%</i>	<i>Limits: 26-107</i>		<i>09/30/20 18:32</i>	<i>B0I0905</i>	<i>CS2</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-4
Report Date: 10/07/2020
Collection Date: 09/24/2020 09:55
Matrix: Groundwater
Lab ID: 20I0861-13

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	10.8	5.00		mg/L	2.00	4.00	10/06/20 20:55	B0J0227	TB2	5
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3510										
Aroclor 1016	< 0.535	1.07		ug/L	0.227	0.535	10/01/20 16:56	B0I0902	CS2	1
Aroclor 1221	< 0.535	0.643		ug/L	0.205	0.535	10/01/20 16:56	B0I0902	CS2	1
Aroclor 1232	< 0.535	0.643		ug/L	0.174	0.535	10/01/20 16:56	B0I0902	CS2	1
Aroclor 1242	< 1.07	2.14		ug/L	0.375	1.07	10/01/20 16:56	B0I0902	CS2	1
Aroclor 1248	< 0.535	0.643		ug/L	0.171	0.535	10/01/20 16:56	B0I0902	CS2	1
Aroclor 1254	< 0.535	0.643		ug/L	0.188	0.535	10/01/20 16:56	B0I0902	CS2	1
Aroclor 1260	< 0.321	0.428		ug/L	0.120	0.321	10/01/20 16:56	B0I0902	CS2	1
Total PCB	< 0.535	0.643		ug/L	0.205	0.535	10/01/20 16:56	B0I0902	CS2	1
Surrogate: Decachlorobiphenyl				Recovery: 78%	Limits: 10-139		10/01/20 16:56	B0I0902	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				Recovery: 61%	Limits: 26-107		10/01/20 16:56	B0I0902	CS2	1
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.706	2.00	09/29/20 18:49	B0I0944	WZZ	1
1,1,1-Trichloroethane	17.3	4.00		ug/L	0.719	2.00	09/29/20 18:49	B0I0944	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.713	2.00	09/29/20 18:49	B0I0944	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00		ug/L	0.198	0.600	09/29/20 18:49	B0I0944	WZZ	1
1,1-Dichloroethane	7.21	4.00		ug/L	0.691	2.00	09/29/20 18:49	B0I0944	WZZ	1
1,1-Dichloroethene	< 4.00	8.00		ug/L	1.10	4.00	09/29/20 18:49	B0I0944	WZZ	1
1,1-Dichloropropene	< 1.00	2.00		ug/L	0.462	1.00	09/29/20 18:49	B0I0944	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00		ug/L	0.199	0.600	09/29/20 18:49	B0I0944	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00		ug/L	0.598	2.00	09/29/20 18:49	B0I0944	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00		ug/L	0.753	2.00	09/29/20 18:49	B0I0944	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00		ug/L	1.22	4.00	09/29/20 18:49	B0I0944	WZZ	1
1,2-Dibromoethane	< 1.00	2.00		ug/L	0.420	1.00	09/29/20 18:49	B0I0944	WZZ	1
1,2-Dichloroethane	< 2.00	4.00		ug/L	0.731	2.00	09/29/20 18:49	B0I0944	WZZ	1
1,2-Dichloropropane	< 2.00	4.00		ug/L	0.557	2.00	09/29/20 18:49	B0I0944	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00		ug/L	0.351	1.00	09/29/20 18:49	B0I0944	WZZ	1
1,3-Dichloropropane	< 1.00	2.00		ug/L	0.345	1.00	09/29/20 18:49	B0I0944	WZZ	1
2,2-Dichloropropane	< 4.00	8.00		ug/L	1.03	4.00	09/29/20 18:49	B0I0944	WZZ	1
2-Butanone	< 14.0	28.0		ug/L	4.79	14.0	09/29/20 18:49	B0I0944	WZZ	1
2-Chlorotoluene	< 1.00	2.00		ug/L	0.384	1.00	09/29/20 18:49	B0I0944	WZZ	1
2-Hexanone	< 14.0	28.0		ug/L	4.74	14.0	09/29/20 18:49	B0I0944	WZZ	1
4-Isopropyltoluene	< 2.00	4.00		ug/L	0.930	2.00	09/29/20 18:49	B0I0944	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0		ug/L	4.40	14.0	09/29/20 18:49	B0I0944	WZZ	1
Acetone	< 28.0	70.0	Q, S1	ug/L	9.21	28.0	09/29/20 18:49	B0I0944	WZZ	1
Benzene	< 1.00	2.00		ug/L	0.362	1.00	09/29/20 18:49	B0I0944	WZZ	1
Bromobenzene	< 1.00	2.00		ug/L	0.354	1.00	09/29/20 18:49	B0I0944	WZZ	1
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	09/29/20 18:49	B0I0944	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-4
Report Date: 10/07/2020
Collection Date: 09/24/2020 09:55
Matrix: Groundwater
Lab ID: 20I0861-13 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	09/29/20 18:49	B0I0944	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	09/29/20 18:49	B0I0944	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	09/29/20 18:49	B0I0944	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	09/29/20 18:49	B0I0944	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	09/29/20 18:49	B0I0944	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	09/29/20 18:49	B0I0944	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	09/29/20 18:49	B0I0944	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	09/29/20 18:49	B0I0944	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	09/29/20 18:49	B0I0944	WZZ	1
cis-1,2-Dichloroethene	27.8	4.00		ug/L	0.652	2.00	09/29/20 18:49	B0I0944	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	09/29/20 18:49	B0I0944	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	09/29/20 18:49	B0I0944	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	09/29/20 18:49	B0I0944	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	09/29/20 18:49	B0I0944	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	09/29/20 18:49	B0I0944	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	09/29/20 18:49	B0I0944	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	09/29/20 18:49	B0I0944	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	09/29/20 18:49	B0I0944	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	09/29/20 18:49	B0I0944	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	09/29/20 18:49	B0I0944	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	09/29/20 18:49	B0I0944	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	09/29/20 18:49	B0I0944	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	09/29/20 18:49	B0I0944	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	09/29/20 18:49	B0I0944	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 18:49	B0I0944	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	09/29/20 18:49	B0I0944	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	09/29/20 18:49	B0I0944	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	09/29/20 18:49	B0I0944	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	09/29/20 18:49	B0I0944	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 18:49	B0I0944	WZZ	1
Trichloroethene	10.6	4.00		ug/L	0.939	2.00	09/29/20 18:49	B0I0944	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	09/29/20 18:49	B0I0944	WZZ	1
Vinyl chloride	4.31	4.00		ug/L	0.582	2.00	09/29/20 18:49	B0I0944	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	09/29/20 18:49	B0I0944	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 97%</i>	<i>Limits: 84-137</i>		<i>09/29/20 18:49</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 101%</i>	<i>Limits: 74-140</i>		<i>09/29/20 18:49</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 98%</i>	<i>Limits: 90-105</i>		<i>09/29/20 18:49</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 101%</i>	<i>Limits: 74-109</i>		<i>09/29/20 18:49</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 105%</i>	<i>Limits: 86-128</i>		<i>09/29/20 18:49</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 106%</i>	<i>Limits: 90-128</i>		<i>09/29/20 18:49</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-4
Report Date: 10/07/2020
Collection Date: 09/24/2020 09:55
Matrix: Groundwater
Lab ID: 20I0861-13 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS										
Method: SW8270D / SW3510										
1,2,4-Trichlorobenzene	< 1.07	2.14		ug/L	0.300	1.07	09/30/20 09:52	B0I0881	CP1	1
1,2-Dichlorobenzene	< 1.07	2.14		ug/L	0.321	1.07	09/30/20 09:52	B0I0881	CP1	1
1,3-Dichlorobenzene	< 1.07	2.14		ug/L	0.332	1.07	09/30/20 09:52	B0I0881	CP1	1
1,4-Dichlorobenzene	< 1.07	2.14		ug/L	0.300	1.07	09/30/20 09:52	B0I0881	CP1	1
2,4,5-Trichlorophenol	< 0.535	1.07		ug/L	0.139	0.535	09/30/20 09:52	B0I0881	CP1	1
2,4,6-Trichlorophenol	< 0.535	1.07		ug/L	0.261	0.535	09/30/20 09:52	B0I0881	CP1	1
2,4-Dichlorophenol	< 0.535	1.07		ug/L	0.0844	0.535	09/30/20 09:52	B0I0881	CP1	1
2,4-Dimethylphenol	< 1.07	2.14		ug/L	0.126	1.07	09/30/20 09:52	B0I0881	CP1	1
2,4-Dinitrophenol	< 10.7	32.1		ug/L	3.54	10.7	09/30/20 09:52	B0I0881	CP1	1
2,4-Dinitrotoluene	< 1.07	2.14		ug/L	0.270	1.07	09/30/20 09:52	B0I0881	CP1	1
2,6-Dinitrotoluene	< 0.535	1.07		ug/L	0.246	0.535	09/30/20 09:52	B0I0881	CP1	1
2-Chloronaphthalene	< 0.321	0.642		ug/L	0.113	0.321	09/30/20 09:52	B0I0881	CP1	1
2-Chlorophenol	< 0.535	1.07		ug/L	0.164	0.535	09/30/20 09:52	B0I0881	CP1	1
2-Methylnaphthalene	< 2.14	4.28		ug/L	0.685	2.14	09/30/20 09:52	B0I0881	CP1	1
2-Methylphenol	< 0.535	1.07		ug/L	0.196	0.535	09/30/20 09:52	B0I0881	CP1	1
2-Nitroaniline	< 10.7	32.1		ug/L	2.74	10.7	09/30/20 09:52	B0I0881	CP1	1
2-Nitrophenol	< 0.535	1.07		ug/L	0.224	0.535	09/30/20 09:52	B0I0881	CP1	1
3,3'-Dichlorobenzidine	< 10.7	21.4		ug/L	3.39	10.7	09/30/20 09:52	B0I0881	CP1	1
3 & 4-Methylphenol	< 0.535	1.07		ug/L	0.192	0.535	09/30/20 09:52	B0I0881	CP1	1
3-Nitroaniline	< 1.07	2.14		ug/L	0.385	1.07	09/30/20 09:52	B0I0881	CP1	1
4,6-Dinitro-2-methylphenol	< 5.35	16.1		ug/L	2.62	5.35	09/30/20 09:52	B0I0881	CP1	1
4-Bromophenyl-phenylether	< 0.535	1.07		ug/L	0.171	0.535	09/30/20 09:52	B0I0881	CP1	1
4-Chloro-3-methylphenol	< 0.214	0.535		ug/L	0.0763	0.214	09/30/20 09:52	B0I0881	CP1	1
4-Chloroaniline	< 0.321	0.642		ug/L	0.114	0.321	09/30/20 09:52	B0I0881	CP1	1
4-Chlorophenyl-phenylether	< 0.535	1.07		ug/L	0.156	0.535	09/30/20 09:52	B0I0881	CP1	1
4-Nitroaniline	< 10.7	32.1		ug/L	4.04	10.7	09/30/20 09:52	B0I0881	CP1	1
4-Nitrophenol	< 5.35	16.1		ug/L	1.54	5.35	09/30/20 09:52	B0I0881	CP1	1
Acenaphthene	< 0.321	0.642		ug/L	0.111	0.321	09/30/20 09:52	B0I0881	CP1	1
Acenaphthylene	< 0.321	0.642		ug/L	0.139	0.321	09/30/20 09:52	B0I0881	CP1	1
Anthracene	< 0.321	0.642		ug/L	0.119	0.321	09/30/20 09:52	B0I0881	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.321	1.07		ug/L	0.0821	0.321	09/30/20 09:52	B0I0881	CP1	1
Benzidine	< 42.8	85.6		ug/L	17.7	42.8	09/30/20 09:52	B0I0881	CP1	1
Benzo(a)anthracene	< 0.321	0.642		ug/L	0.132	0.321	09/30/20 09:52	B0I0881	CP1	1
Benzo(a)pyrene	< 1.07	2.14		ug/L	0.402	1.07	09/30/20 09:52	B0I0881	CP1	1
Benzo(b)fluoranthene	< 1.07	2.14		ug/L	0.399	1.07	09/30/20 09:52	B0I0881	CP1	1
Benzo(g,h,i)perylene	< 1.07	2.14		ug/L	0.428	1.07	09/30/20 09:52	B0I0881	CP1	1
Benzo(k)fluoranthene	< 0.535	2.14		ug/L	0.266	0.535	09/30/20 09:52	B0I0881	CP1	1
Benzoic acid	< 25.7	42.8		ug/L	12.6	25.7	09/30/20 09:52	B0I0881	CP1	1
Benzyl alcohol	< 2.14	4.28		ug/L	0.589	2.14	09/30/20 09:52	B0I0881	CP1	1
Bis(2-chloroethoxy)methane	< 0.535	1.07		ug/L	0.145	0.535	09/30/20 09:52	B0I0881	CP1	1
Bis(2-chloroethyl)ether	< 0.535	1.07		ug/L	0.188	0.535	09/30/20 09:52	B0I0881	CP1	1
Bis(2-chloroisopropyl)ether	< 0.535	1.07		ug/L	0.137	0.535	09/30/20 09:52	B0I0881	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.7	21.4		ug/L	3.89	10.7	09/30/20 09:52	B0I0881	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-4
Report Date: 10/07/2020
Collection Date: 09/24/2020 09:55
Matrix: Groundwater
Lab ID: 20I0861-13 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS (Continued)										
Method: SW8270D / SW3510 (Continued)										
Butyl benzyl phthalate	< 0.535	1.07		ug/L	0.251	0.535	09/30/20 09:52	B0I0881	CP1	1
Carbazole	< 0.535	1.07		ug/L	0.185	0.535	09/30/20 09:52	B0I0881	CP1	1
Chrysene	< 0.321	0.642		ug/L	0.136	0.321	09/30/20 09:52	B0I0881	CP1	1
Dibenzo(a,h)anthracene	< 1.07	2.14		ug/L	0.473	1.07	09/30/20 09:52	B0I0881	CP1	1
Dibenzofuran	< 0.321	0.642		ug/L	0.131	0.321	09/30/20 09:52	B0I0881	CP1	1
Diethyl phthalate	< 3.21	6.42		ug/L	1.25	3.21	09/30/20 09:52	B0I0881	CP1	1
Dimethyl phthalate	< 0.321	0.642		ug/L	0.0945	0.321	09/30/20 09:52	B0I0881	CP1	1
Di-n-butyl phthalate	< 6.42	10.7		ug/L	3.08	6.42	09/30/20 09:52	B0I0881	CP1	1
Di-n-octyl phthalate	< 5.35	10.7		ug/L	2.02	5.35	09/30/20 09:52	B0I0881	CP1	1
Fluoranthene	< 0.535	1.07		ug/L	0.210	0.535	09/30/20 09:52	B0I0881	CP1	1
Fluorene	< 0.321	0.642		ug/L	0.133	0.321	09/30/20 09:52	B0I0881	CP1	1
Hexachlorobenzene	< 0.535	1.07		ug/L	0.177	0.535	09/30/20 09:52	B0I0881	CP1	1
Hexachlorobutadiene	< 0.535	1.07		ug/L	0.268	0.535	09/30/20 09:52	B0I0881	CP1	1
Hexachlorocyclopentadiene	< 5.35	16.1		ug/L	2.34	5.35	09/30/20 09:52	B0I0881	CP1	1
Hexachloroethane	< 0.535	1.07		ug/L	0.236	0.535	09/30/20 09:52	B0I0881	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.07	2.14		ug/L	0.538	1.07	09/30/20 09:52	B0I0881	CP1	1
Isophorone	< 0.321	0.642		ug/L	0.118	0.321	09/30/20 09:52	B0I0881	CP1	1
Naphthalene	< 2.14	4.28		ug/L	0.874	2.14	09/30/20 09:52	B0I0881	CP1	1
Nitrobenzene	< 0.321	0.642		ug/L	0.149	0.321	09/30/20 09:52	B0I0881	CP1	1
N-Nitrosodimethylamine	< 0.535	1.07		ug/L	0.167	0.535	09/30/20 09:52	B0I0881	CP1	1
N-Nitrosodi-n-propylamine	< 1.07	2.14		ug/L	0.341	1.07	09/30/20 09:52	B0I0881	CP1	1
N-Nitrosodiphenylamine	< 0.321	0.642		ug/L	0.111	0.321	09/30/20 09:52	B0I0881	CP1	1
Pentachlorophenol	< 10.7	32.1		ug/L	2.70	10.7	09/30/20 09:52	B0I0881	CP1	1
Phenanthrene	< 0.535	1.07		ug/L	0.221	0.535	09/30/20 09:52	B0I0881	CP1	1
Phenol	< 0.535	1.07		ug/L	0.183	0.535	09/30/20 09:52	B0I0881	CP1	1
Pyrene	< 0.535	1.07		ug/L	0.223	0.535	09/30/20 09:52	B0I0881	CP1	1
Surrogate: 2-Fluorophenol							09/30/20 09:52	B0I0881	CP1	1
Surrogate: Phenol-d5							09/30/20 09:52	B0I0881	CP1	1
Surrogate: Nitrobenzene-d5							09/30/20 09:52	B0I0881	CP1	1
Surrogate: 2-Fluorobiphenyl							09/30/20 09:52	B0I0881	CP1	1
Surrogate: 2,4,6-Tribromophenol							09/30/20 09:52	B0I0881	CP1	1
Surrogate: 4-Terphenyl-d14							09/30/20 09:52	B0I0881	CP1	1

Subcontracted Analyses**Method: SW8260-SIM Modified / SW5030**

1,4-Dioxane	< 0.200	0.500		ug/L	0.0625	0.200	10/02/20 15:43	B0J0077	CP1	1
Surrogate: Toluene-d8							10/02/20 15:43	B0J0077	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-4
Report Date: 10/07/2020
Collection Date: 09/24/2020 09:55
Matrix: Groundwater
Lab ID: 20I0861-14

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Limit									
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.532	1.06			ug/L	0.226	0.532	10/01/20 16:56	B0I0905	CS2	1	
Aroclor 1221	< 0.532	0.638			ug/L	0.204	0.532	10/01/20 16:56	B0I0905	CS2	1	
Aroclor 1232	< 0.532	0.638			ug/L	0.172	0.532	10/01/20 16:56	B0I0905	CS2	1	
Aroclor 1242	< 1.06	2.13			ug/L	0.373	1.06	10/01/20 16:56	B0I0905	CS2	1	
Aroclor 1248	< 0.532	0.638			ug/L	0.170	0.532	10/01/20 16:56	B0I0905	CS2	1	
Aroclor 1254	< 0.532	0.638			ug/L	0.187	0.532	10/01/20 16:56	B0I0905	CS2	1	
Aroclor 1260	< 0.319	0.425			ug/L	0.119	0.319	10/01/20 16:56	B0I0905	CS2	1	
Total PCB	< 0.532	0.638			ug/L	0.204	0.532	10/01/20 16:56	B0I0905	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 97%		Limits: 10-139		10/01/20 16:56	B0I0905	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 73%		Limits: 26-107		10/01/20 16:56	B0I0905	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-6
Report Date: 10/07/2020
Collection Date: 09/25/2020 11:05
Matrix: Groundwater
Lab ID: 20I0861-15

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Wet Chemistry											
Method: SW9060											
Organic Carbon, Total	6.84	1.00			mg/L	0.400	0.800	10/06/20 23:39	B0J0227	TB2	1
Polychlorinated Biphenyls (PCBs) by GC/ECD											
Method: SW8082A / SW3510											
Aroclor 1016	< 0.568	1.14			ug/L	0.241	0.568	10/01/20 17:13	B0I0902	CS2	1
Aroclor 1221	< 0.568	0.682			ug/L	0.218	0.568	10/01/20 17:13	B0I0902	CS2	1
Aroclor 1232	< 0.568	0.682			ug/L	0.184	0.568	10/01/20 17:13	B0I0902	CS2	1
Aroclor 1242	< 1.14	2.27			ug/L	0.398	1.14	10/01/20 17:13	B0I0902	CS2	1
Aroclor 1248	< 0.568	0.682			ug/L	0.182	0.568	10/01/20 17:13	B0I0902	CS2	1
Aroclor 1254	< 0.568	0.682			ug/L	0.200	0.568	10/01/20 17:13	B0I0902	CS2	1
Aroclor 1260	< 0.341	0.455			ug/L	0.128	0.341	10/01/20 17:13	B0I0902	CS2	1
Total PCB	< 0.568	0.682			ug/L	0.218	0.568	10/01/20 17:13	B0I0902	CS2	1
Surrogate: Decachlorobiphenyl					Recovery: 77%	Limits: 10-139		10/01/20 17:13	B0I0902	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene					Recovery: 58%	Limits: 26-107		10/01/20 17:13	B0I0902	CS2	1
Volatile Organic Compounds by GC/MS											
Method: SW8260B / SW5030											
1,1,1,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.706	2.00	09/29/20 19:14	B0I0944	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00			ug/L	0.719	2.00	09/29/20 19:14	B0I0944	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.713	2.00	09/29/20 19:14	B0I0944	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00			ug/L	0.198	0.600	09/29/20 19:14	B0I0944	WZZ	1
1,1-Dichloroethane	< 2.00	4.00			ug/L	0.691	2.00	09/29/20 19:14	B0I0944	WZZ	1
1,1-Dichloroethene	< 4.00	8.00			ug/L	1.10	4.00	09/29/20 19:14	B0I0944	WZZ	1
1,1-Dichloropropene	< 1.00	2.00			ug/L	0.462	1.00	09/29/20 19:14	B0I0944	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00			ug/L	0.199	0.600	09/29/20 19:14	B0I0944	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00			ug/L	0.598	2.00	09/29/20 19:14	B0I0944	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00			ug/L	0.753	2.00	09/29/20 19:14	B0I0944	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00			ug/L	1.22	4.00	09/29/20 19:14	B0I0944	WZZ	1
1,2-Dibromoethane	< 1.00	2.00			ug/L	0.420	1.00	09/29/20 19:14	B0I0944	WZZ	1
1,2-Dichloroethane	< 2.00	4.00			ug/L	0.731	2.00	09/29/20 19:14	B0I0944	WZZ	1
1,2-Dichloropropane	< 2.00	4.00			ug/L	0.557	2.00	09/29/20 19:14	B0I0944	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00			ug/L	0.351	1.00	09/29/20 19:14	B0I0944	WZZ	1
1,3-Dichloropropane	< 1.00	2.00			ug/L	0.345	1.00	09/29/20 19:14	B0I0944	WZZ	1
2,2-Dichloropropane	< 4.00	8.00			ug/L	1.03	4.00	09/29/20 19:14	B0I0944	WZZ	1
2-Butanone	< 14.0	28.0			ug/L	4.79	14.0	09/29/20 19:14	B0I0944	WZZ	1
2-Chlorotoluene	< 1.00	2.00			ug/L	0.384	1.00	09/29/20 19:14	B0I0944	WZZ	1
2-Hexanone	< 14.0	28.0			ug/L	4.74	14.0	09/29/20 19:14	B0I0944	WZZ	1
4-Isopropyltoluene	< 2.00	4.00			ug/L	0.930	2.00	09/29/20 19:14	B0I0944	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0			ug/L	4.40	14.0	09/29/20 19:14	B0I0944	WZZ	1
Acetone	< 28.0	70.0	Q, S1		ug/L	9.21	28.0	09/29/20 19:14	B0I0944	WZZ	1
Benzene	< 1.00	2.00			ug/L	0.362	1.00	09/29/20 19:14	B0I0944	WZZ	1
Bromobenzene	< 1.00	2.00			ug/L	0.354	1.00	09/29/20 19:14	B0I0944	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-6
Report Date: 10/07/2020
Collection Date: 09/25/2020 11:05
Matrix: Groundwater
Lab ID: 20I0861-15 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	09/29/20 19:14	B0I0944	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	09/29/20 19:14	B0I0944	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	09/29/20 19:14	B0I0944	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	09/29/20 19:14	B0I0944	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	09/29/20 19:14	B0I0944	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	09/29/20 19:14	B0I0944	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	09/29/20 19:14	B0I0944	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	09/29/20 19:14	B0I0944	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	09/29/20 19:14	B0I0944	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	09/29/20 19:14	B0I0944	WZZ	1
cis-1,2-Dichloroethene	6.39	4.00		ug/L	0.652	2.00	09/29/20 19:14	B0I0944	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	09/29/20 19:14	B0I0944	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	09/29/20 19:14	B0I0944	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	09/29/20 19:14	B0I0944	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	09/29/20 19:14	B0I0944	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	09/29/20 19:14	B0I0944	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	09/29/20 19:14	B0I0944	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	09/29/20 19:14	B0I0944	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	09/29/20 19:14	B0I0944	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	09/29/20 19:14	B0I0944	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	09/29/20 19:14	B0I0944	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	09/29/20 19:14	B0I0944	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	09/29/20 19:14	B0I0944	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	09/29/20 19:14	B0I0944	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	09/29/20 19:14	B0I0944	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 19:14	B0I0944	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	09/29/20 19:14	B0I0944	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	09/29/20 19:14	B0I0944	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	09/29/20 19:14	B0I0944	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	09/29/20 19:14	B0I0944	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 19:14	B0I0944	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	09/29/20 19:14	B0I0944	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	09/29/20 19:14	B0I0944	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	09/29/20 19:14	B0I0944	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	09/29/20 19:14	B0I0944	WZZ	1
Surrogate: Dibromofluoromethane				Recovery: 102%	Limits: 84-137		09/29/20 19:14	B0I0944	WZZ	1
Surrogate: 1,2-Dichloroethane-d4				Recovery: 106%	Limits: 74-140		09/29/20 19:14	B0I0944	WZZ	1
Surrogate: Fluorobenzene				Recovery: 97%	Limits: 90-105		09/29/20 19:14	B0I0944	WZZ	1
Surrogate: Toluene-d8				Recovery: 98%	Limits: 74-109		09/29/20 19:14	B0I0944	WZZ	1
Surrogate: 4-Bromofluorobenzene				Recovery: 103%	Limits: 86-128		09/29/20 19:14	B0I0944	WZZ	1
Surrogate: 1,2-Dichlorobenzene-d4				Recovery: 101%	Limits: 90-128		09/29/20 19:14	B0I0944	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-6
Report Date: 10/07/2020
Collection Date: 09/25/2020 11:05
Matrix: Groundwater
Lab ID: 20I0861-15 (Continued)

Analyses	Result	EMT		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Reporting Limit	Qual							
Semivolatile Organic Compounds by GC/MS										
Method: SW8270D / SW3510										
1,2,4-Trichlorobenzene	< 1.13	2.27		ug/L	0.317	1.13	09/30/20 10:13	B0I0881	CP1	1
1,2-Dichlorobenzene	< 1.13	2.27		ug/L	0.340	1.13	09/30/20 10:13	B0I0881	CP1	1
1,3-Dichlorobenzene	< 1.13	2.27		ug/L	0.351	1.13	09/30/20 10:13	B0I0881	CP1	1
1,4-Dichlorobenzene	< 1.13	2.27		ug/L	0.317	1.13	09/30/20 10:13	B0I0881	CP1	1
2,4,5-Trichlorophenol	< 0.567	1.13		ug/L	0.147	0.567	09/30/20 10:13	B0I0881	CP1	1
2,4,6-Trichlorophenol	< 0.567	1.13		ug/L	0.276	0.567	09/30/20 10:13	B0I0881	CP1	1
2,4-Dichlorophenol	< 0.567	1.13		ug/L	0.0893	0.567	09/30/20 10:13	B0I0881	CP1	1
2,4-Dimethylphenol	< 1.13	2.27		ug/L	0.133	1.13	09/30/20 10:13	B0I0881	CP1	1
2,4-Dinitrophenol	< 11.3	34.0		ug/L	3.75	11.3	09/30/20 10:13	B0I0881	CP1	1
2,4-Dinitrotoluene	< 1.13	2.27		ug/L	0.286	1.13	09/30/20 10:13	B0I0881	CP1	1
2,6-Dinitrotoluene	< 0.567	1.13		ug/L	0.260	0.567	09/30/20 10:13	B0I0881	CP1	1
2-Chloronaphthalene	< 0.340	0.680		ug/L	0.120	0.340	09/30/20 10:13	B0I0881	CP1	1
2-Chlorophenol	< 0.567	1.13		ug/L	0.174	0.567	09/30/20 10:13	B0I0881	CP1	1
2-Methylnaphthalene	< 2.27	4.53		ug/L	0.725	2.27	09/30/20 10:13	B0I0881	CP1	1
2-Methylphenol	< 0.567	1.13		ug/L	0.207	0.567	09/30/20 10:13	B0I0881	CP1	1
2-Nitroaniline	< 11.3	34.0		ug/L	2.90	11.3	09/30/20 10:13	B0I0881	CP1	1
2-Nitrophenol	< 0.567	1.13		ug/L	0.237	0.567	09/30/20 10:13	B0I0881	CP1	1
3,3'-Dichlorobenzidine	< 11.3	22.7		ug/L	3.58	11.3	09/30/20 10:13	B0I0881	CP1	1
3 & 4-Methylphenol	< 0.567	1.13		ug/L	0.203	0.567	09/30/20 10:13	B0I0881	CP1	1
3-Nitroaniline	< 1.13	2.27		ug/L	0.408	1.13	09/30/20 10:13	B0I0881	CP1	1
4,6-Dinitro-2-methylphenol	< 5.67	17.0		ug/L	2.78	5.67	09/30/20 10:13	B0I0881	CP1	1
4-Bromophenyl-phenylether	< 0.567	1.13		ug/L	0.181	0.567	09/30/20 10:13	B0I0881	CP1	1
4-Chloro-3-methylphenol	< 0.227	0.567		ug/L	0.0808	0.227	09/30/20 10:13	B0I0881	CP1	1
4-Chloroaniline	< 0.340	0.680		ug/L	0.121	0.340	09/30/20 10:13	B0I0881	CP1	1
4-Chlorophenyl-phenylether	< 0.567	1.13		ug/L	0.165	0.567	09/30/20 10:13	B0I0881	CP1	1
4-Nitroaniline	< 11.3	34.0		ug/L	4.28	11.3	09/30/20 10:13	B0I0881	CP1	1
4-Nitrophenol	< 5.67	17.0		ug/L	1.63	5.67	09/30/20 10:13	B0I0881	CP1	1
Acenaphthene	< 0.340	0.680		ug/L	0.118	0.340	09/30/20 10:13	B0I0881	CP1	1
Acenaphthylene	< 0.340	0.680		ug/L	0.147	0.340	09/30/20 10:13	B0I0881	CP1	1
Anthracene	< 0.340	0.680		ug/L	0.126	0.340	09/30/20 10:13	B0I0881	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.340	1.13		ug/L	0.0869	0.340	09/30/20 10:13	B0I0881	CP1	1
Benzidine	< 45.3	90.6		ug/L	18.8	45.3	09/30/20 10:13	B0I0881	CP1	1
Benzo(a)anthracene	< 0.340	0.680		ug/L	0.140	0.340	09/30/20 10:13	B0I0881	CP1	1
Benzo(a)pyrene	< 1.13	2.27		ug/L	0.426	1.13	09/30/20 10:13	B0I0881	CP1	1
Benzo(b)fluoranthene	< 1.13	2.27		ug/L	0.422	1.13	09/30/20 10:13	B0I0881	CP1	1
Benzo(g,h,i)perylene	< 1.13	2.27		ug/L	0.453	1.13	09/30/20 10:13	B0I0881	CP1	1
Benzo(k)fluoranthene	< 0.567	2.27		ug/L	0.282	0.567	09/30/20 10:13	B0I0881	CP1	1
Benzoic acid	< 27.2	45.3		ug/L	13.3	27.2	09/30/20 10:13	B0I0881	CP1	1
Benzyl alcohol	< 2.27	4.53		ug/L	0.623	2.27	09/30/20 10:13	B0I0881	CP1	1
Bis(2-chloroethoxy)methane	< 0.567	1.13		ug/L	0.153	0.567	09/30/20 10:13	B0I0881	CP1	1
Bis(2-chloroethyl)ether	< 0.567	1.13		ug/L	0.199	0.567	09/30/20 10:13	B0I0881	CP1	1
Bis(2-chloroisopropyl)ether	< 0.567	1.13		ug/L	0.145	0.567	09/30/20 10:13	B0I0881	CP1	1
Bis(2-ethylhexyl)phthalate	< 11.3	22.7		ug/L	4.11	11.3	09/30/20 10:13	B0I0881	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-6
Report Date: 10/07/2020
Collection Date: 09/25/2020 11:05
Matrix: Groundwater
Lab ID: 20I0861-15 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS (Continued)										
Method: SW8270D / SW3510 (Continued)										
Butyl benzyl phthalate	< 0.567	1.13		ug/L	0.265	0.567	09/30/20 10:13	B0I0881	CP1	1
Carbazole	< 0.567	1.13		ug/L	0.196	0.567	09/30/20 10:13	B0I0881	CP1	1
Chrysene	< 0.340	0.680		ug/L	0.144	0.340	09/30/20 10:13	B0I0881	CP1	1
Dibenzo(a,h)anthracene	< 1.13	2.27		ug/L	0.501	1.13	09/30/20 10:13	B0I0881	CP1	1
Dibenzofuran	< 0.340	0.680		ug/L	0.139	0.340	09/30/20 10:13	B0I0881	CP1	1
Diethyl phthalate	< 3.40	6.80		ug/L	1.32	3.40	09/30/20 10:13	B0I0881	CP1	1
Dimethyl phthalate	< 0.340	0.680		ug/L	0.100	0.340	09/30/20 10:13	B0I0881	CP1	1
Di-n-butyl phthalate	< 6.80	11.3		ug/L	3.26	6.80	09/30/20 10:13	B0I0881	CP1	1
Di-n-octyl phthalate	< 5.67	11.3		ug/L	2.14	5.67	09/30/20 10:13	B0I0881	CP1	1
Fluoranthene	< 0.567	1.13		ug/L	0.223	0.567	09/30/20 10:13	B0I0881	CP1	1
Fluorene	< 0.340	0.680		ug/L	0.140	0.340	09/30/20 10:13	B0I0881	CP1	1
Hexachlorobenzene	< 0.567	1.13		ug/L	0.187	0.567	09/30/20 10:13	B0I0881	CP1	1
Hexachlorobutadiene	< 0.567	1.13		ug/L	0.283	0.567	09/30/20 10:13	B0I0881	CP1	1
Hexachlorocyclopentadiene	< 5.67	17.0		ug/L	2.48	5.67	09/30/20 10:13	B0I0881	CP1	1
Hexachloroethane	< 0.567	1.13		ug/L	0.249	0.567	09/30/20 10:13	B0I0881	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.13	2.27		ug/L	0.569	1.13	09/30/20 10:13	B0I0881	CP1	1
Isophorone	< 0.340	0.680		ug/L	0.125	0.340	09/30/20 10:13	B0I0881	CP1	1
Naphthalene	< 2.27	4.53		ug/L	0.925	2.27	09/30/20 10:13	B0I0881	CP1	1
Nitrobenzene	< 0.340	0.680		ug/L	0.158	0.340	09/30/20 10:13	B0I0881	CP1	1
N-Nitrosodimethylamine	< 0.567	1.13		ug/L	0.177	0.567	09/30/20 10:13	B0I0881	CP1	1
N-Nitrosodi-n-propylamine	< 1.13	2.27		ug/L	0.361	1.13	09/30/20 10:13	B0I0881	CP1	1
N-Nitrosodiphenylamine	< 0.340	0.680		ug/L	0.118	0.340	09/30/20 10:13	B0I0881	CP1	1
Pentachlorophenol	< 11.3	34.0		ug/L	2.86	11.3	09/30/20 10:13	B0I0881	CP1	1
Phenanthrene	< 0.567	1.13		ug/L	0.233	0.567	09/30/20 10:13	B0I0881	CP1	1
Phenol	< 0.567	1.13		ug/L	0.193	0.567	09/30/20 10:13	B0I0881	CP1	1
Pyrene	< 0.567	1.13		ug/L	0.236	0.567	09/30/20 10:13	B0I0881	CP1	1
Surrogate: 2-Fluorophenol							09/30/20 10:13	B0I0881	CP1	1
Surrogate: Phenol-d5							09/30/20 10:13	B0I0881	CP1	1
Surrogate: Nitrobenzene-d5							09/30/20 10:13	B0I0881	CP1	1
Surrogate: 2-Fluorobiphenyl							09/30/20 10:13	B0I0881	CP1	1
Surrogate: 2,4,6-Tribromophenol							09/30/20 10:13	B0I0881	CP1	1
Surrogate: 4-Terphenyl-d14							09/30/20 10:13	B0I0881	CP1	1

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	28.2	2.50		ug/L	0.312	1.00	10/02/20 12:29	B0J0077	CP1	5
Surrogate: Toluene-d8							10/02/20 12:29	B0J0077	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-6
Report Date: 10/07/2020
Collection Date: 09/25/2020 11:05
Matrix: Groundwater
Lab ID: 20I0861-16

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual								
Polychlorinated Biphenyls (PCBs) by GC/ECD											
Method: SW8082A / SW3510											
Aroclor 1016	< 0.534	1.07		ug/L	0.226	0.534	10/01/20 17:13	B0I0905	CS2	1	
Aroclor 1221	< 0.534	0.640		ug/L	0.204	0.534	10/01/20 17:13	B0I0905	CS2	1	
Aroclor 1232	< 0.534	0.640		ug/L	0.173	0.534	10/01/20 17:13	B0I0905	CS2	1	
Aroclor 1242	< 1.07	2.13		ug/L	0.374	1.07	10/01/20 17:13	B0I0905	CS2	1	
Aroclor 1248	< 0.534	0.640		ug/L	0.171	0.534	10/01/20 17:13	B0I0905	CS2	1	
Aroclor 1254	< 0.534	0.640		ug/L	0.187	0.534	10/01/20 17:13	B0I0905	CS2	1	
Aroclor 1260	< 0.320	0.427		ug/L	0.120	0.320	10/01/20 17:13	B0I0905	CS2	1	
Total PCB	< 0.534	0.640		ug/L	0.204	0.534	10/01/20 17:13	B0I0905	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>				Recovery: 85%		Limits: 10-139		10/01/20 17:13	B0I0905	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>				Recovery: 60%		Limits: 26-107		10/01/20 17:13	B0I0905	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-7
Report Date: 10/07/2020
Collection Date: 09/24/2020 16:05
Matrix: Groundwater
Lab ID: 20I0861-17

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Limit									
Wet Chemistry												
Method: SW9060												
Organic Carbon, Total	3.05	1.00			mg/L	0.400	0.800	10/07/20 00:01	B0J0227	TB2	1	
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.508	1.02			ug/L	0.215	0.508	10/01/20 17:30	B0I0902	CS2	1	
Aroclor 1221	< 0.508	0.609			ug/L	0.194	0.508	10/01/20 17:30	B0I0902	CS2	1	
Aroclor 1232	< 0.508	0.609			ug/L	0.165	0.508	10/01/20 17:30	B0I0902	CS2	1	
Aroclor 1242	< 1.02	2.03			ug/L	0.356	1.02	10/01/20 17:30	B0I0902	CS2	1	
Aroclor 1248	< 0.508	0.609			ug/L	0.162	0.508	10/01/20 17:30	B0I0902	CS2	1	
Aroclor 1254	< 0.508	0.609			ug/L	0.178	0.508	10/01/20 17:30	B0I0902	CS2	1	
Aroclor 1260	< 0.305	0.406			ug/L	0.114	0.305	10/01/20 17:30	B0I0902	CS2	1	
Total PCB	< 0.508	0.609			ug/L	0.194	0.508	10/01/20 17:30	B0I0902	CS2	1	
Surrogate: Decachlorobiphenyl					Recovery: 81%		Limits: 10-139		10/01/20 17:30		B0I0902	CS2 1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene					Recovery: 70%		Limits: 26-107		10/01/20 17:30		B0I0902	CS2 1
Volatile Organic Compounds by GC/MS												
Method: SW8260B / SW5030												
1,1,1,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.706	2.00	09/29/20 19:40	B0I0944	WZZ	1	
1,1,1-Trichloroethane	< 2.00	4.00			ug/L	0.719	2.00	09/29/20 19:40	B0I0944	WZZ	1	
1,1,2,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.713	2.00	09/29/20 19:40	B0I0944	WZZ	1	
1,1,2-Trichloroethane	< 0.600	2.00			ug/L	0.198	0.600	09/29/20 19:40	B0I0944	WZZ	1	
1,1-Dichloroethane	< 2.00	4.00			ug/L	0.691	2.00	09/29/20 19:40	B0I0944	WZZ	1	
1,1-Dichloroethene	< 4.00	8.00			ug/L	1.10	4.00	09/29/20 19:40	B0I0944	WZZ	1	
1,1-Dichloropropene	< 1.00	2.00			ug/L	0.462	1.00	09/29/20 19:40	B0I0944	WZZ	1	
1,2,3-Trichlorobenzene	< 0.600	2.00			ug/L	0.199	0.600	09/29/20 19:40	B0I0944	WZZ	1	
1,2,3-Trichloropropane	< 2.00	4.00			ug/L	0.598	2.00	09/29/20 19:40	B0I0944	WZZ	1	
1,2,4-Trimethylbenzene	< 2.00	4.00			ug/L	0.753	2.00	09/29/20 19:40	B0I0944	WZZ	1	
1,2-Dibromo-3-chloropropane	< 4.00	8.00			ug/L	1.22	4.00	09/29/20 19:40	B0I0944	WZZ	1	
1,2-Dibromoethane	< 1.00	2.00			ug/L	0.420	1.00	09/29/20 19:40	B0I0944	WZZ	1	
1,2-Dichloroethane	< 2.00	4.00			ug/L	0.731	2.00	09/29/20 19:40	B0I0944	WZZ	1	
1,2-Dichloropropane	< 2.00	4.00			ug/L	0.557	2.00	09/29/20 19:40	B0I0944	WZZ	1	
1,3,5-Trimethylbenzene	< 1.00	2.00			ug/L	0.351	1.00	09/29/20 19:40	B0I0944	WZZ	1	
1,3-Dichloropropane	< 1.00	2.00			ug/L	0.345	1.00	09/29/20 19:40	B0I0944	WZZ	1	
2,2-Dichloropropane	< 4.00	8.00			ug/L	1.03	4.00	09/29/20 19:40	B0I0944	WZZ	1	
2-Butanone	< 14.0	28.0			ug/L	4.79	14.0	09/29/20 19:40	B0I0944	WZZ	1	
2-Chlorotoluene	< 1.00	2.00			ug/L	0.384	1.00	09/29/20 19:40	B0I0944	WZZ	1	
2-Hexanone	< 14.0	28.0			ug/L	4.74	14.0	09/29/20 19:40	B0I0944	WZZ	1	
4-Isopropyltoluene	< 2.00	4.00			ug/L	0.930	2.00	09/29/20 19:40	B0I0944	WZZ	1	
4-Methyl-2-pentanone	< 14.0	28.0			ug/L	4.40	14.0	09/29/20 19:40	B0I0944	WZZ	1	
Acetone	< 28.0	70.0	Q, S1		ug/L	9.21	28.0	09/29/20 19:40	B0I0944	WZZ	1	
Benzene	< 1.00	2.00			ug/L	0.362	1.00	09/29/20 19:40	B0I0944	WZZ	1	
Bromobenzene	< 1.00	2.00			ug/L	0.354	1.00	09/29/20 19:40	B0I0944	WZZ	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-7
Report Date: 10/07/2020
Collection Date: 09/24/2020 16:05
Matrix: Groundwater
Lab ID: 20I0861-17 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	09/29/20 19:40	B0I0944	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	09/29/20 19:40	B0I0944	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	09/29/20 19:40	B0I0944	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	09/29/20 19:40	B0I0944	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	09/29/20 19:40	B0I0944	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	09/29/20 19:40	B0I0944	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	09/29/20 19:40	B0I0944	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	09/29/20 19:40	B0I0944	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	09/29/20 19:40	B0I0944	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	09/29/20 19:40	B0I0944	WZZ	1
cis-1,2-Dichloroethene	48.8	4.00		ug/L	0.652	2.00	09/29/20 19:40	B0I0944	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	09/29/20 19:40	B0I0944	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	09/29/20 19:40	B0I0944	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	09/29/20 19:40	B0I0944	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	09/29/20 19:40	B0I0944	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	09/29/20 19:40	B0I0944	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	09/29/20 19:40	B0I0944	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	09/29/20 19:40	B0I0944	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	09/29/20 19:40	B0I0944	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	09/29/20 19:40	B0I0944	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	09/29/20 19:40	B0I0944	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	09/29/20 19:40	B0I0944	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	09/29/20 19:40	B0I0944	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	09/29/20 19:40	B0I0944	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	09/29/20 19:40	B0I0944	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 19:40	B0I0944	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	09/29/20 19:40	B0I0944	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	09/29/20 19:40	B0I0944	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	09/29/20 19:40	B0I0944	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	09/29/20 19:40	B0I0944	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 19:40	B0I0944	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	09/29/20 19:40	B0I0944	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	09/29/20 19:40	B0I0944	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	09/29/20 19:40	B0I0944	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	09/29/20 19:40	B0I0944	WZZ	1
Surrogate: Dibromofluoromethane				Recovery: 104%	Limits: 84-137		09/29/20 19:40	B0I0944	WZZ	1
Surrogate: 1,2-Dichloroethane-d4				Recovery: 104%	Limits: 74-140		09/29/20 19:40	B0I0944	WZZ	1
Surrogate: Fluorobenzene				Recovery: 102%	Limits: 90-105		09/29/20 19:40	B0I0944	WZZ	1
Surrogate: Toluene-d8				Recovery: 102%	Limits: 74-109		09/29/20 19:40	B0I0944	WZZ	1
Surrogate: 4-Bromofluorobenzene				Recovery: 102%	Limits: 86-128		09/29/20 19:40	B0I0944	WZZ	1
Surrogate: 1,2-Dichlorobenzene-d4				Recovery: 99%	Limits: 90-128		09/29/20 19:40	B0I0944	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-7
Report Date: 10/07/2020
Collection Date: 09/24/2020 16:05
Matrix: Groundwater
Lab ID: 20I0861-17 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Semivolatile Organic Compounds by GC/MS											
Method: SW8270D / SW3510											
1,2,4-Trichlorobenzene	< 1.05	2.10			ug/L	0.294	1.05	09/30/20 10:34	B0I0881	CP1	1
1,2-Dichlorobenzene	< 1.05	2.10			ug/L	0.315	1.05	09/30/20 10:34	B0I0881	CP1	1
1,3-Dichlorobenzene	< 1.05	2.10			ug/L	0.326	1.05	09/30/20 10:34	B0I0881	CP1	1
1,4-Dichlorobenzene	< 1.05	2.10			ug/L	0.294	1.05	09/30/20 10:34	B0I0881	CP1	1
2,4,5-Trichlorophenol	< 0.526	1.05			ug/L	0.136	0.526	09/30/20 10:34	B0I0881	CP1	1
2,4,6-Trichlorophenol	< 0.526	1.05			ug/L	0.256	0.526	09/30/20 10:34	B0I0881	CP1	1
2,4-Dichlorophenol	< 0.526	1.05			ug/L	0.0828	0.526	09/30/20 10:34	B0I0881	CP1	1
2,4-Dimethylphenol	< 1.05	2.10			ug/L	0.123	1.05	09/30/20 10:34	B0I0881	CP1	1
2,4-Dinitrophenol	< 10.5	31.5			ug/L	3.48	10.5	09/30/20 10:34	B0I0881	CP1	1
2,4-Dinitrotoluene	< 1.05	2.10			ug/L	0.265	1.05	09/30/20 10:34	B0I0881	CP1	1
2,6-Dinitrotoluene	< 0.526	1.05			ug/L	0.242	0.526	09/30/20 10:34	B0I0881	CP1	1
2-Chloronaphthalene	< 0.315	0.631			ug/L	0.111	0.315	09/30/20 10:34	B0I0881	CP1	1
2-Chlorophenol	< 0.526	1.05			ug/L	0.161	0.526	09/30/20 10:34	B0I0881	CP1	1
2-Methylnaphthalene	< 2.10	4.20			ug/L	0.673	2.10	09/30/20 10:34	B0I0881	CP1	1
2-Methylphenol	< 0.526	1.05			ug/L	0.192	0.526	09/30/20 10:34	B0I0881	CP1	1
2-Nitroaniline	< 10.5	31.5			ug/L	2.69	10.5	09/30/20 10:34	B0I0881	CP1	1
2-Nitrophenol	< 0.526	1.05			ug/L	0.220	0.526	09/30/20 10:34	B0I0881	CP1	1
3,3'-Dichlorobenzidine	< 10.5	21.0			ug/L	3.33	10.5	09/30/20 10:34	B0I0881	CP1	1
3 & 4-Methylphenol	< 0.526	1.05			ug/L	0.188	0.526	09/30/20 10:34	B0I0881	CP1	1
3-Nitroaniline	< 1.05	2.10			ug/L	0.378	1.05	09/30/20 10:34	B0I0881	CP1	1
4,6-Dinitro-2-methylphenol	< 5.26	15.8			ug/L	2.58	5.26	09/30/20 10:34	B0I0881	CP1	1
4-Bromophenyl-phenylether	< 0.526	1.05			ug/L	0.168	0.526	09/30/20 10:34	B0I0881	CP1	1
4-Chloro-3-methylphenol	< 0.210	0.526			ug/L	0.0750	0.210	09/30/20 10:34	B0I0881	CP1	1
4-Chloroaniline	< 0.315	0.631			ug/L	0.112	0.315	09/30/20 10:34	B0I0881	CP1	1
4-Chlorophenyl-phenylether	< 0.526	1.05			ug/L	0.153	0.526	09/30/20 10:34	B0I0881	CP1	1
4-Nitroaniline	< 10.5	31.5			ug/L	3.97	10.5	09/30/20 10:34	B0I0881	CP1	1
4-Nitrophenol	< 5.26	15.8			ug/L	1.51	5.26	09/30/20 10:34	B0I0881	CP1	1
Acenaphthene	< 0.315	0.631			ug/L	0.109	0.315	09/30/20 10:34	B0I0881	CP1	1
Acenaphthylene	< 0.315	0.631			ug/L	0.137	0.315	09/30/20 10:34	B0I0881	CP1	1
Anthracene	< 0.315	0.631			ug/L	0.117	0.315	09/30/20 10:34	B0I0881	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.315	1.05			ug/L	0.0806	0.315	09/30/20 10:34	B0I0881	CP1	1
Benzidine	< 42.0	84.1			ug/L	17.4	42.0	09/30/20 10:34	B0I0881	CP1	1
Benzo(a)anthracene	< 0.315	0.631			ug/L	0.130	0.315	09/30/20 10:34	B0I0881	CP1	1
Benzo(a)pyrene	< 1.05	2.10			ug/L	0.395	1.05	09/30/20 10:34	B0I0881	CP1	1
Benzo(b)fluoranthene	< 1.05	2.10			ug/L	0.391	1.05	09/30/20 10:34	B0I0881	CP1	1
Benzo(g,h,i)perylene	< 1.05	2.10			ug/L	0.420	1.05	09/30/20 10:34	B0I0881	CP1	1
Benzo(k)fluoranthene	< 0.526	2.10			ug/L	0.262	0.526	09/30/20 10:34	B0I0881	CP1	1
Benzoic acid	< 25.2	42.0			ug/L	12.3	25.2	09/30/20 10:34	B0I0881	CP1	1
Benzyl alcohol	< 2.10	4.20			ug/L	0.578	2.10	09/30/20 10:34	B0I0881	CP1	1
Bis(2-chloroethoxy)methane	< 0.526	1.05			ug/L	0.142	0.526	09/30/20 10:34	B0I0881	CP1	1
Bis(2-chloroethyl)ether	< 0.526	1.05			ug/L	0.185	0.526	09/30/20 10:34	B0I0881	CP1	1
Bis(2-chloroisopropyl)ether	< 0.526	1.05			ug/L	0.135	0.526	09/30/20 10:34	B0I0881	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.5	21.0			ug/L	3.82	10.5	09/30/20 10:34	B0I0881	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-7
Report Date: 10/07/2020
Collection Date: 09/24/2020 16:05
Matrix: Groundwater
Lab ID: 20I0861-17 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS (Continued)										
Method: SW8270D / SW3510 (Continued)										
Butyl benzyl phthalate	< 0.526	1.05		ug/L	0.246	0.526	09/30/20 10:34	B0I0881	CP1	1
Carbazole	< 0.526	1.05		ug/L	0.182	0.526	09/30/20 10:34	B0I0881	CP1	1
Chrysene	< 0.315	0.631		ug/L	0.133	0.315	09/30/20 10:34	B0I0881	CP1	1
Dibenzo(a,h)anthracene	< 1.05	2.10		ug/L	0.464	1.05	09/30/20 10:34	B0I0881	CP1	1
Dibenzofuran	< 0.315	0.631		ug/L	0.129	0.315	09/30/20 10:34	B0I0881	CP1	1
Diethyl phthalate	< 3.15	6.31		ug/L	1.22	3.15	09/30/20 10:34	B0I0881	CP1	1
Dimethyl phthalate	< 0.315	0.631		ug/L	0.0928	0.315	09/30/20 10:34	B0I0881	CP1	1
Di-n-butyl phthalate	< 6.31	10.5		ug/L	3.03	6.31	09/30/20 10:34	B0I0881	CP1	1
Di-n-octyl phthalate	< 5.26	10.5		ug/L	1.99	5.26	09/30/20 10:34	B0I0881	CP1	1
Fluoranthene	< 0.526	1.05		ug/L	0.206	0.526	09/30/20 10:34	B0I0881	CP1	1
Fluorene	< 0.315	0.631		ug/L	0.130	0.315	09/30/20 10:34	B0I0881	CP1	1
Hexachlorobenzene	< 0.526	1.05		ug/L	0.173	0.526	09/30/20 10:34	B0I0881	CP1	1
Hexachlorobutadiene	< 0.526	1.05		ug/L	0.263	0.526	09/30/20 10:34	B0I0881	CP1	1
Hexachlorocyclopentadiene	< 5.26	15.8		ug/L	2.30	5.26	09/30/20 10:34	B0I0881	CP1	1
Hexachloroethane	< 0.526	1.05		ug/L	0.231	0.526	09/30/20 10:34	B0I0881	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.05	2.10		ug/L	0.528	1.05	09/30/20 10:34	B0I0881	CP1	1
Isophorone	< 0.315	0.631		ug/L	0.116	0.315	09/30/20 10:34	B0I0881	CP1	1
Naphthalene	< 2.10	4.20		ug/L	0.858	2.10	09/30/20 10:34	B0I0881	CP1	1
Nitrobenzene	< 0.315	0.631		ug/L	0.147	0.315	09/30/20 10:34	B0I0881	CP1	1
N-Nitrosodimethylamine	< 0.526	1.05		ug/L	0.164	0.526	09/30/20 10:34	B0I0881	CP1	1
N-Nitrosodi-n-propylamine	< 1.05	2.10		ug/L	0.335	1.05	09/30/20 10:34	B0I0881	CP1	1
N-Nitrosodiphenylamine	< 0.315	0.631		ug/L	0.109	0.315	09/30/20 10:34	B0I0881	CP1	1
Pentachlorophenol	< 10.5	31.5		ug/L	2.65	10.5	09/30/20 10:34	B0I0881	CP1	1
Phenanthrene	< 0.526	1.05		ug/L	0.217	0.526	09/30/20 10:34	B0I0881	CP1	1
Phenol	< 0.526	1.05		ug/L	0.179	0.526	09/30/20 10:34	B0I0881	CP1	1
Pyrene	< 0.526	1.05		ug/L	0.219	0.526	09/30/20 10:34	B0I0881	CP1	1
Surrogate: 2-Fluorophenol							09/30/20 10:34	B0I0881	CP1	1
Surrogate: Phenol-d5							09/30/20 10:34	B0I0881	CP1	1
Surrogate: Nitrobenzene-d5							09/30/20 10:34	B0I0881	CP1	1
Surrogate: 2-Fluorobiphenyl							09/30/20 10:34	B0I0881	CP1	1
Surrogate: 2,4,6-Tribromophenol							09/30/20 10:34	B0I0881	CP1	1
Surrogate: 4-Terphenyl-d14							09/30/20 10:34	B0I0881	CP1	1

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500		ug/L	0.0625	0.200	10/02/20 16:08	B0J0077	CP1	1
Surrogate: Toluene-d8			S				10/02/20 16:08	B0J0077	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-7
Report Date: 10/07/2020
Collection Date: 09/24/2020 16:05
Matrix: Groundwater
Lab ID: 20I0861-18

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3510										
Aroclor 1016	< 0.520	1.04		ug/L	0.221	0.520	10/01/20 17:30	B0I0905	CS2	1
Aroclor 1221	< 0.520	0.625		ug/L	0.199	0.520	10/01/20 17:30	B0I0905	CS2	1
Aroclor 1232	< 0.520	0.625		ug/L	0.169	0.520	10/01/20 17:30	B0I0905	CS2	1
Aroclor 1242	< 1.04	2.08		ug/L	0.365	1.04	10/01/20 17:30	B0I0905	CS2	1
Aroclor 1248	< 0.520	0.625		ug/L	0.166	0.520	10/01/20 17:30	B0I0905	CS2	1
Aroclor 1254	< 0.520	0.625		ug/L	0.183	0.520	10/01/20 17:30	B0I0905	CS2	1
Aroclor 1260	< 0.312	0.416		ug/L	0.117	0.312	10/01/20 17:30	B0I0905	CS2	1
Total PCB	< 0.520	0.625		ug/L	0.199	0.520	10/01/20 17:30	B0I0905	CS2	1
<i>Surrogate: Decachlorobiphenyl</i>				Recovery: 94%	Limits: 10-139		10/01/20 17:30	B0I0905	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>				Recovery: 65%	Limits: 26-107		10/01/20 17:30	B0I0905	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-8
Report Date: 10/07/2020
Collection Date: 09/24/2020 09:55
Matrix: Groundwater
Lab ID: 20I0861-19

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Wet Chemistry											
Method: SW9060											
Organic Carbon, Total	3.88	1.00			mg/L	0.400	0.800	10/07/20 00:23	B0J0227	TB2	1
Polychlorinated Biphenyls (PCBs) by GC/ECD											
Method: SW8082A / SW3510											
Aroclor 1016	< 0.508	1.02			ug/L	0.215	0.508	10/01/20 17:47	B0I0902	CS2	1
Aroclor 1221	< 0.508	0.609			ug/L	0.194	0.508	10/01/20 17:47	B0I0902	CS2	1
Aroclor 1232	< 0.508	0.609			ug/L	0.165	0.508	10/01/20 17:47	B0I0902	CS2	1
Aroclor 1242	< 1.02	2.03			ug/L	0.356	1.02	10/01/20 17:47	B0I0902	CS2	1
Aroclor 1248	< 0.508	0.609			ug/L	0.162	0.508	10/01/20 17:47	B0I0902	CS2	1
Aroclor 1254	< 0.508	0.609			ug/L	0.178	0.508	10/01/20 17:47	B0I0902	CS2	1
Aroclor 1260	< 0.305	0.406			ug/L	0.114	0.305	10/01/20 17:47	B0I0902	CS2	1
Total PCB	< 0.508	0.609			ug/L	0.194	0.508	10/01/20 17:47	B0I0902	CS2	1
Surrogate: Decachlorobiphenyl					Recovery: 76%	Limits: 10-139		10/01/20 17:47	B0I0902	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene					Recovery: 60%	Limits: 26-107		10/01/20 17:47	B0I0902	CS2	1
Volatile Organic Compounds by GC/MS											
Method: SW8260B / SW5030											
1,1,1,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.706	2.00	09/29/20 20:06	B0I0944	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00			ug/L	0.719	2.00	09/29/20 20:06	B0I0944	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.713	2.00	09/29/20 20:06	B0I0944	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00			ug/L	0.198	0.600	09/29/20 20:06	B0I0944	WZZ	1
1,1-Dichloroethane	< 2.00	4.00			ug/L	0.691	2.00	09/29/20 20:06	B0I0944	WZZ	1
1,1-Dichloroethene	< 4.00	8.00			ug/L	1.10	4.00	09/29/20 20:06	B0I0944	WZZ	1
1,1-Dichloropropene	< 1.00	2.00			ug/L	0.462	1.00	09/29/20 20:06	B0I0944	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00			ug/L	0.199	0.600	09/29/20 20:06	B0I0944	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00			ug/L	0.598	2.00	09/29/20 20:06	B0I0944	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00			ug/L	0.753	2.00	09/29/20 20:06	B0I0944	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00			ug/L	1.22	4.00	09/29/20 20:06	B0I0944	WZZ	1
1,2-Dibromoethane	< 1.00	2.00			ug/L	0.420	1.00	09/29/20 20:06	B0I0944	WZZ	1
1,2-Dichloroethane	< 2.00	4.00			ug/L	0.731	2.00	09/29/20 20:06	B0I0944	WZZ	1
1,2-Dichloropropane	< 2.00	4.00			ug/L	0.557	2.00	09/29/20 20:06	B0I0944	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00			ug/L	0.351	1.00	09/29/20 20:06	B0I0944	WZZ	1
1,3-Dichloropropane	< 1.00	2.00			ug/L	0.345	1.00	09/29/20 20:06	B0I0944	WZZ	1
2,2-Dichloropropane	< 4.00	8.00			ug/L	1.03	4.00	09/29/20 20:06	B0I0944	WZZ	1
2-Butanone	< 14.0	28.0			ug/L	4.79	14.0	09/29/20 20:06	B0I0944	WZZ	1
2-Chlorotoluene	< 1.00	2.00			ug/L	0.384	1.00	09/29/20 20:06	B0I0944	WZZ	1
2-Hexanone	< 14.0	28.0			ug/L	4.74	14.0	09/29/20 20:06	B0I0944	WZZ	1
4-Isopropyltoluene	< 2.00	4.00			ug/L	0.930	2.00	09/29/20 20:06	B0I0944	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0			ug/L	4.40	14.0	09/29/20 20:06	B0I0944	WZZ	1
Acetone	< 28.0	70.0	Q, S1		ug/L	9.21	28.0	09/29/20 20:06	B0I0944	WZZ	1
Benzene	< 1.00	2.00			ug/L	0.362	1.00	09/29/20 20:06	B0I0944	WZZ	1
Bromobenzene	< 1.00	2.00			ug/L	0.354	1.00	09/29/20 20:06	B0I0944	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-8
Report Date: 10/07/2020
Collection Date: 09/24/2020 09:55
Matrix: Groundwater
Lab ID: 20I0861-19 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	09/29/20 20:06	B0I0944	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	09/29/20 20:06	B0I0944	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	09/29/20 20:06	B0I0944	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	09/29/20 20:06	B0I0944	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	09/29/20 20:06	B0I0944	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	09/29/20 20:06	B0I0944	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	09/29/20 20:06	B0I0944	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	09/29/20 20:06	B0I0944	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	09/29/20 20:06	B0I0944	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	09/29/20 20:06	B0I0944	WZZ	1
cis-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.652	2.00	09/29/20 20:06	B0I0944	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	09/29/20 20:06	B0I0944	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	09/29/20 20:06	B0I0944	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	09/29/20 20:06	B0I0944	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	09/29/20 20:06	B0I0944	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	09/29/20 20:06	B0I0944	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	09/29/20 20:06	B0I0944	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	09/29/20 20:06	B0I0944	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	09/29/20 20:06	B0I0944	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	09/29/20 20:06	B0I0944	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	09/29/20 20:06	B0I0944	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	09/29/20 20:06	B0I0944	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	09/29/20 20:06	B0I0944	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	09/29/20 20:06	B0I0944	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	09/29/20 20:06	B0I0944	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 20:06	B0I0944	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	09/29/20 20:06	B0I0944	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	09/29/20 20:06	B0I0944	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	09/29/20 20:06	B0I0944	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	09/29/20 20:06	B0I0944	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 20:06	B0I0944	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	09/29/20 20:06	B0I0944	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	09/29/20 20:06	B0I0944	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	09/29/20 20:06	B0I0944	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	09/29/20 20:06	B0I0944	WZZ	1
Surrogate: Dibromofluoromethane				Recovery: 99%	Limits: 84-137		09/29/20 20:06	B0I0944	WZZ	1
Surrogate: 1,2-Dichloroethane-d4				Recovery: 102%	Limits: 74-140		09/29/20 20:06	B0I0944	WZZ	1
Surrogate: Fluorobenzene				Recovery: 99%	Limits: 90-105		09/29/20 20:06	B0I0944	WZZ	1
Surrogate: Toluene-d8				Recovery: 101%	Limits: 74-109		09/29/20 20:06	B0I0944	WZZ	1
Surrogate: 4-Bromofluorobenzene				Recovery: 101%	Limits: 86-128		09/29/20 20:06	B0I0944	WZZ	1
Surrogate: 1,2-Dichlorobenzene-d4				Recovery: 102%	Limits: 90-128		09/29/20 20:06	B0I0944	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
CHW8271N
Work Order: 20I0861

Client Sample ID: MW-8
Report Date: 10/07/2020
Collection Date: 09/24/2020 09:55
Matrix: Groundwater
Lab ID: 20I0861-19 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit									
Semivolatile Organic Compounds by GC/MS											
Method: SW8270D / SW3510											
1,2,4-Trichlorobenzene	< 1.03	2.07			ug/L	0.289	1.03	09/30/20 10:55	B0I0881	CP1	1
1,2-Dichlorobenzene	< 1.03	2.07			ug/L	0.310	1.03	09/30/20 10:55	B0I0881	CP1	1
1,3-Dichlorobenzene	< 1.03	2.07			ug/L	0.320	1.03	09/30/20 10:55	B0I0881	CP1	1
1,4-Dichlorobenzene	< 1.03	2.07			ug/L	0.289	1.03	09/30/20 10:55	B0I0881	CP1	1
2,4,5-Trichlorophenol	< 0.517	1.03			ug/L	0.134	0.517	09/30/20 10:55	B0I0881	CP1	1
2,4,6-Trichlorophenol	< 0.517	1.03			ug/L	0.252	0.517	09/30/20 10:55	B0I0881	CP1	1
2,4-Dichlorophenol	< 0.517	1.03			ug/L	0.0814	0.517	09/30/20 10:55	B0I0881	CP1	1
2,4-Dimethylphenol	< 1.03	2.07			ug/L	0.121	1.03	09/30/20 10:55	B0I0881	CP1	1
2,4-Dinitrophenol	< 10.3	31.0			ug/L	3.42	10.3	09/30/20 10:55	B0I0881	CP1	1
2,4-Dinitrotoluene	< 1.03	2.07			ug/L	0.260	1.03	09/30/20 10:55	B0I0881	CP1	1
2,6-Dinitrotoluene	< 0.517	1.03			ug/L	0.237	0.517	09/30/20 10:55	B0I0881	CP1	1
2-Chloronaphthalene	< 0.310	0.620			ug/L	0.109	0.310	09/30/20 10:55	B0I0881	CP1	1
2-Chlorophenol	< 0.517	1.03			ug/L	0.158	0.517	09/30/20 10:55	B0I0881	CP1	1
2-Methylnaphthalene	< 2.07	4.13			ug/L	0.661	2.07	09/30/20 10:55	B0I0881	CP1	1
2-Methylphenol	< 0.517	1.03			ug/L	0.189	0.517	09/30/20 10:55	B0I0881	CP1	1
2-Nitroaniline	< 10.3	31.0			ug/L	2.65	10.3	09/30/20 10:55	B0I0881	CP1	1
2-Nitrophenol	< 0.517	1.03			ug/L	0.216	0.517	09/30/20 10:55	B0I0881	CP1	1
3,3'-Dichlorobenzidine	< 10.3	20.7			ug/L	3.27	10.3	09/30/20 10:55	B0I0881	CP1	1
3 & 4-Methylphenol	< 0.517	1.03			ug/L	0.185	0.517	09/30/20 10:55	B0I0881	CP1	1
3-Nitroaniline	< 1.03	2.07			ug/L	0.372	1.03	09/30/20 10:55	B0I0881	CP1	1
4,6-Dinitro-2-methylphenol	< 5.17	15.5			ug/L	2.53	5.17	09/30/20 10:55	B0I0881	CP1	1
4-Bromophenyl-phenylether	< 0.517	1.03			ug/L	0.165	0.517	09/30/20 10:55	B0I0881	CP1	1
4-Chloro-3-methylphenol	< 0.207	0.517			ug/L	0.0737	0.207	09/30/20 10:55	B0I0881	CP1	1
4-Chloroaniline	< 0.310	0.620			ug/L	0.110	0.310	09/30/20 10:55	B0I0881	CP1	1
4-Chlorophenyl-phenylether	< 0.517	1.03			ug/L	0.151	0.517	09/30/20 10:55	B0I0881	CP1	1
4-Nitroaniline	< 10.3	31.0			ug/L	3.90	10.3	09/30/20 10:55	B0I0881	CP1	1
4-Nitrophenol	< 5.17	15.5			ug/L	1.49	5.17	09/30/20 10:55	B0I0881	CP1	1
Acenaphthene	< 0.310	0.620			ug/L	0.107	0.310	09/30/20 10:55	B0I0881	CP1	1
Acenaphthylene	< 0.310	0.620			ug/L	0.134	0.310	09/30/20 10:55	B0I0881	CP1	1
Anthracene	< 0.310	0.620			ug/L	0.115	0.310	09/30/20 10:55	B0I0881	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.310	1.03			ug/L	0.0792	0.310	09/30/20 10:55	B0I0881	CP1	1
Benzidine	< 41.3	82.7			ug/L	17.1	41.3	09/30/20 10:55	B0I0881	CP1	1
Benzo(a)anthracene	< 0.310	0.620			ug/L	0.127	0.310	09/30/20 10:55	B0I0881	CP1	1
Benzo(a)pyrene	< 1.03	2.07			ug/L	0.388	1.03	09/30/20 10:55	B0I0881	CP1	1
Benzo(b)fluoranthene	< 1.03	2.07			ug/L	0.385	1.03	09/30/20 10:55	B0I0881	CP1	1
Benzo(g,h,i)perylene	< 1.03	2.07			ug/L	0.413	1.03	09/30/20 10:55	B0I0881	CP1	1
Benzo(k)fluoranthene	< 0.517	2.07			ug/L	0.257	0.517	09/30/20 10:55	B0I0881	CP1	1
Benzoic acid	< 24.8	41.3			ug/L	12.1	24.8	09/30/20 10:55	B0I0881	CP1	1
Benzyl alcohol	< 2.07	4.13			ug/L	0.568	2.07	09/30/20 10:55	B0I0881	CP1	1
Bis(2-chloroethoxy)methane	< 0.517	1.03			ug/L	0.140	0.517	09/30/20 10:55	B0I0881	CP1	1
Bis(2-chloroethyl)ether	< 0.517	1.03			ug/L	0.182	0.517	09/30/20 10:55	B0I0881	CP1	1
Bis(2-chloroisopropyl)ether	< 0.517	1.03			ug/L	0.133	0.517	09/30/20 10:55	B0I0881	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.3	20.7			ug/L	3.75	10.3	09/30/20 10:55	B0I0881	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-8
Report Date: 10/07/2020
Collection Date: 09/24/2020 09:55
Matrix: Groundwater
Lab ID: 20I0861-19 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS (Continued)										
Method: SW8270D / SW3510 (Continued)										
Butyl benzyl phthalate	< 0.517	1.03		ug/L	0.242	0.517	09/30/20 10:55	B0I0881	CP1	1
Carbazole	< 0.517	1.03		ug/L	0.179	0.517	09/30/20 10:55	B0I0881	CP1	1
Chrysene	< 0.310	0.620		ug/L	0.131	0.310	09/30/20 10:55	B0I0881	CP1	1
Dibenzo(a,h)anthracene	< 1.03	2.07		ug/L	0.456	1.03	09/30/20 10:55	B0I0881	CP1	1
Dibenzofuran	< 0.310	0.620		ug/L	0.127	0.310	09/30/20 10:55	B0I0881	CP1	1
Diethyl phthalate	< 3.10	6.20		ug/L	1.20	3.10	09/30/20 10:55	B0I0881	CP1	1
Dimethyl phthalate	< 0.310	0.620		ug/L	0.0912	0.310	09/30/20 10:55	B0I0881	CP1	1
Di-n-butyl phthalate	< 6.20	10.3		ug/L	2.98	6.20	09/30/20 10:55	B0I0881	CP1	1
Di-n-octyl phthalate	< 5.17	10.3		ug/L	1.95	5.17	09/30/20 10:55	B0I0881	CP1	1
Fluoranthene	< 0.517	1.03		ug/L	0.203	0.517	09/30/20 10:55	B0I0881	CP1	1
Fluorene	< 0.310	0.620		ug/L	0.128	0.310	09/30/20 10:55	B0I0881	CP1	1
Hexachlorobenzene	< 0.517	1.03		ug/L	0.170	0.517	09/30/20 10:55	B0I0881	CP1	1
Hexachlorobutadiene	< 0.517	1.03		ug/L	0.258	0.517	09/30/20 10:55	B0I0881	CP1	1
Hexachlorocyclopentadiene	< 5.17	15.5		ug/L	2.26	5.17	09/30/20 10:55	B0I0881	CP1	1
Hexachloroethane	< 0.517	1.03		ug/L	0.227	0.517	09/30/20 10:55	B0I0881	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.03	2.07		ug/L	0.519	1.03	09/30/20 10:55	B0I0881	CP1	1
Isophorone	< 0.310	0.620		ug/L	0.114	0.310	09/30/20 10:55	B0I0881	CP1	1
Naphthalene	< 2.07	4.13		ug/L	0.843	2.07	09/30/20 10:55	B0I0881	CP1	1
Nitrobenzene	< 0.310	0.620		ug/L	0.144	0.310	09/30/20 10:55	B0I0881	CP1	1
N-Nitrosodimethylamine	< 0.517	1.03		ug/L	0.161	0.517	09/30/20 10:55	B0I0881	CP1	1
N-Nitrosodi-n-propylamine	< 1.03	2.07		ug/L	0.329	1.03	09/30/20 10:55	B0I0881	CP1	1
N-Nitrosodiphenylamine	< 0.310	0.620		ug/L	0.107	0.310	09/30/20 10:55	B0I0881	CP1	1
Pentachlorophenol	< 10.3	31.0		ug/L	2.61	10.3	09/30/20 10:55	B0I0881	CP1	1
Phenanthrene	< 0.517	1.03		ug/L	0.213	0.517	09/30/20 10:55	B0I0881	CP1	1
Phenol	< 0.517	1.03		ug/L	0.176	0.517	09/30/20 10:55	B0I0881	CP1	1
Pyrene	< 0.517	1.03		ug/L	0.215	0.517	09/30/20 10:55	B0I0881	CP1	1
Surrogate: 2-Fluorophenol										
Surrogate: Phenol-d5										
Surrogate: Nitrobenzene-d5										
Surrogate: 2-Fluorobiphenyl										
Surrogate: 2,4,6-Tribromophenol										
Surrogate: 4-Terphenyl-d14										

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500		ug/L	0.0625	0.200	10/02/20 16:32	B0J0077	CP1	1
Surrogate: Toluene-d8										

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-8
Report Date: 10/07/2020
Collection Date: 09/24/2020 09:55
Matrix: Groundwater
Lab ID: 20I0861-20

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit										
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.508	1.02			ug/L	0.216	0.508	10/01/20 17:47	B0I0905	CS2	1	
Aroclor 1221	< 0.508	0.610			ug/L	0.195	0.508	10/01/20 17:47	B0I0905	CS2	1	
Aroclor 1232	< 0.508	0.610			ug/L	0.165	0.508	10/01/20 17:47	B0I0905	CS2	1	
Aroclor 1242	< 1.02	2.03			ug/L	0.356	1.02	10/01/20 17:47	B0I0905	CS2	1	
Aroclor 1248	< 0.508	0.610			ug/L	0.162	0.508	10/01/20 17:47	B0I0905	CS2	1	
Aroclor 1254	< 0.508	0.610			ug/L	0.179	0.508	10/01/20 17:47	B0I0905	CS2	1	
Aroclor 1260	< 0.305	0.407			ug/L	0.114	0.305	10/01/20 17:47	B0I0905	CS2	1	
Total PCB	< 0.508	0.610			ug/L	0.195	0.508	10/01/20 17:47	B0I0905	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 87%		Limits: 10-139		10/01/20 17:47	B0I0905	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 61%		Limits: 26-107		10/01/20 17:47	B0I0905	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-9
Report Date: 10/07/2020
Collection Date: 09/24/2020 11:55
Matrix: Groundwater
Lab ID: 20I0861-21

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Wet Chemistry											
Method: SW9060											
Organic Carbon, Total	3.85	1.00			mg/L	0.400	0.800	10/07/20 00:40	B0J0227	TB2	1
Polychlorinated Biphenyls (PCBs) by GC/ECD											
Method: SW8082A / SW3510											
Aroclor 1016	< 0.515	1.03			ug/L	0.219	0.515	10/01/20 18:04	B0I0902	CS2	1
Aroclor 1221	< 0.515	0.618			ug/L	0.197	0.515	10/01/20 18:04	B0I0902	CS2	1
Aroclor 1232	< 0.515	0.618			ug/L	0.167	0.515	10/01/20 18:04	B0I0902	CS2	1
Aroclor 1242	< 1.03	2.06			ug/L	0.361	1.03	10/01/20 18:04	B0I0902	CS2	1
Aroclor 1248	< 0.515	0.618			ug/L	0.165	0.515	10/01/20 18:04	B0I0902	CS2	1
Aroclor 1254	< 0.515	0.618			ug/L	0.181	0.515	10/01/20 18:04	B0I0902	CS2	1
Aroclor 1260	< 0.309	0.412			ug/L	0.116	0.309	10/01/20 18:04	B0I0902	CS2	1
Total PCB	< 0.515	0.618			ug/L	0.197	0.515	10/01/20 18:04	B0I0902	CS2	1
Surrogate: Decachlorobiphenyl					Recovery: 77%	Limits: 10-139		10/01/20 18:04	B0I0902	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene					Recovery: 62%	Limits: 26-107		10/01/20 18:04	B0I0902	CS2	1
Volatile Organic Compounds by GC/MS											
Method: SW8260B / SW5030											
1,1,1,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.706	2.00	09/29/20 20:31	B0I0944	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00			ug/L	0.719	2.00	09/29/20 20:31	B0I0944	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.713	2.00	09/29/20 20:31	B0I0944	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00			ug/L	0.198	0.600	09/29/20 20:31	B0I0944	WZZ	1
1,1-Dichloroethane	< 2.00	4.00			ug/L	0.691	2.00	09/29/20 20:31	B0I0944	WZZ	1
1,1-Dichloroethene	< 4.00	8.00			ug/L	1.10	4.00	09/29/20 20:31	B0I0944	WZZ	1
1,1-Dichloropropene	< 1.00	2.00			ug/L	0.462	1.00	09/29/20 20:31	B0I0944	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00			ug/L	0.199	0.600	09/29/20 20:31	B0I0944	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00			ug/L	0.598	2.00	09/29/20 20:31	B0I0944	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00			ug/L	0.753	2.00	09/29/20 20:31	B0I0944	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00			ug/L	1.22	4.00	09/29/20 20:31	B0I0944	WZZ	1
1,2-Dibromoethane	< 1.00	2.00			ug/L	0.420	1.00	09/29/20 20:31	B0I0944	WZZ	1
1,2-Dichloroethane	< 2.00	4.00			ug/L	0.731	2.00	09/29/20 20:31	B0I0944	WZZ	1
1,2-Dichloropropane	< 2.00	4.00			ug/L	0.557	2.00	09/29/20 20:31	B0I0944	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00			ug/L	0.351	1.00	09/29/20 20:31	B0I0944	WZZ	1
1,3-Dichloropropane	< 1.00	2.00			ug/L	0.345	1.00	09/29/20 20:31	B0I0944	WZZ	1
2,2-Dichloropropane	< 4.00	8.00			ug/L	1.03	4.00	09/29/20 20:31	B0I0944	WZZ	1
2-Butanone	< 14.0	28.0			ug/L	4.79	14.0	09/29/20 20:31	B0I0944	WZZ	1
2-Chlorotoluene	< 1.00	2.00			ug/L	0.384	1.00	09/29/20 20:31	B0I0944	WZZ	1
2-Hexanone	< 14.0	28.0			ug/L	4.74	14.0	09/29/20 20:31	B0I0944	WZZ	1
4-Isopropyltoluene	< 2.00	4.00			ug/L	0.930	2.00	09/29/20 20:31	B0I0944	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0			ug/L	4.40	14.0	09/29/20 20:31	B0I0944	WZZ	1
Acetone	< 28.0	70.0	Q, S1		ug/L	9.21	28.0	09/29/20 20:31	B0I0944	WZZ	1
Benzene	< 1.00	2.00			ug/L	0.362	1.00	09/29/20 20:31	B0I0944	WZZ	1
Bromobenzene	< 1.00	2.00			ug/L	0.354	1.00	09/29/20 20:31	B0I0944	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-9
Report Date: 10/07/2020
Collection Date: 09/24/2020 11:55
Matrix: Groundwater
Lab ID: 20I0861-21 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	09/29/20 20:31	B0I0944	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	09/29/20 20:31	B0I0944	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	09/29/20 20:31	B0I0944	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	09/29/20 20:31	B0I0944	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	09/29/20 20:31	B0I0944	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	09/29/20 20:31	B0I0944	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	09/29/20 20:31	B0I0944	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	09/29/20 20:31	B0I0944	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	09/29/20 20:31	B0I0944	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	09/29/20 20:31	B0I0944	WZZ	1
cis-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.652	2.00	09/29/20 20:31	B0I0944	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	09/29/20 20:31	B0I0944	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	09/29/20 20:31	B0I0944	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	09/29/20 20:31	B0I0944	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	09/29/20 20:31	B0I0944	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	09/29/20 20:31	B0I0944	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	09/29/20 20:31	B0I0944	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	09/29/20 20:31	B0I0944	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	09/29/20 20:31	B0I0944	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	09/29/20 20:31	B0I0944	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	09/29/20 20:31	B0I0944	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	09/29/20 20:31	B0I0944	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	09/29/20 20:31	B0I0944	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	09/29/20 20:31	B0I0944	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	09/29/20 20:31	B0I0944	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 20:31	B0I0944	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	09/29/20 20:31	B0I0944	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	09/29/20 20:31	B0I0944	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	09/29/20 20:31	B0I0944	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	09/29/20 20:31	B0I0944	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 20:31	B0I0944	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	09/29/20 20:31	B0I0944	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	09/29/20 20:31	B0I0944	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	09/29/20 20:31	B0I0944	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	09/29/20 20:31	B0I0944	WZZ	1
Surrogate: Dibromofluoromethane				Recovery: 105%	Limits: 84-137		09/29/20 20:31	B0I0944	WZZ	1
Surrogate: 1,2-Dichloroethane-d4				Recovery: 107%	Limits: 74-140		09/29/20 20:31	B0I0944	WZZ	1
Surrogate: Fluorobenzene				Recovery: 101%	Limits: 90-105		09/29/20 20:31	B0I0944	WZZ	1
Surrogate: Toluene-d8				Recovery: 99%	Limits: 74-109		09/29/20 20:31	B0I0944	WZZ	1
Surrogate: 4-Bromofluorobenzene				Recovery: 91%	Limits: 86-128		09/29/20 20:31	B0I0944	WZZ	1
Surrogate: 1,2-Dichlorobenzene-d4				Recovery: 97%	Limits: 90-128		09/29/20 20:31	B0I0944	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
CHW8271N
Work Order: 20I0861

Client Sample ID: MW-9
Report Date: 10/07/2020
Collection Date: 09/24/2020 11:55
Matrix: Groundwater
Lab ID: 20I0861-21 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Semivolatile Organic Compounds by GC/MS											
Method: SW8270D / SW3510											
1,2,4-Trichlorobenzene	< 1.02	2.05			ug/L	0.287	1.02	09/30/20 11:16	B0I0881	CP1	1
1,2-Dichlorobenzene	< 1.02	2.05			ug/L	0.307	1.02	09/30/20 11:16	B0I0881	CP1	1
1,3-Dichlorobenzene	< 1.02	2.05			ug/L	0.317	1.02	09/30/20 11:16	B0I0881	CP1	1
1,4-Dichlorobenzene	< 1.02	2.05			ug/L	0.287	1.02	09/30/20 11:16	B0I0881	CP1	1
2,4,5-Trichlorophenol	< 0.512	1.02			ug/L	0.132	0.512	09/30/20 11:16	B0I0881	CP1	1
2,4,6-Trichlorophenol	< 0.512	1.02			ug/L	0.249	0.512	09/30/20 11:16	B0I0881	CP1	1
2,4-Dichlorophenol	< 0.512	1.02			ug/L	0.0806	0.512	09/30/20 11:16	B0I0881	CP1	1
2,4-Dimethylphenol	< 1.02	2.05			ug/L	0.120	1.02	09/30/20 11:16	B0I0881	CP1	1
2,4-Dinitrophenol	< 10.2	30.7			ug/L	3.39	10.2	09/30/20 11:16	B0I0881	CP1	1
2,4-Dinitrotoluene	< 1.02	2.05			ug/L	0.258	1.02	09/30/20 11:16	B0I0881	CP1	1
2,6-Dinitrotoluene	< 0.512	1.02			ug/L	0.235	0.512	09/30/20 11:16	B0I0881	CP1	1
2-Chloronaphthalene	< 0.307	0.614			ug/L	0.108	0.307	09/30/20 11:16	B0I0881	CP1	1
2-Chlorophenol	< 0.512	1.02			ug/L	0.157	0.512	09/30/20 11:16	B0I0881	CP1	1
2-Methylnaphthalene	< 2.05	4.09			ug/L	0.655	2.05	09/30/20 11:16	B0I0881	CP1	1
2-Methylphenol	< 0.512	1.02			ug/L	0.187	0.512	09/30/20 11:16	B0I0881	CP1	1
2-Nitroaniline	< 10.2	30.7			ug/L	2.62	10.2	09/30/20 11:16	B0I0881	CP1	1
2-Nitrophenol	< 0.512	1.02			ug/L	0.214	0.512	09/30/20 11:16	B0I0881	CP1	1
3,3'-Dichlorobenzidine	< 10.2	20.5			ug/L	3.24	10.2	09/30/20 11:16	B0I0881	CP1	1
3 & 4-Methylphenol	< 0.512	1.02			ug/L	0.183	0.512	09/30/20 11:16	B0I0881	CP1	1
3-Nitroaniline	< 1.02	2.05			ug/L	0.368	1.02	09/30/20 11:16	B0I0881	CP1	1
4,6-Dinitro-2-methylphenol	< 5.12	15.3			ug/L	2.51	5.12	09/30/20 11:16	B0I0881	CP1	1
4-Bromophenyl-phenylether	< 0.512	1.02			ug/L	0.164	0.512	09/30/20 11:16	B0I0881	CP1	1
4-Chloro-3-methylphenol	< 0.205	0.512			ug/L	0.0730	0.205	09/30/20 11:16	B0I0881	CP1	1
4-Chloroaniline	< 0.307	0.614			ug/L	0.109	0.307	09/30/20 11:16	B0I0881	CP1	1
4-Chlorophenyl-phenylether	< 0.512	1.02			ug/L	0.149	0.512	09/30/20 11:16	B0I0881	CP1	1
4-Nitroaniline	< 10.2	30.7			ug/L	3.86	10.2	09/30/20 11:16	B0I0881	CP1	1
4-Nitrophenol	< 5.12	15.3			ug/L	1.47	5.12	09/30/20 11:16	B0I0881	CP1	1
Acenaphthene	< 0.307	0.614			ug/L	0.106	0.307	09/30/20 11:16	B0I0881	CP1	1
Acenaphthylene	< 0.307	0.614			ug/L	0.133	0.307	09/30/20 11:16	B0I0881	CP1	1
Anthracene	< 0.307	0.614			ug/L	0.114	0.307	09/30/20 11:16	B0I0881	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.307	1.02			ug/L	0.0785	0.307	09/30/20 11:16	B0I0881	CP1	1
Benzidine	< 40.9	81.9			ug/L	17.0	40.9	09/30/20 11:16	B0I0881	CP1	1
Benzo(a)anthracene	< 0.307	0.614			ug/L	0.126	0.307	09/30/20 11:16	B0I0881	CP1	1
Benzo(a)pyrene	< 1.02	2.05			ug/L	0.384	1.02	09/30/20 11:16	B0I0881	CP1	1
Benzo(b)fluoranthene	< 1.02	2.05			ug/L	0.381	1.02	09/30/20 11:16	B0I0881	CP1	1
Benzo(g,h,i)perylene	< 1.02	2.05			ug/L	0.409	1.02	09/30/20 11:16	B0I0881	CP1	1
Benzo(k)fluoranthene	< 0.512	2.05			ug/L	0.255	0.512	09/30/20 11:16	B0I0881	CP1	1
Benzoic acid	< 24.6	40.9			ug/L	12.0	24.6	09/30/20 11:16	B0I0881	CP1	1
Benzyl alcohol	< 2.05	4.09			ug/L	0.563	2.05	09/30/20 11:16	B0I0881	CP1	1
Bis(2-chloroethoxy)methane	< 0.512	1.02			ug/L	0.138	0.512	09/30/20 11:16	B0I0881	CP1	1
Bis(2-chloroethyl)ether	< 0.512	1.02			ug/L	0.180	0.512	09/30/20 11:16	B0I0881	CP1	1
Bis(2-chloroisopropyl)ether	< 0.512	1.02			ug/L	0.131	0.512	09/30/20 11:16	B0I0881	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.2	20.5			ug/L	3.71	10.2	09/30/20 11:16	B0I0881	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-9
Report Date: 10/07/2020
Collection Date: 09/24/2020 11:55
Matrix: Groundwater
Lab ID: 20I0861-21 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS (Continued)										
Method: SW8270D / SW3510 (Continued)										
Butyl benzyl phthalate	< 0.512	1.02		ug/L	0.239	0.512	09/30/20 11:16	B0I0881	CP1	1
Carbazole	< 0.512	1.02		ug/L	0.177	0.512	09/30/20 11:16	B0I0881	CP1	1
Chrysene	< 0.307	0.614		ug/L	0.130	0.307	09/30/20 11:16	B0I0881	CP1	1
Dibenzo(a,h)anthracene	< 1.02	2.05		ug/L	0.452	1.02	09/30/20 11:16	B0I0881	CP1	1
Dibenzofuran	< 0.307	0.614		ug/L	0.125	0.307	09/30/20 11:16	B0I0881	CP1	1
Diethyl phthalate	< 3.07	6.14		ug/L	1.19	3.07	09/30/20 11:16	B0I0881	CP1	1
Dimethyl phthalate	< 0.307	0.614		ug/L	0.0904	0.307	09/30/20 11:16	B0I0881	CP1	1
Di-n-butyl phthalate	< 6.14	10.2		ug/L	2.95	6.14	09/30/20 11:16	B0I0881	CP1	1
Di-n-octyl phthalate	< 5.12	10.2		ug/L	1.93	5.12	09/30/20 11:16	B0I0881	CP1	1
Fluoranthene	< 0.512	1.02		ug/L	0.201	0.512	09/30/20 11:16	B0I0881	CP1	1
Fluorene	< 0.307	0.614		ug/L	0.127	0.307	09/30/20 11:16	B0I0881	CP1	1
Hexachlorobenzene	< 0.512	1.02		ug/L	0.169	0.512	09/30/20 11:16	B0I0881	CP1	1
Hexachlorobutadiene	< 0.512	1.02		ug/L	0.256	0.512	09/30/20 11:16	B0I0881	CP1	1
Hexachlorocyclopentadiene	< 5.12	15.3		ug/L	2.24	5.12	09/30/20 11:16	B0I0881	CP1	1
Hexachloroethane	< 0.512	1.02		ug/L	0.225	0.512	09/30/20 11:16	B0I0881	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.02	2.05		ug/L	0.514	1.02	09/30/20 11:16	B0I0881	CP1	1
Isophorone	< 0.307	0.614		ug/L	0.113	0.307	09/30/20 11:16	B0I0881	CP1	1
Naphthalene	< 2.05	4.09		ug/L	0.835	2.05	09/30/20 11:16	B0I0881	CP1	1
Nitrobenzene	< 0.307	0.614		ug/L	0.143	0.307	09/30/20 11:16	B0I0881	CP1	1
N-Nitrosodimethylamine	< 0.512	1.02		ug/L	0.159	0.512	09/30/20 11:16	B0I0881	CP1	1
N-Nitrosodi-n-propylamine	< 1.02	2.05		ug/L	0.326	1.02	09/30/20 11:16	B0I0881	CP1	1
N-Nitrosodiphenylamine	< 0.307	0.614		ug/L	0.106	0.307	09/30/20 11:16	B0I0881	CP1	1
Pentachlorophenol	< 10.2	30.7		ug/L	2.58	10.2	09/30/20 11:16	B0I0881	CP1	1
Phenanthrene	< 0.512	1.02		ug/L	0.211	0.512	09/30/20 11:16	B0I0881	CP1	1
Phenol	< 0.512	1.02		ug/L	0.175	0.512	09/30/20 11:16	B0I0881	CP1	1
Pyrene	< 0.512	1.02		ug/L	0.213	0.512	09/30/20 11:16	B0I0881	CP1	1
Surrogate: 2-Fluorophenol										
					Recovery: 34%	Limits: 10-88	09/30/20 11:16	B0I0881	CP1	1
Surrogate: Phenol-d5					Recovery: 26%	Limits: 10-65	09/30/20 11:16	B0I0881	CP1	1
Surrogate: Nitrobenzene-d5					Recovery: 56%	Limits: 25-128	09/30/20 11:16	B0I0881	CP1	1
Surrogate: 2-Fluorobiphenyl					Recovery: 51%	Limits: 24-114	09/30/20 11:16	B0I0881	CP1	1
Surrogate: 2,4,6-Tribromophenol					Recovery: 54%	Limits: 15-119	09/30/20 11:16	B0I0881	CP1	1
Surrogate: 4-Terphenyl-d14					Recovery: 68%	Limits: 29-129	09/30/20 11:16	B0I0881	CP1	1

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500		ug/L	0.0625	0.200	10/02/20 16:56	B0J0077	CP1	1
Surrogate: Toluene-d8					Recovery: 114%	Limits: 80-120	10/02/20 16:56	B0J0077	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-9
Report Date: 10/07/2020
Collection Date: 09/24/2020 11:55
Matrix: Groundwater
Lab ID: 20I0861-22

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit										
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.518	1.04			ug/L	0.220	0.518	10/01/20 18:04	B0I0905	CS2	1	
Aroclor 1221	< 0.518	0.622			ug/L	0.198	0.518	10/01/20 18:04	B0I0905	CS2	1	
Aroclor 1232	< 0.518	0.622			ug/L	0.168	0.518	10/01/20 18:04	B0I0905	CS2	1	
Aroclor 1242	< 1.04	2.07			ug/L	0.363	1.04	10/01/20 18:04	B0I0905	CS2	1	
Aroclor 1248	< 0.518	0.622			ug/L	0.166	0.518	10/01/20 18:04	B0I0905	CS2	1	
Aroclor 1254	< 0.518	0.622			ug/L	0.182	0.518	10/01/20 18:04	B0I0905	CS2	1	
Aroclor 1260	< 0.311	0.414			ug/L	0.116	0.311	10/01/20 18:04	B0I0905	CS2	1	
Total PCB	< 0.518	0.622			ug/L	0.198	0.518	10/01/20 18:04	B0I0905	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 84%		Limits: 10-139		10/01/20 18:04	B0I0905	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 63%		Limits: 26-107		10/01/20 18:04	B0I0905	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: PZ-10
Report Date: 10/07/2020
Collection Date: 09/25/2020 08:25
Matrix: Groundwater
Lab ID: 20I0861-23

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Limit									
Wet Chemistry												
Method: SW9060												
Organic Carbon, Total	2.13	1.00			mg/L	0.400	0.800	10/07/20 01:12	B0J0227	TB2	1	
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.572	1.14			ug/L	0.243	0.572	10/01/20 18:21	B0I0902	CS2	1	
Aroclor 1221	< 0.572	0.686			ug/L	0.219	0.572	10/01/20 18:21	B0I0902	CS2	1	
Aroclor 1232	< 0.572	0.686			ug/L	0.185	0.572	10/01/20 18:21	B0I0902	CS2	1	
Aroclor 1242	< 1.14	2.29			ug/L	0.401	1.14	10/01/20 18:21	B0I0902	CS2	1	
Aroclor 1248	< 0.572	0.686			ug/L	0.183	0.572	10/01/20 18:21	B0I0902	CS2	1	
Aroclor 1254	< 0.572	0.686			ug/L	0.201	0.572	10/01/20 18:21	B0I0902	CS2	1	
Aroclor 1260	< 0.343	0.457			ug/L	0.128	0.343	10/01/20 18:21	B0I0902	CS2	1	
Total PCB	< 0.572	0.686			ug/L	0.219	0.572	10/01/20 18:21	B0I0902	CS2	1	
Surrogate: Decachlorobiphenyl					Recovery: 80%		Limits: 10-139		10/01/20 18:21	B0I0902	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene					Recovery: 63%		Limits: 26-107		10/01/20 18:21	B0I0902	CS2	1
Volatile Organic Compounds by GC/MS												
Method: SW8260B / SW5030												
1,1,1,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.706	2.00	09/29/20 20:57	B0I0944	WZZ	1	
1,1,1-Trichloroethane	< 2.00	4.00			ug/L	0.719	2.00	09/29/20 20:57	B0I0944	WZZ	1	
1,1,2,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.713	2.00	09/29/20 20:57	B0I0944	WZZ	1	
1,1,2-Trichloroethane	< 0.600	2.00			ug/L	0.198	0.600	09/29/20 20:57	B0I0944	WZZ	1	
1,1-Dichloroethane	< 2.00	4.00			ug/L	0.691	2.00	09/29/20 20:57	B0I0944	WZZ	1	
1,1-Dichloroethene	< 4.00	8.00			ug/L	1.10	4.00	09/29/20 20:57	B0I0944	WZZ	1	
1,1-Dichloropropene	< 1.00	2.00			ug/L	0.462	1.00	09/29/20 20:57	B0I0944	WZZ	1	
1,2,3-Trichlorobenzene	< 0.600	2.00			ug/L	0.199	0.600	09/29/20 20:57	B0I0944	WZZ	1	
1,2,3-Trichloropropane	< 2.00	4.00			ug/L	0.598	2.00	09/29/20 20:57	B0I0944	WZZ	1	
1,2,4-Trimethylbenzene	< 2.00	4.00			ug/L	0.753	2.00	09/29/20 20:57	B0I0944	WZZ	1	
1,2-Dibromo-3-chloropropane	< 4.00	8.00			ug/L	1.22	4.00	09/29/20 20:57	B0I0944	WZZ	1	
1,2-Dibromoethane	< 1.00	2.00			ug/L	0.420	1.00	09/29/20 20:57	B0I0944	WZZ	1	
1,2-Dichloroethane	< 2.00	4.00			ug/L	0.731	2.00	09/29/20 20:57	B0I0944	WZZ	1	
1,2-Dichloropropane	< 2.00	4.00			ug/L	0.557	2.00	09/29/20 20:57	B0I0944	WZZ	1	
1,3,5-Trimethylbenzene	< 1.00	2.00			ug/L	0.351	1.00	09/29/20 20:57	B0I0944	WZZ	1	
1,3-Dichloropropane	< 1.00	2.00			ug/L	0.345	1.00	09/29/20 20:57	B0I0944	WZZ	1	
2,2-Dichloropropane	< 4.00	8.00			ug/L	1.03	4.00	09/29/20 20:57	B0I0944	WZZ	1	
2-Butanone	< 14.0	28.0			ug/L	4.79	14.0	09/29/20 20:57	B0I0944	WZZ	1	
2-Chlorotoluene	< 1.00	2.00			ug/L	0.384	1.00	09/29/20 20:57	B0I0944	WZZ	1	
2-Hexanone	< 14.0	28.0			ug/L	4.74	14.0	09/29/20 20:57	B0I0944	WZZ	1	
4-Isopropyltoluene	< 2.00	4.00			ug/L	0.930	2.00	09/29/20 20:57	B0I0944	WZZ	1	
4-Methyl-2-pentanone	< 14.0	28.0			ug/L	4.40	14.0	09/29/20 20:57	B0I0944	WZZ	1	
Acetone	< 28.0	70.0	Q, S1		ug/L	9.21	28.0	09/29/20 20:57	B0I0944	WZZ	1	
Benzene	< 1.00	2.00			ug/L	0.362	1.00	09/29/20 20:57	B0I0944	WZZ	1	
Bromobenzene	< 1.00	2.00			ug/L	0.354	1.00	09/29/20 20:57	B0I0944	WZZ	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: PZ-10
Report Date: 10/07/2020
Collection Date: 09/25/2020 08:25
Matrix: Groundwater
Lab ID: 20I0861-23 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	09/29/20 20:57	B0I0944	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	09/29/20 20:57	B0I0944	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	09/29/20 20:57	B0I0944	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	09/29/20 20:57	B0I0944	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	09/29/20 20:57	B0I0944	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	09/29/20 20:57	B0I0944	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	09/29/20 20:57	B0I0944	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	09/29/20 20:57	B0I0944	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	09/29/20 20:57	B0I0944	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	09/29/20 20:57	B0I0944	WZZ	1
cis-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.652	2.00	09/29/20 20:57	B0I0944	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	09/29/20 20:57	B0I0944	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	09/29/20 20:57	B0I0944	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	09/29/20 20:57	B0I0944	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	09/29/20 20:57	B0I0944	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	09/29/20 20:57	B0I0944	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	09/29/20 20:57	B0I0944	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	09/29/20 20:57	B0I0944	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	09/29/20 20:57	B0I0944	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	09/29/20 20:57	B0I0944	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	09/29/20 20:57	B0I0944	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	09/29/20 20:57	B0I0944	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	09/29/20 20:57	B0I0944	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	09/29/20 20:57	B0I0944	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	09/29/20 20:57	B0I0944	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 20:57	B0I0944	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	09/29/20 20:57	B0I0944	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	09/29/20 20:57	B0I0944	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	09/29/20 20:57	B0I0944	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	09/29/20 20:57	B0I0944	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 20:57	B0I0944	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	09/29/20 20:57	B0I0944	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	09/29/20 20:57	B0I0944	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	09/29/20 20:57	B0I0944	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	09/29/20 20:57	B0I0944	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 99%</i>	<i>Limits: 84-137</i>		<i>09/29/20 20:57</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 98%</i>	<i>Limits: 74-140</i>		<i>09/29/20 20:57</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 99%</i>	<i>Limits: 90-105</i>		<i>09/29/20 20:57</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 104%</i>	<i>Limits: 74-109</i>		<i>09/29/20 20:57</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 98%</i>	<i>Limits: 86-128</i>		<i>09/29/20 20:57</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 98%</i>	<i>Limits: 90-128</i>		<i>09/29/20 20:57</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: PZ-10
Report Date: 10/07/2020
Collection Date: 09/25/2020 08:25
Matrix: Groundwater
Lab ID: 20I0861-23 (Continued)

Analyses	Result	EMT		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Reporting Limit	Qual							
Semivolatile Organic Compounds by GC/MS										
Method: SW8270D / SW3510										
1,2,4-Trichlorobenzene	< 1.10	2.19		ug/L	0.307	1.10	09/30/20 11:37	B0I0881	CP1	1
1,2-Dichlorobenzene	< 1.10	2.19		ug/L	0.329	1.10	09/30/20 11:37	B0I0881	CP1	1
1,3-Dichlorobenzene	< 1.10	2.19		ug/L	0.340	1.10	09/30/20 11:37	B0I0881	CP1	1
1,4-Dichlorobenzene	< 1.10	2.19		ug/L	0.307	1.10	09/30/20 11:37	B0I0881	CP1	1
2,4,5-Trichlorophenol	< 0.549	1.10		ug/L	0.142	0.549	09/30/20 11:37	B0I0881	CP1	1
2,4,6-Trichlorophenol	< 0.549	1.10		ug/L	0.267	0.549	09/30/20 11:37	B0I0881	CP1	1
2,4-Dichlorophenol	< 0.549	1.10		ug/L	0.0865	0.549	09/30/20 11:37	B0I0881	CP1	1
2,4-Dimethylphenol	< 1.10	2.19		ug/L	0.129	1.10	09/30/20 11:37	B0I0881	CP1	1
2,4-Dinitrophenol	< 11.0	32.9		ug/L	3.63	11.0	09/30/20 11:37	B0I0881	CP1	1
2,4-Dinitrotoluene	< 1.10	2.19		ug/L	0.276	1.10	09/30/20 11:37	B0I0881	CP1	1
2,6-Dinitrotoluene	< 0.549	1.10		ug/L	0.252	0.549	09/30/20 11:37	B0I0881	CP1	1
2-Chloronaphthalene	< 0.329	0.658		ug/L	0.116	0.329	09/30/20 11:37	B0I0881	CP1	1
2-Chlorophenol	< 0.549	1.10		ug/L	0.168	0.549	09/30/20 11:37	B0I0881	CP1	1
2-Methylnaphthalene	< 2.19	4.39		ug/L	0.702	2.19	09/30/20 11:37	B0I0881	CP1	1
2-Methylphenol	< 0.549	1.10		ug/L	0.201	0.549	09/30/20 11:37	B0I0881	CP1	1
2-Nitroaniline	< 11.0	32.9		ug/L	2.81	11.0	09/30/20 11:37	B0I0881	CP1	1
2-Nitrophenol	< 0.549	1.10		ug/L	0.230	0.549	09/30/20 11:37	B0I0881	CP1	1
3,3'-Dichlorobenzidine	< 11.0	21.9		ug/L	3.47	11.0	09/30/20 11:37	B0I0881	CP1	1
3 & 4-Methylphenol	< 0.549	1.10		ug/L	0.197	0.549	09/30/20 11:37	B0I0881	CP1	1
3-Nitroaniline	< 1.10	2.19		ug/L	0.395	1.10	09/30/20 11:37	B0I0881	CP1	1
4,6-Dinitro-2-methylphenol	< 5.49	16.5		ug/L	2.69	5.49	09/30/20 11:37	B0I0881	CP1	1
4-Bromophenyl-phenylether	< 0.549	1.10		ug/L	0.176	0.549	09/30/20 11:37	B0I0881	CP1	1
4-Chloro-3-methylphenol	< 0.219	0.549		ug/L	0.0782	0.219	09/30/20 11:37	B0I0881	CP1	1
4-Chloroaniline	< 0.329	0.658		ug/L	0.117	0.329	09/30/20 11:37	B0I0881	CP1	1
4-Chlorophenyl-phenylether	< 0.549	1.10		ug/L	0.160	0.549	09/30/20 11:37	B0I0881	CP1	1
4-Nitroaniline	< 11.0	32.9		ug/L	4.14	11.0	09/30/20 11:37	B0I0881	CP1	1
4-Nitrophenol	< 5.49	16.5		ug/L	1.58	5.49	09/30/20 11:37	B0I0881	CP1	1
Acenaphthene	< 0.329	0.658		ug/L	0.114	0.329	09/30/20 11:37	B0I0881	CP1	1
Acenaphthylene	< 0.329	0.658		ug/L	0.143	0.329	09/30/20 11:37	B0I0881	CP1	1
Anthracene	< 0.329	0.658		ug/L	0.122	0.329	09/30/20 11:37	B0I0881	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.329	1.10		ug/L	0.0842	0.329	09/30/20 11:37	B0I0881	CP1	1
Benzidine	< 43.9	87.8		ug/L	18.2	43.9	09/30/20 11:37	B0I0881	CP1	1
Benzo(a)anthracene	< 0.329	0.658		ug/L	0.135	0.329	09/30/20 11:37	B0I0881	CP1	1
Benzo(a)pyrene	< 1.10	2.19		ug/L	0.412	1.10	09/30/20 11:37	B0I0881	CP1	1
Benzo(b)fluoranthene	< 1.10	2.19		ug/L	0.408	1.10	09/30/20 11:37	B0I0881	CP1	1
Benzo(g,h,i)perylene	< 1.10	2.19		ug/L	0.438	1.10	09/30/20 11:37	B0I0881	CP1	1
Benzo(k)fluoranthene	< 0.549	2.19		ug/L	0.273	0.549	09/30/20 11:37	B0I0881	CP1	1
Benzoic acid	< 26.3	43.9		ug/L	12.9	26.3	09/30/20 11:37	B0I0881	CP1	1
Benzyl alcohol	< 2.19	4.39		ug/L	0.603	2.19	09/30/20 11:37	B0I0881	CP1	1
Bis(2-chloroethoxy)methane	< 0.549	1.10		ug/L	0.148	0.549	09/30/20 11:37	B0I0881	CP1	1
Bis(2-chloroethyl)ether	< 0.549	1.10		ug/L	0.193	0.549	09/30/20 11:37	B0I0881	CP1	1
Bis(2-chloroisopropyl)ether	< 0.549	1.10		ug/L	0.141	0.549	09/30/20 11:37	B0I0881	CP1	1
Bis(2-ethylhexyl)phthalate	< 11.0	21.9		ug/L	3.98	11.0	09/30/20 11:37	B0I0881	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: PZ-10
Report Date: 10/07/2020
Collection Date: 09/25/2020 08:25
Matrix: Groundwater
Lab ID: 20I0861-23 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Semivolatile Organic Compounds by GC/MS (Continued)											
Method: SW8270D / SW3510 (Continued)											
Butyl benzyl phthalate	< 0.549	1.10			ug/L	0.257	0.549	09/30/20 11:37	B0I0881	CP1	1
Carbazole	< 0.549	1.10			ug/L	0.190	0.549	09/30/20 11:37	B0I0881	CP1	1
Chrysene	< 0.329	0.658			ug/L	0.139	0.329	09/30/20 11:37	B0I0881	CP1	1
Dibenzo(a,h)anthracene	< 1.10	2.19			ug/L	0.485	1.10	09/30/20 11:37	B0I0881	CP1	1
Dibenzofuran	< 0.329	0.658			ug/L	0.135	0.329	09/30/20 11:37	B0I0881	CP1	1
Diethyl phthalate	< 3.29	6.58			ug/L	1.28	3.29	09/30/20 11:37	B0I0881	CP1	1
Dimethyl phthalate	< 0.329	0.658			ug/L	0.0969	0.329	09/30/20 11:37	B0I0881	CP1	1
Di-n-butyl phthalate	< 6.58	11.0			ug/L	3.16	6.58	09/30/20 11:37	B0I0881	CP1	1
Di-n-octyl phthalate	< 5.49	11.0			ug/L	2.07	5.49	09/30/20 11:37	B0I0881	CP1	1
Fluoranthene	< 0.549	1.10			ug/L	0.215	0.549	09/30/20 11:37	B0I0881	CP1	1
Fluorene	< 0.329	0.658			ug/L	0.136	0.329	09/30/20 11:37	B0I0881	CP1	1
Hexachlorobenzene	< 0.549	1.10			ug/L	0.181	0.549	09/30/20 11:37	B0I0881	CP1	1
Hexachlorobutadiene	< 0.549	1.10			ug/L	0.274	0.549	09/30/20 11:37	B0I0881	CP1	1
Hexachlorocyclopentadiene	< 5.49	16.5			ug/L	2.40	5.49	09/30/20 11:37	B0I0881	CP1	1
Hexachloroethane	< 0.549	1.10			ug/L	0.241	0.549	09/30/20 11:37	B0I0881	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.10	2.19			ug/L	0.551	1.10	09/30/20 11:37	B0I0881	CP1	1
Isophorone	< 0.329	0.658			ug/L	0.121	0.329	09/30/20 11:37	B0I0881	CP1	1
Naphthalene	< 2.19	4.39			ug/L	0.895	2.19	09/30/20 11:37	B0I0881	CP1	1
Nitrobenzene	< 0.329	0.658			ug/L	0.153	0.329	09/30/20 11:37	B0I0881	CP1	1
N-Nitrosodimethylamine	< 0.549	1.10			ug/L	0.171	0.549	09/30/20 11:37	B0I0881	CP1	1
N-Nitrosodi-n-propylamine	< 1.10	2.19			ug/L	0.350	1.10	09/30/20 11:37	B0I0881	CP1	1
N-Nitrosodiphenylamine	< 0.329	0.658			ug/L	0.114	0.329	09/30/20 11:37	B0I0881	CP1	1
Pentachlorophenol	< 11.0	32.9			ug/L	2.77	11.0	09/30/20 11:37	B0I0881	CP1	1
Phenanthrene	< 0.549	1.10			ug/L	0.226	0.549	09/30/20 11:37	B0I0881	CP1	1
Phenol	< 0.549	1.10			ug/L	0.187	0.549	09/30/20 11:37	B0I0881	CP1	1
Pyrene	< 0.549	1.10			ug/L	0.228	0.549	09/30/20 11:37	B0I0881	CP1	1
Surrogate: 2-Fluorophenol								09/30/20 11:37	B0I0881	CP1	1
Surrogate: Phenol-d5								09/30/20 11:37	B0I0881	CP1	1
Surrogate: Nitrobenzene-d5								09/30/20 11:37	B0I0881	CP1	1
Surrogate: 2-Fluorobiphenyl								09/30/20 11:37	B0I0881	CP1	1
Surrogate: 2,4,6-Tribromophenol								09/30/20 11:37	B0I0881	CP1	1
Surrogate: 4-Terphenyl-d14								09/30/20 11:37	B0I0881	CP1	1

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500			ug/L	0.0625	0.200	10/02/20 17:21	B0J0077	CP1	1
Surrogate: Toluene-d8								10/02/20 17:21	B0J0077	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: PZ-10
Report Date: 10/07/2020
Collection Date: 09/25/2020 08:25
Matrix: Groundwater
Lab ID: 20I0861-24

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual								
Polychlorinated Biphenyls (PCBs) by GC/ECD											
Method: SW8082A / SW3510											
Aroclor 1016	< 0.533	1.07		ug/L	0.226	0.533	10/01/20 18:21	B0I0905	CS2	1	
Aroclor 1221	< 0.533	0.640		ug/L	0.204	0.533	10/01/20 18:21	B0I0905	CS2	1	
Aroclor 1232	< 0.533	0.640		ug/L	0.173	0.533	10/01/20 18:21	B0I0905	CS2	1	
Aroclor 1242	< 1.07	2.13		ug/L	0.374	1.07	10/01/20 18:21	B0I0905	CS2	1	
Aroclor 1248	< 0.533	0.640		ug/L	0.171	0.533	10/01/20 18:21	B0I0905	CS2	1	
Aroclor 1254	< 0.533	0.640		ug/L	0.187	0.533	10/01/20 18:21	B0I0905	CS2	1	
Aroclor 1260	< 0.320	0.427		ug/L	0.120	0.320	10/01/20 18:21	B0I0905	CS2	1	
Total PCB	< 0.533	0.640		ug/L	0.204	0.533	10/01/20 18:21	B0I0905	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>				Recovery: 87%		Limits: 10-139		10/01/20 18:21	B0I0905	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>				Recovery: 64%		Limits: 26-107		10/01/20 18:21	B0I0905	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-12
Report Date: 10/07/2020
Collection Date: 09/23/2020 11:30
Matrix: Groundwater
Lab ID: 20I0861-25

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Limit									
Wet Chemistry												
Method: SW9060												
Organic Carbon, Total	2.75	1.00			mg/L	0.400	0.800	10/07/20 01:32	B0J0227	TB2	1	
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.524	1.05			ug/L	0.222	0.524	09/30/20 18:32	B0I0902	CS2	1	
Aroclor 1221	< 0.524	0.629			ug/L	0.201	0.524	09/30/20 18:32	B0I0902	CS2	1	
Aroclor 1232	< 0.524	0.629			ug/L	0.170	0.524	09/30/20 18:32	B0I0902	CS2	1	
Aroclor 1242	< 1.05	2.10			ug/L	0.367	1.05	09/30/20 18:32	B0I0902	CS2	1	
Aroclor 1248	< 0.524	0.629			ug/L	0.168	0.524	09/30/20 18:32	B0I0902	CS2	1	
Aroclor 1254	< 0.524	0.629			ug/L	0.184	0.524	09/30/20 18:32	B0I0902	CS2	1	
Aroclor 1260	< 0.314	0.419			ug/L	0.118	0.314	09/30/20 18:32	B0I0902	CS2	1	
Total PCB	< 0.524	0.629			ug/L	0.201	0.524	09/30/20 18:32	B0I0902	CS2	1	
Surrogate: Decachlorobiphenyl					Recovery: 80%		Limits: 10-139		09/30/20 18:32	B0I0902	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene					Recovery: 56%		Limits: 26-107		09/30/20 18:32	B0I0902	CS2	1
Volatile Organic Compounds by GC/MS												
Method: SW8260B / SW5030												
1,1,1,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.706	2.00	09/29/20 21:22	B0I0944	WZZ	1	
1,1,1-Trichloroethane	< 2.00	4.00			ug/L	0.719	2.00	09/29/20 21:22	B0I0944	WZZ	1	
1,1,2,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.713	2.00	09/29/20 21:22	B0I0944	WZZ	1	
1,1,2-Trichloroethane	< 0.600	2.00			ug/L	0.198	0.600	09/29/20 21:22	B0I0944	WZZ	1	
1,1-Dichloroethane	< 2.00	4.00			ug/L	0.691	2.00	09/29/20 21:22	B0I0944	WZZ	1	
1,1-Dichloroethene	< 4.00	8.00			ug/L	1.10	4.00	09/29/20 21:22	B0I0944	WZZ	1	
1,1-Dichloropropene	< 1.00	2.00			ug/L	0.462	1.00	09/29/20 21:22	B0I0944	WZZ	1	
1,2,3-Trichlorobenzene	< 0.600	2.00			ug/L	0.199	0.600	09/29/20 21:22	B0I0944	WZZ	1	
1,2,3-Trichloropropane	< 2.00	4.00			ug/L	0.598	2.00	09/29/20 21:22	B0I0944	WZZ	1	
1,2,4-Trimethylbenzene	< 2.00	4.00			ug/L	0.753	2.00	09/29/20 21:22	B0I0944	WZZ	1	
1,2-Dibromo-3-chloropropane	< 4.00	8.00			ug/L	1.22	4.00	09/29/20 21:22	B0I0944	WZZ	1	
1,2-Dibromoethane	< 1.00	2.00			ug/L	0.420	1.00	09/29/20 21:22	B0I0944	WZZ	1	
1,2-Dichloroethane	< 2.00	4.00			ug/L	0.731	2.00	09/29/20 21:22	B0I0944	WZZ	1	
1,2-Dichloropropane	< 2.00	4.00			ug/L	0.557	2.00	09/29/20 21:22	B0I0944	WZZ	1	
1,3,5-Trimethylbenzene	< 1.00	2.00			ug/L	0.351	1.00	09/29/20 21:22	B0I0944	WZZ	1	
1,3-Dichloropropane	< 1.00	2.00			ug/L	0.345	1.00	09/29/20 21:22	B0I0944	WZZ	1	
2,2-Dichloropropane	< 4.00	8.00			ug/L	1.03	4.00	09/29/20 21:22	B0I0944	WZZ	1	
2-Butanone	< 14.0	28.0			ug/L	4.79	14.0	09/29/20 21:22	B0I0944	WZZ	1	
2-Chlorotoluene	< 1.00	2.00			ug/L	0.384	1.00	09/29/20 21:22	B0I0944	WZZ	1	
2-Hexanone	< 14.0	28.0			ug/L	4.74	14.0	09/29/20 21:22	B0I0944	WZZ	1	
4-Isopropyltoluene	< 2.00	4.00			ug/L	0.930	2.00	09/29/20 21:22	B0I0944	WZZ	1	
4-Methyl-2-pentanone	< 14.0	28.0			ug/L	4.40	14.0	09/29/20 21:22	B0I0944	WZZ	1	
Acetone	< 28.0	70.0	Q, S1		ug/L	9.21	28.0	09/29/20 21:22	B0I0944	WZZ	1	
Benzene	< 1.00	2.00			ug/L	0.362	1.00	09/29/20 21:22	B0I0944	WZZ	1	
Bromobenzene	< 1.00	2.00			ug/L	0.354	1.00	09/29/20 21:22	B0I0944	WZZ	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-12
Report Date: 10/07/2020
Collection Date: 09/23/2020 11:30
Matrix: Groundwater
Lab ID: 20I0861-25 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	09/29/20 21:22	B0I0944	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	09/29/20 21:22	B0I0944	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	09/29/20 21:22	B0I0944	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	09/29/20 21:22	B0I0944	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	09/29/20 21:22	B0I0944	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	09/29/20 21:22	B0I0944	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	09/29/20 21:22	B0I0944	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	09/29/20 21:22	B0I0944	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	09/29/20 21:22	B0I0944	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	09/29/20 21:22	B0I0944	WZZ	1
cis-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.652	2.00	09/29/20 21:22	B0I0944	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	09/29/20 21:22	B0I0944	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	09/29/20 21:22	B0I0944	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	09/29/20 21:22	B0I0944	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	09/29/20 21:22	B0I0944	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	09/29/20 21:22	B0I0944	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	09/29/20 21:22	B0I0944	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	09/29/20 21:22	B0I0944	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	09/29/20 21:22	B0I0944	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	09/29/20 21:22	B0I0944	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	09/29/20 21:22	B0I0944	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	09/29/20 21:22	B0I0944	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	09/29/20 21:22	B0I0944	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	09/29/20 21:22	B0I0944	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	09/29/20 21:22	B0I0944	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 21:22	B0I0944	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	09/29/20 21:22	B0I0944	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	09/29/20 21:22	B0I0944	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	09/29/20 21:22	B0I0944	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	09/29/20 21:22	B0I0944	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 21:22	B0I0944	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	09/29/20 21:22	B0I0944	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	09/29/20 21:22	B0I0944	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	09/29/20 21:22	B0I0944	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	09/29/20 21:22	B0I0944	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 100%</i>	<i>Limits: 84-137</i>		<i>09/29/20 21:22</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 103%</i>	<i>Limits: 74-140</i>		<i>09/29/20 21:22</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 97%</i>	<i>Limits: 90-105</i>		<i>09/29/20 21:22</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 99%</i>	<i>Limits: 74-109</i>		<i>09/29/20 21:22</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 103%</i>	<i>Limits: 86-128</i>		<i>09/29/20 21:22</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 99%</i>	<i>Limits: 90-128</i>		<i>09/29/20 21:22</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-12
Report Date: 10/07/2020
Collection Date: 09/23/2020 11:30
Matrix: Groundwater
Lab ID: 20I0861-25 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Semivolatile Organic Compounds by GC/MS											
Method: SW8270D / SW3510											
1,2,4-Trichlorobenzene	< 1.09	2.18			ug/L	0.305	1.09	09/30/20 11:58	B0I0881	CP1	1
1,2-Dichlorobenzene	< 1.09	2.18			ug/L	0.326	1.09	09/30/20 11:58	B0I0881	CP1	1
1,3-Dichlorobenzene	< 1.09	2.18			ug/L	0.337	1.09	09/30/20 11:58	B0I0881	CP1	1
1,4-Dichlorobenzene	< 1.09	2.18			ug/L	0.305	1.09	09/30/20 11:58	B0I0881	CP1	1
2,4,5-Trichlorophenol	< 0.544	1.09			ug/L	0.141	0.544	09/30/20 11:58	B0I0881	CP1	1
2,4,6-Trichlorophenol	< 0.544	1.09			ug/L	0.265	0.544	09/30/20 11:58	B0I0881	CP1	1
2,4-Dichlorophenol	< 0.544	1.09			ug/L	0.0857	0.544	09/30/20 11:58	B0I0881	CP1	1
2,4-Dimethylphenol	< 1.09	2.18			ug/L	0.128	1.09	09/30/20 11:58	B0I0881	CP1	1
2,4-Dinitrophenol	< 10.9	32.6			ug/L	3.60	10.9	09/30/20 11:58	B0I0881	CP1	1
2,4-Dinitrotoluene	< 1.09	2.18			ug/L	0.274	1.09	09/30/20 11:58	B0I0881	CP1	1
2,6-Dinitrotoluene	< 0.544	1.09			ug/L	0.250	0.544	09/30/20 11:58	B0I0881	CP1	1
2-Chloronaphthalene	< 0.326	0.653			ug/L	0.115	0.326	09/30/20 11:58	B0I0881	CP1	1
2-Chlorophenol	< 0.544	1.09			ug/L	0.167	0.544	09/30/20 11:58	B0I0881	CP1	1
2-Methylnaphthalene	< 2.18	4.35			ug/L	0.696	2.18	09/30/20 11:58	B0I0881	CP1	1
2-Methylphenol	< 0.544	1.09			ug/L	0.199	0.544	09/30/20 11:58	B0I0881	CP1	1
2-Nitroaniline	< 10.9	32.6			ug/L	2.79	10.9	09/30/20 11:58	B0I0881	CP1	1
2-Nitrophenol	< 0.544	1.09			ug/L	0.228	0.544	09/30/20 11:58	B0I0881	CP1	1
3,3'-Dichlorobenzidine	< 10.9	21.8			ug/L	3.44	10.9	09/30/20 11:58	B0I0881	CP1	1
3 & 4-Methylphenol	< 0.544	1.09			ug/L	0.195	0.544	09/30/20 11:58	B0I0881	CP1	1
3-Nitroaniline	< 1.09	2.18			ug/L	0.391	1.09	09/30/20 11:58	B0I0881	CP1	1
4,6-Dinitro-2-methylphenol	< 5.44	16.3			ug/L	2.67	5.44	09/30/20 11:58	B0I0881	CP1	1
4-Bromophenyl-phenylether	< 0.544	1.09			ug/L	0.174	0.544	09/30/20 11:58	B0I0881	CP1	1
4-Chloro-3-methylphenol	< 0.218	0.544			ug/L	0.0776	0.218	09/30/20 11:58	B0I0881	CP1	1
4-Chloroaniline	< 0.326	0.653			ug/L	0.116	0.326	09/30/20 11:58	B0I0881	CP1	1
4-Chlorophenyl-phenylether	< 0.544	1.09			ug/L	0.158	0.544	09/30/20 11:58	B0I0881	CP1	1
4-Nitroaniline	< 10.9	32.6			ug/L	4.10	10.9	09/30/20 11:58	B0I0881	CP1	1
4-Nitrophenol	< 5.44	16.3			ug/L	1.56	5.44	09/30/20 11:58	B0I0881	CP1	1
Acenaphthene	< 0.326	0.653			ug/L	0.113	0.326	09/30/20 11:58	B0I0881	CP1	1
Acenaphthylene	< 0.326	0.653			ug/L	0.141	0.326	09/30/20 11:58	B0I0881	CP1	1
Anthracene	< 0.326	0.653			ug/L	0.121	0.326	09/30/20 11:58	B0I0881	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.326	1.09			ug/L	0.0834	0.326	09/30/20 11:58	B0I0881	CP1	1
Benzidine	< 43.5	87.0			ug/L	18.0	43.5	09/30/20 11:58	B0I0881	CP1	1
Benzo(a)anthracene	< 0.326	0.653			ug/L	0.134	0.326	09/30/20 11:58	B0I0881	CP1	1
Benzo(a)pyrene	< 1.09	2.18			ug/L	0.409	1.09	09/30/20 11:58	B0I0881	CP1	1
Benzo(b)fluoranthene	< 1.09	2.18			ug/L	0.405	1.09	09/30/20 11:58	B0I0881	CP1	1
Benzo(g,h,i)perylene	< 1.09	2.18			ug/L	0.434	1.09	09/30/20 11:58	B0I0881	CP1	1
Benzo(k)fluoranthene	< 0.544	2.18			ug/L	0.271	0.544	09/30/20 11:58	B0I0881	CP1	1
Benzoic acid	< 26.1	43.5			ug/L	12.8	26.1	09/30/20 11:58	B0I0881	CP1	1
Benzyl alcohol	< 2.18	4.35			ug/L	0.598	2.18	09/30/20 11:58	B0I0881	CP1	1
Bis(2-chloroethoxy)methane	< 0.544	1.09			ug/L	0.147	0.544	09/30/20 11:58	B0I0881	CP1	1
Bis(2-chloroethyl)ether	< 0.544	1.09			ug/L	0.191	0.544	09/30/20 11:58	B0I0881	CP1	1
Bis(2-chloroisopropyl)ether	< 0.544	1.09			ug/L	0.140	0.544	09/30/20 11:58	B0I0881	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.9	21.8			ug/L	3.95	10.9	09/30/20 11:58	B0I0881	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-12
Report Date: 10/07/2020
Collection Date: 09/23/2020 11:30
Matrix: Groundwater
Lab ID: 20I0861-25 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS (Continued)										
Method: SW8270D / SW3510 (Continued)										
Butyl benzyl phthalate	< 0.544	1.09		ug/L	0.255	0.544	09/30/20 11:58	B0I0881	CP1	1
Carbazole	< 0.544	1.09		ug/L	0.188	0.544	09/30/20 11:58	B0I0881	CP1	1
Chrysene	< 0.326	0.653		ug/L	0.138	0.326	09/30/20 11:58	B0I0881	CP1	1
Dibenzo(a,h)anthracene	< 1.09	2.18		ug/L	0.481	1.09	09/30/20 11:58	B0I0881	CP1	1
Dibenzofuran	< 0.326	0.653		ug/L	0.133	0.326	09/30/20 11:58	B0I0881	CP1	1
Diethyl phthalate	< 3.26	6.53		ug/L	1.27	3.26	09/30/20 11:58	B0I0881	CP1	1
Dimethyl phthalate	< 0.326	0.653		ug/L	0.0961	0.326	09/30/20 11:58	B0I0881	CP1	1
Di-n-butyl phthalate	< 6.53	10.9		ug/L	3.13	6.53	09/30/20 11:58	B0I0881	CP1	1
Di-n-octyl phthalate	< 5.44	10.9		ug/L	2.05	5.44	09/30/20 11:58	B0I0881	CP1	1
Fluoranthene	< 0.544	1.09		ug/L	0.214	0.544	09/30/20 11:58	B0I0881	CP1	1
Fluorene	< 0.326	0.653		ug/L	0.135	0.326	09/30/20 11:58	B0I0881	CP1	1
Hexachlorobenzene	< 0.544	1.09		ug/L	0.179	0.544	09/30/20 11:58	B0I0881	CP1	1
Hexachlorobutadiene	< 0.544	1.09		ug/L	0.272	0.544	09/30/20 11:58	B0I0881	CP1	1
Hexachlorocyclopentadiene	< 5.44	16.3		ug/L	2.38	5.44	09/30/20 11:58	B0I0881	CP1	1
Hexachloroethane	< 0.544	1.09		ug/L	0.239	0.544	09/30/20 11:58	B0I0881	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.09	2.18		ug/L	0.547	1.09	09/30/20 11:58	B0I0881	CP1	1
Isophorone	< 0.326	0.653		ug/L	0.120	0.326	09/30/20 11:58	B0I0881	CP1	1
Naphthalene	< 2.18	4.35		ug/L	0.888	2.18	09/30/20 11:58	B0I0881	CP1	1
Nitrobenzene	< 0.326	0.653		ug/L	0.152	0.326	09/30/20 11:58	B0I0881	CP1	1
N-Nitrosodimethylamine	< 0.544	1.09		ug/L	0.169	0.544	09/30/20 11:58	B0I0881	CP1	1
N-Nitrosodi-n-propylamine	< 1.09	2.18		ug/L	0.347	1.09	09/30/20 11:58	B0I0881	CP1	1
N-Nitrosodiphenylamine	< 0.326	0.653		ug/L	0.113	0.326	09/30/20 11:58	B0I0881	CP1	1
Pentachlorophenol	< 10.9	32.6		ug/L	2.74	10.9	09/30/20 11:58	B0I0881	CP1	1
Phenanthrene	< 0.544	1.09		ug/L	0.224	0.544	09/30/20 11:58	B0I0881	CP1	1
Phenol	< 0.544	1.09		ug/L	0.186	0.544	09/30/20 11:58	B0I0881	CP1	1
Pyrene	< 0.544	1.09		ug/L	0.226	0.544	09/30/20 11:58	B0I0881	CP1	1
<i>Surrogate: 2-Fluorophenol</i>				<i>Recovery: 39%</i>	<i>Limits: 10-88</i>		<i>09/30/20 11:58</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Phenol-d5</i>				<i>Recovery: 30%</i>	<i>Limits: 10-65</i>		<i>09/30/20 11:58</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Nitrobenzene-d5</i>				<i>Recovery: 69%</i>	<i>Limits: 25-128</i>		<i>09/30/20 11:58</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2-Fluorobiphenyl</i>				<i>Recovery: 65%</i>	<i>Limits: 24-114</i>		<i>09/30/20 11:58</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>				<i>Recovery: 68%</i>	<i>Limits: 15-119</i>		<i>09/30/20 11:58</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 4-Terphenyl-d14</i>				<i>Recovery: 92%</i>	<i>Limits: 29-129</i>		<i>09/30/20 11:58</i>	<i>B0I0881</i>	<i>CP1</i>	<i>1</i>

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500		ug/L	0.0625	0.200	10/02/20 18:34	B0J0077	CP1	1
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 109%</i>	<i>Limits: 80-120</i>		<i>10/02/20 18:34</i>	<i>B0J0077</i>	<i>CP1</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-12
Report Date: 10/07/2020
Collection Date: 09/23/2020 11:30
Matrix: Groundwater
Lab ID: 20I0861-26

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit										
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.532	1.06			ug/L	0.226	0.532	09/30/20 18:49	B0I0905	CS2	1	
Aroclor 1221	< 0.532	0.638			ug/L	0.204	0.532	09/30/20 18:49	B0I0905	CS2	1	
Aroclor 1232	< 0.532	0.638			ug/L	0.172	0.532	09/30/20 18:49	B0I0905	CS2	1	
Aroclor 1242	< 1.06	2.13			ug/L	0.373	1.06	09/30/20 18:49	B0I0905	CS2	1	
Aroclor 1248	< 0.532	0.638			ug/L	0.170	0.532	09/30/20 18:49	B0I0905	CS2	1	
Aroclor 1254	< 0.532	0.638			ug/L	0.187	0.532	09/30/20 18:49	B0I0905	CS2	1	
Aroclor 1260	< 0.319	0.426			ug/L	0.119	0.319	09/30/20 18:49	B0I0905	CS2	1	
Total PCB	< 0.532	0.638			ug/L	0.204	0.532	09/30/20 18:49	B0I0905	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 84%		Limits: 10-139		09/30/20 18:49	B0I0905	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 46%		Limits: 26-107		09/30/20 18:49	B0I0905	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-12 DUP
Report Date: 10/07/2020
Collection Date: 09/23/2020 11:30
Matrix: Groundwater
Lab ID: 20I0861-27

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	2.44	1.00		mg/L	0.400	0.800	10/07/20 01:52	B0J0227	TB2	1
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3510										
Aroclor 1016	< 0.534	1.07		ug/L	0.227	0.534	09/30/20 18:49	B0I0902	CS2	1
Aroclor 1221	< 0.534	0.641		ug/L	0.204	0.534	09/30/20 18:49	B0I0902	CS2	1
Aroclor 1232	< 0.534	0.641		ug/L	0.173	0.534	09/30/20 18:49	B0I0902	CS2	1
Aroclor 1242	< 1.07	2.14		ug/L	0.374	1.07	09/30/20 18:49	B0I0902	CS2	1
Aroclor 1248	< 0.534	0.641		ug/L	0.171	0.534	09/30/20 18:49	B0I0902	CS2	1
Aroclor 1254	< 0.534	0.641		ug/L	0.188	0.534	09/30/20 18:49	B0I0902	CS2	1
Aroclor 1260	< 0.320	0.427		ug/L	0.120	0.320	09/30/20 18:49	B0I0902	CS2	1
Total PCB	< 0.534	0.641		ug/L	0.204	0.534	09/30/20 18:49	B0I0902	CS2	1
Surrogate: Decachlorobiphenyl				Recovery: 84%	Limits: 10-139		09/30/20 18:49	B0I0902	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				Recovery: 51%	Limits: 26-107		09/30/20 18:49	B0I0902	CS2	1
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.706	2.00	09/29/20 21:48	B0I0944	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00		ug/L	0.719	2.00	09/29/20 21:48	B0I0944	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.713	2.00	09/29/20 21:48	B0I0944	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00		ug/L	0.198	0.600	09/29/20 21:48	B0I0944	WZZ	1
1,1-Dichloroethane	< 2.00	4.00		ug/L	0.691	2.00	09/29/20 21:48	B0I0944	WZZ	1
1,1-Dichloroethene	< 4.00	8.00		ug/L	1.10	4.00	09/29/20 21:48	B0I0944	WZZ	1
1,1-Dichloropropene	< 1.00	2.00		ug/L	0.462	1.00	09/29/20 21:48	B0I0944	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00		ug/L	0.199	0.600	09/29/20 21:48	B0I0944	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00		ug/L	0.598	2.00	09/29/20 21:48	B0I0944	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00		ug/L	0.753	2.00	09/29/20 21:48	B0I0944	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00		ug/L	1.22	4.00	09/29/20 21:48	B0I0944	WZZ	1
1,2-Dibromoethane	< 1.00	2.00		ug/L	0.420	1.00	09/29/20 21:48	B0I0944	WZZ	1
1,2-Dichloroethane	< 2.00	4.00		ug/L	0.731	2.00	09/29/20 21:48	B0I0944	WZZ	1
1,2-Dichloropropane	< 2.00	4.00		ug/L	0.557	2.00	09/29/20 21:48	B0I0944	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00		ug/L	0.351	1.00	09/29/20 21:48	B0I0944	WZZ	1
1,3-Dichloropropane	< 1.00	2.00		ug/L	0.345	1.00	09/29/20 21:48	B0I0944	WZZ	1
2,2-Dichloropropane	< 4.00	8.00		ug/L	1.03	4.00	09/29/20 21:48	B0I0944	WZZ	1
2-Butanone	< 14.0	28.0		ug/L	4.79	14.0	09/29/20 21:48	B0I0944	WZZ	1
2-Chlorotoluene	< 1.00	2.00		ug/L	0.384	1.00	09/29/20 21:48	B0I0944	WZZ	1
2-Hexanone	< 14.0	28.0		ug/L	4.74	14.0	09/29/20 21:48	B0I0944	WZZ	1
4-Isopropyltoluene	< 2.00	4.00		ug/L	0.930	2.00	09/29/20 21:48	B0I0944	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0		ug/L	4.40	14.0	09/29/20 21:48	B0I0944	WZZ	1
Acetone	< 28.0	70.0	Q, S1	ug/L	9.21	28.0	09/29/20 21:48	B0I0944	WZZ	1
Benzene	< 1.00	2.00		ug/L	0.362	1.00	09/29/20 21:48	B0I0944	WZZ	1
Bromobenzene	< 1.00	2.00		ug/L	0.354	1.00	09/29/20 21:48	B0I0944	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-12 DUP
Report Date: 10/07/2020
Collection Date: 09/23/2020 11:30
Matrix: Groundwater
Lab ID: 20I0861-27 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	09/29/20 21:48	B0I0944	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	09/29/20 21:48	B0I0944	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	09/29/20 21:48	B0I0944	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	09/29/20 21:48	B0I0944	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	09/29/20 21:48	B0I0944	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	09/29/20 21:48	B0I0944	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	09/29/20 21:48	B0I0944	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	09/29/20 21:48	B0I0944	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	09/29/20 21:48	B0I0944	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	09/29/20 21:48	B0I0944	WZZ	1
cis-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.652	2.00	09/29/20 21:48	B0I0944	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	09/29/20 21:48	B0I0944	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	09/29/20 21:48	B0I0944	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	09/29/20 21:48	B0I0944	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	09/29/20 21:48	B0I0944	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	09/29/20 21:48	B0I0944	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	09/29/20 21:48	B0I0944	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	09/29/20 21:48	B0I0944	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	09/29/20 21:48	B0I0944	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	09/29/20 21:48	B0I0944	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	09/29/20 21:48	B0I0944	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	09/29/20 21:48	B0I0944	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	09/29/20 21:48	B0I0944	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	09/29/20 21:48	B0I0944	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	09/29/20 21:48	B0I0944	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 21:48	B0I0944	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	09/29/20 21:48	B0I0944	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	09/29/20 21:48	B0I0944	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	09/29/20 21:48	B0I0944	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	09/29/20 21:48	B0I0944	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 21:48	B0I0944	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	09/29/20 21:48	B0I0944	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	09/29/20 21:48	B0I0944	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	09/29/20 21:48	B0I0944	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	09/29/20 21:48	B0I0944	WZZ	1
Surrogate: Dibromofluoromethane				Recovery: 101%	Limits: 84-137		09/29/20 21:48	B0I0944	WZZ	1
Surrogate: 1,2-Dichloroethane-d4				Recovery: 101%	Limits: 74-140		09/29/20 21:48	B0I0944	WZZ	1
Surrogate: Fluorobenzene				Recovery: 99%	Limits: 90-105		09/29/20 21:48	B0I0944	WZZ	1
Surrogate: Toluene-d8				Recovery: 101%	Limits: 74-109		09/29/20 21:48	B0I0944	WZZ	1
Surrogate: 4-Bromofluorobenzene				Recovery: 103%	Limits: 86-128		09/29/20 21:48	B0I0944	WZZ	1
Surrogate: 1,2-Dichlorobenzene-d4				Recovery: 101%	Limits: 90-128		09/29/20 21:48	B0I0944	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-12 DUP
Report Date: 10/07/2020
Collection Date: 09/23/2020 11:30
Matrix: Groundwater
Lab ID: 20I0861-27 (Continued)

Analyses	Result	EMT		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Reporting Limit	Qual							
Semivolatile Organic Compounds by GC/MS										
Method: SW8270D / SW3510										
1,2,4-Trichlorobenzene	< 1.08	2.16		ug/L	0.302	1.08	09/30/20 12:19	B0I0881	CP1	1
1,2-Dichlorobenzene	< 1.08	2.16		ug/L	0.324	1.08	09/30/20 12:19	B0I0881	CP1	1
1,3-Dichlorobenzene	< 1.08	2.16		ug/L	0.334	1.08	09/30/20 12:19	B0I0881	CP1	1
1,4-Dichlorobenzene	< 1.08	2.16		ug/L	0.302	1.08	09/30/20 12:19	B0I0881	CP1	1
2,4,5-Trichlorophenol	< 0.539	1.08		ug/L	0.140	0.539	09/30/20 12:19	B0I0881	CP1	1
2,4,6-Trichlorophenol	< 0.539	1.08		ug/L	0.263	0.539	09/30/20 12:19	B0I0881	CP1	1
2,4-Dichlorophenol	< 0.539	1.08		ug/L	0.0850	0.539	09/30/20 12:19	B0I0881	CP1	1
2,4-Dimethylphenol	< 1.08	2.16		ug/L	0.127	1.08	09/30/20 12:19	B0I0881	CP1	1
2,4-Dinitrophenol	< 10.8	32.4		ug/L	3.57	10.8	09/30/20 12:19	B0I0881	CP1	1
2,4-Dinitrotoluene	< 1.08	2.16		ug/L	0.272	1.08	09/30/20 12:19	B0I0881	CP1	1
2,6-Dinitrotoluene	< 0.539	1.08		ug/L	0.248	0.539	09/30/20 12:19	B0I0881	CP1	1
2-Chloronaphthalene	< 0.324	0.647		ug/L	0.114	0.324	09/30/20 12:19	B0I0881	CP1	1
2-Chlorophenol	< 0.539	1.08		ug/L	0.166	0.539	09/30/20 12:19	B0I0881	CP1	1
2-Methylnaphthalene	< 2.16	4.32		ug/L	0.691	2.16	09/30/20 12:19	B0I0881	CP1	1
2-Methylphenol	< 0.539	1.08		ug/L	0.197	0.539	09/30/20 12:19	B0I0881	CP1	1
2-Nitroaniline	< 10.8	32.4		ug/L	2.76	10.8	09/30/20 12:19	B0I0881	CP1	1
2-Nitrophenol	< 0.539	1.08		ug/L	0.226	0.539	09/30/20 12:19	B0I0881	CP1	1
3,3'-Dichlorobenzidine	< 10.8	21.6		ug/L	3.41	10.8	09/30/20 12:19	B0I0881	CP1	1
3 & 4-Methylphenol	< 0.539	1.08		ug/L	0.193	0.539	09/30/20 12:19	B0I0881	CP1	1
3-Nitroaniline	< 1.08	2.16		ug/L	0.388	1.08	09/30/20 12:19	B0I0881	CP1	1
4,6-Dinitro-2-methylphenol	< 5.39	16.2		ug/L	2.64	5.39	09/30/20 12:19	B0I0881	CP1	1
4-Bromophenyl-phenylether	< 0.539	1.08		ug/L	0.173	0.539	09/30/20 12:19	B0I0881	CP1	1
4-Chloro-3-methylphenol	< 0.216	0.539		ug/L	0.0769	0.216	09/30/20 12:19	B0I0881	CP1	1
4-Chloroaniline	< 0.324	0.647		ug/L	0.115	0.324	09/30/20 12:19	B0I0881	CP1	1
4-Chlorophenyl-phenylether	< 0.539	1.08		ug/L	0.157	0.539	09/30/20 12:19	B0I0881	CP1	1
4-Nitroaniline	< 10.8	32.4		ug/L	4.07	10.8	09/30/20 12:19	B0I0881	CP1	1
4-Nitrophenol	< 5.39	16.2		ug/L	1.55	5.39	09/30/20 12:19	B0I0881	CP1	1
Acenaphthene	< 0.324	0.647		ug/L	0.112	0.324	09/30/20 12:19	B0I0881	CP1	1
Acenaphthylene	< 0.324	0.647		ug/L	0.140	0.324	09/30/20 12:19	B0I0881	CP1	1
Anthracene	< 0.324	0.647		ug/L	0.120	0.324	09/30/20 12:19	B0I0881	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.324	1.08		ug/L	0.0828	0.324	09/30/20 12:19	B0I0881	CP1	1
Benzidine	< 43.2	86.3		ug/L	17.9	43.2	09/30/20 12:19	B0I0881	CP1	1
Benzo(a)anthracene	< 0.324	0.647		ug/L	0.133	0.324	09/30/20 12:19	B0I0881	CP1	1
Benzo(a)pyrene	< 1.08	2.16		ug/L	0.405	1.08	09/30/20 12:19	B0I0881	CP1	1
Benzo(b)fluoranthene	< 1.08	2.16		ug/L	0.402	1.08	09/30/20 12:19	B0I0881	CP1	1
Benzo(g,h,i)perylene	< 1.08	2.16		ug/L	0.431	1.08	09/30/20 12:19	B0I0881	CP1	1
Benzo(k)fluoranthene	< 0.539	2.16		ug/L	0.268	0.539	09/30/20 12:19	B0I0881	CP1	1
Benzoic acid	< 25.9	43.2		ug/L	12.7	25.9	09/30/20 12:19	B0I0881	CP1	1
Benzyl alcohol	< 2.16	4.32		ug/L	0.593	2.16	09/30/20 12:19	B0I0881	CP1	1
Bis(2-chloroethoxy)methane	< 0.539	1.08		ug/L	0.146	0.539	09/30/20 12:19	B0I0881	CP1	1
Bis(2-chloroethyl)ether	< 0.539	1.08		ug/L	0.190	0.539	09/30/20 12:19	B0I0881	CP1	1
Bis(2-chloroisopropyl)ether	< 0.539	1.08		ug/L	0.138	0.539	09/30/20 12:19	B0I0881	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.8	21.6		ug/L	3.92	10.8	09/30/20 12:19	B0I0881	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-12 DUP
Report Date: 10/07/2020
Collection Date: 09/23/2020 11:30
Matrix: Groundwater
Lab ID: 20I0861-27 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time	Batch	Analyst	DF
		Limit						Analyzed			
Semivolatile Organic Compounds by GC/MS (Continued)											
Method: SW8270D / SW3510 (Continued)											
Butyl benzyl phthalate	< 0.539	1.08			ug/L	0.252	0.539	09/30/20 12:19	B0I0881	CP1	1
Carbazole	< 0.539	1.08			ug/L	0.186	0.539	09/30/20 12:19	B0I0881	CP1	1
Chrysene	< 0.324	0.647			ug/L	0.137	0.324	09/30/20 12:19	B0I0881	CP1	1
Dibenzo(a,h)anthracene	< 1.08	2.16			ug/L	0.477	1.08	09/30/20 12:19	B0I0881	CP1	1
Dibenzofuran	< 0.324	0.647			ug/L	0.132	0.324	09/30/20 12:19	B0I0881	CP1	1
Diethyl phthalate	< 3.24	6.47			ug/L	1.26	3.24	09/30/20 12:19	B0I0881	CP1	1
Dimethyl phthalate	< 0.324	0.647			ug/L	0.0953	0.324	09/30/20 12:19	B0I0881	CP1	1
Di-n-butyl phthalate	< 6.47	10.8			ug/L	3.11	6.47	09/30/20 12:19	B0I0881	CP1	1
Di-n-octyl phthalate	< 5.39	10.8			ug/L	2.04	5.39	09/30/20 12:19	B0I0881	CP1	1
Fluoranthene	< 0.539	1.08			ug/L	0.212	0.539	09/30/20 12:19	B0I0881	CP1	1
Fluorene	< 0.324	0.647			ug/L	0.134	0.324	09/30/20 12:19	B0I0881	CP1	1
Hexachlorobenzene	< 0.539	1.08			ug/L	0.178	0.539	09/30/20 12:19	B0I0881	CP1	1
Hexachlorobutadiene	< 0.539	1.08			ug/L	0.270	0.539	09/30/20 12:19	B0I0881	CP1	1
Hexachlorocyclopentadiene	< 5.39	16.2			ug/L	2.36	5.39	09/30/20 12:19	B0I0881	CP1	1
Hexachloroethane	< 0.539	1.08			ug/L	0.237	0.539	09/30/20 12:19	B0I0881	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.08	2.16			ug/L	0.542	1.08	09/30/20 12:19	B0I0881	CP1	1
Isophorone	< 0.324	0.647			ug/L	0.119	0.324	09/30/20 12:19	B0I0881	CP1	1
Naphthalene	< 2.16	4.32			ug/L	0.880	2.16	09/30/20 12:19	B0I0881	CP1	1
Nitrobenzene	< 0.324	0.647			ug/L	0.151	0.324	09/30/20 12:19	B0I0881	CP1	1
N-Nitrosodimethylamine	< 0.539	1.08			ug/L	0.168	0.539	09/30/20 12:19	B0I0881	CP1	1
N-Nitrosodi-n-propylamine	< 1.08	2.16			ug/L	0.344	1.08	09/30/20 12:19	B0I0881	CP1	1
N-Nitrosodiphenylamine	< 0.324	0.647			ug/L	0.112	0.324	09/30/20 12:19	B0I0881	CP1	1
Pentachlorophenol	< 10.8	32.4			ug/L	2.72	10.8	09/30/20 12:19	B0I0881	CP1	1
Phenanthrene	< 0.539	1.08			ug/L	0.222	0.539	09/30/20 12:19	B0I0881	CP1	1
Phenol	< 0.539	1.08			ug/L	0.184	0.539	09/30/20 12:19	B0I0881	CP1	1
Pyrene	< 0.539	1.08			ug/L	0.224	0.539	09/30/20 12:19	B0I0881	CP1	1
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Surrogate: 2-Fluorophenol								09/30/20 12:19	B0I0881	CP1	1
Surrogate: Phenol-d5								09/30/20 12:19	B0I0881	CP1	1
Surrogate: Nitrobenzene-d5								09/30/20 12:19	B0I0881	CP1	1
Surrogate: 2-Fluorobiphenyl								09/30/20 12:19	B0I0881	CP1	1
Surrogate: 2,4,6-Tribromophenol								09/30/20 12:19	B0I0881	CP1	1
Surrogate: 4-Terphenyl-d14								09/30/20 12:19	B0I0881	CP1	1

Subcontracted Analyses**Method: SW8260-SIM Modified / SW5030**

1,4-Dioxane	< 0.200	0.500			ug/L	0.0625	0.200	10/02/20 14:06	B0J0077	CP1	1
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Surrogate: Toluene-d8								10/02/20 14:06	B0J0077	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-12 DUP
Report Date: 10/07/2020
Collection Date: 09/23/2020 11:30
Matrix: Groundwater
Lab ID: 20I0861-28

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit										
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.525	1.05			ug/L	0.223	0.525	09/30/20 19:06	B0I0905	CS2	1	
Aroclor 1221	< 0.525	0.630			ug/L	0.201	0.525	09/30/20 19:06	B0I0905	CS2	1	
Aroclor 1232	< 0.525	0.630			ug/L	0.170	0.525	09/30/20 19:06	B0I0905	CS2	1	
Aroclor 1242	< 1.05	2.10			ug/L	0.368	1.05	09/30/20 19:06	B0I0905	CS2	1	
Aroclor 1248	< 0.525	0.630			ug/L	0.168	0.525	09/30/20 19:06	B0I0905	CS2	1	
Aroclor 1254	< 0.525	0.630			ug/L	0.185	0.525	09/30/20 19:06	B0I0905	CS2	1	
Aroclor 1260	< 0.315	0.420			ug/L	0.118	0.315	09/30/20 19:06	B0I0905	CS2	1	
Total PCB	< 0.525	0.630			ug/L	0.201	0.525	09/30/20 19:06	B0I0905	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 99%		Limits: 10-139		09/30/20 19:06	B0I0905	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 64%		Limits: 26-107		09/30/20 19:06	B0I0905	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-13
Report Date: 10/07/2020
Collection Date: 09/23/2020 14:05
Matrix: Groundwater
Lab ID: 20I0861-29

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Wet Chemistry											
Method: SW9060											
Organic Carbon, Total	2.39	1.00			mg/L	0.400	0.800	10/07/20 02:12	B0J0227	TB2	1
Polychlorinated Biphenyls (PCBs) by GC/ECD											
Method: SW8082A / SW3510											
Aroclor 1016	< 0.517	1.03			ug/L	0.220	0.517	09/30/20 19:06	B0I0902	CS2	1
Aroclor 1221	< 0.517	0.621			ug/L	0.198	0.517	09/30/20 19:06	B0I0902	CS2	1
Aroclor 1232	< 0.517	0.621			ug/L	0.168	0.517	09/30/20 19:06	B0I0902	CS2	1
Aroclor 1242	< 1.03	2.07			ug/L	0.363	1.03	09/30/20 19:06	B0I0902	CS2	1
Aroclor 1248	< 0.517	0.621			ug/L	0.165	0.517	09/30/20 19:06	B0I0902	CS2	1
Aroclor 1254	< 0.517	0.621			ug/L	0.182	0.517	09/30/20 19:06	B0I0902	CS2	1
Aroclor 1260	< 0.310	0.414			ug/L	0.116	0.310	09/30/20 19:06	B0I0902	CS2	1
Total PCB	< 0.517	0.621			ug/L	0.198	0.517	09/30/20 19:06	B0I0902	CS2	1
Surrogate: Decachlorobiphenyl					Recovery: 79%	Limits: 10-139		09/30/20 19:06	B0I0902	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene					Recovery: 50%	Limits: 26-107		09/30/20 19:06	B0I0902	CS2	1
Volatile Organic Compounds by GC/MS											
Method: SW8260B / SW5030											
1,1,1,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.706	2.00	09/29/20 22:13	B0I0944	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00			ug/L	0.719	2.00	09/29/20 22:13	B0I0944	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.713	2.00	09/29/20 22:13	B0I0944	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00			ug/L	0.198	0.600	09/29/20 22:13	B0I0944	WZZ	1
1,1-Dichloroethane	< 2.00	4.00			ug/L	0.691	2.00	09/29/20 22:13	B0I0944	WZZ	1
1,1-Dichloroethene	< 4.00	8.00			ug/L	1.10	4.00	09/29/20 22:13	B0I0944	WZZ	1
1,1-Dichloropropene	< 1.00	2.00			ug/L	0.462	1.00	09/29/20 22:13	B0I0944	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00			ug/L	0.199	0.600	09/29/20 22:13	B0I0944	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00			ug/L	0.598	2.00	09/29/20 22:13	B0I0944	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00			ug/L	0.753	2.00	09/29/20 22:13	B0I0944	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00			ug/L	1.22	4.00	09/29/20 22:13	B0I0944	WZZ	1
1,2-Dibromoethane	< 1.00	2.00			ug/L	0.420	1.00	09/29/20 22:13	B0I0944	WZZ	1
1,2-Dichloroethane	< 2.00	4.00			ug/L	0.731	2.00	09/29/20 22:13	B0I0944	WZZ	1
1,2-Dichloropropane	< 2.00	4.00			ug/L	0.557	2.00	09/29/20 22:13	B0I0944	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00			ug/L	0.351	1.00	09/29/20 22:13	B0I0944	WZZ	1
1,3-Dichloropropane	< 1.00	2.00			ug/L	0.345	1.00	09/29/20 22:13	B0I0944	WZZ	1
2,2-Dichloropropane	< 4.00	8.00			ug/L	1.03	4.00	09/29/20 22:13	B0I0944	WZZ	1
2-Butanone	< 14.0	28.0			ug/L	4.79	14.0	09/29/20 22:13	B0I0944	WZZ	1
2-Chlorotoluene	< 1.00	2.00			ug/L	0.384	1.00	09/29/20 22:13	B0I0944	WZZ	1
2-Hexanone	< 14.0	28.0			ug/L	4.74	14.0	09/29/20 22:13	B0I0944	WZZ	1
4-Isopropyltoluene	< 2.00	4.00			ug/L	0.930	2.00	09/29/20 22:13	B0I0944	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0			ug/L	4.40	14.0	09/29/20 22:13	B0I0944	WZZ	1
Acetone	< 28.0	70.0	Q, S1		ug/L	9.21	28.0	09/29/20 22:13	B0I0944	WZZ	1
Benzene	< 1.00	2.00			ug/L	0.362	1.00	09/29/20 22:13	B0I0944	WZZ	1
Bromobenzene	< 1.00	2.00			ug/L	0.354	1.00	09/29/20 22:13	B0I0944	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-13
Report Date: 10/07/2020
Collection Date: 09/23/2020 14:05
Matrix: Groundwater
Lab ID: 20I0861-29 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	09/29/20 22:13	B0I0944	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	09/29/20 22:13	B0I0944	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	09/29/20 22:13	B0I0944	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	09/29/20 22:13	B0I0944	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	09/29/20 22:13	B0I0944	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	09/29/20 22:13	B0I0944	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	09/29/20 22:13	B0I0944	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	09/29/20 22:13	B0I0944	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	09/29/20 22:13	B0I0944	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	09/29/20 22:13	B0I0944	WZZ	1
cis-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.652	2.00	09/29/20 22:13	B0I0944	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	09/29/20 22:13	B0I0944	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	09/29/20 22:13	B0I0944	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	09/29/20 22:13	B0I0944	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	09/29/20 22:13	B0I0944	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	09/29/20 22:13	B0I0944	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	09/29/20 22:13	B0I0944	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	09/29/20 22:13	B0I0944	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	09/29/20 22:13	B0I0944	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	09/29/20 22:13	B0I0944	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	09/29/20 22:13	B0I0944	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	09/29/20 22:13	B0I0944	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	09/29/20 22:13	B0I0944	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	09/29/20 22:13	B0I0944	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	09/29/20 22:13	B0I0944	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 22:13	B0I0944	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	09/29/20 22:13	B0I0944	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	09/29/20 22:13	B0I0944	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	09/29/20 22:13	B0I0944	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	09/29/20 22:13	B0I0944	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 22:13	B0I0944	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	09/29/20 22:13	B0I0944	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	09/29/20 22:13	B0I0944	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	09/29/20 22:13	B0I0944	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	09/29/20 22:13	B0I0944	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 102%</i>	<i>Limits: 84-137</i>		<i>09/29/20 22:13</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 103%</i>	<i>Limits: 74-140</i>		<i>09/29/20 22:13</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 100%</i>	<i>Limits: 90-105</i>		<i>09/29/20 22:13</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 97%</i>	<i>Limits: 74-109</i>		<i>09/29/20 22:13</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 101%</i>	<i>Limits: 86-128</i>		<i>09/29/20 22:13</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 101%</i>	<i>Limits: 90-128</i>		<i>09/29/20 22:13</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-13
Report Date: 10/07/2020
Collection Date: 09/23/2020 14:05
Matrix: Groundwater
Lab ID: 20I0861-29 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Semivolatile Organic Compounds by GC/MS											
Method: SW8270D / SW3510											
1,2,4-Trichlorobenzene	< 1.04	2.07			ug/L	0.290	1.04	09/30/20 12:40	B0I0881	CP1	1
1,2-Dichlorobenzene	< 1.04	2.07			ug/L	0.311	1.04	09/30/20 12:40	B0I0881	CP1	1
1,3-Dichlorobenzene	< 1.04	2.07			ug/L	0.321	1.04	09/30/20 12:40	B0I0881	CP1	1
1,4-Dichlorobenzene	< 1.04	2.07			ug/L	0.290	1.04	09/30/20 12:40	B0I0881	CP1	1
2,4,5-Trichlorophenol	< 0.518	1.04			ug/L	0.134	0.518	09/30/20 12:40	B0I0881	CP1	1
2,4,6-Trichlorophenol	< 0.518	1.04			ug/L	0.252	0.518	09/30/20 12:40	B0I0881	CP1	1
2,4-Dichlorophenol	< 0.518	1.04			ug/L	0.0816	0.518	09/30/20 12:40	B0I0881	CP1	1
2,4-Dimethylphenol	< 1.04	2.07			ug/L	0.122	1.04	09/30/20 12:40	B0I0881	CP1	1
2,4-Dinitrophenol	< 10.4	31.1			ug/L	3.43	10.4	09/30/20 12:40	B0I0881	CP1	1
2,4-Dinitrotoluene	< 1.04	2.07			ug/L	0.261	1.04	09/30/20 12:40	B0I0881	CP1	1
2,6-Dinitrotoluene	< 0.518	1.04			ug/L	0.238	0.518	09/30/20 12:40	B0I0881	CP1	1
2-Chloronaphthalene	< 0.311	0.622			ug/L	0.110	0.311	09/30/20 12:40	B0I0881	CP1	1
2-Chlorophenol	< 0.518	1.04			ug/L	0.159	0.518	09/30/20 12:40	B0I0881	CP1	1
2-Methylnaphthalene	< 2.07	4.14			ug/L	0.663	2.07	09/30/20 12:40	B0I0881	CP1	1
2-Methylphenol	< 0.518	1.04			ug/L	0.189	0.518	09/30/20 12:40	B0I0881	CP1	1
2-Nitroaniline	< 10.4	31.1			ug/L	2.65	10.4	09/30/20 12:40	B0I0881	CP1	1
2-Nitrophenol	< 0.518	1.04			ug/L	0.217	0.518	09/30/20 12:40	B0I0881	CP1	1
3,3'-Dichlorobenzidine	< 10.4	20.7			ug/L	3.28	10.4	09/30/20 12:40	B0I0881	CP1	1
3 & 4-Methylphenol	< 0.518	1.04			ug/L	0.186	0.518	09/30/20 12:40	B0I0881	CP1	1
3-Nitroaniline	< 1.04	2.07			ug/L	0.373	1.04	09/30/20 12:40	B0I0881	CP1	1
4,6-Dinitro-2-methylphenol	< 5.18	15.5			ug/L	2.54	5.18	09/30/20 12:40	B0I0881	CP1	1
4-Bromophenyl-phenylether	< 0.518	1.04			ug/L	0.166	0.518	09/30/20 12:40	B0I0881	CP1	1
4-Chloro-3-methylphenol	< 0.207	0.518			ug/L	0.0739	0.207	09/30/20 12:40	B0I0881	CP1	1
4-Chloroaniline	< 0.311	0.622			ug/L	0.111	0.311	09/30/20 12:40	B0I0881	CP1	1
4-Chlorophenyl-phenylether	< 0.518	1.04			ug/L	0.151	0.518	09/30/20 12:40	B0I0881	CP1	1
4-Nitroaniline	< 10.4	31.1			ug/L	3.91	10.4	09/30/20 12:40	B0I0881	CP1	1
4-Nitrophenol	< 5.18	15.5			ug/L	1.49	5.18	09/30/20 12:40	B0I0881	CP1	1
Acenaphthene	< 0.311	0.622			ug/L	0.108	0.311	09/30/20 12:40	B0I0881	CP1	1
Acenaphthylene	< 0.311	0.622			ug/L	0.135	0.311	09/30/20 12:40	B0I0881	CP1	1
Anthracene	< 0.311	0.622			ug/L	0.115	0.311	09/30/20 12:40	B0I0881	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.311	1.04			ug/L	0.0794	0.311	09/30/20 12:40	B0I0881	CP1	1
Benzidine	< 41.4	82.9			ug/L	17.2	41.4	09/30/20 12:40	B0I0881	CP1	1
Benzo(a)anthracene	< 0.311	0.622			ug/L	0.128	0.311	09/30/20 12:40	B0I0881	CP1	1
Benzo(a)pyrene	< 1.04	2.07			ug/L	0.389	1.04	09/30/20 12:40	B0I0881	CP1	1
Benzo(b)fluoranthene	< 1.04	2.07			ug/L	0.386	1.04	09/30/20 12:40	B0I0881	CP1	1
Benzo(g,h,i)perylene	< 1.04	2.07			ug/L	0.414	1.04	09/30/20 12:40	B0I0881	CP1	1
Benzo(k)fluoranthene	< 0.518	2.07			ug/L	0.258	0.518	09/30/20 12:40	B0I0881	CP1	1
Benzoic acid	< 24.9	41.4			ug/L	12.2	24.9	09/30/20 12:40	B0I0881	CP1	1
Benzyl alcohol	< 2.07	4.14			ug/L	0.570	2.07	09/30/20 12:40	B0I0881	CP1	1
Bis(2-chloroethoxy)methane	< 0.518	1.04			ug/L	0.140	0.518	09/30/20 12:40	B0I0881	CP1	1
Bis(2-chloroethyl)ether	< 0.518	1.04			ug/L	0.182	0.518	09/30/20 12:40	B0I0881	CP1	1
Bis(2-chloroisopropyl)ether	< 0.518	1.04			ug/L	0.133	0.518	09/30/20 12:40	B0I0881	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.4	20.7			ug/L	3.76	10.4	09/30/20 12:40	B0I0881	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-13
Report Date: 10/07/2020
Collection Date: 09/23/2020 14:05
Matrix: Groundwater
Lab ID: 20I0861-29 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS (Continued)										
Method: SW8270D / SW3510 (Continued)										
Butyl benzyl phthalate	< 0.518	1.04		ug/L	0.242	0.518	09/30/20 12:40	B0I0881	CP1	1
Carbazole	< 0.518	1.04		ug/L	0.179	0.518	09/30/20 12:40	B0I0881	CP1	1
Chrysene	< 0.311	0.622		ug/L	0.131	0.311	09/30/20 12:40	B0I0881	CP1	1
Dibenzo(a,h)anthracene	< 1.04	2.07		ug/L	0.458	1.04	09/30/20 12:40	B0I0881	CP1	1
Dibenzofuran	< 0.311	0.622		ug/L	0.127	0.311	09/30/20 12:40	B0I0881	CP1	1
Diethyl phthalate	< 3.11	6.22		ug/L	1.21	3.11	09/30/20 12:40	B0I0881	CP1	1
Dimethyl phthalate	< 0.311	0.622		ug/L	0.0915	0.311	09/30/20 12:40	B0I0881	CP1	1
Di-n-butyl phthalate	< 6.22	10.4		ug/L	2.98	6.22	09/30/20 12:40	B0I0881	CP1	1
Di-n-octyl phthalate	< 5.18	10.4		ug/L	1.96	5.18	09/30/20 12:40	B0I0881	CP1	1
Fluoranthene	< 0.518	1.04		ug/L	0.203	0.518	09/30/20 12:40	B0I0881	CP1	1
Fluorene	< 0.311	0.622		ug/L	0.128	0.311	09/30/20 12:40	B0I0881	CP1	1
Hexachlorobenzene	< 0.518	1.04		ug/L	0.171	0.518	09/30/20 12:40	B0I0881	CP1	1
Hexachlorobutadiene	< 0.518	1.04		ug/L	0.259	0.518	09/30/20 12:40	B0I0881	CP1	1
Hexachlorocyclopentadiene	< 5.18	15.5		ug/L	2.27	5.18	09/30/20 12:40	B0I0881	CP1	1
Hexachloroethane	< 0.518	1.04		ug/L	0.228	0.518	09/30/20 12:40	B0I0881	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.04	2.07		ug/L	0.521	1.04	09/30/20 12:40	B0I0881	CP1	1
Isophorone	< 0.311	0.622		ug/L	0.114	0.311	09/30/20 12:40	B0I0881	CP1	1
Naphthalene	< 2.07	4.14		ug/L	0.845	2.07	09/30/20 12:40	B0I0881	CP1	1
Nitrobenzene	< 0.311	0.622		ug/L	0.145	0.311	09/30/20 12:40	B0I0881	CP1	1
N-Nitrosodimethylamine	< 0.518	1.04		ug/L	0.161	0.518	09/30/20 12:40	B0I0881	CP1	1
N-Nitrosodi-n-propylamine	< 1.04	2.07		ug/L	0.330	1.04	09/30/20 12:40	B0I0881	CP1	1
N-Nitrosodiphenylamine	< 0.311	0.622		ug/L	0.108	0.311	09/30/20 12:40	B0I0881	CP1	1
Pentachlorophenol	< 10.4	31.1		ug/L	2.61	10.4	09/30/20 12:40	B0I0881	CP1	1
Phenanthrene	< 0.518	1.04		ug/L	0.213	0.518	09/30/20 12:40	B0I0881	CP1	1
Phenol	< 0.518	1.04		ug/L	0.177	0.518	09/30/20 12:40	B0I0881	CP1	1
Pyrene	< 0.518	1.04		ug/L	0.215	0.518	09/30/20 12:40	B0I0881	CP1	1
Surrogate: 2-Fluorophenol				Recovery: 36%	Limits: 10-88		09/30/20 12:40	B0I0881	CP1	1
Surrogate: Phenol-d5				Recovery: 30%	Limits: 10-65		09/30/20 12:40	B0I0881	CP1	1
Surrogate: Nitrobenzene-d5				Recovery: 60%	Limits: 25-128		09/30/20 12:40	B0I0881	CP1	1
Surrogate: 2-Fluorobiphenyl				Recovery: 60%	Limits: 24-114		09/30/20 12:40	B0I0881	CP1	1
Surrogate: 2,4,6-Tribromophenol				Recovery: 66%	Limits: 15-119		09/30/20 12:40	B0I0881	CP1	1
Surrogate: 4-Terphenyl-d14				Recovery: 85%	Limits: 29-129		09/30/20 12:40	B0I0881	CP1	1

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500		ug/L	0.0625	0.200	10/02/20 14:30	B0J0077	CP1	1
Surrogate: Toluene-d8				Recovery: 100%	Limits: 80-120		10/02/20 14:30	B0J0077	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-13
Report Date: 10/07/2020
Collection Date: 09/23/2020 14:05
Matrix: Groundwater
Lab ID: 20I0861-30

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit										
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.513	1.03			ug/L	0.218	0.513	09/30/20 19:23	B0I0905	CS2	1	
Aroclor 1221	< 0.513	0.616			ug/L	0.196	0.513	09/30/20 19:23	B0I0905	CS2	1	
Aroclor 1232	< 0.513	0.616			ug/L	0.166	0.513	09/30/20 19:23	B0I0905	CS2	1	
Aroclor 1242	< 1.03	2.05			ug/L	0.360	1.03	09/30/20 19:23	B0I0905	CS2	1	
Aroclor 1248	< 0.513	0.616			ug/L	0.164	0.513	09/30/20 19:23	B0I0905	CS2	1	
Aroclor 1254	< 0.513	0.616			ug/L	0.180	0.513	09/30/20 19:23	B0I0905	CS2	1	
Aroclor 1260	< 0.308	0.410			ug/L	0.115	0.308	09/30/20 19:23	B0I0905	CS2	1	
Total PCB	< 0.513	0.616			ug/L	0.196	0.513	09/30/20 19:23	B0I0905	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 96%		Limits: 10-139		09/30/20 19:23	B0I0905	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 60%		Limits: 26-107		09/30/20 19:23	B0I0905	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-14
Report Date: 10/07/2020
Collection Date: 09/23/2020 14:35
Matrix: Groundwater
Lab ID: 20I0861-31

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Wet Chemistry											
Method: SW9060											
Organic Carbon, Total	2.84	1.00			mg/L	0.400	0.800	10/07/20 02:35	B0J0227	TB2	1
Polychlorinated Biphenyls (PCBs) by GC/ECD											
Method: SW8082A / SW3510											
Aroclor 1016	< 0.531	1.06			ug/L	0.225	0.531	09/30/20 19:23	B0I0902	CS2	1
Aroclor 1221	< 0.531	0.637			ug/L	0.203	0.531	09/30/20 19:23	B0I0902	CS2	1
Aroclor 1232	< 0.531	0.637			ug/L	0.172	0.531	09/30/20 19:23	B0I0902	CS2	1
Aroclor 1242	< 1.06	2.12			ug/L	0.372	1.06	09/30/20 19:23	B0I0902	CS2	1
Aroclor 1248	< 0.531	0.637			ug/L	0.170	0.531	09/30/20 19:23	B0I0902	CS2	1
Aroclor 1254	< 0.531	0.637			ug/L	0.186	0.531	09/30/20 19:23	B0I0902	CS2	1
Aroclor 1260	< 0.318	0.425			ug/L	0.119	0.318	09/30/20 19:23	B0I0902	CS2	1
Total PCB	< 0.531	0.637			ug/L	0.203	0.531	09/30/20 19:23	B0I0902	CS2	1
Surrogate: Decachlorobiphenyl					Recovery: 83%	Limits: 10-139		09/30/20 19:23	B0I0902	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene					Recovery: 50%	Limits: 26-107		09/30/20 19:23	B0I0902	CS2	1
Volatile Organic Compounds by GC/MS											
Method: SW8260B / SW5030											
1,1,1,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.706	2.00	09/29/20 22:39	B0I0944	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00			ug/L	0.719	2.00	09/29/20 22:39	B0I0944	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.713	2.00	09/29/20 22:39	B0I0944	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00			ug/L	0.198	0.600	09/29/20 22:39	B0I0944	WZZ	1
1,1-Dichloroethane	< 2.00	4.00			ug/L	0.691	2.00	09/29/20 22:39	B0I0944	WZZ	1
1,1-Dichloroethene	< 4.00	8.00			ug/L	1.10	4.00	09/29/20 22:39	B0I0944	WZZ	1
1,1-Dichloropropene	< 1.00	2.00			ug/L	0.462	1.00	09/29/20 22:39	B0I0944	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00			ug/L	0.199	0.600	09/29/20 22:39	B0I0944	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00			ug/L	0.598	2.00	09/29/20 22:39	B0I0944	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00			ug/L	0.753	2.00	09/29/20 22:39	B0I0944	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00			ug/L	1.22	4.00	09/29/20 22:39	B0I0944	WZZ	1
1,2-Dibromoethane	< 1.00	2.00			ug/L	0.420	1.00	09/29/20 22:39	B0I0944	WZZ	1
1,2-Dichloroethane	< 2.00	4.00			ug/L	0.731	2.00	09/29/20 22:39	B0I0944	WZZ	1
1,2-Dichloropropane	< 2.00	4.00			ug/L	0.557	2.00	09/29/20 22:39	B0I0944	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00			ug/L	0.351	1.00	09/29/20 22:39	B0I0944	WZZ	1
1,3-Dichloropropane	< 1.00	2.00			ug/L	0.345	1.00	09/29/20 22:39	B0I0944	WZZ	1
2,2-Dichloropropane	< 4.00	8.00			ug/L	1.03	4.00	09/29/20 22:39	B0I0944	WZZ	1
2-Butanone	< 14.0	28.0			ug/L	4.79	14.0	09/29/20 22:39	B0I0944	WZZ	1
2-Chlorotoluene	< 1.00	2.00			ug/L	0.384	1.00	09/29/20 22:39	B0I0944	WZZ	1
2-Hexanone	< 14.0	28.0			ug/L	4.74	14.0	09/29/20 22:39	B0I0944	WZZ	1
4-Isopropyltoluene	< 2.00	4.00			ug/L	0.930	2.00	09/29/20 22:39	B0I0944	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0			ug/L	4.40	14.0	09/29/20 22:39	B0I0944	WZZ	1
Acetone	< 28.0	70.0	Q, S1		ug/L	9.21	28.0	09/29/20 22:39	B0I0944	WZZ	1
Benzene	< 1.00	2.00			ug/L	0.362	1.00	09/29/20 22:39	B0I0944	WZZ	1
Bromobenzene	< 1.00	2.00			ug/L	0.354	1.00	09/29/20 22:39	B0I0944	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-14
Report Date: 10/07/2020
Collection Date: 09/23/2020 14:35
Matrix: Groundwater
Lab ID: 20I0861-31 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	09/29/20 22:39	B0I0944	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	09/29/20 22:39	B0I0944	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	09/29/20 22:39	B0I0944	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	09/29/20 22:39	B0I0944	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	09/29/20 22:39	B0I0944	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	09/29/20 22:39	B0I0944	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	09/29/20 22:39	B0I0944	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	09/29/20 22:39	B0I0944	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	09/29/20 22:39	B0I0944	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	09/29/20 22:39	B0I0944	WZZ	1
cis-1,2-Dichloroethene	21.7	4.00		ug/L	0.652	2.00	09/29/20 22:39	B0I0944	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	09/29/20 22:39	B0I0944	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	09/29/20 22:39	B0I0944	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	09/29/20 22:39	B0I0944	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	09/29/20 22:39	B0I0944	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	09/29/20 22:39	B0I0944	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	09/29/20 22:39	B0I0944	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	09/29/20 22:39	B0I0944	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	09/29/20 22:39	B0I0944	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	09/29/20 22:39	B0I0944	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	09/29/20 22:39	B0I0944	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	09/29/20 22:39	B0I0944	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	09/29/20 22:39	B0I0944	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	09/29/20 22:39	B0I0944	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	09/29/20 22:39	B0I0944	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 22:39	B0I0944	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	09/29/20 22:39	B0I0944	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	09/29/20 22:39	B0I0944	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	09/29/20 22:39	B0I0944	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	09/29/20 22:39	B0I0944	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 22:39	B0I0944	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	09/29/20 22:39	B0I0944	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	09/29/20 22:39	B0I0944	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	09/29/20 22:39	B0I0944	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	09/29/20 22:39	B0I0944	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 103%</i>	<i>Limits: 84-137</i>		<i>09/29/20 22:39</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 102%</i>	<i>Limits: 74-140</i>		<i>09/29/20 22:39</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 99%</i>	<i>Limits: 90-105</i>		<i>09/29/20 22:39</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 100%</i>	<i>Limits: 74-109</i>		<i>09/29/20 22:39</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 101%</i>	<i>Limits: 86-128</i>		<i>09/29/20 22:39</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 99%</i>	<i>Limits: 90-128</i>		<i>09/29/20 22:39</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-14
Report Date: 10/07/2020
Collection Date: 09/23/2020 14:35
Matrix: Groundwater
Lab ID: 20I0861-31 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS										
Method: SW8270D / SW3510										
1,2,4-Trichlorobenzene	< 1.06	2.12		ug/L	0.297	1.06	09/30/20 13:01	B0I0881	CP1	1
1,2-Dichlorobenzene	< 1.06	2.12		ug/L	0.318	1.06	09/30/20 13:01	B0I0881	CP1	1
1,3-Dichlorobenzene	< 1.06	2.12		ug/L	0.329	1.06	09/30/20 13:01	B0I0881	CP1	1
1,4-Dichlorobenzene	< 1.06	2.12		ug/L	0.297	1.06	09/30/20 13:01	B0I0881	CP1	1
2,4,5-Trichlorophenol	< 0.531	1.06		ug/L	0.137	0.531	09/30/20 13:01	B0I0881	CP1	1
2,4,6-Trichlorophenol	< 0.531	1.06		ug/L	0.259	0.531	09/30/20 13:01	B0I0881	CP1	1
2,4-Dichlorophenol	< 0.531	1.06		ug/L	0.0836	0.531	09/30/20 13:01	B0I0881	CP1	1
2,4-Dimethylphenol	< 1.06	2.12		ug/L	0.125	1.06	09/30/20 13:01	B0I0881	CP1	1
2,4-Dinitrophenol	< 10.6	31.8		ug/L	3.51	10.6	09/30/20 13:01	B0I0881	CP1	1
2,4-Dinitrotoluene	< 1.06	2.12		ug/L	0.267	1.06	09/30/20 13:01	B0I0881	CP1	1
2,6-Dinitrotoluene	< 0.531	1.06		ug/L	0.244	0.531	09/30/20 13:01	B0I0881	CP1	1
2-Chloronaphthalene	< 0.318	0.637		ug/L	0.112	0.318	09/30/20 13:01	B0I0881	CP1	1
2-Chlorophenol	< 0.531	1.06		ug/L	0.163	0.531	09/30/20 13:01	B0I0881	CP1	1
2-Methylnaphthalene	< 2.12	4.25		ug/L	0.679	2.12	09/30/20 13:01	B0I0881	CP1	1
2-Methylphenol	< 0.531	1.06		ug/L	0.194	0.531	09/30/20 13:01	B0I0881	CP1	1
2-Nitroaniline	< 10.6	31.8		ug/L	2.72	10.6	09/30/20 13:01	B0I0881	CP1	1
2-Nitrophenol	< 0.531	1.06		ug/L	0.222	0.531	09/30/20 13:01	B0I0881	CP1	1
3,3'-Dichlorobenzidine	< 10.6	21.2		ug/L	3.36	10.6	09/30/20 13:01	B0I0881	CP1	1
3 & 4-Methylphenol	< 0.531	1.06		ug/L	0.190	0.531	09/30/20 13:01	B0I0881	CP1	1
3-Nitroaniline	< 1.06	2.12		ug/L	0.382	1.06	09/30/20 13:01	B0I0881	CP1	1
4,6-Dinitro-2-methylphenol	< 5.31	15.9		ug/L	2.60	5.31	09/30/20 13:01	B0I0881	CP1	1
4-Bromophenyl-phenylether	< 0.531	1.06		ug/L	0.170	0.531	09/30/20 13:01	B0I0881	CP1	1
4-Chloro-3-methylphenol	< 0.212	0.531		ug/L	0.0757	0.212	09/30/20 13:01	B0I0881	CP1	1
4-Chloroaniline	< 0.318	0.637		ug/L	0.113	0.318	09/30/20 13:01	B0I0881	CP1	1
4-Chlorophenyl-phenylether	< 0.531	1.06		ug/L	0.155	0.531	09/30/20 13:01	B0I0881	CP1	1
4-Nitroaniline	< 10.6	31.8		ug/L	4.01	10.6	09/30/20 13:01	B0I0881	CP1	1
4-Nitrophenol	< 5.31	15.9		ug/L	1.53	5.31	09/30/20 13:01	B0I0881	CP1	1
Acenaphthene	< 0.318	0.637		ug/L	0.110	0.318	09/30/20 13:01	B0I0881	CP1	1
Acenaphthylene	< 0.318	0.637		ug/L	0.138	0.318	09/30/20 13:01	B0I0881	CP1	1
Anthracene	< 0.318	0.637		ug/L	0.118	0.318	09/30/20 13:01	B0I0881	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.318	1.06		ug/L	0.0814	0.318	09/30/20 13:01	B0I0881	CP1	1
Benzidine	< 42.5	84.9		ug/L	17.6	42.5	09/30/20 13:01	B0I0881	CP1	1
Benzo(a)anthracene	< 0.318	0.637		ug/L	0.131	0.318	09/30/20 13:01	B0I0881	CP1	1
Benzo(a)pyrene	< 1.06	2.12		ug/L	0.399	1.06	09/30/20 13:01	B0I0881	CP1	1
Benzo(b)fluoranthene	< 1.06	2.12		ug/L	0.395	1.06	09/30/20 13:01	B0I0881	CP1	1
Benzo(g,h,i)perylene	< 1.06	2.12		ug/L	0.424	1.06	09/30/20 13:01	B0I0881	CP1	1
Benzo(k)fluoranthene	< 0.531	2.12		ug/L	0.264	0.531	09/30/20 13:01	B0I0881	CP1	1
Benzoic acid	< 25.5	42.5		ug/L	12.5	25.5	09/30/20 13:01	B0I0881	CP1	1
Benzyl alcohol	< 2.12	4.25		ug/L	0.584	2.12	09/30/20 13:01	B0I0881	CP1	1
Bis(2-chloroethoxy)methane	< 0.531	1.06		ug/L	0.144	0.531	09/30/20 13:01	B0I0881	CP1	1
Bis(2-chloroethyl)ether	< 0.531	1.06		ug/L	0.187	0.531	09/30/20 13:01	B0I0881	CP1	1
Bis(2-chloroisopropyl)ether	< 0.531	1.06		ug/L	0.136	0.531	09/30/20 13:01	B0I0881	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.6	21.2		ug/L	3.85	10.6	09/30/20 13:01	B0I0881	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec COnsultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-14
Report Date: 10/07/2020
Collection Date: 09/23/2020 14:35
Matrix: Groundwater
Lab ID: 20I0861-31 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS (Continued)										
Method: SW8270D / SW3510 (Continued)										
Butyl benzyl phthalate	< 0.531	1.06		ug/L	0.248	0.531	09/30/20 13:01	B0I0881	CP1	1
Carbazole	< 0.531	1.06		ug/L	0.183	0.531	09/30/20 13:01	B0I0881	CP1	1
Chrysene	< 0.318	0.637		ug/L	0.134	0.318	09/30/20 13:01	B0I0881	CP1	1
Dibenzo(a,h)anthracene	< 1.06	2.12		ug/L	0.469	1.06	09/30/20 13:01	B0I0881	CP1	1
Dibenzofuran	< 0.318	0.637		ug/L	0.130	0.318	09/30/20 13:01	B0I0881	CP1	1
Diethyl phthalate	< 3.18	6.37		ug/L	1.24	3.18	09/30/20 13:01	B0I0881	CP1	1
Dimethyl phthalate	< 0.318	0.637		ug/L	0.0937	0.318	09/30/20 13:01	B0I0881	CP1	1
Di-n-butyl phthalate	< 6.37	10.6		ug/L	3.06	6.37	09/30/20 13:01	B0I0881	CP1	1
Di-n-octyl phthalate	< 5.31	10.6		ug/L	2.00	5.31	09/30/20 13:01	B0I0881	CP1	1
Fluoranthene	< 0.531	1.06		ug/L	0.208	0.531	09/30/20 13:01	B0I0881	CP1	1
Fluorene	< 0.318	0.637		ug/L	0.131	0.318	09/30/20 13:01	B0I0881	CP1	1
Hexachlorobenzene	< 0.531	1.06		ug/L	0.175	0.531	09/30/20 13:01	B0I0881	CP1	1
Hexachlorobutadiene	< 0.531	1.06		ug/L	0.265	0.531	09/30/20 13:01	B0I0881	CP1	1
Hexachlorocyclopentadiene	< 5.31	15.9		ug/L	2.32	5.31	09/30/20 13:01	B0I0881	CP1	1
Hexachloroethane	< 0.531	1.06		ug/L	0.234	0.531	09/30/20 13:01	B0I0881	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.06	2.12		ug/L	0.533	1.06	09/30/20 13:01	B0I0881	CP1	1
Isophorone	< 0.318	0.637		ug/L	0.117	0.318	09/30/20 13:01	B0I0881	CP1	1
Naphthalene	< 2.12	4.25		ug/L	0.866	2.12	09/30/20 13:01	B0I0881	CP1	1
Nitrobenzene	< 0.318	0.637		ug/L	0.148	0.318	09/30/20 13:01	B0I0881	CP1	1
N-Nitrosodimethylamine	< 0.531	1.06		ug/L	0.165	0.531	09/30/20 13:01	B0I0881	CP1	1
N-Nitrosodi-n-propylamine	< 1.06	2.12		ug/L	0.338	1.06	09/30/20 13:01	B0I0881	CP1	1
N-Nitrosodiphenylamine	< 0.318	0.637		ug/L	0.110	0.318	09/30/20 13:01	B0I0881	CP1	1
Pentachlorophenol	< 10.6	31.8		ug/L	2.68	10.6	09/30/20 13:01	B0I0881	CP1	1
Phenanthrene	< 0.531	1.06		ug/L	0.219	0.531	09/30/20 13:01	B0I0881	CP1	1
Phenol	< 0.531	1.06		ug/L	0.181	0.531	09/30/20 13:01	B0I0881	CP1	1
Pyrene	< 0.531	1.06		ug/L	0.221	0.531	09/30/20 13:01	B0I0881	CP1	1
Surrogate: 2-Fluorophenol							09/30/20 13:01	B0I0881	CP1	1
Surrogate: Phenol-d5							09/30/20 13:01	B0I0881	CP1	1
Surrogate: Nitrobenzene-d5							09/30/20 13:01	B0I0881	CP1	1
Surrogate: 2-Fluorobiphenyl							09/30/20 13:01	B0I0881	CP1	1
Surrogate: 2,4,6-Tribromophenol							09/30/20 13:01	B0I0881	CP1	1
Surrogate: 4-Terphenyl-d14							09/30/20 13:01	B0I0881	CP1	1

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500		ug/L	0.0625	0.200	10/02/20 14:55	B0J0077	CP1	1
Surrogate: Toluene-d8							10/02/20 14:55	B0J0077	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: MW-14
Report Date: 10/07/2020
Collection Date: 09/23/2020 14:35
Matrix: Groundwater
Lab ID: 20I0861-32

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit										
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.530	1.06			ug/L	0.225	0.530	09/30/20 19:40	B0I0905	CS2	1	
Aroclor 1221	< 0.530	0.636			ug/L	0.203	0.530	09/30/20 19:40	B0I0905	CS2	1	
Aroclor 1232	< 0.530	0.636			ug/L	0.172	0.530	09/30/20 19:40	B0I0905	CS2	1	
Aroclor 1242	< 1.06	2.12			ug/L	0.371	1.06	09/30/20 19:40	B0I0905	CS2	1	
Aroclor 1248	< 0.530	0.636			ug/L	0.170	0.530	09/30/20 19:40	B0I0905	CS2	1	
Aroclor 1254	< 0.530	0.636			ug/L	0.186	0.530	09/30/20 19:40	B0I0905	CS2	1	
Aroclor 1260	< 0.318	0.424			ug/L	0.119	0.318	09/30/20 19:40	B0I0905	CS2	1	
Total PCB	< 0.530	0.636			ug/L	0.203	0.530	09/30/20 19:40	B0I0905	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 82%		Limits: 10-139		09/30/20 19:40	B0I0905	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 47%		Limits: 26-107		09/30/20 19:40	B0I0905	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: Trip Blank
Report Date: 10/07/2020
Collection Date: 09/23/2020 00:00
Matrix: Water
Lab ID: 20I0861-33

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.706	2.00	09/29/20 15:24	B0I0944	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00		ug/L	0.719	2.00	09/29/20 15:24	B0I0944	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.713	2.00	09/29/20 15:24	B0I0944	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00		ug/L	0.198	0.600	09/29/20 15:24	B0I0944	WZZ	1
1,1-Dichloroethane	< 2.00	4.00		ug/L	0.691	2.00	09/29/20 15:24	B0I0944	WZZ	1
1,1-Dichloroethene	< 4.00	8.00		ug/L	1.10	4.00	09/29/20 15:24	B0I0944	WZZ	1
1,1-Dichloropropene	< 1.00	2.00		ug/L	0.462	1.00	09/29/20 15:24	B0I0944	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00		ug/L	0.199	0.600	09/29/20 15:24	B0I0944	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00		ug/L	0.598	2.00	09/29/20 15:24	B0I0944	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00		ug/L	0.753	2.00	09/29/20 15:24	B0I0944	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00		ug/L	1.22	4.00	09/29/20 15:24	B0I0944	WZZ	1
1,2-Dibromoethane	< 1.00	2.00		ug/L	0.420	1.00	09/29/20 15:24	B0I0944	WZZ	1
1,2-Dichloroethane	< 2.00	4.00		ug/L	0.731	2.00	09/29/20 15:24	B0I0944	WZZ	1
1,2-Dichloropropane	< 2.00	4.00		ug/L	0.557	2.00	09/29/20 15:24	B0I0944	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00		ug/L	0.351	1.00	09/29/20 15:24	B0I0944	WZZ	1
1,3-Dichloropropane	< 1.00	2.00		ug/L	0.345	1.00	09/29/20 15:24	B0I0944	WZZ	1
2,2-Dichloropropane	< 4.00	8.00		ug/L	1.03	4.00	09/29/20 15:24	B0I0944	WZZ	1
2-Butanone	< 14.0	28.0		ug/L	4.79	14.0	09/29/20 15:24	B0I0944	WZZ	1
2-Chlorotoluene	< 1.00	2.00		ug/L	0.384	1.00	09/29/20 15:24	B0I0944	WZZ	1
2-Hexanone	< 14.0	28.0		ug/L	4.74	14.0	09/29/20 15:24	B0I0944	WZZ	1
4-Isopropyltoluene	< 2.00	4.00		ug/L	0.930	2.00	09/29/20 15:24	B0I0944	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0		ug/L	4.40	14.0	09/29/20 15:24	B0I0944	WZZ	1
Acetone	< 28.0	70.0	Q, S1	ug/L	9.21	28.0	09/29/20 15:24	B0I0944	WZZ	1
Benzene	< 1.00	2.00		ug/L	0.362	1.00	09/29/20 15:24	B0I0944	WZZ	1
Bromobenzene	< 1.00	2.00		ug/L	0.354	1.00	09/29/20 15:24	B0I0944	WZZ	1
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	09/29/20 15:24	B0I0944	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	09/29/20 15:24	B0I0944	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	09/29/20 15:24	B0I0944	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	09/29/20 15:24	B0I0944	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	09/29/20 15:24	B0I0944	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	09/29/20 15:24	B0I0944	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	09/29/20 15:24	B0I0944	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	09/29/20 15:24	B0I0944	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	09/29/20 15:24	B0I0944	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	09/29/20 15:24	B0I0944	WZZ	1
cis-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.652	2.00	09/29/20 15:24	B0I0944	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	09/29/20 15:24	B0I0944	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	09/29/20 15:24	B0I0944	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	09/29/20 15:24	B0I0944	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	09/29/20 15:24	B0I0944	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	09/29/20 15:24	B0I0944	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	09/29/20 15:24	B0I0944	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	09/29/20 15:24	B0I0944	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: Trip Blank
Report Date: 10/07/2020
Collection Date: 09/23/2020 00:00
Matrix: Water
Lab ID: 20I0861-33 (Continued)

Analyses	Result	EMT		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Reporting Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	09/29/20 15:24	B0I0944	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	09/29/20 15:24	B0I0944	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	09/29/20 15:24	B0I0944	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	09/29/20 15:24	B0I0944	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	09/29/20 15:24	B0I0944	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	09/29/20 15:24	B0I0944	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	09/29/20 15:24	B0I0944	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 15:24	B0I0944	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	09/29/20 15:24	B0I0944	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	09/29/20 15:24	B0I0944	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	09/29/20 15:24	B0I0944	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	09/29/20 15:24	B0I0944	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 15:24	B0I0944	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	09/29/20 15:24	B0I0944	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	09/29/20 15:24	B0I0944	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	09/29/20 15:24	B0I0944	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	09/29/20 15:24	B0I0944	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 103%</i>	<i>Limits: 84-137</i>		<i>09/29/20 15:24</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 104%</i>	<i>Limits: 74-140</i>		<i>09/29/20 15:24</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 97%</i>	<i>Limits: 90-105</i>		<i>09/29/20 15:24</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 103%</i>	<i>Limits: 74-109</i>		<i>09/29/20 15:24</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 102%</i>	<i>Limits: 86-128</i>		<i>09/29/20 15:24</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 104%</i>	<i>Limits: 90-128</i>		<i>09/29/20 15:24</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: Equipment Blank
Report Date: 10/07/2020
Collection Date: 09/25/2020 00:00
Matrix: Groundwater
Lab ID: 20I0861-34

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit									
Volatile Organic Compounds by GC/MS											
Method: SW8260B / SW5030											
1,1,1,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.706	2.00	09/29/20 15:50	B0I0944	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00			ug/L	0.719	2.00	09/29/20 15:50	B0I0944	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.713	2.00	09/29/20 15:50	B0I0944	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00			ug/L	0.198	0.600	09/29/20 15:50	B0I0944	WZZ	1
1,1-Dichloroethane	< 2.00	4.00			ug/L	0.691	2.00	09/29/20 15:50	B0I0944	WZZ	1
1,1-Dichloroethene	< 4.00	8.00			ug/L	1.10	4.00	09/29/20 15:50	B0I0944	WZZ	1
1,1-Dichloropropene	< 1.00	2.00			ug/L	0.462	1.00	09/29/20 15:50	B0I0944	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00			ug/L	0.199	0.600	09/29/20 15:50	B0I0944	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00			ug/L	0.598	2.00	09/29/20 15:50	B0I0944	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00			ug/L	0.753	2.00	09/29/20 15:50	B0I0944	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00			ug/L	1.22	4.00	09/29/20 15:50	B0I0944	WZZ	1
1,2-Dibromoethane	< 1.00	2.00			ug/L	0.420	1.00	09/29/20 15:50	B0I0944	WZZ	1
1,2-Dichloroethane	< 2.00	4.00			ug/L	0.731	2.00	09/29/20 15:50	B0I0944	WZZ	1
1,2-Dichloropropane	< 2.00	4.00			ug/L	0.557	2.00	09/29/20 15:50	B0I0944	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00			ug/L	0.351	1.00	09/29/20 15:50	B0I0944	WZZ	1
1,3-Dichloropropane	< 1.00	2.00			ug/L	0.345	1.00	09/29/20 15:50	B0I0944	WZZ	1
2,2-Dichloropropane	< 4.00	8.00			ug/L	1.03	4.00	09/29/20 15:50	B0I0944	WZZ	1
2-Butanone	< 14.0	28.0			ug/L	4.79	14.0	09/29/20 15:50	B0I0944	WZZ	1
2-Chlorotoluene	< 1.00	2.00			ug/L	0.384	1.00	09/29/20 15:50	B0I0944	WZZ	1
2-Hexanone	< 14.0	28.0			ug/L	4.74	14.0	09/29/20 15:50	B0I0944	WZZ	1
4-Isopropyltoluene	< 2.00	4.00			ug/L	0.930	2.00	09/29/20 15:50	B0I0944	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0			ug/L	4.40	14.0	09/29/20 15:50	B0I0944	WZZ	1
Acetone	< 28.0	70.0	Q, S1		ug/L	9.21	28.0	09/29/20 15:50	B0I0944	WZZ	1
Benzene	< 1.00	2.00			ug/L	0.362	1.00	09/29/20 15:50	B0I0944	WZZ	1
Bromobenzene	< 1.00	2.00			ug/L	0.354	1.00	09/29/20 15:50	B0I0944	WZZ	1
Bromochloromethane	< 2.00	4.00			ug/L	0.861	2.00	09/29/20 15:50	B0I0944	WZZ	1
Bromodichloromethane	< 1.00	2.00			ug/L	0.458	1.00	09/29/20 15:50	B0I0944	WZZ	1
Bromoform	< 2.00	4.00			ug/L	0.570	2.00	09/29/20 15:50	B0I0944	WZZ	1
Bromomethane	< 4.00	8.00			ug/L	1.61	4.00	09/29/20 15:50	B0I0944	WZZ	1
Carbon disulfide	< 2.00	4.00			ug/L	0.739	2.00	09/29/20 15:50	B0I0944	WZZ	1
Carbon tetrachloride	< 2.00	4.00			ug/L	0.710	2.00	09/29/20 15:50	B0I0944	WZZ	1
Chlorobenzene	< 0.600	2.00			ug/L	0.170	0.600	09/29/20 15:50	B0I0944	WZZ	1
Chloroethane	< 2.00	4.00			ug/L	0.621	2.00	09/29/20 15:50	B0I0944	WZZ	1
Chloroform	< 4.00	8.00			ug/L	1.06	4.00	09/29/20 15:50	B0I0944	WZZ	1
Chloromethane	< 4.00	8.00			ug/L	1.30	4.00	09/29/20 15:50	B0I0944	WZZ	1
cis-1,2-Dichloroethene	< 2.00	4.00			ug/L	0.652	2.00	09/29/20 15:50	B0I0944	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00			ug/L	0.408	2.00	09/29/20 15:50	B0I0944	WZZ	1
Cyclohexane	< 1.00	2.00			ug/L	0.325	1.00	09/29/20 15:50	B0I0944	WZZ	1
Dibromochloromethane	< 2.00	4.00			ug/L	0.632	2.00	09/29/20 15:50	B0I0944	WZZ	1
Dibromomethane	< 1.00	2.00			ug/L	0.390	1.00	09/29/20 15:50	B0I0944	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00			ug/L	0.186	0.600	09/29/20 15:50	B0I0944	WZZ	1
Ethylbenzene	< 1.00	2.00			ug/L	0.268	1.00	09/29/20 15:50	B0I0944	WZZ	1
Isopropylbenzene	< 1.00	2.00			ug/L	0.312	1.00	09/29/20 15:50	B0I0944	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20I0861

Client Sample ID: Equipment Blank
Report Date: 10/07/2020
Collection Date: 09/25/2020 00:00
Matrix: Groundwater
Lab ID: 20I0861-34 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	09/29/20 15:50	B0I0944	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	09/29/20 15:50	B0I0944	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	09/29/20 15:50	B0I0944	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	09/29/20 15:50	B0I0944	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	09/29/20 15:50	B0I0944	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	09/29/20 15:50	B0I0944	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	09/29/20 15:50	B0I0944	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 15:50	B0I0944	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	09/29/20 15:50	B0I0944	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	09/29/20 15:50	B0I0944	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	09/29/20 15:50	B0I0944	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	09/29/20 15:50	B0I0944	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	09/29/20 15:50	B0I0944	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	09/29/20 15:50	B0I0944	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	09/29/20 15:50	B0I0944	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	09/29/20 15:50	B0I0944	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	09/29/20 15:50	B0I0944	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 103%</i>	<i>Limits: 84-137</i>		<i>09/29/20 15:50</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 105%</i>	<i>Limits: 74-140</i>		<i>09/29/20 15:50</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 103%</i>	<i>Limits: 90-105</i>		<i>09/29/20 15:50</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 99%</i>	<i>Limits: 74-109</i>		<i>09/29/20 15:50</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 98%</i>	<i>Limits: 86-128</i>		<i>09/29/20 15:50</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 97%</i>	<i>Limits: 90-128</i>		<i>09/29/20 15:50</i>	<i>B0I0944</i>	<i>WZZ</i>	<i>1</i>

Dates Report

Client: Geosyntec Consultants

Report Date: 10/07/2020

Project: Milw Die Cast
CHW8271N

Work Order: 20I0861

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
20I0861-01	MW-1	09/25/20	Groundwater	Semivolatile Organic Compounds by GC/MS		09/29/20 11:11	09/30/20 08:08	B0I0881	S0I0403
				Polychlorinated Biphenyls by GC/ECD		09/30/20 15:27	10/01/20 16:22	B0I0902	S0J0020
				Volatile Organic Compounds by GC/MS		09/29/20 10:07	09/29/20 16:15	B0I0944	S0J0016
				Volatile Organic Compounds by GC/MS-SIM		10/02/20 07:00	10/02/20 17:45	B0J0077	S0J0027
				Volatile Organic Compounds by GC/MS		10/01/20 10:54	10/01/20 14:20	B0J0079	S0J0038
				Carbon, Organic Total (TOC)		10/06/20 16:15	10/06/20 18:13	B0J0227	S0J0087
20I0861-02				Polychlorinated Biphenyls by GC/ECD		09/30/20 15:27	10/01/20 16:22	B0I0905	S0J0020
20I0861-03	PZ-1	09/25/20		Semivolatile Organic Compounds by GC/MS		09/29/20 11:11	09/30/20 07:05	B0I0881	S0I0403
				Polychlorinated Biphenyls by GC/ECD		09/30/20 10:33	09/30/20 17:24	B0I0902	S0J0004
				Volatile Organic Compounds by GC/MS		09/29/20 10:07	09/29/20 16:41	B0I0944	S0J0016
				Volatile Organic Compounds by GC/MS-SIM		10/02/20 07:00	10/02/20 12:05	B0J0077	S0J0027
				Volatile Organic Compounds by GC/MS		10/01/20 10:54	10/01/20 13:51	B0J0079	S0J0038
				Carbon, Organic Total (TOC)		10/06/20 16:15	10/06/20 18:31	B0J0227	S0J0087
20I0861-04				Polychlorinated Biphenyls by GC/ECD		09/30/20 10:33	09/30/20 17:41	B0I0905	S0J0004
20I0861-05	MW-2	09/24/20		Semivolatile Organic Compounds by GC/MS		09/29/20 11:11	09/30/20 08:29	B0I0881	S0I0403
				Polychlorinated Biphenyls by GC/ECD		09/30/20 10:33	09/30/20 17:41	B0I0902	S0J0004
				Volatile Organic Compounds by GC/MS		09/29/20 10:07	09/29/20 17:07	B0I0944	S0J0016
				Volatile Organic Compounds by GC/MS-SIM		10/02/20 07:00	10/02/20 15:19	B0J0077	S0J0027
				Carbon, Organic Total (TOC)		10/06/20 16:15	10/06/20 19:34	B0J0227	S0J0087
				Polychlorinated Biphenyls by GC/ECD		09/30/20 10:33	09/30/20 17:58	B0I0905	S0J0004
20I0861-07	PZ-2	09/25/20		Semivolatile Organic Compounds by GC/MS		09/29/20 11:11	09/30/20 08:50	B0I0881	S0I0403
				Polychlorinated Biphenyls by GC/ECD		09/30/20 15:27	10/01/20 16:39	B0I0902	S0J0020
				Volatile Organic Compounds by GC/MS		09/29/20 10:07	09/29/20 17:32	B0I0944	S0J0016
				Volatile Organic Compounds by GC/MS-SIM		10/02/20 07:00	10/02/20 18:09	B0J0077	S0J0027
				Carbon, Organic Total (TOC)		10/06/20 16:15	10/06/20 19:55	B0J0227	S0J0087
				Polychlorinated Biphenyls by GC/ECD		09/30/20 15:27	10/01/20 16:39	B0I0905	S0J0020
20I0861-09	MW-3	09/23/20		Semivolatile Organic Compounds by GC/MS		09/29/20 11:11	09/30/20 09:11	B0I0881	S0I0403
				Polychlorinated Biphenyls by GC/ECD		09/30/20 10:33	09/30/20 17:58	B0I0902	S0J0004
				Volatile Organic Compounds by GC/MS		09/29/20 10:07	09/29/20 17:58	B0I0944	S0J0016
				Volatile Organic Compounds by GC/MS-SIM		10/02/20 07:00	10/02/20 12:53	B0J0077	S0J0027
				Carbon, Organic Total (TOC)		10/06/20 16:15	10/06/20 20:14	B0J0227	S0J0087
				Polychlorinated Biphenyls by GC/ECD		09/30/20 10:33	09/30/20 18:15	B0I0905	S0J0004
20I0861-11	MW-3 DUP			Semivolatile Organic Compounds by GC/MS		09/29/20 11:11	09/30/20 09:31	B0I0881	S0I0403

Dates Report

(Continued)

Client: Geosyntec Consultants**Report Date:** 10/07/2020**Project:** Milw Die Cast
CHW8271N**Work Order:** 20I0861

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
20I0861-11	MW-3 DUP	09/23/20	Groundwater	Polychlorinated Biphenyls by GC/ECD		09/30/20 10:33	09/30/20 18:15	B0I0902	SOJ0004
				Volatile Organic Compounds by GC/MS		09/29/20 10:07	09/29/20 18:23	B0I0944	SOJ0016
				Volatile Organic Compounds by GC/MS-SIM		10/02/20 07:00	10/02/20 13:17	B0J0077	SOJ0027
				Carbon, Organic Total (TOC)		10/06/20 16:15	10/06/20 20:36	B0J0227	SOJ0087
20I0861-12				Polychlorinated Biphenyls by GC/ECD		09/30/20 10:33	09/30/20 18:32	B0I0905	SOJ0004
20I0861-13	MW-4	09/24/20		Semivolatile Organic Compounds by GC/MS		09/29/20 11:11	09/30/20 09:52	B0I0881	SOI0403
				Polychlorinated Biphenyls by GC/ECD		09/30/20 15:27	10/01/20 16:56	B0I0902	SOJ0020
				Volatile Organic Compounds by GC/MS		09/29/20 10:07	09/29/20 18:49	B0I0944	SOJ0016
				Volatile Organic Compounds by GC/MS-SIM		10/02/20 07:00	10/02/20 15:43	B0J0077	SOJ0027
				Carbon, Organic Total (TOC)		10/06/20 16:15	10/06/20 20:55	B0J0227	SOJ0087
20I0861-14				Polychlorinated Biphenyls by GC/ECD		09/30/20 15:27	10/01/20 16:56	B0I0905	SOJ0020
20I0861-15	MW-6	09/25/20		Semivolatile Organic Compounds by GC/MS		09/29/20 11:11	09/30/20 10:13	B0I0881	SOI0403
				Polychlorinated Biphenyls by GC/ECD		09/30/20 15:27	10/01/20 17:13	B0I0902	SOJ0020
				Volatile Organic Compounds by GC/MS		09/29/20 10:07	09/29/20 19:14	B0I0944	SOJ0016
				Volatile Organic Compounds by GC/MS-SIM		10/02/20 07:00	10/02/20 12:29	B0J0077	SOJ0027
				Carbon, Organic Total (TOC)		10/06/20 16:15	10/06/20 23:39	B0J0227	SOJ0087
20I0861-16				Polychlorinated Biphenyls by GC/ECD		09/30/20 15:27	10/01/20 17:13	B0I0905	SOJ0020
20I0861-17	MW-7	09/24/20		Semivolatile Organic Compounds by GC/MS		09/29/20 11:11	09/30/20 10:34	B0I0881	SOI0403
				Polychlorinated Biphenyls by GC/ECD		09/30/20 15:27	10/01/20 17:30	B0I0902	SOJ0020
				Volatile Organic Compounds by GC/MS		09/29/20 10:07	09/29/20 19:40	B0I0944	SOJ0016
				Volatile Organic Compounds by GC/MS-SIM		10/02/20 07:00	10/02/20 16:08	B0J0077	SOJ0027
				Carbon, Organic Total (TOC)		10/06/20 16:15	10/07/20 00:01	B0J0227	SOJ0087
20I0861-18				Polychlorinated Biphenyls by GC/ECD		09/30/20 15:27	10/01/20 17:30	B0I0905	SOJ0020
20I0861-19	MW-8	09/24/20		Semivolatile Organic Compounds by GC/MS		09/29/20 11:11	09/30/20 10:55	B0I0881	SOI0403
				Polychlorinated Biphenyls by GC/ECD		09/30/20 15:27	10/01/20 17:47	B0I0902	SOJ0020
				Volatile Organic Compounds by GC/MS		09/29/20 10:07	09/29/20 20:06	B0I0944	SOJ0016
				Volatile Organic Compounds by GC/MS-SIM		10/02/20 07:00	10/02/20 16:32	B0J0077	SOJ0027
				Carbon, Organic Total (TOC)		10/06/20 16:15	10/07/20 00:23	B0J0227	SOJ0087
20I0861-20				Polychlorinated Biphenyls by GC/ECD		09/30/20 15:27	10/01/20 17:47	B0I0905	SOJ0020
20I0861-21	MW-9	09/24/20		Semivolatile Organic Compounds by GC/MS		09/29/20 11:11	09/30/20 11:16	B0I0881	SOI0403
				Polychlorinated Biphenyls by GC/ECD		09/30/20 15:27	10/01/20 18:04	B0I0902	SOJ0020
				Volatile Organic Compounds by GC/MS		09/29/20 10:07	09/29/20 20:31	B0I0944	SOJ0016
				Volatile Organic Compounds by GC/MS-SIM		10/02/20 07:00	10/02/20 16:56	B0J0077	SOJ0027

Dates Report

(Continued)

Client: Geosyntec Consultants**Report Date:** 10/07/2020**Project:** Milw Die Cast
CHW8271N**Work Order:** 20I0861

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
20I0861-21	MW-9	09/24/20	Groundwater	Carbon, Organic Total (TOC)		10/06/20 16:15	10/07/20 00:40	B0J0227	SOJ0087
20I0861-22				Polychlorinated Biphenyls by GC/ECD		09/30/20 15:27	10/01/20 18:04	B0I0905	SOJ0020
20I0861-23	PZ-10	09/25/20		Semivolatile Organic Compounds by GC/MS		09/29/20 11:11	09/30/20 11:37	B0I0881	SOI0403
				Polychlorinated Biphenyls by GC/ECD		09/30/20 15:27	10/01/20 18:21	B0I0902	SOJ0020
				Volatile Organic Compounds by GC/MS		09/29/20 10:07	09/29/20 20:57	B0I0944	SOJ0016
				Volatile Organic Compounds by GC/MS-SIM		10/02/20 07:00	10/02/20 17:21	B0J0077	SOJ0027
				Carbon, Organic Total (TOC)		10/06/20 16:15	10/07/20 01:12	B0J0227	SOJ0087
20I0861-24				Polychlorinated Biphenyls by GC/ECD		09/30/20 15:27	10/01/20 18:21	B0I0905	SOJ0020
20I0861-25	MW-12	09/23/20		Semivolatile Organic Compounds by GC/MS		09/29/20 11:11	09/30/20 11:58	B0I0881	SOI0403
				Polychlorinated Biphenyls by GC/ECD		09/30/20 10:33	09/30/20 18:32	B0I0902	SOJ0004
				Volatile Organic Compounds by GC/MS		09/29/20 10:07	09/29/20 21:22	B0I0944	SOJ0016
				Volatile Organic Compounds by GC/MS-SIM		10/02/20 07:00	10/02/20 18:34	B0J0077	SOJ0027
				Carbon, Organic Total (TOC)		10/06/20 16:15	10/07/20 01:32	B0J0227	SOJ0087
20I0861-26				Polychlorinated Biphenyls by GC/ECD		09/30/20 10:33	09/30/20 18:49	B0I0905	SOJ0004
20I0861-27	MW-12 DUP			Semivolatile Organic Compounds by GC/MS		09/29/20 11:11	09/30/20 12:19	B0I0881	SOI0403
				Polychlorinated Biphenyls by GC/ECD		09/30/20 10:33	09/30/20 18:49	B0I0902	SOJ0004
				Volatile Organic Compounds by GC/MS		09/29/20 10:07	09/29/20 21:48	B0I0944	SOJ0016
				Volatile Organic Compounds by GC/MS-SIM		10/02/20 07:00	10/02/20 14:06	B0J0077	SOJ0027
				Carbon, Organic Total (TOC)		10/06/20 16:15	10/07/20 01:52	B0J0227	SOJ0087
20I0861-28				Polychlorinated Biphenyls by GC/ECD		09/30/20 10:33	09/30/20 19:06	B0I0905	SOJ0004
20I0861-29	MW-13	09/23/20		Semivolatile Organic Compounds by GC/MS		09/29/20 11:11	09/30/20 12:40	B0I0881	SOI0403
				Polychlorinated Biphenyls by GC/ECD		09/30/20 10:33	09/30/20 19:06	B0I0902	SOJ0004
				Volatile Organic Compounds by GC/MS		09/29/20 10:07	09/29/20 22:13	B0I0944	SOJ0016
				Volatile Organic Compounds by GC/MS-SIM		10/02/20 07:00	10/02/20 14:30	B0J0077	SOJ0027
				Carbon, Organic Total (TOC)		10/06/20 16:15	10/07/20 02:12	B0J0227	SOJ0087
20I0861-30				Polychlorinated Biphenyls by GC/ECD		09/30/20 10:33	09/30/20 19:23	B0I0905	SOJ0004
20I0861-31	MW-14	09/23/20		Semivolatile Organic Compounds by GC/MS		09/29/20 11:11	09/30/20 13:01	B0I0881	SOI0403
				Polychlorinated Biphenyls by GC/ECD		09/30/20 10:33	09/30/20 19:23	B0I0902	SOJ0004
				Volatile Organic Compounds by GC/MS		09/29/20 10:07	09/29/20 22:39	B0I0944	SOJ0016
				Volatile Organic Compounds by GC/MS-SIM		10/02/20 07:00	10/02/20 14:55	B0J0077	SOJ0027
				Carbon, Organic Total (TOC)		10/06/20 16:15	10/07/20 02:35	B0J0227	SOJ0087
20I0861-32				Polychlorinated Biphenyls by GC/ECD		09/30/20 10:33	09/30/20 19:40	B0I0905	SOJ0004
20I0861-33	Trip Blank	09/23/20	Water	Volatile Organic Compounds by GC/MS		09/29/20 10:07	09/29/20 15:24	B0I0944	SOJ0016

Dates Report

(Continued)

Client: Geosyntec Consultants

Report Date: 10/07/2020

Project: Milw Die Cast
CHW8271N

Work Order: 20I0861

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
20I0861-34	Equipment Blank	09/25/20	Groundwater	Volatile Organic Compounds by GC/MS		09/29/20 10:07	09/29/20 15:50	B0I0944	S0J0016

Quality Control

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 2010861

Report Date: 10/07/2020
Matrix: Water

Wet Chemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
Batch: B0J0227											
Blank (B0J0227-BLK1) <i>Prepared: 10/06/2020 16:15 Analyzed: 10/06/2020 16:29</i>											
Organic Carbon, Total	< 0.400	1.00	mg/L								1
Blank (B0J0227-BLK2) <i>Prepared: 10/06/2020 16:15 Analyzed: 10/06/2020 16:46</i>											
Organic Carbon, Total	< 0.400	1.00	mg/L								1
Blank (B0J0227-BLK4) <i>Prepared: 10/06/2020 16:15 Analyzed: 10/06/2020 21:51</i>											
Organic Carbon, Total	0.588	1.00	mg/L							J	1
Blank (B0J0227-BLK6) <i>Prepared: 10/06/2020 16:15 Analyzed: 10/07/2020 03:11</i>											
Organic Carbon, Total	0.652	1.00	mg/L							J	1
LCS (B0J0227-BS2) <i>Prepared: 10/06/2020 16:15 Analyzed: 10/06/2020 17:51</i>											
Organic Carbon, Total	26.3	1.00	mg/L	25.00		105	90-110				1
LCS (B0J0227-BS4) <i>Prepared: 10/06/2020 16:15 Analyzed: 10/06/2020 22:51</i>											
Organic Carbon, Total	26.7	1.00	mg/L	25.00		107	90-110				1
LCS (B0J0227-BS5) <i>Prepared: 10/06/2020 16:15 Analyzed: 10/07/2020 03:56</i>											
Organic Carbon, Total	10.6	1.00	mg/L	10.00		106	90-110				1
LCS (B0J0227-BS6) <i>Prepared: 10/06/2020 16:15 Analyzed: 10/07/2020 04:15</i>											
Organic Carbon, Total	26.6	1.00	mg/L	25.00		106	90-110				1
MRL Check (B0J0227-MRL1) <i>Prepared: 10/06/2020 16:15 Analyzed: 10/06/2020 17:05</i>											
Organic Carbon, Total	1.25	1.00	mg/L	1.000		125	50-150				1
MRL Check (B0J0227-MRL2) <i>Prepared: 10/06/2020 16:15 Analyzed: 10/06/2020 22:11</i>											
Organic Carbon, Total	1.58	1.00	mg/L	1.000		158	50-150			S	1
Matrix Spike (B0J0227-MS1) Source: 2010861-03RE1 <i>Prepared: 10/06/2020 16:15 Analyzed: 10/06/2020 18:54</i>											
Organic Carbon, Total	55.4	5.00	mg/L	50.00	3.92	103	80-120				5
Matrix Spike (B0J0227-MS2) Source: 2010861-13RE1 <i>Prepared: 10/06/2020 16:15 Analyzed: 10/06/2020 21:13</i>											
Organic Carbon, Total	60.0	5.00	mg/L	50.00	10.8	98.6	80-120				5
Matrix Spike Dup (B0J0227-MSD1) Source: 2010861-03RE1 <i>Prepared: 10/06/2020 16:15 Analyzed: 10/06/2020 19:14</i>											
Organic Carbon, Total	53.6	5.00	mg/L	50.00	3.92	99.3	80-120	3.49	15		5



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Quality Control

(Continued)

Client: Geosyntec Consultants

Report Date: 10/07/2020

Project: Milw Die Cast
CHW8271N

Matrix: Water

Work Order: 2010861

Wet Chemistry

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0J0227 (Continued)

Matrix Spike Dup (B0J0227-MSD2)

Source: 2010861-13RE1

Prepared: 10/06/2020 16:15 Analyzed: 10/06/2020 23:16

Organic Carbon, Total	61.4	5.00	mg/L	50.00	10.8	101	80-120	2.22	15		5
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Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 10/07/2020**Project:** Milw Die Cast
CHW8271N**Matrix:** Water**Work Order:** 2010861**Polychlorinated Biphenyls (PCBs) by GC/ECD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0I0902 - SW3510**Blank (B0I0902-BLK1)**

Prepared: 09/30/2020 10:33 Analyzed: 09/30/2020 16:36

Aroclor 1016	< 0.212	1.00	ug/L								1
Aroclor 1221	< 0.192	0.600	ug/L								1
Aroclor 1232	< 0.162	0.600	ug/L								1
Aroclor 1242	< 0.350	2.00	ug/L								1
Aroclor 1248	< 0.160	0.600	ug/L								1
Aroclor 1254	< 0.176	0.600	ug/L								1
Aroclor 1260	< 0.112	0.400	ug/L								1
Total PCB	< 0.192	0.600	ug/L								1
Surrogate: Decachlorobiphenyl	0.135		ug/L	0.2000		67	10-139				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.117		ug/L	0.2000		58	26-107				1

LCS (B0I0902-BS1)

Prepared: 09/30/2020 10:33 Analyzed: 09/30/2020 17:07

Aroclor 1016	0.327	1.00	ug/L	0.4000		82	50-106			J	1
Aroclor 1260	0.361	0.400	ug/L	0.4000		90	60-125			J	1
Surrogate: Decachlorobiphenyl	0.147		ug/L	0.2000		74	10-139				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.122		ug/L	0.2000		61	26-107				1

Matrix Spike (B0I0902-MS1)**Source: 2010861-03**

Prepared: 09/30/2020 10:33 Analyzed: 09/30/2020 19:40

Aroclor 1016	0.326	1.09	ug/L	0.4346	ND	75	16-142			J	1
Aroclor 1260	0.317	0.435	ug/L	0.4346	ND	73	53-112			J	1
Surrogate: Decachlorobiphenyl	0.123		ug/L	0.2173		57	10-139				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.121		ug/L	0.2173		56	26-107				1

Matrix Spike Dup (B0I0902-MSD1)**Source: 2010861-03**

Prepared: 09/30/2020 10:33 Analyzed: 09/30/2020 19:57

Aroclor 1016	0.308	1.03	ug/L	0.4116	ND	75	16-142	6	20	J	1
Aroclor 1260	0.311	0.412	ug/L	0.4116	ND	75	53-112	2	23	J	1
Surrogate: Decachlorobiphenyl	0.110		ug/L	0.2058		53	10-139				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.105		ug/L	0.2058		51	26-107				1

Batch: B0I0905 - SW3510**Blank (B0I0905-BLK1)**

Prepared: 09/30/2020 10:33 Analyzed: 09/30/2020 17:07

Aroclor 1016 [2C]	< 0.212	1.00	ug/L								1
Aroclor 1221 [2C]	< 0.192	0.600	ug/L								1
Aroclor 1232 [2C]	< 0.162	0.600	ug/L								1
Aroclor 1242 [2C]	< 0.350	2.00	ug/L								1
Aroclor 1248 [2C]	< 0.160	0.600	ug/L								1
Aroclor 1254 [2C]	< 0.176	0.600	ug/L								1
Aroclor 1260 [2C]	< 0.112	0.400	ug/L								1
Total PCB [2C]	< 0.192	0.600	ug/L								1
Surrogate: Decachlorobiphenyl [2C]	0.163		ug/L	0.2000		81	10-139				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 10/07/2020**Project:** Milw Die Cast
CHW8271N**Matrix:** Water**Work Order:** 2010861**Polychlorinated Biphenyls (PCBs) by GC/ECD**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B010905 - SW3510 (Continued)**Blank (B010905-BLK1) (Continued)**

Prepared: 09/30/2020 10:33 Analyzed: 09/30/2020 17:07

Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]	0.134		ug/L	0.2000		67	26-107				1
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LCS (B010905-BS1)

Prepared: 09/30/2020 10:33 Analyzed: 09/30/2020 17:24

Aroclor 1016 [2C]	0.339	1.00	ug/L	0.4000		85	50-106			J	1
Aroclor 1260 [2C]	0.352	0.400	ug/L	0.4000		88	60-125			J	1
Surrogate: Decachlorobiphenyl [2C]	0.152		ug/L	0.2000		76	10-139				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]	0.148		ug/L	0.2000		74	26-107				1

Matrix Spike (B010905-MS1)**Source: 2010861-04**

Prepared: 09/30/2020 10:33 Analyzed: 09/30/2020 19:57

Aroclor 1016 [2C]	0.779	1.04	ug/L	0.4140	ND	188	16-142			S, J	1
Aroclor 1260 [2C]	0.400	0.414	ug/L	0.4140	ND	97	53-112			J	1
Surrogate: Decachlorobiphenyl [2C]	0.171		ug/L	0.2070		83	10-139				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]	0.132		ug/L	0.2070		64	26-107				1

Matrix Spike Dup (B010905-MSD1)**Source: 2010861-04**

Prepared: 09/30/2020 10:33 Analyzed: 09/30/2020 20:14

Aroclor 1016 [2C]	0.395	1.05	ug/L	0.4200	ND	94	16-142	65	20	P, J	1
Aroclor 1260 [2C]	0.408	0.420	ug/L	0.4200	ND	97	53-112	2	30	J	1
Surrogate: Decachlorobiphenyl [2C]	0.190		ug/L	0.2100		90	10-139				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]	0.135		ug/L	0.2100		64	26-107				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 10/07/2020**Project:** Milw Die Cast
CHW8271N**Matrix:** Water**Work Order:** 2010861**Volatile Organic Compounds by GC/MS**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B010944 - SW5030**Blank (B010944-BLK1)**

Prepared: 09/29/2020 10:07 Analyzed: 09/29/2020 14:59

1,1,1,2-Tetrachloroethane	< 4.00	4.00	ug/L								1
1,1,1-Trichloroethane	< 4.00	4.00	ug/L								1
1,1,2,2-Tetrachloroethane	< 4.00	4.00	ug/L								1
1,1,2-Trichloroethane	< 2.00	2.00	ug/L								1
1,1-Dichloroethane	< 4.00	4.00	ug/L								1
1,1-Dichloroethene	< 8.00	8.00	ug/L								1
1,1-Dichloropropene	< 2.00	2.00	ug/L								1
1,2,3-Trichlorobenzene	< 2.00	2.00	ug/L								1
1,2,3-Trichloropropane	< 4.00	4.00	ug/L								1
1,2,4-Trimethylbenzene	< 4.00	4.00	ug/L								1
1,2-Dibromo-3-chloropropane	< 8.00	8.00	ug/L								1
1,2-Dibromoethane	< 2.00	2.00	ug/L								1
1,2-Dichloroethane	< 4.00	4.00	ug/L								1
1,2-Dichloropropane	< 4.00	4.00	ug/L								1
1,3,5-Trimethylbenzene	< 2.00	2.00	ug/L								1
1,3-Dichloropropane	< 2.00	2.00	ug/L								1
2,2-Dichloropropane	< 8.00	8.00	ug/L								1
2-Butanone	< 28.0	28.0	ug/L								1
2-Chlorotoluene	< 2.00	2.00	ug/L								1
2-Hexanone	< 28.0	28.0	ug/L								1
4-Isopropyltoluene	< 4.00	4.00	ug/L								1
4-Methyl-2-pentanone	< 28.0	28.0	ug/L								1
Acetone	< 70.0	70.0	ug/L								1
Benzene	< 2.00	2.00	ug/L								1
Bromobenzene	< 2.00	2.00	ug/L								1
Bromochloromethane	< 4.00	4.00	ug/L								1
Bromodichloromethane	< 2.00	2.00	ug/L								1
Bromoform	< 4.00	4.00	ug/L								1
Bromomethane	< 8.00	8.00	ug/L								1
Carbon disulfide	< 4.00	4.00	ug/L								1
Carbon tetrachloride	< 4.00	4.00	ug/L								1
Chlorobenzene	< 2.00	2.00	ug/L								1
Chloroethane	< 4.00	4.00	ug/L								1
Chloroform	< 8.00	8.00	ug/L								1
Chloromethane	< 8.00	8.00	ug/L								1
cis-1,2-Dichloroethene	< 4.00	4.00	ug/L								1
cis-1,3-Dichloropropene	< 4.00	4.00	ug/L								1
Cyclohexane	< 2.00	2.00	ug/L								1
Dibromochloromethane	< 4.00	4.00	ug/L								1
Dibromomethane	< 2.00	2.00	ug/L								1
Dichlorodifluoromethane	< 2.00	2.00	ug/L								1
Ethylbenzene	< 2.00	2.00	ug/L								1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 10/07/2020**Project:** Milw Die Cast
CHW8271N**Matrix:** Water**Work Order:** 2010861**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B010944 - SW5030 (Continued)**Blank (B010944-BLK1) (Continued)**

Prepared: 09/29/2020 10:07 Analyzed: 09/29/2020 14:59

Isopropylbenzene	< 2.00	2.00	ug/L								1
m,p-Xylene	< 8.00	8.00	ug/L								1
Methyl tert-butyl ether	< 4.00	4.00	ug/L								1
Methylene chloride	< 8.00	8.00	ug/L								1
n-Butylbenzene	< 2.00	2.00	ug/L								1
n-Propylbenzene	< 2.00	2.00	ug/L								1
o-Xylene	< 2.00	2.00	ug/L								1
sec-Butylbenzene	< 2.00	2.00	ug/L								1
Styrene	< 8.00	8.00	ug/L								1
tert-Butylbenzene	< 4.00	4.00	ug/L								1
Tetrachloroethene	< 4.00	4.00	ug/L								1
Toluene	< 4.00	4.00	ug/L								1
trans-1,2-Dichloroethene	< 4.00	4.00	ug/L								1
trans-1,3-Dichloropropene	< 8.00	8.00	ug/L								1
Trichloroethene	< 4.00	4.00	ug/L								1
Trichlorofluoromethane	< 4.00	4.00	ug/L								1
Vinyl chloride	< 4.00	4.00	ug/L								1
Xylenes, Total	< 12.0	12.0	ug/L								1
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Surrogate: Dibromofluoromethane	19.9		ug/L	20.00		100	84-137				1
Surrogate: 1,2-Dichloroethane-d4	20.5		ug/L	20.00		103	74-140				1
Surrogate: Fluorobenzene	20.4		ug/L	20.00		102	90-105				1
Surrogate: Toluene-d8	20.2		ug/L	20.00		101	74-109				1
Surrogate: 4-Bromofluorobenzene	10.1		ug/L	10.00		101	86-128				1
Surrogate: 1,2-Dichlorobenzene-d4	19.4		ug/L	20.00		97	90-128				1

LCS (B010944-BS1)

Prepared: 09/29/2020 10:07 Analyzed: 09/29/2020 12:41

1,1,1,2-Tetrachloroethane	50.2	4.00	ug/L	50.00		100	84-122				1
1,1,1-Trichloroethane	51.7	4.00	ug/L	50.00		103	74-131				1
1,1,2,2-Tetrachloroethane	53.1	4.00	ug/L	50.00		106	71-121				1
1,1,2-Trichloroethane	53.7	2.00	ug/L	50.00		107	83-139				1
1,1-Dichloroethane	51.5	4.00	ug/L	50.00		103	77-125				1
1,1-Dichloroethene	52.3	8.00	ug/L	50.00		105	71-131				1
1,1-Dichloropropene	51.6	2.00	ug/L	50.00		103	79-125				1
1,2,3-Trichlorobenzene	49.8	2.00	ug/L	50.00		100	69-129				1
1,2,3-Trichloropropane	49.2	4.00	ug/L	50.00		98	73-122				1
1,2,4-Trimethylbenzene	53.3	4.00	ug/L	50.00		107	76-124				1
1,2-Dibromo-3-chloropropane	44.2	8.00	ug/L	50.00		88	72-124				1
1,2-Dibromoethane	50.2	2.00	ug/L	50.00		100	77-121				1
1,2-Dichloroethane	52.2	4.00	ug/L	50.00		104	73-128				1
1,2-Dichloropropane	53.3	4.00	ug/L	50.00		107	78-122				1
1,3,5-Trimethylbenzene	52.9	2.00	ug/L	50.00		106	75-124				1
1,3-Dichloropropane	50.4	2.00	ug/L	50.00		101	82-130				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 10/07/2020**Project:** Milw Die Cast
CHW8271N**Matrix:** Water**Work Order:** 2010861**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B010944 - SW5030 (Continued)**LCS (B010944-BS1)** (Continued)

Prepared: 09/29/2020 10:07 Analyzed: 09/29/2020 12:41

2,2-Dichloropropane	52.9	8.00	ug/L	50.00		106	60-139				1
2-Butanone	176	28.0	ug/L	175.0		101	71-119				1
2-Chlorotoluene	52.5	2.00	ug/L	50.00		105	79-122				1
2-Hexanone	175	28.0	ug/L	175.0		100	57-139				1
4-Isopropyltoluene	53.7	4.00	ug/L	50.00		107	77-127				1
4-Methyl-2-pentanone	181	28.0	ug/L	175.0		103	67-130				1
Acetone	190	70.0	ug/L	175.0		109	39-160				1
Benzene	52.5	2.00	ug/L	50.00		105	79-120				1
Bromobenzene	52.3	2.00	ug/L	50.00		105	80-132				1
Bromochloromethane	49.0	4.00	ug/L	50.00		98	78-123				1
Bromodichloromethane	53.1	2.00	ug/L	50.00		106	84-139				1
Bromoform	50.8	4.00	ug/L	50.00		102	66-130				1
Bromomethane	46.4	8.00	ug/L	50.00		93	56-150				1
Carbon disulfide	50.4	4.00	ug/L	50.00		101	80-124				1
Carbon tetrachloride	53.8	4.00	ug/L	50.00		108	75-125				1
Chlorobenzene	51.8	2.00	ug/L	50.00		104	82-118				1
Chloroethane	46.8	4.00	ug/L	50.00		94	60-138				1
Chloroform	52.3	8.00	ug/L	50.00		105	79-124				1
Chloromethane	47.2	8.00	ug/L	50.00		94	50-139				1
cis-1,2-Dichloroethene	50.2	4.00	ug/L	50.00		100	78-123				1
cis-1,3-Dichloropropene	55.0	4.00	ug/L	50.00		110	75-124				1
Cyclohexane	52.0	2.00	ug/L	50.00		104	71-130				1
Dibromochloromethane	51.6	4.00	ug/L	50.00		103	83-140				1
Dibromomethane	52.8	2.00	ug/L	50.00		106	79-138				1
Dichlorodifluoromethane	50.2	2.00	ug/L	50.00		100	66-150				1
Ethylbenzene	53.3	2.00	ug/L	50.00		107	79-137				1
Isopropylbenzene	52.7	2.00	ug/L	50.00		105	72-131				1
m,p-Xylene	105	8.00	ug/L	100.0		105	80-136				1
Methyl tert-butyl ether	49.9	4.00	ug/L	50.00		100	71-124				1
Methylene chloride	49.6	8.00	ug/L	50.00		99	74-124				1
n-Butylbenzene	50.9	2.00	ug/L	50.00		102	75-128				1
n-Propylbenzene	55.3	2.00	ug/L	50.00		111	76-126				1
o-Xylene	51.2	2.00	ug/L	50.00		102	78-122				1
sec-Butylbenzene	54.0	2.00	ug/L	50.00		108	77-126				1
Styrene	53.1	8.00	ug/L	50.00		106	78-123				1
tert-Butylbenzene	52.3	4.00	ug/L	50.00		105	78-124				1
Tetrachloroethene	43.8	4.00	ug/L	50.00		88	74-129				1
Toluene	50.5	4.00	ug/L	50.00		101	80-133				1
trans-1,2-Dichloroethene	50.7	4.00	ug/L	50.00		101	75-124				1
trans-1,3-Dichloropropene	53.2	8.00	ug/L	50.00		106	73-127				1
Trichloroethene	52.5	4.00	ug/L	50.00		105	84-129				1
Trichlorofluoromethane	51.9	4.00	ug/L	50.00		104	73-134				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 10/07/2020**Project:** Milw Die Cast
CHW8271N**Matrix:** Water**Work Order:** 2010861**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B010944 - SW5030 (Continued)**LCS (B010944-BS1) (Continued)**

Prepared: 09/29/2020 10:07 Analyzed: 09/29/2020 12:41

Vinyl chloride	50.0	4.00	ug/L	50.00		100	58-137				1
Xylenes, Total	157	12.0	ug/L	150.0		104	80-132				1
Surrogate: Dibromofluoromethane	20.8		ug/L	20.00		104	84-137				1
Surrogate: 1,2-Dichloroethane-d4	19.7		ug/L	20.00		99	74-140				1
Surrogate: Fluorobenzene	20.2		ug/L	20.00		101	90-105				1
Surrogate: Toluene-d8	19.6		ug/L	20.00		98	74-109				1
Surrogate: 4-Bromofluorobenzene	9.91		ug/L	10.00		99	86-128				1
Surrogate: 1,2-Dichlorobenzene-d4	20.0		ug/L	20.00		100	90-128				1

LCS Dup (B010944-BSD1)

Prepared: 09/29/2020 10:07 Analyzed: 09/29/2020 13:14

1,1,1,2-Tetrachloroethane	48.3	4.00	ug/L	50.00		97	84-122	4	20		1
1,1,1-Trichloroethane	50.3	4.00	ug/L	50.00		101	74-131	3	20		1
1,1,2,2-Tetrachloroethane	50.4	4.00	ug/L	50.00		101	71-121	5	20		1
1,1,2-Trichloroethane	52.0	2.00	ug/L	50.00		104	83-139	3	20		1
1,1-Dichloroethane	50.2	4.00	ug/L	50.00		100	77-125	3	20		1
1,1-Dichloroethene	51.5	8.00	ug/L	50.00		103	71-131	2	20		1
1,1-Dichloropropene	52.3	2.00	ug/L	50.00		105	79-125	1	20		1
1,2,3-Trichlorobenzene	49.7	2.00	ug/L	50.00		99	69-129	0.2	20		1
1,2,3-Trichloropropane	49.2	4.00	ug/L	50.00		98	73-122	0.005	20		1
1,2,4-Trimethylbenzene	52.8	4.00	ug/L	50.00		106	76-124	1	20		1
1,2-Dibromo-3-chloropropane	44.9	8.00	ug/L	50.00		90	72-124	2	20		1
1,2-Dibromoethane	51.3	2.00	ug/L	50.00		103	77-121	2	20		1
1,2-Dichloroethane	51.7	4.00	ug/L	50.00		103	73-128	1	20		1
1,2-Dichloropropane	51.6	4.00	ug/L	50.00		103	78-122	3	20		1
1,3,5-Trimethylbenzene	52.4	2.00	ug/L	50.00		105	75-124	1	20		1
1,3-Dichloropropane	52.9	2.00	ug/L	50.00		106	82-130	5	20		1
2,2-Dichloropropane	53.4	8.00	ug/L	50.00		107	60-139	0.9	20		1
2-Butanone	183	28.0	ug/L	175.0		105	71-119	4	20		1
2-Chlorotoluene	51.4	2.00	ug/L	50.00		103	79-122	2	20		1
2-Hexanone	181	28.0	ug/L	175.0		103	57-139	3	20		1
4-Isopropyltoluene	52.7	4.00	ug/L	50.00		105	77-127	2	20		1
4-Methyl-2-pentanone	182	28.0	ug/L	175.0		104	67-130	0.6	20		1
Acetone	192	70.0	ug/L	175.0		110	39-160	0.9	20		1
Benzene	51.7	2.00	ug/L	50.00		103	79-120	2	20		1
Bromobenzene	51.5	2.00	ug/L	50.00		103	80-132	2	20		1
Bromochloromethane	48.9	4.00	ug/L	50.00		98	78-123	0.4	20		1
Bromodichloromethane	51.9	2.00	ug/L	50.00		104	84-139	2	20		1
Bromoform	52.4	4.00	ug/L	50.00		105	66-130	3	20		1
Bromomethane	49.9	8.00	ug/L	50.00		100	56-150	7	20		1
Carbon disulfide	50.3	4.00	ug/L	50.00		101	80-124	0.2	20		1
Carbon tetrachloride	53.0	4.00	ug/L	50.00		106	75-125	2	20		1
Chlorobenzene	53.1	2.00	ug/L	50.00		106	82-118	3	20		1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 10/07/2020**Project:** Milw Die Cast
CHW8271N**Matrix:** Water**Work Order:** 2010861**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B010944 - SW5030 (Continued)**LCS Dup (B010944-BSD1) (Continued)**

Prepared: 09/29/2020 10:07 Analyzed: 09/29/2020 13:14

Chloroethane	44.3	4.00	ug/L	50.00		89	60-138	5	20		1
Chloroform	51.2	8.00	ug/L	50.00		102	79-124	2	20		1
Chloromethane	45.9	8.00	ug/L	50.00		92	50-139	3	20		1
cis-1,2-Dichloroethene	50.5	4.00	ug/L	50.00		101	78-123	0.6	20		1
cis-1,3-Dichloropropene	54.7	4.00	ug/L	50.00		109	75-124	0.6	20		1
Cyclohexane	52.6	2.00	ug/L	50.00		105	71-130	1	20		1
Dibromochloromethane	52.0	4.00	ug/L	50.00		104	83-140	0.9	20		1
Dibromomethane	50.1	2.00	ug/L	50.00		100	79-138	5	20		1
Dichlorodifluoromethane	48.4	2.00	ug/L	50.00		97	66-150	4	20		1
Ethylbenzene	53.3	2.00	ug/L	50.00		107	79-137	0.02	20		1
Isopropylbenzene	51.6	2.00	ug/L	50.00		103	72-131	2	20		1
m,p-Xylene	107	8.00	ug/L	100.0		107	80-136	1	20		1
Methyl tert-butyl ether	49.9	4.00	ug/L	50.00		100	71-124	0.1	20		1
Methylene chloride	49.1	8.00	ug/L	50.00		98	74-124	1	20		1
n-Butylbenzene	51.5	2.00	ug/L	50.00		103	75-128	1	20		1
n-Propylbenzene	54.7	2.00	ug/L	50.00		109	76-126	1	20		1
o-Xylene	51.0	2.00	ug/L	50.00		102	78-122	0.4	20		1
sec-Butylbenzene	53.6	2.00	ug/L	50.00		107	77-126	0.6	20		1
Styrene	53.8	8.00	ug/L	50.00		108	78-123	1	20		1
tert-Butylbenzene	52.0	4.00	ug/L	50.00		104	78-124	0.6	20		1
Tetrachloroethene	44.0	4.00	ug/L	50.00		88	74-129	0.3	20		1
Toluene	51.0	4.00	ug/L	50.00		102	80-133	1	20		1
trans-1,2-Dichloroethene	51.3	4.00	ug/L	50.00		103	75-124	1	20		1
trans-1,3-Dichloropropene	53.3	8.00	ug/L	50.00		107	73-127	0.2	20		1
Trichloroethene	53.7	4.00	ug/L	50.00		107	84-129	2	20		1
Trichlorofluoromethane	50.9	4.00	ug/L	50.00		102	73-134	2	20		1
Vinyl chloride	47.9	4.00	ug/L	50.00		96	58-137	4	20		1
Xylenes, Total	158	12.0	ug/L	150.0		105	80-132	0.9	20		1
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Surrogate: Dibromofluoromethane	20.1		ug/L	20.00		101	84-137				1
Surrogate: 1,2-Dichloroethane-d4	20.1		ug/L	20.00		100	74-140				1
Surrogate: Fluorobenzene	20.5		ug/L	20.00		103	90-105				1
Surrogate: Toluene-d8	20.6		ug/L	20.00		103	74-109				1
Surrogate: 4-Bromofluorobenzene	9.71		ug/L	10.00		97	86-128				1
Surrogate: 1,2-Dichlorobenzene-d4	19.4		ug/L	20.00		97	90-128				1

Matrix Spike (B010944-MS1)**Source: 2010861-03**

Prepared: 09/29/2020 10:07 Analyzed: 09/29/2020 13:42

1,1,1,2-Tetrachloroethane	50.1	4.00	ug/L	50.00	ND	100	70-130				1
1,1,1-Trichloroethane	53.4	4.00	ug/L	50.00	ND	107	70-130				1
1,1,2,2-Tetrachloroethane	51.5	4.00	ug/L	50.00	ND	103	70-130				1
1,1,2-Trichloroethane	51.3	2.00	ug/L	50.00	ND	103	70-130				1
1,1-Dichloroethane	52.0	4.00	ug/L	50.00	ND	104	70-130				1
1,1-Dichloroethene	55.4	8.00	ug/L	50.00	ND	111	70-130				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 10/07/2020**Project:** Milw Die Cast
CHW8271N**Matrix:** Water**Work Order:** 2010861**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B010944 - SW5030 (Continued)**Matrix Spike (B010944-MS1)** (Continued)**Source: 2010861-03**

Prepared: 09/29/2020 10:07 Analyzed: 09/29/2020 13:42

1,1-Dichloropropene	55.5	2.00	ug/L	50.00	ND	111	70-130				1
1,2,3-Trichlorobenzene	48.8	2.00	ug/L	50.00	ND	98	70-130				1
1,2,3-Trichloropropane	47.4	4.00	ug/L	50.00	ND	95	70-130				1
1,2,4-Trimethylbenzene	54.3	4.00	ug/L	50.00	ND	109	70-130				1
1,2-Dibromo-3-chloropropane	41.3	8.00	ug/L	50.00	ND	83	70-130				1
1,2-Dibromoethane	50.6	2.00	ug/L	50.00	ND	101	70-130				1
1,2-Dichloroethane	53.2	4.00	ug/L	50.00	ND	106	70-130				1
1,2-Dichloropropane	52.8	4.00	ug/L	50.00	ND	106	70-130				1
1,3,5-Trimethylbenzene	54.1	2.00	ug/L	50.00	ND	108	70-130				1
1,3-Dichloropropane	49.9	2.00	ug/L	50.00	ND	100	70-130				1
2,2-Dichloropropane	55.4	8.00	ug/L	50.00	ND	111	70-130				1
2-Butanone	157	28.0	ug/L	175.0	ND	89	70-130				1
2-Chlorotoluene	53.8	2.00	ug/L	50.00	ND	108	70-130				1
2-Hexanone	159	28.0	ug/L	175.0	ND	91	70-130				1
4-Isopropyltoluene	54.8	4.00	ug/L	50.00	ND	110	70-130				1
4-Methyl-2-pentanone	176	28.0	ug/L	175.0	ND	101	70-130				1
Acetone	146	70.0	ug/L	175.0	ND	84	70-130				1
Benzene	51.8	2.00	ug/L	50.00	ND	104	70-130				1
Bromobenzene	52.6	2.00	ug/L	50.00	ND	105	70-130				1
Bromochloromethane	50.3	4.00	ug/L	50.00	ND	101	70-130				1
Bromodichloromethane	52.1	2.00	ug/L	50.00	ND	104	70-130				1
Bromoform	49.9	4.00	ug/L	50.00	ND	100	70-130				1
Bromomethane	52.6	8.00	ug/L	50.00	ND	105	70-130				1
Carbon disulfide	52.6	4.00	ug/L	50.00	ND	105	70-130				1
Carbon tetrachloride	55.2	4.00	ug/L	50.00	ND	110	70-130				1
Chlorobenzene	52.8	2.00	ug/L	50.00	ND	106	70-130				1
Chloroethane	46.9	4.00	ug/L	50.00	ND	94	70-130				1
Chloroform	52.6	8.00	ug/L	50.00	ND	105	70-130				1
Chloromethane	48.1	8.00	ug/L	50.00	ND	96	70-130				1
cis-1,2-Dichloroethene	154	4.00	ug/L	50.00	128	53	70-130			S	1
cis-1,3-Dichloropropene	53.5	4.00	ug/L	50.00	ND	107	70-130				1
Cyclohexane	53.1	2.00	ug/L	50.00	ND	106	70-130				1
Dibromochloromethane	51.4	4.00	ug/L	50.00	ND	103	70-130				1
Dibromomethane	50.7	2.00	ug/L	50.00	ND	101	70-130				1
Dichlorodifluoromethane	52.4	2.00	ug/L	50.00	ND	105	70-130				1
Ethylbenzene	53.6	2.00	ug/L	50.00	ND	107	70-130				1
Isopropylbenzene	53.4	2.00	ug/L	50.00	ND	107	70-130				1
m,p-Xylene	108	8.00	ug/L	100.0	ND	108	70-130				1
Methyl tert-butyl ether	51.5	4.00	ug/L	50.00	ND	103	70-130				1
Methylene chloride	51.4	8.00	ug/L	50.00	ND	103	70-130				1
n-Butylbenzene	51.6	2.00	ug/L	50.00	ND	103	70-130				1
n-Propylbenzene	57.8	2.00	ug/L	50.00	ND	116	70-130				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 10/07/2020**Project:** Milw Die Cast
CHW8271N**Matrix:** Water**Work Order:** 2010861**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B010944 - SW5030 (Continued)**Matrix Spike (B010944-MS1) (Continued)****Source: 2010861-03**

Prepared: 09/29/2020 10:07 Analyzed: 09/29/2020 13:42

o-Xylene	51.8	2.00	ug/L	50.00	ND	104	70-130				1
sec-Butylbenzene	54.6	2.00	ug/L	50.00	ND	109	70-130				1
Styrene	53.2	8.00	ug/L	50.00	ND	106	70-130				1
tert-Butylbenzene	52.6	4.00	ug/L	50.00	ND	105	70-130				1
Tetrachloroethene	323	4.00	ug/L	50.00	306	34	70-130			E1, S	1
Toluene	50.7	4.00	ug/L	50.00	ND	101	70-130				1
trans-1,2-Dichloroethene	54.0	4.00	ug/L	50.00	1.31	105	70-130				1
trans-1,3-Dichloropropene	53.9	8.00	ug/L	50.00	ND	108	70-130				1
Trichloroethene	148	4.00	ug/L	50.00	109	78	70-130				1
Trichlorofluoromethane	52.8	4.00	ug/L	50.00	ND	106	70-130				1
Vinyl chloride	60.6	4.00	ug/L	50.00	10.9	99	70-130				1
Xylenes, Total	160	12.0	ug/L	150.0	ND	107	70-130				1
<i>Surrogate: Dibromofluoromethane</i>	20.5		ug/L	20.00		103	84-137				1
<i>Surrogate: 1,2-Dichloroethane-d4</i>	20.2		ug/L	20.00		101	74-140				1
<i>Surrogate: Fluorobenzene</i>	20.2		ug/L	20.00		101	90-105				1
<i>Surrogate: Toluene-d8</i>	20.0		ug/L	20.00		100	74-109				1
<i>Surrogate: 4-Bromofluorobenzene</i>	10.1		ug/L	10.00		101	86-128				1
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	19.5		ug/L	20.00		97	90-128				1

Matrix Spike Dup (B010944-MSD1)**Source: 2010861-03**

Prepared: 09/29/2020 10:07 Analyzed: 09/29/2020 14:07

1,1,1,2-Tetrachloroethane	50.2	4.00	ug/L	50.00	ND	100	70-130	0.03	20		1
1,1,1-Trichloroethane	54.3	4.00	ug/L	50.00	ND	109	70-130	2	20		1
1,1,2,2-Tetrachloroethane	56.2	4.00	ug/L	50.00	ND	112	70-130	9	20		1
1,1,2-Trichloroethane	52.8	2.00	ug/L	50.00	ND	106	70-130	3	20		1
1,1-Dichloroethane	52.8	4.00	ug/L	50.00	ND	106	70-130	2	20		1
1,1-Dichloroethene	56.5	8.00	ug/L	50.00	ND	113	70-130	2	20		1
1,1-Dichloropropene	56.0	2.00	ug/L	50.00	ND	112	70-130	1	20		1
1,2,3-Trichlorobenzene	50.8	2.00	ug/L	50.00	ND	102	70-130	4	20		1
1,2,3-Trichloropropane	51.2	4.00	ug/L	50.00	ND	102	70-130	8	20		1
1,2,4-Trimethylbenzene	53.7	4.00	ug/L	50.00	ND	107	70-130	1	20		1
1,2-Dibromo-3-chloropropane	49.3	8.00	ug/L	50.00	ND	99	70-130	18	20		1
1,2-Dibromoethane	51.9	2.00	ug/L	50.00	ND	104	70-130	3	20		1
1,2-Dichloroethane	54.0	4.00	ug/L	50.00	ND	108	70-130	1	20		1
1,2-Dichloropropane	54.2	4.00	ug/L	50.00	ND	108	70-130	3	20		1
1,3,5-Trimethylbenzene	54.9	2.00	ug/L	50.00	ND	110	70-130	1	20		1
1,3-Dichloropropane	51.5	2.00	ug/L	50.00	ND	103	70-130	3	20		1
2,2-Dichloropropane	56.5	8.00	ug/L	50.00	ND	113	70-130	2	20		1
2-Butanone	183	28.0	ug/L	175.0	ND	105	70-130	16	20		1
2-Chlorotoluene	54.3	2.00	ug/L	50.00	ND	109	70-130	1	20		1
2-Hexanone	176	28.0	ug/L	175.0	ND	100	70-130	10	20		1
4-Isopropyltoluene	55.7	4.00	ug/L	50.00	ND	111	70-130	2	20		1
4-Methyl-2-pentanone	189	28.0	ug/L	175.0	ND	108	70-130	7	20		1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 10/07/2020**Project:** Milw Die Cast
CHW8271N**Matrix:** Water**Work Order:** 2010861**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B010944 - SW5030 (Continued)**Matrix Spike Dup (B010944-MSD1) (Continued)****Source: 2010861-03**

Prepared: 09/29/2020 10:07 Analyzed: 09/29/2020 14:07

Acetone	159	70.0	ug/L	175.0	ND	91	70-130	9	20		1
Benzene	52.9	2.00	ug/L	50.00	ND	106	70-130	2	20		1
Bromobenzene	53.8	2.00	ug/L	50.00	ND	108	70-130	2	20		1
Bromochloromethane	52.2	4.00	ug/L	50.00	ND	104	70-130	4	20		1
Bromodichloromethane	53.5	2.00	ug/L	50.00	ND	107	70-130	3	20		1
Bromoform	51.1	4.00	ug/L	50.00	ND	102	70-130	3	20		1
Bromomethane	52.1	8.00	ug/L	50.00	ND	104	70-130	1	20		1
Carbon disulfide	52.4	4.00	ug/L	50.00	ND	105	70-130	0.4	20		1
Carbon tetrachloride	56.0	4.00	ug/L	50.00	ND	112	70-130	1	20		1
Chlorobenzene	53.0	2.00	ug/L	50.00	ND	106	70-130	0.3	20		1
Chloroethane	46.5	4.00	ug/L	50.00	ND	93	70-130	0.8	20		1
Chloroform	53.7	8.00	ug/L	50.00	ND	107	70-130	2	20		1
Chloromethane	48.9	8.00	ug/L	50.00	ND	98	70-130	1	20		1
cis-1,2-Dichloroethene	159	4.00	ug/L	50.00	128	61	70-130	3	20	S	1
cis-1,3-Dichloropropene	55.0	4.00	ug/L	50.00	ND	110	70-130	3	20		1
Cyclohexane	53.5	2.00	ug/L	50.00	ND	107	70-130	0.7	20		1
Dibromochloromethane	52.4	4.00	ug/L	50.00	ND	105	70-130	2	20		1
Dibromomethane	52.1	2.00	ug/L	50.00	ND	104	70-130	3	20		1
Dichlorodifluoromethane	51.0	2.00	ug/L	50.00	ND	102	70-130	3	20		1
Ethylbenzene	53.7	2.00	ug/L	50.00	ND	107	70-130	0.2	20		1
Isopropylbenzene	54.8	2.00	ug/L	50.00	ND	110	70-130	3	20		1
m,p-Xylene	108	8.00	ug/L	100.0	ND	108	70-130	0.8	20		1
Methyl tert-butyl ether	53.0	4.00	ug/L	50.00	ND	106	70-130	3	20		1
Methylene chloride	50.7	8.00	ug/L	50.00	ND	101	70-130	1	20		1
n-Butylbenzene	52.1	2.00	ug/L	50.00	ND	104	70-130	1	20		1
n-Propylbenzene	56.8	2.00	ug/L	50.00	ND	114	70-130	2	20		1
o-Xylene	53.6	2.00	ug/L	50.00	ND	107	70-130	3	20		1
sec-Butylbenzene	55.8	2.00	ug/L	50.00	ND	112	70-130	2	20		1
Styrene	53.5	8.00	ug/L	50.00	ND	107	70-130	0.5	20		1
tert-Butylbenzene	54.8	4.00	ug/L	50.00	ND	110	70-130	4	20		1
Tetrachloroethene	321	4.00	ug/L	50.00	306	32	70-130	0.3	20	E1, S	1
Toluene	52.1	4.00	ug/L	50.00	ND	104	70-130	3	20		1
trans-1,2-Dichloroethene	54.3	4.00	ug/L	50.00	1.31	106	70-130	0.6	20		1
trans-1,3-Dichloropropene	54.8	8.00	ug/L	50.00	ND	110	70-130	2	20		1
Trichloroethene	148	4.00	ug/L	50.00	109	79	70-130	0.3	20		1
Trichlorofluoromethane	53.3	4.00	ug/L	50.00	ND	107	70-130	0.9	20		1
Vinyl chloride	60.8	4.00	ug/L	50.00	10.9	100	70-130	0.4	20		1
Xylenes, Total	161	12.0	ug/L	150.0	ND	107	70-130	0.6	20		1
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Surrogate: Dibromofluoromethane	20.9		ug/L	20.00		104	84-137				1
Surrogate: 1,2-Dichloroethane-d4	20.3		ug/L	20.00		102	74-140				1
Surrogate: Fluorobenzene	19.8		ug/L	20.00		99	90-105				1
Surrogate: Toluene-d8	19.5		ug/L	20.00		97	74-109				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 10/07/2020**Project:** Milw Die Cast
CHW8271N**Matrix:** Water**Work Order:** 2010861**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0I0944 - SW5030 (Continued)**Matrix Spike Dup (B0I0944-MSD1) (Continued)****Source: 2010861-03**

Prepared: 09/29/2020 10:07 Analyzed: 09/29/2020 14:07

Surrogate: 4-Bromofluorobenzene	9.70		ug/L	10.00		97	86-128				1
Surrogate: 1,2-Dichlorobenzene-d4	19.5		ug/L	20.00		98	90-128				1

Batch: B0J0079 - SW5030**Blank (B0J0079-BLK1)**

Prepared: 10/01/2020 10:54 Analyzed: 10/01/2020 13:23

1,1,1-Trichloroethane	< 4.00	4.00	ug/L								1
1,1,2,2-Tetrachloroethane	< 4.00	4.00	ug/L								1
1,1,2-Trichloroethane	< 2.00	2.00	ug/L								1
1,1-Dichloroethane	< 4.00	4.00	ug/L								1
1,1-Dichloroethene	< 8.00	8.00	ug/L								1
1,2-Dibromo-3-chloropropane	< 8.00	8.00	ug/L								1
1,2-Dibromoethane	< 2.00	2.00	ug/L								1
1,2-Dichloroethane	< 4.00	4.00	ug/L								1
1,2-Dichloropropane	< 4.00	4.00	ug/L								1
1-Butanol	< 200	200	ug/L								1
2-Butanone	< 28.0	28.0	ug/L								1
2-Hexanone	< 28.0	28.0	ug/L								1
4-Methyl-2-pentanone	< 28.0	28.0	ug/L								1
Acetone	< 70.0	70.0	ug/L								1
Acrylonitrile	< 4.00	4.00	ug/L								1
Benzene	< 2.00	2.00	ug/L								1
Bromodichloromethane	< 2.00	2.00	ug/L								1
Bromoform	< 4.00	4.00	ug/L								1
Bromomethane	< 8.00	8.00	ug/L								1
Carbon disulfide	< 4.00	4.00	ug/L								1
Carbon tetrachloride	< 4.00	4.00	ug/L								1
Chlorobenzene	< 2.00	2.00	ug/L								1
Chloroethane	< 4.00	4.00	ug/L								1
Chloroform	< 8.00	8.00	ug/L								1
Chloromethane	< 8.00	8.00	ug/L								1
cis-1,2-Dichloroethene	< 4.00	4.00	ug/L								1
Dibromochloromethane	< 4.00	4.00	ug/L								1
Ethylbenzene	< 2.00	2.00	ug/L								1
m,p-Xylene	< 8.00	8.00	ug/L								1
Methyl tert-butyl ether	< 4.00	4.00	ug/L								1
Methylene chloride	< 8.00	8.00	ug/L								1
o-Xylene	< 2.00	2.00	ug/L								1
Styrene	< 8.00	8.00	ug/L								1
Tetrachloroethene	< 4.00	4.00	ug/L								1
Toluene	< 4.00	4.00	ug/L								1
trans-1,2-Dichloroethene	< 4.00	4.00	ug/L								1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 10/07/2020**Project:** Milw Die Cast
CHW8271N**Matrix:** Water**Work Order:** 2010861**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0J0079 - SW5030 (Continued)**Blank (B0J0079-BLK1) (Continued)**

Prepared: 10/01/2020 10:54 Analyzed: 10/01/2020 13:23

Trichloroethene	< 4.00	4.00	ug/L								1
Vinyl acetate	< 4.00	4.00	ug/L								1
Vinyl chloride	< 4.00	4.00	ug/L								1
Xylenes, Total	< 12.0	12.0	ug/L								1
1,3-Dichloropropene, Total	< 8.00	8.00	ug/L								1
<i>Surrogate: Dibromofluoromethane</i>	19.8		ug/L	20.00		99	84-137				1
<i>Surrogate: 1,2-Dichloroethane-d4</i>	20.6		ug/L	20.00		103	74-140				1
<i>Surrogate: Fluorobenzene</i>	20.2		ug/L	20.00		101	90-105				1
<i>Surrogate: Toluene-d8</i>	19.4		ug/L	20.00		97	74-109				1
<i>Surrogate: 4-Bromofluorobenzene</i>	9.80		ug/L	10.00		98	86-128				1
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	19.2		ug/L	20.00		96	90-128				1

LCS (B0J0079-BS1)

Prepared: 10/01/2020 10:54 Analyzed: 10/01/2020 12:06

1,1,1-Trichloroethane	52.4	4.00	ug/L	50.00		105	74-131				1
1,1,1,2-Tetrachloroethane	49.7	4.00	ug/L	50.00		99	71-121				1
1,1,2-Trichloroethane	50.1	2.00	ug/L	50.00		100	83-139				1
1,1-Dichloroethane	50.5	4.00	ug/L	50.00		101	77-125				1
1,1-Dichloroethene	53.5	8.00	ug/L	50.00		107	71-131				1
1,2-Dibromo-3-chloropropane	42.1	8.00	ug/L	50.00		84	72-124				1
1,2-Dibromoethane	49.9	2.00	ug/L	50.00		100	77-121				1
1,2-Dichloroethane	51.5	4.00	ug/L	50.00		103	73-128				1
1,2-Dichloropropane	52.7	4.00	ug/L	50.00		105	78-122				1
1-Butanol	501	200	ug/L	500.0		100	70-130				1
2-Butanone	174	28.0	ug/L	175.0		100	71-119				1
2-Hexanone	169	28.0	ug/L	175.0		96	57-139				1
4-Methyl-2-pentanone	178	28.0	ug/L	175.0		102	67-130				1
Acetone	190	70.0	ug/L	175.0		108	39-160				1
Acrylonitrile	44.8	4.00	ug/L	50.00		90	63-135				1
Benzene	51.6	2.00	ug/L	50.00		103	79-120				1
Bromodichloromethane	52.7	2.00	ug/L	50.00		105	84-139				1
Bromoform	51.3	4.00	ug/L	50.00		103	66-130				1
Bromomethane	50.2	8.00	ug/L	50.00		100	56-150				1
Carbon disulfide	51.2	4.00	ug/L	50.00		102	80-124				1
Carbon tetrachloride	54.5	4.00	ug/L	50.00		109	75-125				1
Chlorobenzene	51.0	2.00	ug/L	50.00		102	82-118				1
Chloroethane	47.6	4.00	ug/L	50.00		95	60-138				1
Chloroform	51.6	8.00	ug/L	50.00		103	79-124				1
Chloromethane	47.1	8.00	ug/L	50.00		94	50-139				1
cis-1,2-Dichloroethene	50.3	4.00	ug/L	50.00		101	78-123				1
Dibromochloromethane	50.3	4.00	ug/L	50.00		101	83-140				1
Ethylbenzene	51.4	2.00	ug/L	50.00		103	79-137				1
m,p-Xylene	105	8.00	ug/L	100.0		105	80-136				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 10/07/2020**Project:** Milw Die Cast
CHW8271N**Matrix:** Water**Work Order:** 2010861**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0J0079 - SW5030 (Continued)**LCS (B0J0079-BS1) (Continued)**

Prepared: 10/01/2020 10:54 Analyzed: 10/01/2020 12:06

Methyl tert-butyl ether	50.3	4.00	ug/L	50.00		101	71-124				1
Methylene chloride	51.6	8.00	ug/L	50.00		103	74-124				1
o-Xylene	49.7	2.00	ug/L	50.00		99	78-122				1
Styrene	52.7	8.00	ug/L	50.00		105	78-123				1
Tetrachloroethene	42.6	4.00	ug/L	50.00		85	74-129				1
Toluene	48.9	4.00	ug/L	50.00		98	80-133				1
trans-1,2-Dichloroethene	51.4	4.00	ug/L	50.00		103	75-124				1
Trichloroethene	52.6	4.00	ug/L	50.00		105	84-129				1
Vinyl acetate	59.9	4.00	ug/L	50.00		120	76-133				1
Vinyl chloride	49.3	4.00	ug/L	50.00		99	58-137				1
Xylenes, Total	154	12.0	ug/L	150.0		103	80-132				1
1,3-Dichloropropene, Total	108	8.00	ug/L	100.0		108	77-123				1
<i>Surrogate: Dibromofluoromethane</i>	20.9		ug/L	20.00		104	84-137				1
<i>Surrogate: 1,2-Dichloroethane-d4</i>	20.3		ug/L	20.00		101	74-140				1
<i>Surrogate: Fluorobenzene</i>	20.4		ug/L	20.00		102	90-105				1
<i>Surrogate: Toluene-d8</i>	19.4		ug/L	20.00		97	74-109				1
<i>Surrogate: 4-Bromofluorobenzene</i>	9.40		ug/L	10.00		94	86-128				1
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	19.5		ug/L	20.00		97	90-128				1

LCS Dup (B0J0079-BSD1)

Prepared: 10/01/2020 10:54 Analyzed: 10/01/2020 12:32

1,1,1-Trichloroethane	53.7	4.00	ug/L	50.00		107	74-131	2	20		1
1,1,2,2-Tetrachloroethane	54.8	4.00	ug/L	50.00		110	71-121	10	20		1
1,1,2-Trichloroethane	51.9	2.00	ug/L	50.00		104	83-139	3	20		1
1,1-Dichloroethane	52.1	4.00	ug/L	50.00		104	77-125	3	20		1
1,1-Dichloroethene	55.4	8.00	ug/L	50.00		111	71-131	3	20		1
1,2-Dibromo-3-chloropropane	48.4	8.00	ug/L	50.00		97	72-124	14	20		1
1,2-Dibromoethane	52.7	2.00	ug/L	50.00		105	77-121	5	20		1
1,2-Dichloroethane	52.2	4.00	ug/L	50.00		104	73-128	1	20		1
1,2-Dichloropropane	53.6	4.00	ug/L	50.00		107	78-122	2	20		1
1-Butanol	557	200	ug/L	500.0		111	70-130	11	20		1
2-Butanone	181	28.0	ug/L	175.0		103	71-119	4	20		1
2-Hexanone	181	28.0	ug/L	175.0		103	57-139	7	20		1
4-Methyl-2-pentanone	184	28.0	ug/L	175.0		105	67-130	3	20		1
Acetone	182	70.0	ug/L	175.0		104	39-160	4	20		1
Acrylonitrile	47.5	4.00	ug/L	50.00		95	63-135	6	20		1
Benzene	51.8	2.00	ug/L	50.00		104	79-120	0.4	20		1
Bromodichloromethane	53.7	2.00	ug/L	50.00		107	84-139	2	20		1
Bromoform	52.9	4.00	ug/L	50.00		106	66-130	3	20		1
Bromomethane	51.4	8.00	ug/L	50.00		103	56-150	2	20		1
Carbon disulfide	51.9	4.00	ug/L	50.00		104	80-124	1	20		1
Carbon tetrachloride	54.5	4.00	ug/L	50.00		109	75-125	0.07	20		1
Chlorobenzene	53.3	2.00	ug/L	50.00		107	82-118	4	20		1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 10/07/2020**Project:** Milw Die Cast
CHW8271N**Matrix:** Water**Work Order:** 2010861**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0J0079 - SW5030 (Continued)**LCS Dup (B0J0079-BSD1) (Continued)**

Prepared: 10/01/2020 10:54 Analyzed: 10/01/2020 12:32

Chloroethane	47.6	4.00	ug/L	50.00		95	60-138	0.07	20		1
Chloroform	52.9	8.00	ug/L	50.00		106	79-124	2	20		1
Chloromethane	49.3	8.00	ug/L	50.00		99	50-139	5	20		1
cis-1,2-Dichloroethene	52.0	4.00	ug/L	50.00		104	78-123	3	20		1
Dibromochloromethane	54.2	4.00	ug/L	50.00		108	83-140	7	20		1
Ethylbenzene	54.8	2.00	ug/L	50.00		110	79-137	6	20		1
m,p-Xylene	109	8.00	ug/L	100.0		109	80-136	5	20		1
Methyl tert-butyl ether	50.9	4.00	ug/L	50.00		102	71-124	1	20		1
Methylene chloride	51.7	8.00	ug/L	50.00		103	74-124	0.2	20		1
o-Xylene	52.2	2.00	ug/L	50.00		104	78-122	5	20		1
Styrene	55.3	8.00	ug/L	50.00		111	78-123	5	20		1
Tetrachloroethene	44.2	4.00	ug/L	50.00		88	74-129	4	20		1
Toluene	51.0	4.00	ug/L	50.00		102	80-133	4	20		1
trans-1,2-Dichloroethene	52.2	4.00	ug/L	50.00		104	75-124	2	20		1
Trichloroethene	54.1	4.00	ug/L	50.00		108	84-129	3	20		1
Vinyl acetate	60.3	4.00	ug/L	50.00		121	76-133	0.6	20		1
Vinyl chloride	50.4	4.00	ug/L	50.00		101	58-137	2	20		1
Xylenes, Total	162	12.0	ug/L	150.0		108	80-132	5	20		1
1,3-Dichloropropene, Total	107	8.00	ug/L	100.0		107	77-123	0.5	20		1
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Surrogate: Dibromofluoromethane	19.4		ug/L	20.00		97	84-137				1
Surrogate: 1,2-Dichloroethane-d4	20.0		ug/L	20.00		100	74-140				1
Surrogate: Fluorobenzene	19.8		ug/L	20.00		99	90-105				1
Surrogate: Toluene-d8	20.1		ug/L	20.00		101	74-109				1
Surrogate: 4-Bromofluorobenzene	9.87		ug/L	10.00		99	86-128				1
Surrogate: 1,2-Dichlorobenzene-d4	19.5		ug/L	20.00		98	90-128				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 10/07/2020**Project:** Milw Die Cast
CHW8271N**Matrix:** Water**Work Order:** 2010861**Semivolatile Organic Compounds by GC/MS**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B010881 - SW3510**Blank (B010881-BLK1)**

Prepared: 09/29/2020 11:11 Analyzed: 09/30/2020 06:23

1,2,4-Trichlorobenzene	< 0.280	2.00	ug/L								1
1,2-Dichlorobenzene	< 0.300	2.00	ug/L								1
1,3-Dichlorobenzene	< 0.310	2.00	ug/L								1
1,4-Dichlorobenzene	< 0.280	2.00	ug/L								1
2,4,5-Trichlorophenol	< 0.129	1.00	ug/L								1
2,4,6-Trichlorophenol	< 0.244	1.00	ug/L								1
2,4-Dichlorophenol	< 0.0788	1.00	ug/L								1
2,4-Dimethylphenol	< 0.117	2.00	ug/L								1
2,4-Dinitrophenol	< 3.31	30.0	ug/L								1
2,4-Dinitrotoluene	< 0.252	2.00	ug/L								1
2,6-Dinitrotoluene	< 0.230	1.00	ug/L								1
2-Chloronaphthalene	< 0.106	0.600	ug/L								1
2-Chlorophenol	< 0.153	1.00	ug/L								1
2-Methylnaphthalene	< 0.640	4.00	ug/L								1
2-Methylphenol	< 0.183	1.00	ug/L								1
2-Nitroaniline	< 2.56	30.0	ug/L								1
2-Nitrophenol	< 0.209	1.00	ug/L								1
3,3'-Dichlorobenzidine	< 3.16	20.0	ug/L								1
3 & 4-Methylphenol	< 0.179	1.00	ug/L								1
3-Nitroaniline	< 0.360	2.00	ug/L								1
4,6-Dinitro-2-methylphenol	< 2.45	15.0	ug/L								1
4-Bromophenyl-phenylether	< 0.160	1.00	ug/L								1
4-Chloro-3-methylphenol	< 0.0713	0.500	ug/L								1
4-Chloroaniline	< 0.107	0.600	ug/L								1
4-Chlorophenyl-phenylether	< 0.146	1.00	ug/L								1
4-Nitroaniline	< 3.77	30.0	ug/L								1
4-Nitrophenol	< 1.44	15.0	ug/L								1
Acenaphthene	< 0.104	0.600	ug/L								1
Acenaphthylene	< 0.130	0.600	ug/L								1
Anthracene	< 0.112	0.600	ug/L								1
Azobenzene as 1,2-Diphenylhydrazine	< 0.0767	1.00	ug/L								1
Benzidine	< 16.6	80.0	ug/L								1
Benzo(a)anthracene	< 0.123	0.600	ug/L								1
Benzo(a)pyrene	< 0.376	2.00	ug/L								1
Benzo(b)fluoranthene	< 0.372	2.00	ug/L								1
Benzo(g,h,i)perylene	< 0.399	2.00	ug/L								1
Benzo(k)fluoranthene	< 0.249	2.00	ug/L								1
Benzoic acid	< 11.7	40.0	ug/L								1
Benzyl alcohol	< 0.550	4.00	ug/L								1
Bis(2-chloroethoxy)methane	< 0.135	1.00	ug/L								1
Bis(2-chloroethyl)ether	< 0.176	1.00	ug/L								1
Bis(2-chloroisopropyl)ether	< 0.128	1.00	ug/L								1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 10/07/2020**Project:** Milw Die Cast
CHW8271N**Matrix:** Water**Work Order:** 2010861**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B010881 - SW3510 (Continued)**Blank (B010881-BLK1) (Continued)**

Prepared: 09/29/2020 11:11 Analyzed: 09/30/2020 06:23

Bis(2-ethylhexyl)phthalate	< 3.63	20.0	ug/L								1
Butyl benzyl phthalate	< 0.234	1.00	ug/L								1
Carbazole	< 0.173	1.00	ug/L								1
Chrysene	< 0.127	0.600	ug/L								1
Dibenzo(a,h)anthracene	< 0.442	2.00	ug/L								1
Dibenzofuran	< 0.123	0.600	ug/L								1
Diethyl phthalate	< 1.16	6.00	ug/L								1
Dimethyl phthalate	< 0.0883	0.600	ug/L								1
Di-n-butyl phthalate	< 2.88	10.0	ug/L								1
Di-n-octyl phthalate	< 1.89	10.0	ug/L								1
Fluoranthene	< 0.196	1.00	ug/L								1
Fluorene	< 0.124	0.600	ug/L								1
Hexachlorobenzene	< 0.165	1.00	ug/L								1
Hexachlorobutadiene	< 0.250	1.00	ug/L								1
Hexachlorocyclopentadiene	< 2.19	15.0	ug/L								1
Hexachloroethane	< 0.220	1.00	ug/L								1
Indeno(1,2,3-cd)pyrene	< 0.502	2.00	ug/L								1
Isophorone	< 0.110	0.600	ug/L								1
Naphthalene	< 0.816	4.00	ug/L								1
Nitrobenzene	< 0.140	0.600	ug/L								1
N-Nitrosodimethylamine	< 0.156	1.00	ug/L								1
N-Nitrosodi-n-propylamine	< 0.319	2.00	ug/L								1
N-Nitrosodiphenylamine	< 0.104	0.600	ug/L								1
Pentachlorophenol	< 2.52	30.0	ug/L								1
Phenanthrene	< 0.206	1.00	ug/L								1
Phenol	< 0.171	1.00	ug/L								1
Pyrene	< 0.208	1.00	ug/L								1
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Surrogate: 2-Fluorophenol	32.2		ug/L	66.67		48	10-88				1
Surrogate: Phenol-d5	23.6		ug/L	66.67		35	10-65				1
Surrogate: Nitrobenzene-d5	40.1		ug/L	66.67		60	25-128				1
Surrogate: 2-Fluorobiphenyl	34.9		ug/L	66.67		52	24-114				1
Surrogate: 2,4,6-Tribromophenol	44.0		ug/L	66.67		66	15-119				1
Surrogate: 4-Terphenyl-d14	56.4		ug/L	66.67		85	29-129				1

LCS (B010881-BS1)

Prepared: 09/29/2020 11:11 Analyzed: 09/30/2020 06:44

1,2,4-Trichlorobenzene	23.8	2.00	ug/L	40.00		59	35-101				1
1,2-Dichlorobenzene	22.9	2.00	ug/L	40.00		57	33-97				1
1,3-Dichlorobenzene	22.4	2.00	ug/L	40.00		56	32-96				1
1,4-Dichlorobenzene	22.3	2.00	ug/L	40.00		56	31-97				1
2,4,5-Trichlorophenol	30.0	1.00	ug/L	40.00		75	38-126				1
2,4,6-Trichlorophenol	28.9	1.00	ug/L	40.00		72	38-124				1
2,4-Dichlorophenol	26.8	1.00	ug/L	40.00		67	42-117				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 10/07/2020**Project:** Milw Die Cast
CHW8271N**Matrix:** Water**Work Order:** 2010861**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B010881 - SW3510 (Continued)**LCS (B010881-BS1)** (Continued)

Prepared: 09/29/2020 11:11 Analyzed: 09/30/2020 06:44

2,4-Dimethylphenol	31.8	2.00	ug/L	40.00		79	11-112				1
2,4-Dinitrophenol	33.2	30.0	ug/L	40.00		83	5-113				1
2,4-Dinitrotoluene	30.8	2.00	ug/L	40.00		77	39-124				1
2,6-Dinitrotoluene	30.5	1.00	ug/L	40.00		76	43-125				1
2-Chloronaphthalene	26.8	0.600	ug/L	40.00		67	38-113				1
2-Chlorophenol	25.6	1.00	ug/L	40.00		64	36-109				1
2-Methylnaphthalene	26.6	4.00	ug/L	40.00		67	42-112				1
2-Methylphenol	26.4	1.00	ug/L	40.00		66	34-105				1
2-Nitroaniline	30.7	30.0	ug/L	40.00		77	35-127				1
2-Nitrophenol	25.6	1.00	ug/L	40.00		64	37-118				1
3,3'-Dichlorobenzidine	60.3	20.0	ug/L	80.00		75	39-125				1
3 & 4-Methylphenol	26.4	1.00	ug/L	40.00		66	34-102				1
3-Nitroaniline	31.7	2.00	ug/L	40.00		79	39-122				1
4,6-Dinitro-2-methylphenol	28.8	15.0	ug/L	40.00		72	29-131				1
4-Bromophenyl-phenylether	30.7	1.00	ug/L	40.00		77	43-127				1
4-Chloro-3-methylphenol	30.4	0.500	ug/L	40.00		76	43-119				1
4-Chloroaniline	27.9	0.600	ug/L	40.00		70	40-116				1
4-Chlorophenyl-phenylether	30.1	1.00	ug/L	40.00		75	41-118				1
4-Nitroaniline	31.6	30.0	ug/L	40.00		79	41-128				1
4-Nitrophenol	16.9	15.0	ug/L	40.00		42	13-68				1
Acenaphthene	28.2	0.600	ug/L	40.00		71	40-115				1
Acenaphthylene	28.0	0.600	ug/L	40.00		70	38-116				1
Anthracene	31.4	0.600	ug/L	40.00		78	41-124				1
Azobenzene as 1,2-Diphenylhydrazine	31.1	1.00	ug/L	40.00		78	41-127				1
Benzidine	43.9	80.0	ug/L	80.00		55	15-122			J	1
Benzo(a)anthracene	30.6	0.600	ug/L	40.00		76	44-131				1
Benzo(a)pyrene	29.2	2.00	ug/L	40.00		73	46-131				1
Benzo(b)fluoranthene	29.7	2.00	ug/L	40.00		74	45-132				1
Benzo(g,h,i)perylene	30.2	2.00	ug/L	40.00		75	41-131				1
Benzo(k)fluoranthene	30.7	2.00	ug/L	40.00		77	47-132				1
Benzoic acid	49.3	40.0	ug/L	160.0		31	5-95				1
Benzyl alcohol	28.2	4.00	ug/L	40.00		71	43-107				1
Bis(2-chloroethoxy)methane	26.2	1.00	ug/L	40.00		65	40-114				1
Bis(2-chloroethyl)ether	25.3	1.00	ug/L	40.00		63	37-109				1
Bis(2-chloroisopropyl)ether	24.8	1.00	ug/L	40.00		62	34-112				1
Bis(2-ethylhexyl)phthalate	33.0	20.0	ug/L	40.00		82	40-135				1
Butyl benzyl phthalate	29.7	1.00	ug/L	40.00		74	38-133				1
Carbazole	31.3	1.00	ug/L	40.00		78	47-129				1
Chrysene	30.5	0.600	ug/L	40.00		76	44-125				1
Dibenzo(a,h)anthracene	29.1	2.00	ug/L	40.00		73	13-126				1
Dibenzofuran	29.5	0.600	ug/L	40.00		74	41-112				1
Diethyl phthalate	32.2	6.00	ug/L	40.00		81	43-125				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 10/07/2020**Project:** Milw Die Cast
CHW8271N**Matrix:** Water**Work Order:** 2010861**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B010881 - SW3510 (Continued)**LCS (B010881-BS1) (Continued)**

Prepared: 09/29/2020 11:11 Analyzed: 09/30/2020 06:44

Dimethyl phthalate	31.3	0.600	ug/L	40.00		78	43-117				1
Di-n-butyl phthalate	30.4	10.0	ug/L	40.00		76	43-132				1
Di-n-octyl phthalate	28.9	10.0	ug/L	40.00		72	36-133				1
Fluoranthene	30.5	1.00	ug/L	40.00		76	47-129				1
Fluorene	30.7	0.600	ug/L	40.00		77	43-116				1
Hexachlorobenzene	29.6	1.00	ug/L	40.00		74	44-112				1
Hexachlorobutadiene	23.1	1.00	ug/L	40.00		58	32-100				1
Hexachlorocyclopentadiene	19.0	15.0	ug/L	40.00		47	18-95				1
Hexachloroethane	21.9	1.00	ug/L	40.00		55	29-98				1
Indeno(1,2,3-cd)pyrene	28.6	2.00	ug/L	40.00		71	35-134				1
Isophorone	27.9	0.600	ug/L	40.00		70	39-113				1
Naphthalene	24.5	4.00	ug/L	40.00		61	33-109				1
Nitrobenzene	25.4	0.600	ug/L	40.00		63	42-111				1
N-Nitrosodimethylamine	20.3	1.00	ug/L	40.00		51	28-87				1
N-Nitrosodi-n-propylamine	29.0	2.00	ug/L	40.00		72	37-115				1
N-Nitrosodiphenylamine	31.4	0.600	ug/L	40.00		79	45-124				1
Pentachlorophenol	32.3	30.0	ug/L	40.00		81	29-120				1
Phenanthrene	30.8	1.00	ug/L	40.00		77	43-114				1
Phenol	15.8	1.00	ug/L	40.00		40	16-71				1
Pyrene	32.0	1.00	ug/L	40.00		80	43-128				1
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Surrogate: 2-Fluorophenol	32.1		ug/L	66.67		48	10-88				1
Surrogate: Phenol-d5	24.6		ug/L	66.67		37	10-65				1
Surrogate: Nitrobenzene-d5	43.0		ug/L	66.67		64	25-128				1
Surrogate: 2-Fluorobiphenyl	43.7		ug/L	66.67		66	24-114				1
Surrogate: 2,4,6-Tribromophenol	50.1		ug/L	66.67		75	15-119				1
Surrogate: 4-Terphenyl-d14	57.0		ug/L	66.67		85	29-129				1

Matrix Spike (B010881-MS1)**Source: 2010861-03**

Prepared: 09/29/2020 11:11 Analyzed: 09/30/2020 07:26

1,2,4-Trichlorobenzene	24.0	2.14	ug/L	42.79	ND	56	34-96				1
1,2-Dichlorobenzene	23.0	2.14	ug/L	42.79	ND	54	32-91				1
1,3-Dichlorobenzene	22.0	2.14	ug/L	42.79	ND	51	29-90				1
1,4-Dichlorobenzene	22.1	2.14	ug/L	42.79	ND	52	31-88				1
2,4,5-Trichlorophenol	30.0	1.07	ug/L	42.79	ND	70	54-120				1
2,4,6-Trichlorophenol	28.4	1.07	ug/L	42.79	ND	66	51-117				1
2,4-Dichlorophenol	27.8	1.07	ug/L	42.79	ND	65	33-134				1
2,4-Dimethylphenol	27.5	2.14	ug/L	42.79	ND	64	17-132				1
2,4-Dinitrophenol	30.0	32.1	ug/L	42.79	ND	70	1-123			J	1
2,4-Dinitrotoluene	30.9	2.14	ug/L	42.79	ND	72	49-124				1
2,6-Dinitrotoluene	31.5	1.07	ug/L	42.79	ND	74	57-121				1
2-Chloronaphthalene	27.3	0.642	ug/L	42.79	ND	64	50-101				1
2-Chlorophenol	26.2	1.07	ug/L	42.79	ND	61	37-107				1
2-Methylnaphthalene	27.5	4.28	ug/L	42.79	ND	64	35-121				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 10/07/2020**Project:** Milw Die Cast
CHW8271N**Matrix:** Water**Work Order:** 2010861**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B010881 - SW3510 (Continued)**Matrix Spike (B010881-MS1)** (Continued)**Source: 2010861-03**

Prepared: 09/29/2020 11:11

Analyzed: 09/30/2020 07:26

2-Methylphenol	25.6	1.07	ug/L	42.79	ND	60	32-107				1
2-Nitroaniline	30.4	32.1	ug/L	42.79	ND	71	45-123			J	1
2-Nitrophenol	26.9	1.07	ug/L	42.79	ND	63	38-120				1
3,3'-Dichlorobenzidine	63.6	21.4	ug/L	85.59	ND	74	33-137				1
3 & 4-Methylphenol	24.7	1.07	ug/L	42.79	ND	58	20-115				1
3-Nitroaniline	31.4	2.14	ug/L	42.79	ND	73	39-125				1
4,6-Dinitro-2-methylphenol	28.4	16.0	ug/L	42.79	ND	66	11-132				1
4-Bromophenyl-phenylether	31.0	1.07	ug/L	42.79	ND	72	56-116				1
4-Chloro-3-methylphenol	29.7	0.535	ug/L	42.79	ND	69	28-144				1
4-Chloroaniline	29.9	0.642	ug/L	42.79	ND	70	48-110				1
4-Chlorophenyl-phenylether	30.3	1.07	ug/L	42.79	ND	71	55-106				1
4-Nitroaniline	30.7	32.1	ug/L	42.79	ND	72	51-123			J	1
4-Nitrophenol	15.2	16.0	ug/L	42.79	ND	36	10-81			J	1
Acenaphthene	29.1	0.642	ug/L	42.79	ND	68	27-133				1
Acenaphthylene	28.3	0.642	ug/L	42.79	ND	66	47-113				1
Anthracene	31.6	0.642	ug/L	42.79	ND	74	61-115				1
Azobenzene as 1,2-Diphenylhydrazine	31.3	1.07	ug/L	42.79	ND	73	55-119				1
Benzidine	70.2	85.6	ug/L	85.59	ND	82	10-132			J	1
Benzo(a)anthracene	30.5	0.642	ug/L	42.79	ND	71	60-125				1
Benzo(a)pyrene	28.8	2.14	ug/L	42.79	ND	67	66-125				1
Benzo(b)fluoranthene	29.2	2.14	ug/L	42.79	ND	68	65-128				1
Benzo(g,h,i)perylene	30.2	2.14	ug/L	42.79	ND	71	62-123				1
Benzo(k)fluoranthene	30.2	2.14	ug/L	42.79	ND	71	64-122				1
Benzoic acid	28.5	42.8	ug/L	171.2	ND	17	7-82			J	1
Benzyl alcohol	28.9	4.28	ug/L	42.79	ND	68	36-110				1
Bis(2-chloroethoxy)methane	27.5	1.07	ug/L	42.79	ND	64	44-112				1
Bis(2-chloroethyl)ether	26.1	1.07	ug/L	42.79	ND	61	38-104				1
Bis(2-chloroisopropyl)ether	26.1	1.07	ug/L	42.79	ND	61	35-104				1
Bis(2-ethylhexyl)phthalate	30.5	21.4	ug/L	42.79	ND	71	52-139				1
Butyl benzyl phthalate	30.2	1.07	ug/L	42.79	ND	71	55-132				1
Carbazole	31.8	1.07	ug/L	42.79	ND	74	62-128				1
Chrysene	30.5	0.642	ug/L	42.79	ND	71	62-116				1
Dibenzo(a,h)anthracene	29.6	2.14	ug/L	42.79	ND	69	46-143				1
Dibenzofuran	30.1	0.642	ug/L	42.79	ND	70	53-110				1
Diethyl phthalate	31.6	6.42	ug/L	42.79	ND	74	58-117				1
Dimethyl phthalate	31.0	0.642	ug/L	42.79	ND	72	61-106				1
Di-n-butyl phthalate	31.1	10.7	ug/L	42.79	ND	73	60-132				1
Di-n-octyl phthalate	29.3	10.7	ug/L	42.79	ND	69	48-135				1
Fluoranthene	31.1	1.07	ug/L	42.79	ND	73	63-122				1
Fluorene	30.5	0.642	ug/L	42.79	ND	71	46-125				1
Hexachlorobenzene	30.3	1.07	ug/L	42.79	ND	71	51-110				1
Hexachlorobutadiene	23.1	1.07	ug/L	42.79	ND	54	29-94				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 10/07/2020**Project:** Milw Die Cast
CHW8271N**Matrix:** Water**Work Order:** 2010861**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B010881 - SW3510 (Continued)**Matrix Spike (B010881-MS1) (Continued)****Source: 2010861-03**

Prepared: 09/29/2020 11:11 Analyzed: 09/30/2020 07:26

Hexachlorocyclopentadiene	19.5	16.0	ug/L	42.79	ND	46	9-94				1
Hexachloroethane	21.6	1.07	ug/L	42.79	ND	51	25-89				1
Indeno(1,2,3-cd)pyrene	29.3	2.14	ug/L	42.79	ND	68	49-137				1
Isophorone	28.8	0.642	ug/L	42.79	ND	67	43-110				1
Naphthalene	25.3	4.28	ug/L	42.79	ND	59	20-163				1
Nitrobenzene	26.9	0.642	ug/L	42.79	ND	63	39-113				1
N-Nitrosodimethylamine	21.0	1.07	ug/L	42.79	ND	49	18-90				1
N-Nitrosodi-n-propylamine	29.5	2.14	ug/L	42.79	ND	69	37-116				1
N-Nitrosodiphenylamine	32.0	0.642	ug/L	42.79	ND	75	62-114				1
Pentachlorophenol	30.0	32.1	ug/L	42.79	ND	70	12-122			J	1
Phenanthrene	30.7	1.07	ug/L	42.79	ND	72	41-129				1
Phenol	15.2	1.07	ug/L	42.79	ND	35	10-68				1
Pyrene	32.0	1.07	ug/L	42.79	ND	75	59-124				1
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Surrogate: 2-Fluorophenol	30.1		ug/L	71.33		42	10-88				1
Surrogate: Phenol-d5	23.8		ug/L	71.33		33	10-65				1
Surrogate: Nitrobenzene-d5	45.2		ug/L	71.33		63	25-128				1
Surrogate: 2-Fluorobiphenyl	46.6		ug/L	71.33		65	24-114				1
Surrogate: 2,4,6-Tribromophenol	51.0		ug/L	71.33		71	15-119				1
Surrogate: 4-Terphenyl-d14	57.2		ug/L	71.33		80	29-129				1

Matrix Spike Dup (B010881-MSD1)**Source: 2010861-03**

Prepared: 09/29/2020 11:11 Analyzed: 09/30/2020 07:47

1,2,4-Trichlorobenzene	22.5	2.10	ug/L	41.94	ND	54	34-96	7	27		1
1,2-Dichlorobenzene	18.8	2.10	ug/L	41.94	ND	45	32-91	20	29		1
1,3-Dichlorobenzene	17.7	2.10	ug/L	41.94	ND	42	29-90	21	33		1
1,4-Dichlorobenzene	17.6	2.10	ug/L	41.94	ND	42	31-88	23	32		1
2,4,5-Trichlorophenol	33.1	1.05	ug/L	41.94	ND	79	54-120	10	22		1
2,4,6-Trichlorophenol	30.5	1.05	ug/L	41.94	ND	73	51-117	7	33		1
2,4-Dichlorophenol	28.3	1.05	ug/L	41.94	ND	67	33-134	2	21		1
2,4-Dimethylphenol	28.9	2.10	ug/L	41.94	ND	69	17-132	5	23		1
2,4-Dinitrophenol	36.1	31.5	ug/L	41.94	ND	86	1-123	19	43		1
2,4-Dinitrotoluene	33.9	2.10	ug/L	41.94	ND	81	49-124	9	23		1
2,6-Dinitrotoluene	34.3	1.05	ug/L	41.94	ND	82	57-121	9	21		1
2-Chloronaphthalene	28.9	0.629	ug/L	41.94	ND	69	50-101	6	26		1
2-Chlorophenol	23.1	1.05	ug/L	41.94	ND	55	37-107	12	28		1
2-Methylnaphthalene	27.1	4.19	ug/L	41.94	ND	65	35-121	1	27		1
2-Methylphenol	24.2	1.05	ug/L	41.94	ND	58	32-107	6	32		1
2-Nitroaniline	33.4	31.5	ug/L	41.94	ND	80	45-123	10	19		1
2-Nitrophenol	25.3	1.05	ug/L	41.94	ND	60	38-120	6	30		1
3,3'-Dichlorobenzidine	67.4	21.0	ug/L	83.88	ND	80	33-137	6	29		1
3 & 4-Methylphenol	24.2	1.05	ug/L	41.94	ND	58	20-115	2	32		1
3-Nitroaniline	34.2	2.10	ug/L	41.94	ND	81	39-125	8	19		1
4,6-Dinitro-2-methylphenol	30.2	15.7	ug/L	41.94	ND	72	11-132	6	53		1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 10/07/2020**Project:** Milw Die Cast
CHW8271N**Matrix:** Water**Work Order:** 2010861**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B010881 - SW3510 (Continued)**Matrix Spike Dup (B010881-MSD1)** (Continued)**Source: 2010861-03**

Prepared: 09/29/2020 11:11 Analyzed: 09/30/2020 07:47

4-Bromophenyl-phenylether	32.6	1.05	ug/L	41.94	ND	78	56-116	5	18		1
4-Chloro-3-methylphenol	31.3	0.524	ug/L	41.94	ND	75	28-144	5	20		1
4-Chloroaniline	29.9	0.629	ug/L	41.94	ND	71	48-110	0.03	21		1
4-Chlorophenyl-phenylether	33.2	1.05	ug/L	41.94	ND	79	55-106	9	20		1
4-Nitroaniline	33.4	31.5	ug/L	41.94	ND	80	51-123	8	20		1
4-Nitrophenol	16.6	15.7	ug/L	41.94	ND	40	10-81	9	65		1
Acenaphthene	31.5	0.629	ug/L	41.94	ND	75	27-133	8	20		1
Acenaphthylene	30.6	0.629	ug/L	41.94	ND	73	47-113	8	21		1
Anthracene	34.2	0.629	ug/L	41.94	ND	81	61-115	8	20		1
Azobenzene as 1,2-Diphenylhydrazine	33.7	1.05	ug/L	41.94	ND	80	55-119	7	19		1
Benzidine	62.4	83.9	ug/L	83.88	ND	74	10-132	12	30	J	1
Benzo(a)anthracene	33.1	0.629	ug/L	41.94	ND	79	60-125	8	20		1
Benzo(a)pyrene	32.3	2.10	ug/L	41.94	ND	77	66-125	11	20		1
Benzo(b)fluoranthene	33.4	2.10	ug/L	41.94	ND	80	65-128	13	20		1
Benzo(g,h,i)perylene	33.5	2.10	ug/L	41.94	ND	80	62-123	10	20		1
Benzo(k)fluoranthene	33.0	2.10	ug/L	41.94	ND	79	64-122	9	20		1
Benzoic acid	63.5	41.9	ug/L	167.8	ND	38	7-82	76	30	P	1
Benzyl alcohol	26.7	4.19	ug/L	41.94	ND	64	36-110	8	26		1
Bis(2-chloroethoxy)methane	27.4	1.05	ug/L	41.94	ND	65	44-112	0.2	26		1
Bis(2-chloroethyl)ether	23.1	1.05	ug/L	41.94	ND	55	38-104	12	32		1
Bis(2-chloroisopropyl)ether	23.7	1.05	ug/L	41.94	ND	56	35-104	10	32		1
Bis(2-ethylhexyl)phthalate	33.5	21.0	ug/L	41.94	ND	80	52-139	9	19		1
Butyl benzyl phthalate	33.5	1.05	ug/L	41.94	ND	80	55-132	10	20		1
Carbazole	34.3	1.05	ug/L	41.94	ND	82	62-128	8	26		1
Chrysene	33.3	0.629	ug/L	41.94	ND	79	62-116	9	20		1
Dibenzo(a,h)anthracene	33.0	2.10	ug/L	41.94	ND	79	46-143	11	22		1
Dibenzofuran	32.6	0.629	ug/L	41.94	ND	78	53-110	8	20		1
Diethyl phthalate	35.7	6.29	ug/L	41.94	ND	85	58-117	12	20		1
Dimethyl phthalate	33.9	0.629	ug/L	41.94	ND	81	61-106	9	20		1
Di-n-butyl phthalate	34.2	10.5	ug/L	41.94	ND	82	60-132	9	20		1
Di-n-octyl phthalate	32.6	10.5	ug/L	41.94	ND	78	48-135	10	20		1
Fluoranthene	33.7	1.05	ug/L	41.94	ND	80	63-122	8	20		1
Fluorene	33.5	0.629	ug/L	41.94	ND	80	46-125	9	20		1
Hexachlorobenzene	32.5	1.05	ug/L	41.94	ND	77	51-110	7	20		1
Hexachlorobutadiene	20.3	1.05	ug/L	41.94	ND	48	29-94	13	28		1
Hexachlorocyclopentadiene	16.3	15.7	ug/L	41.94	ND	39	9-94	18	42		1
Hexachloroethane	17.5	1.05	ug/L	41.94	ND	42	25-89	21	32		1
Indeno(1,2,3-cd)pyrene	31.9	2.10	ug/L	41.94	ND	76	49-137	9	23		1
Isophorone	29.2	0.629	ug/L	41.94	ND	70	43-110	1	30		1
Naphthalene	23.7	4.19	ug/L	41.94	ND	56	20-163	7	25		1
Nitrobenzene	24.8	0.629	ug/L	41.94	ND	59	39-113	8	30		1
N-Nitrosodimethylamine	16.1	1.05	ug/L	41.94	ND	38	18-90	26	35		1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 10/07/2020**Project:** Milw Die Cast
CHW8271N**Matrix:** Water**Work Order:** 2010861**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B010881 - SW3510 (Continued)**Matrix Spike Dup (B010881-MSD1) (Continued)****Source: 2010861-03**

Prepared: 09/29/2020 11:11 Analyzed: 09/30/2020 07:47

N-Nitrosodi-n-propylamine	29.4	2.10	ug/L	41.94	ND	70	37-116	0.2	27		1
N-Nitrosodiphenylamine	34.2	0.629	ug/L	41.94	ND	82	62-114	7	19		1
Pentachlorophenol	33.6	31.5	ug/L	41.94	ND	80	12-122	11	46		1
Phenanthrene	33.3	1.05	ug/L	41.94	ND	79	41-129	8	19		1
Phenol	14.6	1.05	ug/L	41.94	ND	35	10-68	4	37		1
Pyrene	35.0	1.05	ug/L	41.94	ND	84	59-124	9	20		1
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Surrogate: 2-Fluorophenol	25.2		ug/L	69.90		36	10-88				1
Surrogate: Phenol-d5	22.3		ug/L	69.90		32	10-65				1
Surrogate: Nitrobenzene-d5	42.0		ug/L	69.90		60	25-128				1
Surrogate: 2-Fluorobiphenyl	48.2		ug/L	69.90		69	24-114				1
Surrogate: 2,4,6-Tribromophenol	56.1		ug/L	69.90		80	15-119				1
Surrogate: 4-Terphenyl-d14	63.1		ug/L	69.90		90	29-129				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 10/07/2020**Project:** Milw Die Cast
CHW8271N**Matrix:** Water**Work Order:** 2010861**Subcontracted Analyses**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0J0077 - SW5030**Blank (B0J0077-BLK1)***Prepared: 10/02/2020 07:00 Analyzed: 10/02/2020 11:40*

1,4-Dioxane	< 0.500	0.500	ug/L								1
Surrogate: Toluene-d8	3.75		ug/L	4.000		94	80-120				1

LCS (B0J0077-BS1)*Prepared: 10/02/2020 07:00 Analyzed: 10/02/2020 09:39*

1,4-Dioxane	4.19		ug/L	4.000		105	59-139				1
Surrogate: Toluene-d8	3.71		ug/L	4.000		93	80-120				1

LCS Dup (B0J0077-BSD1)*Prepared: 10/02/2020 07:00 Analyzed: 10/02/2020 10:03*

1,4-Dioxane	4.43		ug/L	4.000		111	59-139	6	20		1
Surrogate: Toluene-d8	3.94		ug/L	4.000		98	80-120				1

Matrix Spike (B0J0077-MS1)**Source: 2010861-03***Prepared: 10/02/2020 07:00 Analyzed: 10/02/2020 10:27*

Surrogate: Toluene-d8	4.22		ug/L	4.000		106	80-120				1
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Matrix Spike Dup (B0J0077-MSD1)**Source: 2010861-03***Prepared: 10/02/2020 07:00 Analyzed: 10/02/2020 10:52*

Surrogate: Toluene-d8	4.21		ug/L	4.000		105	80-120				1
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Certified Analyses included in this Report

Analyte	CAS #	Certifications
SW8082A in Water		
Aroclor 1016	12674-11-2	AKDEC,WDNR,DoD,ILEPA
Aroclor 1016	12674-11-2	AKDEC,WDNR,DoD,ILEPA
Aroclor 1221	11104-28-2	AKDEC,WDNR,DoD,ILEPA
Aroclor 1221	11104-28-2	AKDEC,WDNR,DoD,ILEPA
Aroclor 1232	11141-16-5	AKDEC,WDNR,DoD,ILEPA
Aroclor 1232	11141-16-5	AKDEC,WDNR,DoD,ILEPA
Aroclor 1242	53469-21-9	AKDEC,WDNR,DoD,ILEPA
Aroclor 1242	53469-21-9	AKDEC,WDNR,DoD,ILEPA
Aroclor 1248	12672-29-6	AKDEC,WDNR,DoD,ILEPA
Aroclor 1248	12672-29-6	AKDEC,WDNR,DoD,ILEPA
Aroclor 1254	11097-69-1	AKDEC,WDNR,DoD,ILEPA
Aroclor 1254	11097-69-1	AKDEC,WDNR,DoD,ILEPA
Aroclor 1260	11096-82-5	AKDEC,WDNR,DoD,ILEPA
Aroclor 1260	11096-82-5	AKDEC,WDNR,DoD,ILEPA
Total PCB	1336-36-3	AKDEC,WDNR,DoD,ILEPA
Total PCB	1336-36-3	AKDEC,WDNR,DoD,ILEPA
SW8260B in Water		
1,1,1,2-Tetrachloroethane	630-20-6	WDNR,DoD,ILEPA
1,1,1-Trichloroethane	71-55-6	AKDEC,WDNR,DoD,ILEPA
1,1,2,2-Tetrachloroethane	79-34-5	AKDEC,WDNR,DoD,ILEPA
1,1,2-Trichloroethane	79-00-5	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloroethane	75-34-3	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloroethene	75-35-4	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloropropene	563-58-6	WDNR,DoD,ILEPA
1,2,3-Trichlorobenzene	87-61-6	WDNR,DoD,ILEPA
1,2,3-Trichloropropane	96-18-4	AKDEC,WDNR,DoD,ILEPA
1,2,4-Trimethylbenzene	95-63-6	WDNR,DoD,ILEPA
1,2-Dibromo-3-chloropropane	96-12-8	AKDEC,WDNR,DoD,ILEPA
1,2-Dibromoethane	106-93-4	AKDEC,WDNR,DoD,ILEPA
1,2-Dichloroethane	107-06-2	AKDEC,WDNR,DoD,ILEPA
1,2-Dichloropropane	78-87-5	AKDEC,WDNR,DoD,ILEPA
1,3,5-Trimethylbenzene	108-67-8	WDNR,DoD,ILEPA
1,3-Dichloropropane	142-28-9	WDNR,DoD,ILEPA
2,2-Dichloropropane	594-20-7	WDNR,DoD,ILEPA
2-Butanone	78-93-3	WDNR,DoD,ILEPA
2-Chlorotoluene	95-49-8	WDNR,DoD,ILEPA
2-Hexanone	591-78-6	WDNR,DoD,ILEPA
4-Isopropyltoluene	99-87-6	WDNR,DoD,ILEPA
4-Methyl-2-pentanone	108-10-1	WDNR,DoD,ILEPA
Acetone	67-64-1	WDNR,DoD,ILEPA

Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW8260B in Water (Continued)		
Benzene	71-43-2	AKDEC,WDNR,DoD,ILEPA
Bromobenzene	108-86-1	WDNR,DoD,ILEPA
Bromochloromethane	74-97-5	WDNR,DoD,ILEPA
Bromodichloromethane	75-27-4	AKDEC,WDNR,DoD,ILEPA
Bromoform	75-25-2	AKDEC,WDNR,DoD,ILEPA
Bromomethane	74-83-9	AKDEC,WDNR,DoD,ILEPA
Carbon disulfide	75-15-0	WDNR,DoD,ILEPA
Carbon tetrachloride	56-23-5	AKDEC,WDNR,DoD,ILEPA
Chlorobenzene	108-90-7	AKDEC,WDNR,DoD,ILEPA
Chloroethane	75-00-3	WDNR,DoD,ILEPA
Chloroform	67-66-3	AKDEC,WDNR,DoD,ILEPA
Chloromethane	74-87-3	AKDEC,WDNR,DoD,ILEPA
cis-1,2-Dichloroethene	156-59-2	WDNR,DoD,ILEPA
cis-1,3-Dichloropropene	10061-01-5	AKDEC,WDNR,DoD,ILEPA
Cyclohexane	110-82-7	DoD
Dibromochloromethane	124-48-1	AKDEC,WDNR,DoD,ILEPA
Dibromomethane	74-95-3	WDNR,DoD,ILEPA
Dichlorodifluoromethane	75-71-8	WDNR,DoD,ILEPA
Ethylbenzene	100-41-4	AKDEC,WDNR,DoD,ILEPA
Isopropylbenzene	98-82-8	WDNR,DoD,ILEPA
m,p-Xylene	179601-23-1	AKDEC,WDNR,DoD,ILEPA
Methyl tert-butyl ether	1634-04-4	WDNR,DoD,ILEPA
Methylene chloride	75-09-2	AKDEC,WDNR,DoD,ILEPA
n-Butylbenzene	104-51-8	WDNR,DoD,ILEPA
n-Propylbenzene	103-65-1	WDNR,DoD,ILEPA
o-Xylene	95-47-6	AKDEC,WDNR,DoD,ILEPA
sec-Butylbenzene	135-98-8	WDNR,DoD,ILEPA
Styrene	100-42-5	WDNR,DoD
tert-Butylbenzene	98-06-6	WDNR,DoD,ILEPA
Tetrachloroethene	127-18-4	AKDEC,WDNR,DoD,ILEPA
Toluene	108-88-3	AKDEC,WDNR,DoD,ILEPA
trans-1,2-Dichloroethene	156-60-5	AKDEC,WDNR,DoD,ILEPA
trans-1,3-Dichloropropene	10061-02-6	AKDEC,WDNR,DoD,ILEPA
Trichloroethene	79-01-6	AKDEC,WDNR,DoD,ILEPA
Trichlorofluoromethane	75-69-4	AKDEC,WDNR,DoD,ILEPA
Vinyl chloride	75-01-4	AKDEC,WDNR,DoD,ILEPA
Xylenes, Total	1330-20-7	AKDEC,WDNR,DoD,ILEPA
SW8260-SIM Modified in Water		
1,4-Dioxane	123-91-1	WDNR

SW8270D in Water

Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW8270D in Water (Continued)		
1,2,4-Trichlorobenzene	120-82-1	WDNR,DoD,ILEPA
1,2-Dichlorobenzene	95-50-1	WDNR,DoD,ILEPA
1,3-Dichlorobenzene	541-73-1	WDNR,DoD,ILEPA
1,4-Dichlorobenzene	106-46-7	WDNR,DoD,ILEPA
2,4,5-Trichlorophenol	95-95-4	WDNR,DoD,ILEPA
2,4,6-Trichlorophenol	88-06-2	WDNR,DoD,ILEPA
2,4-Dichlorophenol	120-83-2	WDNR,DoD,ILEPA
2,4-Dimethylphenol	105-67-9	WDNR,DoD,ILEPA
2,4-Dinitrophenol	51-28-5	WDNR,DoD,ILEPA
2,4-Dinitrotoluene	121-14-2	WDNR,DoD,ILEPA
2,6-Dinitrotoluene	606-20-2	WDNR,DoD,ILEPA
2-Chloronaphthalene	91-58-7	WDNR,DoD,ILEPA
2-Chlorophenol	95-57-8	WDNR,DoD,ILEPA
2-Methylnaphthalene	91-57-6	AKDEC,WDNR,DoD,ILEPA
2-Methylphenol	95-48-7	WDNR,DoD,ILEPA
2-Nitroaniline	88-74-4	WDNR,DoD,ILEPA
2-Nitrophenol	88-75-5	WDNR,DoD,ILEPA
3,3'-Dichlorobenzidine	91-94-1	WDNR,DoD,ILEPA
3 & 4-Methylphenol	84989-04-8	WDNR,DoD,ILEPA
3-Nitroaniline	99-09-2	WDNR,DoD,ILEPA
4,6-Dinitro-2-methylphenol	534-52-1	WDNR,DoD,ILEPA
4-Bromophenyl-phenylether	101-55-3	WDNR,DoD,ILEPA
4-Chloro-3-methylphenol	59-50-7	WDNR,DoD,ILEPA
4-Chloroaniline	106-47-8	WDNR,DoD,ILEPA
4-Chlorophenyl-phenylether	7005-72-3	WDNR,DoD,ILEPA
4-Nitroaniline	100-01-6	WDNR,DoD,ILEPA
4-Nitrophenol	100-02-7	WDNR,DoD,ILEPA
Acenaphthene	83-32-9	AKDEC,WDNR,DoD,ILEPA
Acenaphthylene	208-96-8	AKDEC,WDNR,DoD,ILEPA
Anthracene	120-12-7	AKDEC,WDNR,DoD,ILEPA
Azobenzene as 1,2-Diphenylhydrazine	103-33-3	WDNR,DoD,ILEPA
Benzidine	92-87-5	WDNR,DoD,ILEPA
Benzo(a)anthracene	56-55-3	AKDEC,WDNR,DoD,ILEPA
Benzo(a)pyrene	50-32-8	AKDEC,WDNR,DoD,ILEPA
Benzo(b)fluoranthene	205-99-2	AKDEC,WDNR,DoD,ILEPA
Benzo(g,h,i)perylene	191-24-2	AKDEC,WDNR,DoD,ILEPA
Benzo(k)fluoranthene	207-08-9	AKDEC,WDNR,DoD,ILEPA
Benzoic acid	65-85-0	WDNR,DoD,ILEPA
Benzyl alcohol	100-51-6	WDNR,DoD,ILEPA
Bis(2-chloroethoxy)methane	111-91-1	WDNR,DoD,ILEPA
Bis(2-chloroethyl)ether	111-44-4	WDNR,DoD,ILEPA

Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW8270D in Water (Continued)		
Bis(2-chloroisopropyl)ether	108-60-1	WDNR,DoD,ILEPA
Bis(2-ethylhexyl)phthalate	117-81-7	WDNR,DoD,ILEPA,ISO
Butyl benzyl phthalate	85-68-7	WDNR,DoD,ILEPA,ISO
Carbazole	86-74-8	WDNR,DoD,ILEPA
Chrysene	218-01-9	AKDEC,WDNR,DoD,ILEPA
Dibenzo(a,h)anthracene	53-70-3	AKDEC,WDNR,DoD,ILEPA
Dibenzofuran	132-64-9	WDNR,DoD,ILEPA
Diethyl phthalate	84-66-2	WDNR,DoD,ILEPA
Dimethyl phthalate	131-11-3	WDNR,DoD,ILEPA
Di-n-butyl phthalate	84-74-2	WDNR,DoD,ILEPA
Di-n-octyl phthalate	117-84-0	WDNR,DoD,ILEPA,ISO
Fluoranthene	206-44-0	AKDEC,WDNR,DoD,ILEPA
Fluorene	86-73-7	AKDEC,WDNR,DoD,ILEPA
Hexachlorobenzene	118-74-1	WDNR,DoD,ILEPA
Hexachlorobutadiene	87-68-3	WDNR,DoD,ILEPA
Hexachlorocyclopentadiene	77-47-4	WDNR,DoD,ILEPA
Hexachloroethane	67-72-1	WDNR,DoD,ILEPA
Indeno(1,2,3-cd)pyrene	193-39-5	AKDEC,WDNR,DoD,ILEPA
Isophorone	78-59-1	WDNR,DoD,ILEPA
Naphthalene	91-20-3	AKDEC,WDNR,DoD,ILEPA
Nitrobenzene	98-95-3	WDNR,DoD,ILEPA
N-Nitrosodimethylamine	62-75-9	WDNR,DoD,ILEPA
N-Nitrosodi-n-propylamine	621-64-7	DoD,ILEPA
N-Nitrosodiphenylamine	86-30-6	WDNR,DoD,ILEPA
Pentachlorophenol	87-86-5	WDNR,DoD,ILEPA
Phenanthrene	85-01-8	AKDEC,WDNR,DoD,ILEPA
Phenol	108-95-2	WDNR,DoD,ILEPA
Pyrene	129-00-0	AKDEC,WDNR,DoD,ILEPA
SW9060 in Water		
Organic Carbon, Total	7440-44-0	DoD,ILEPA,WDNR

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	17-011	05/31/2022
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L18-184-R1	03/31/2021
DoD	Department of Defense, Accredited by PJLA	L18-183-R3	03/31/2021
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	1002562020-3	07/27/2021
ISO	ISO/IEC 17025, Accredited by PJLA	L18-184-R1	03/31/2021
TX	Texas Commission of Environmental Quality	T104704554-19-4	10/31/2020
WA	Washington State Department of Ecology	C1057	01/05/2021
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2021

Qualifiers and Definitions

Item	Description
E1	Reported concentrations are estimated values, exceeded calibration.
J	The reported result is an estimated value.
J1	The reported result is an estimated value based on discrepancies in the MS/MSD sample (e.g. matrix interference was observed).
J2	The MS/MSD or duplicate recoveries are outside the quality control criteria due to difficult sample matrix.
P	The quality control sample %RPD is above the laboratory control limit.
Q	One or more quality control results were outside of the acceptance limits (e.g. LCS recovery, surrogate spike recovery, or CCV recovery).
S	The quality control sample recovery is outside of the laboratory control limits.
S1	The percent recovery is above the limits (e.g. LCS recovery, surrogate spike recovery, or CCV recovery), but the analyte was not detected in the sample. Data is acceptable.
%Rec	Percent Recovery
MDL	In the state of Wisconsin MDL is equivalent to LOD; in all other applications MDL is equivalent to MDL. In the state of Wisconsin the Reporting Limit is equivalent to LOQ.



ENVIRONMENTAL MONITORING TECHNOLOGIES

509 N. 3rd Avenue
Des Plaines, IL 60016



2010861
PM: Nicole Ryan
Geosyntec DoD
Milw Die Cast

Chain of Custody Record

67-6666
847-967-6735
www.emt.com

TURNAROUND TIME:

- RUSH
 _____ day turnaround
 ROUTINE

Due Date: _____ COC #: **237569**

Company: Geosyntec Consultants
 Address: 10600 Northport Washington Rd
Suite 100
Mequon, WI 53092
 Phone #: (262) 834-0226 Fax #: (____) _____
 P.O. #: _____ Proj. #: CHW8271N
 Client Contact: Jeremiah Sonnsun
 Project ID / Location: CHW8271N (MOCC)

Sample Type:
 1. Waste Water 4. Sludge 7. Groundwater (filtered)
 2. Drinking Water 5. Oil 8. Other
 3. Soil 6. Groundwater

Container Type:
 P - Plastic V - VOC Vial O - Other
 G - Glass B - Tedlar Bag

Preservative:
 1. None 4. NaOH 7. Zn Ace
 2. H2SO4 5. HCl 8. Other
 3. HNO3 6. MeOH

Analyses

VOC
 1,4-dioxane
 Total organic Carbon
 Methane, ethane, ethane
 PCB (Filtered)
 SVOC

EMT USE ONLY

EMT WORKORDER

2010861

Sample I.D.	Sample Type	Container			Sampling					Preservation		Analyses				EMT USE ONLY				
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab	VOC	1,4-dioxane	Total organic Carbon	Methane, ethane, ethane		PCB (Filtered)	SVOC		
MW-1	6	40mL	V	11	MKD	9/25/20	1230	/	/	5		X	X	X	X					OIA-K
MW-1	6/7	1L	G	6	MKD	9/25/20	1230	/	/	1						X	X	X		OIL-O OZ
PZ-1	6	40mL	V	27	CK	9/25/20	1155	/	/	5		X	X	X	X					O3A-AA
PZ-1	6/7	1L	G	9	CK	9/25/20	1155	/	/	1						X	X	X		O3AB-AG04A-C
MW-2	6	40mL	V	11	MKD	9/24/20	1340	/	/	5		X	X	X	X					O5A-K
MW-2	6/7	1L	G	6	MKD	9/24/20	1340	/	/	1						X	X	X		O5L-O O6AB
PZ-2	6	40mL	V	11	CK	9/25/20	0825	/	/	5		X	X	X	X					O7A-K
PZ-2	6/7	1L	G	6	CK	9/25/20	0825	/	/	1						X	X	X		O7L-O O8AB
MW-3	6	40mL	V	11	CK	9/23/20	1100	/	/	5		X	X	X	X					O9A-K
MW-3	6/7	1L	G	3	CK	9/23/20	1100	/	/	1						X	X	X		O9LM 10A

Relinquished By:

Codyan Kelly

Date: 9-25-20
Time: 10:52

Received By:

[Signature]

Date: 9-25-20
Time: 10:52

EMT USE ONLY

Client Code:

EMT Project I.D.

SAMPLE RECEIVED ON ICE

TEMPERATURE

3.3, 1.9, 4.3, 4.8

4.9, 3.7, 4.7

EMT SAMPLE RETURN POLICY ON BACK

Relinquished By:

[Signature]

Date: 9-28-20
Time: 18:15

Received By:

Aquiesha Zabawa

Date: - -
Time: :

EMT Project I.D.

Relinquished By:

Date: - -
Time: :

Received For Lab By:

Date: 09-28-2020
Time: 18:15

EMT Project I.D.

SPECIAL INSTRUCTIONS: PZ-1 has extra volume for MS/MSD



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

509 N. 3rd Avenue
Des Plaines, IL 60016

Chain of Custody Record

847-967-6666
FAX: 847-967-6735
www.emt.com

TURNAROUND TIME:
 RUSH
 ___ day turnaround
 ROUTINE

Due Date: _____ COC #: **237568**

Company: Geosyntec Consultants
 Address: 10600 N. Port Washington Rd
Ste 100
Mequon, WI 53092
 Phone #: 626 834-6226 Fax #: (____)
 P.O. #: _____ Proj. #: CHW8271N
 Client Contact: Jeremiah Johnson
 Project ID / Location: MDC

Sample Type:
 1. *Waste Water 4. Sludge 7. Groundwater (filtered)
 2. Drinking Water 5. Oil 8. Other
 3. Soil 6. Groundwater _____

Container Type:
 P - Plastic V - VOC Vial O - Other
 G - Glass B - Tedlar Bag _____

Preservative:
 1. None 4. NaOH 7. Zn Ace
 2. H₂SO₄ 5. HCl 8. Other
 3. HNO₃ 6. MeOH _____

Analyses

VOC
 1,4-dioxane
 Total organic carbon
 Methylethene, ethene
 PCB (Filtered)
 PCB (UnFiltered)
 SVOC

EMT USE ONLY

EMT WORKORDER # 2010861

Sample I.D.	Sample Type	Container			Sampling					Preservation		VOC	1,4-dioxane	Total organic carbon	Methylethene, ethene	PCB (Filtered)	PCB (UnFiltered)	SVOC	EMT USE ONLY
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab								
MW-14	6	40mL	V	11	MKD	9/23/20	1435	/	/	5		x	x	x	x				31A-K
MW-14	6/7	1 L	G	3	MKD	9/23/20	1435	/	/	1					x	x	x		31LM 32A
TRIP BLANK	8	40mL	V	4	CK			/	/	5		x	x						33A-D
EQUIPMENT BLANK	8	40mL	V	2	CK	9/25/20		/	/	5		x	x						34 AB
<p>CND Codyen Hoeg 09-25-20</p>																			

Relinquished By: <u>Codyen Hoeg</u>	Date: <u>9-23-20</u> Time: <u>10:52</u>	Received By: <u>[Signature]</u>	Date: <u>9-24-20</u> Time: <u>10:52</u>	EMT USE ONLY	<input checked="" type="checkbox"/> SAMPLE RECEIVED ON ICE
Relinquished By: <u>[Signature]</u>	Date: <u>9-26-20</u> Time: <u>12:15</u>	Received By:	Date: - - Time: :	Client Code:	<input type="checkbox"/> TEMPERATURE
Relinquished By:	Date: - - Time: :	Received For Lab By: <u>Agnieszka Zabawa</u>	Date: <u>09-28-2020</u> Time: <u>1815</u>	EMT Project I.D.:	3.3, 1.9, 4.3, 48
				Jar Lot No.:	4.9, 3.7, 4.7

SPECIAL INSTRUCTIONS:

EMT SAMPLE RETURN POLICY ON BACK

Sample Receipt Checklist

Work Order: 2010861

Printed: 9/28/2020 8:36:37PM

Client: **Geosyntec DoD**
 Project: **Milw Die Cast**
 Date Due: **Monday, October 5, 2020**

1

Samples Received at: **3.3 °C**

Received By: **Agnieszka B. Zabawa**
 Logged In By: **Agnieszka B. Zabawa**

Date Received: **09/28/20 18:15**
 Date Logged In: **09/28/20 20:19**

How were samples received?	EMT
Custody Seals Present	Yes
Custody Seals Intact	Yes
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	Yes
Vials Contain > Pea Sized Air Bubble	Yes

<u>Client Sample Name</u>	<u># Vials > Pea Size Bubble</u>
MW-1	8
MW-2	6
PZ-2	3
MW-4	7
MW-8	2
PZ-10	2
MW-12	4
MW-12 DVP	6
MW-14	6

ABZ

09/28/2020

Sample Receipt Checklist

Work Order: 20I0861

Printed: 9/28/2020 8:36:37PM

Client: Geosyntec DoD Project: Milw Die Cast	Date Due: Monday, October 5, 2020
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2

Samples Received at: 1.9 °C

Received By: Agnieszka B. Zabawa
Logged In By: Agnieszka B. Zabawa

Date Received: 09/28/20 18:15
Date Logged In: 09/28/20 20:19

How were samples received?	EMT
Custody Seals Present	Yes
Custody Seals Intact	Yes
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	Yes
Vials Contain > Pea Sized Air Bubble	Yes

Client Sample Name

Vials > Pea Size Bubble

ABZ

09/28/2020

Sample Receipt Checklist

Work Order: 2010861

Printed: 9/28/2020 8:36:37PM

Client: Geosyntec DoD Project: Milw Die Cast	Date Due: Monday, October 5, 2020
-------------------------------------------------	-----------------------------------

3

Samples Received at: 4.3 °C

Received By: Agnieszka B. Zabawa
Logged In By: Agnieszka B. Zabawa

Date Received: 09/28/20 18:15
Date Logged In: 09/28/20 20:19

How were samples received?	EMT
Custody Seals Present	Yes
Custody Seals Intact	Yes
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	Yes
Vials Contain > Pea Sized Air Bubble	Yes

Client Sample Name

Vials > Pea Size Bubble

MBZ

09/28/2020

Sample Receipt Checklist

Work Order: 2010861

Printed: 9/28/2020 8:36:37PM

Client: Geosyntec DoD Project: Milw Die Cast	Date Due: Monday, October 5, 2020
-------------------------------------------------	-----------------------------------

4

Samples Received at: 4.8 °C

Received By: **Agnieszka B. Zabawa**
 Logged In By: **Agnieszka B. Zabawa**

Date Received: **09/28/20 18:15**
 Date Logged In: **09/28/20 20:19**

- | | |
|--------------------------------------|-----|
| How were samples received? | EMT |
| Custody Seals Present | Yes |
| Custody Seals Intact | Yes |
| Sample Containers Intact | Yes |
| COC Present and Complete | Yes |
| COC agrees with Sample Labels | Yes |
| Containers Properly Preserved | Yes |
| Samples Received Within Holdtime | Yes |
| Cooler Temp Within Limits | Yes |
| VOA Water Vials Received | Yes |
| Vials Contain > Pea Sized Air Bubble | Yes |

Client Sample Name

Vials > Pea Size Bubble

ABZ

09/28/2020

Sample Receipt Checklist

Work Order: 2010861

Printed: 9/28/2020 8:36:37PM

Client: Geosyntec DoD Project: Milw Die Cast	Date Due: Monday, October 5, 2020
-------------------------------------------------	-----------------------------------

5

Samples Received at: 4.9 °C

Received By: Agnieszka B. Zabawa
Logged In By: Agnieszka B. Zabawa

Date Received: 09/28/20 18:15
Date Logged In: 09/28/20 20:19

- How were samples received? EMT
- Custody Seals Present Yes
- Custody Seals Intact Yes
- Sample Containers Intact Yes
- COC Present and Complete Yes
- COC agrees with Sample Labels Yes
- Containers Properly Preserved Yes
- Samples Received Within Holdtime Yes
- Cooler Temp Within Limits Yes
- VOA Water Vials Received Yes
- Vials Contain > Pea Sized Air Bubble Yes

Client Sample Name

Vials > Pea Size Bubble

ABZ

09/28/2020

Sample Receipt Checklist

Work Order: 2010861

Printed: 9/28/2020 8:36:37PM

Client: Geosyntec DoD Project: Milw Die Cast	Date Due: Monday, October 5, 2020
-------------------------------------------------	-----------------------------------

6

Samples Received at: 3.7 °C

Received By: Agnieszka B. Zabawa
 Logged In By: Agnieszka B. Zabawa

Date Received: 09/28/20 18:15
 Date Logged In: 09/28/20 20:19

- | | |
|--------------------------------------|-----|
| How were samples received? | EMT |
| Custody Seals Present | Yes |
| Custody Seals Intact | Yes |
| Sample Containers Intact | Yes |
| COC Present and Complete | Yes |
| COC agrees with Sample Labels | Yes |
| Containers Properly Preserved | Yes |
| Samples Received Within Holdtime | Yes |
| Cooler Temp Within Limits | Yes |
| VOA Water Vials Received | Yes |
| Vials Contain > Pea Sized Air Bubble | Yes |

Client Sample Name

Vials > Pea Size Bubble

ABZ

09/28/2020

Sample Receipt Checklist

Work Order: 2010861

Printed: 9/28/2020 8:36:37PM

Client: Geosyntec DoD Project: Milw Die Cast	Date Due: Monday, October 5, 2020
---------------------------------------------------------------	------------------------------------------

7

Samples Received at: 4.7 °C

Received By: **Agnieszka B. Zabawa**
 Logged In By: **Agnieszka B. Zabawa**

Date Received: **09/28/20 18:15**
 Date Logged In: **09/28/20 20:19**

How were samples received?	EMT
Custody Seals Present	Yes
Custody Seals Intact	Yes
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	Yes
Vials Contain > Pea Sized Air Bubble	Yes

Client Sample Name

Vials > Pea Size Bubble

ABZ
 09/28/2020

CUSTODY SEAL **QEC**
Quality Environmental Containers
800-255-3950 • www.qecusa.com
DATE 09-28-20
SIGNATURE Cody [Signature]

CUSTODY SEAL **QEC**
Quality Environmental Containers
800-255-3950 • www.qecusa.com
DATE 09-28-20
SIGNATURE Cody [Signature]

CUSTODY SEAL **QEC**
Quality Environmental Containers
800-255-3950 • www.qecusa.com
DATE 09-28-20
SIGNATURE Cody [Signature]

CUSTODY SEAL **QEC**
Quality Environmental Containers
800-255-3950 • www.qecusa.com
DATE 09-28-20
SIGNATURE Cody [Signature]

CUSTODY SEAL **QEC**
Quality Environmental Containers
800-255-3950 • www.qecusa.com
DATE 09-28-20
SIGNATURE Cody [Signature]

CUSTODY SEAL **QEC**
Quality Environmental Containers
800-255-3950 • www.qecusa.com
DATE 09-28-20
SIGNATURE Cody [Signature]

CUSTODY SEAL **QEC**
Quality Environmental Containers
800-255-3950 • www.qecusa.com
DATE 09-28-20
SIGNATURE Cody [Signature]

CUSTODY SEAL **QEC**
Quality Environmental Containers
800-255-3950 • www.qecusa.com
DATE 09-28-20
SIGNATURE Cody [Signature]

October 12, 2020

Nicole Ryan
Environmental Monitoring & Technologies
8100 North Austin Avenue
Morton Grove, IL 60053

RE: Project: GEOSYNTEC MIL DIE CAST
Pace Project No.: 40216134

Dear Nicole Ryan:

Enclosed are the analytical results for sample(s) received by the laboratory on October 08, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: GEOSYNTEC MIL DIE CAST

Pace Project No.: 40216134

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: GEOSYNTEC MIL DIE CAST
Pace Project No.: 40216134

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40216134001	MW-1	Water	09/25/20 12:30	10/08/20 10:25
40216134002	PZ-1	Water	09/25/20 11:55	10/08/20 10:25
40216134003	MW-2	Water	09/24/20 13:40	10/08/20 10:25
40216134004	PZ-2	Water	09/25/20 08:25	10/08/20 10:25
40216134005	MW-3	Water	09/23/20 11:00	10/08/20 10:25
40216134006	MW-3 DUP	Water	09/23/20 11:00	10/08/20 10:25
40216134007	MW-4	Water	09/24/20 09:55	10/08/20 10:25
40216134008	MW-6	Water	09/25/20 11:05	10/08/20 10:25
40216134009	MW-7	Water	09/24/20 16:05	10/08/20 10:25
40216134010	MW-8	Water	09/24/20 09:55	10/08/20 10:25
40216134011	MW-9	Water	09/24/20 11:55	10/08/20 10:25
40216134012	PZ-10	Water	09/25/20 08:25	10/08/20 10:25
40216134013	MW-12	Water	09/23/20 11:30	10/08/20 10:25
40216134014	MW-12 DUP	Water	09/23/20 11:30	10/08/20 10:25
40216134015	MW-13	Water	09/23/20 14:05	10/08/20 10:25
40216134016	MW-14	Water	09/23/20 14:35	10/08/20 10:25

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SAMPLE ANALYTE COUNT

Project: GEOSYNTEC MIL DIE CAST

Pace Project No.: 40216134

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40216134001	MW-1	EPA 8015B Modified	ALD	3	PASI-G
40216134002	PZ-1	EPA 8015B Modified	ALD	3	PASI-G
40216134003	MW-2	EPA 8015B Modified	ALD	3	PASI-G
40216134004	PZ-2	EPA 8015B Modified	ALD	3	PASI-G
40216134005	MW-3	EPA 8015B Modified	ALD	3	PASI-G
40216134006	MW-3 DUP	EPA 8015B Modified	ALD	3	PASI-G
40216134007	MW-4	EPA 8015B Modified	ALD	3	PASI-G
40216134008	MW-6	EPA 8015B Modified	ALD	3	PASI-G
40216134009	MW-7	EPA 8015B Modified	ALD	3	PASI-G
40216134010	MW-8	EPA 8015B Modified	ALD	3	PASI-G
40216134011	MW-9	EPA 8015B Modified	ALD	3	PASI-G
40216134012	PZ-10	EPA 8015B Modified	ALD	3	PASI-G
40216134013	MW-12	EPA 8015B Modified	ALD	3	PASI-G
40216134014	MW-12 DUP	EPA 8015B Modified	ALD	3	PASI-G
40216134015	MW-13	EPA 8015B Modified	ALD	3	PASI-G
40216134016	MW-14	EPA 8015B Modified	ALD	3	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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SUMMARY OF DETECTION

Project: GEOSYNTEC MIL DIE CAST

Pace Project No.: 40216134

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40216134001	MW-1					
EPA 8015B Modified	Ethene	33.3	ug/L	5.0	10/09/20 09:51	
EPA 8015B Modified	Methane	147	ug/L	2.8	10/09/20 09:51	HS
40216134002	PZ-1					
EPA 8015B Modified	Ethene	1.8J	ug/L	5.0	10/09/20 09:57	
EPA 8015B Modified	Methane	5.0	ug/L	2.8	10/09/20 09:57	HS
40216134003	MW-2					
EPA 8015B Modified	Methane	2.0J	ug/L	2.8	10/09/20 10:04	H1,HS
40216134004	PZ-2					
EPA 8015B Modified	Ethene	2.1J	ug/L	5.6	10/09/20 10:11	
EPA 8015B Modified	Ethene	1.2J	ug/L	5.0	10/09/20 10:11	
EPA 8015B Modified	Methane	26.6	ug/L	2.8	10/09/20 10:11	
40216134005	MW-3					
EPA 8015B Modified	Methane	1.8J	ug/L	2.8	10/09/20 10:18	H3
40216134006	MW-3 DUP					
EPA 8015B Modified	Methane	1.4J	ug/L	2.8	10/09/20 10:25	H3
40216134008	MW-6					
EPA 8015B Modified	Methane	9.4	ug/L	2.8	10/09/20 10:39	HS
40216134009	MW-7					
EPA 8015B Modified	Methane	4.3	ug/L	2.8	10/09/20 10:46	H1
40216134010	MW-8					
EPA 8015B Modified	Methane	0.74J	ug/L	2.8	10/09/20 10:53	H1
40216134011	MW-9					
EPA 8015B Modified	Methane	1.7J	ug/L	2.8	10/09/20 11:11	H1
40216134012	PZ-10					
EPA 8015B Modified	Methane	0.81J	ug/L	2.8	10/09/20 11:18	HS
40216134013	MW-12					
EPA 8015B Modified	Methane	1.1J	ug/L	2.8	10/09/20 11:25	H3
40216134014	MW-12 DUP					
EPA 8015B Modified	Methane	0.81J	ug/L	2.8	10/09/20 11:32	H3
40216134015	MW-13					
EPA 8015B Modified	Methane	1.3J	ug/L	2.8	10/09/20 11:39	H3
40216134016	MW-14					
EPA 8015B Modified	Methane	1.3J	ug/L	2.8	10/09/20 11:46	H3,HS

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GEOSYNTEC MIL DIE CAST

Pace Project No.: 40216134

Sample: MW-1 **Lab ID: 40216134001** Collected: 09/25/20 12:30 Received: 10/08/20 10:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	<1.2	ug/L	5.6	1.2	1		10/09/20 09:51	74-84-0	
Ethene	33.3	ug/L	5.0	1.2	1		10/09/20 09:51	74-85-1	
Methane	147	ug/L	2.8	0.66	1		10/09/20 09:51	74-82-8	HS

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ANALYTICAL RESULTS

Project: GEOSYNTEC MIL DIE CAST

Pace Project No.: 40216134

Sample: PZ-1 **Lab ID: 40216134002** Collected: 09/25/20 11:55 Received: 10/08/20 10:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	<1.2	ug/L	5.6	1.2	1		10/09/20 09:57	74-84-0	
Ethene	1.8J	ug/L	5.0	1.2	1		10/09/20 09:57	74-85-1	
Methane	5.0	ug/L	2.8	0.66	1		10/09/20 09:57	74-82-8	HS

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ANALYTICAL RESULTS

Project: GEOSYNTEC MIL DIE CAST

Pace Project No.: 40216134

Sample: MW-2 **Lab ID: 40216134003** Collected: 09/24/20 13:40 Received: 10/08/20 10:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay							
Ethane	<1.2	ug/L	5.6	1.2	1		10/09/20 10:04	74-84-0	H1
Ethene	<1.2	ug/L	5.0	1.2	1		10/09/20 10:04	74-85-1	H1
Methane	2.0J	ug/L	2.8	0.66	1		10/09/20 10:04	74-82-8	H1,HS

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ANALYTICAL RESULTS

Project: GEOSYNTEC MIL DIE CAST

Pace Project No.: 40216134

Sample: PZ-2 **Lab ID: 40216134004** Collected: 09/25/20 08:25 Received: 10/08/20 10:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	2.1J	ug/L	5.6	1.2	1		10/09/20 10:11	74-84-0	
Ethene	1.2J	ug/L	5.0	1.2	1		10/09/20 10:11	74-85-1	
Methane	26.6	ug/L	2.8	0.66	1		10/09/20 10:11	74-82-8	

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ANALYTICAL RESULTS

Project: GEOSYNTEC MIL DIE CAST

Pace Project No.: 40216134

Sample: MW-3 **Lab ID: 40216134005** Collected: 09/23/20 11:00 Received: 10/08/20 10:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	<1.2	ug/L	5.6	1.2	1		10/09/20 10:18	74-84-0	H3
Ethene	<1.2	ug/L	5.0	1.2	1		10/09/20 10:18	74-85-1	H3
Methane	1.8J	ug/L	2.8	0.66	1		10/09/20 10:18	74-82-8	H3

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ANALYTICAL RESULTS

Project: GEOSYNTEC MIL DIE CAST

Pace Project No.: 40216134

Sample: MW-3 DUP **Lab ID: 40216134006** Collected: 09/23/20 11:00 Received: 10/08/20 10:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay							
Ethane	<1.2	ug/L	5.6	1.2	1		10/09/20 10:25	74-84-0	H3
Ethene	<1.2	ug/L	5.0	1.2	1		10/09/20 10:25	74-85-1	H3
Methane	1.4J	ug/L	2.8	0.66	1		10/09/20 10:25	74-82-8	H3

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ANALYTICAL RESULTS

Project: GEOSYNTEC MIL DIE CAST

Pace Project No.: 40216134

Sample: MW-4 **Lab ID: 40216134007** Collected: 09/24/20 09:55 Received: 10/08/20 10:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay							
Ethane	<1.2	ug/L	5.6	1.2	1		10/09/20 10:32	74-84-0	H1
Ethene	<1.2	ug/L	5.0	1.2	1		10/09/20 10:32	74-85-1	H1
Methane	<0.66	ug/L	2.8	0.66	1		10/09/20 10:32	74-82-8	H1,HS

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ANALYTICAL RESULTS

Project: GEOSYNTEC MIL DIE CAST

Pace Project No.: 40216134

Sample: MW-6 **Lab ID: 40216134008** Collected: 09/25/20 11:05 Received: 10/08/20 10:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay							
Ethane	<1.2	ug/L	5.6	1.2	1		10/09/20 10:39	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		10/09/20 10:39	74-85-1	
Methane	9.4	ug/L	2.8	0.66	1		10/09/20 10:39	74-82-8	HS

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ANALYTICAL RESULTS

Project: GEOSYNTEC MIL DIE CAST

Pace Project No.: 40216134

Sample: MW-7 **Lab ID: 40216134009** Collected: 09/24/20 16:05 Received: 10/08/20 10:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay							
Ethane	<1.2	ug/L	5.6	1.2	1		10/09/20 10:46	74-84-0	H1
Ethene	<1.2	ug/L	5.0	1.2	1		10/09/20 10:46	74-85-1	H1
Methane	4.3	ug/L	2.8	0.66	1		10/09/20 10:46	74-82-8	H1

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ANALYTICAL RESULTS

Project: GEOSYNTEC MIL DIE CAST

Pace Project No.: 40216134

Sample: MW-8 **Lab ID: 40216134010** Collected: 09/24/20 09:55 Received: 10/08/20 10:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay							
Ethane	<1.2	ug/L	5.6	1.2	1		10/09/20 10:53	74-84-0	H1
Ethene	<1.2	ug/L	5.0	1.2	1		10/09/20 10:53	74-85-1	H1
Methane	0.74J	ug/L	2.8	0.66	1		10/09/20 10:53	74-82-8	H1

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ANALYTICAL RESULTS

Project: GEOSYNTEC MIL DIE CAST

Pace Project No.: 40216134

Sample: MW-9 **Lab ID: 40216134011** Collected: 09/24/20 11:55 Received: 10/08/20 10:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay							
Ethane	<1.2	ug/L	5.6	1.2	1		10/09/20 11:11	74-84-0	H1
Ethene	<1.2	ug/L	5.0	1.2	1		10/09/20 11:11	74-85-1	H1
Methane	1.7J	ug/L	2.8	0.66	1		10/09/20 11:11	74-82-8	H1

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ANALYTICAL RESULTS

Project: GEOSYNTEC MIL DIE CAST

Pace Project No.: 40216134

Sample: PZ-10 **Lab ID: 40216134012** Collected: 09/25/20 08:25 Received: 10/08/20 10:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	<1.2	ug/L	5.6	1.2	1		10/09/20 11:18	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		10/09/20 11:18	74-85-1	
Methane	0.81J	ug/L	2.8	0.66	1		10/09/20 11:18	74-82-8	HS

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ANALYTICAL RESULTS

Project: GEOSYNTEC MIL DIE CAST

Pace Project No.: 40216134

Sample: MW-12 **Lab ID: 40216134013** Collected: 09/23/20 11:30 Received: 10/08/20 10:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	<1.2	ug/L	5.6	1.2	1		10/09/20 11:25	74-84-0	H3
Ethene	<1.2	ug/L	5.0	1.2	1		10/09/20 11:25	74-85-1	H3
Methane	1.1J	ug/L	2.8	0.66	1		10/09/20 11:25	74-82-8	H3

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ANALYTICAL RESULTS

Project: GEOSYNTEC MIL DIE CAST

Pace Project No.: 40216134

Sample: MW-12 DUP **Lab ID: 40216134014** Collected: 09/23/20 11:30 Received: 10/08/20 10:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	<1.2	ug/L	5.6	1.2	1		10/09/20 11:32	74-84-0	H3
Ethene	<1.2	ug/L	5.0	1.2	1		10/09/20 11:32	74-85-1	H3
Methane	0.81J	ug/L	2.8	0.66	1		10/09/20 11:32	74-82-8	H3

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ANALYTICAL RESULTS

Project: GEOSYNTEC MIL DIE CAST

Pace Project No.: 40216134

Sample: MW-13 **Lab ID: 40216134015** Collected: 09/23/20 14:05 Received: 10/08/20 10:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	<1.2	ug/L	5.6	1.2	1		10/09/20 11:39	74-84-0	H3
Ethene	<1.2	ug/L	5.0	1.2	1		10/09/20 11:39	74-85-1	H3
Methane	1.3J	ug/L	2.8	0.66	1		10/09/20 11:39	74-82-8	H3

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ANALYTICAL RESULTS

Project: GEOSYNTEC MIL DIE CAST

Pace Project No.: 40216134

Sample: MW-14 **Lab ID: 40216134016** Collected: 09/23/20 14:35 Received: 10/08/20 10:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay							
Ethane	<1.2	ug/L	5.6	1.2	1		10/09/20 11:46	74-84-0	H3
Ethene	<1.2	ug/L	5.0	1.2	1		10/09/20 11:46	74-85-1	H3
Methane	1.3J	ug/L	2.8	0.66	1		10/09/20 11:46	74-82-8	H3,HS

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GEOSYNTEC MIL DIE CAST
Pace Project No.: 40216134

QC Batch:	367804	Analysis Method:	EPA 8015B Modified
QC Batch Method:	EPA 8015B Modified	Analysis Description:	Methane, Ethane, Ethene GCV
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40216134001, 40216134002, 40216134003, 40216134004, 40216134005, 40216134006, 40216134007, 40216134008, 40216134009, 40216134010, 40216134011, 40216134012, 40216134013, 40216134014, 40216134015, 40216134016

METHOD BLANK: 2126060 Matrix: Water
Associated Lab Samples: 40216134001, 40216134002, 40216134003, 40216134004, 40216134005, 40216134006, 40216134007, 40216134008, 40216134009, 40216134010, 40216134011, 40216134012, 40216134013, 40216134014, 40216134015, 40216134016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<1.2	5.6	10/09/20 09:09	
Ethene	ug/L	<1.2	5.0	10/09/20 09:09	
Methane	ug/L	<0.66	2.8	10/09/20 09:09	

LABORATORY CONTROL SAMPLE & LCSD: 2126061 2126062

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	53.6	52.8	54.2	99	101	80-120	3	20	
Ethene	ug/L	50	48.5	49.8	97	100	80-120	3	20	
Methane	ug/L	28.6	27.9	28.9	98	101	79-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2126063 2126064

Parameter	Units	40216134002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	<1.2	53.6	53.6	54.8	56.3	102	105	79-120	3	20	
Ethene	ug/L	1.8J	50	50	52.5	53.7	101	104	79-120	2	20	
Methane	ug/L	5.0	28.6	28.6	36.8	37.7	111	114	10-200	2	20 HS	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: GEOSYNTEC MIL DIE CAST

Pace Project No.: 40216134

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H1 Analysis conducted outside the recognized method holding time.

H3 Sample was received or analysis requested beyond the recognized method holding time.

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GEOSYNTEC MIL DIE CAST
Pace Project No.: 40216134

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40216134001	MW-1	EPA 8015B Modified	367804		
40216134002	PZ-1	EPA 8015B Modified	367804		
40216134003	MW-2	EPA 8015B Modified	367804		
40216134004	PZ-2	EPA 8015B Modified	367804		
40216134005	MW-3	EPA 8015B Modified	367804		
40216134006	MW-3 DUP	EPA 8015B Modified	367804		
40216134007	MW-4	EPA 8015B Modified	367804		
40216134008	MW-6	EPA 8015B Modified	367804		
40216134009	MW-7	EPA 8015B Modified	367804		
40216134010	MW-8	EPA 8015B Modified	367804		
40216134011	MW-9	EPA 8015B Modified	367804		
40216134012	PZ-10	EPA 8015B Modified	367804		
40216134013	MW-12	EPA 8015B Modified	367804		
40216134014	MW-12 DUP	EPA 8015B Modified	367804		
40216134015	MW-13	EPA 8015B Modified	367804		
40216134016	MW-14	EPA 8015B Modified	367804		

REPORT OF LABORATORY ANALYSIS

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ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

509 N. 3rd Avenue
Des Plaines, IL 60016

1 of 2

Chain of Custody Record

847-967-6666
FAX: 847-967-6735
www.emt.com

40216134

TURNAROUND TIME:
 RUSH
 ___ day turnaround
 ROUTINE

Due Date: ___ - ___ - ___ COC #: **239533**

Company: EMT
 Address: 509 N 3rd Ave
Des Plaines IL 60016

Phone #: 847-324-3326 Fax #: () -
 P.O. #: 61977 Proj. #: _____

Client Contact: NICK RYAN nryan@emt.com
 Project ID / Location: Geosyntec Mill Die Cast

Sample Type:
 1. Waste Water 4. Sludge 7. Groundwater (filtered)
 2. Drinking Water 5. Oil 8. Other
 3. Soil 6. Groundwater

Container Type:
 P - Plastic V - VOC Vial O - Other
 G - Glass B - Tedlar Bag

Preservative:
 1. None 4. NaOH 7. Zn Ace
 2. H₂SO₄ 5. HCl 8. Other
 3. HNO₃ 6. MeOH

Analyses

EMT
USE
ONLY

EMT
WORKORDER

6015 Methanetetramine

001
002
003
004
005
006
007
008
009
010

Sample I.D.	Sample Type	Container			Sampling					Preservation		Field	Lab
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab		
MW-1	6					9/25	1230					X	
PZ-1	6					9/25	1155					X	
MW-2	6					9/24	1340					X	
PZ-2	6					9/25	0825					X	
MW-3	6					9/23	1100					X	
MW-3 DUP	6					9/23	1100					X	
MW-4	6					9/24	0955					X	
MW-6	6					9/25	1105					X	
MW-7	6					9/24	1605					X	
MW-8	6					9/24	0955					X	

MW-MSD

Relinquished By: <u>[Signature]</u>	Date: <u>10-07-20</u>	Received By: _____	Date: - -	EMT USE ONLY
Relinquished By: <u>[Signature]</u>	Date: <u>10-8-20</u>	Received By: <u>[Signature]</u>	Date: <u>10-8-20</u>	Client Code:
Relinquished By: _____	Date: - -	Received For Lab By: _____	Date: - -	EMT Project I.D.
	Time: :		Time: :	Jar Lot No.

SAMPLE RECEIVED ON ICE
 TEMPERATURE

EMT SAMPLE RETURN POLICY ON BACK

SPECIAL INSTRUCTIONS:

PZ-1 → meth MS/MSD



**ENVIRONMENTAL
MONITORING AND
TECHNOLOGIES, INC.**

509 N. 3rd Avenue
Des Plaines, IL 60016

Chain of Custody Record

2 of 2

40216134

TURNAROUND TIME:
 RUSH
____ day turnaround
 ROUTINE

847-967-6666
FAX: 847-967-6735
www.emt.com

Due Date: _____ COC #: **239531**

Page 26 of 28

Company: EMT
Address: 509 N 3rd Ave
Des Plaines, IL 60016
Phone #: (815) 324-3320 Fax #: (____) _____
P.O. #: 61977 Proj. #: _____
Client Contact: Nicki Ryan nryan@emt.com
Project ID / Location: Geosyntec Mt. Die Cast

Sample Type:
1. Waste Water 4. Sludge 7. Groundwater (filtered)
2. Drinking Water 5. Oil 8. Other
3. Sill 6. Groundwater _____

Container Type:
P - Plastic V - VOC Vial O - Other
G - Glass B - Tedlar Bag _____

Preservative:
1. None 4. NaOH 7. Zn Ace
2. H₂SO₄ 5. HCl 8. Other
3. HNO₃ 6. MeOH _____

Analyses

EMT
USE
ONLY

EMT
WORKORDER

DO NOT WRITE BELOW

Sample I.D.	Sample Type	Container			Sampling				Preservation		Field	Lab	
		Size	Type	No.	By	Date	Time	pH	Temp.				
<u>MW-9</u>	<u>6</u>					<u>9/24</u>	<u>1155</u>					<u>X</u>	
<u>PZ-10</u>	<u>6</u>					<u>9/25</u>	<u>0825</u>					<u>X</u>	
<u>MW-12</u>	<u>6</u>					<u>9/23</u>	<u>1130</u>					<u>X</u>	
<u>MW-12 DUP</u>	<u>6</u>					<u>9/23</u>	<u>1130</u>					<u>X</u>	
<u>MW-13</u>	<u>6</u>					<u>9/23</u>	<u>1405</u>					<u>X</u>	
<u>MW-14</u>	<u>6</u>					<u>9/23</u>	<u>1435</u>					<u>X</u>	

Relinquished By: <u>Muller</u>	Date: <u>10-07-20</u>	Received By:	Date: - -	EMT USE ONLY
Relinquished By: <u>UPS</u>	Date: <u>10-8-20</u>	Received By: <u>M. J. Sae</u>	Date: <u>10-8-20</u>	Client Code:
Relinquished By:	Date: - -	Received For Lab By:	Date: - -	EMT Project I.D.
	Time: :		Time: :25	Jar Lot No.
	Time: :		Time: :	

SAMPLE RECEIVED ON ICE
 TEMPERATURE

EMT SAMPLE RETURN POLICY ON BACK

SPECIAL INSTRUCTIONS:

Sample Preservation Receipt Form

Client Name: EMT

Project # 40216134

All containers needing preservation have been checked and noted below: Yes No N/A

Initial when completed:

Date/Time:

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass							Plastic					Vials				Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)					
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU								SP5T	ZPLC	GN		
001																2																			2.5 / 5 / 10
002																2																			2.5 / 5 / 10
003																2																			2.5 / 5 / 10
004																2																			2.5 / 5 / 10
005																2																			2.5 / 5 / 10
006																2																			2.5 / 5 / 10
007																2																			2.5 / 5 / 10
008																2																			2.5 / 5 / 10
009																2																			2.5 / 5 / 10
010																2																			2.5 / 5 / 10
011																2																			2.5 / 5 / 10
012																2																			2.5 / 5 / 10
013																2																			2.5 / 5 / 10
014																2																			2.5 / 5 / 10
015																2																			2.5 / 5 / 10
016																2																			2.5 / 5 / 10
017																																			2.5 / 5 / 10
018																																			2.5 / 5 / 10
019																																			2.5 / 5 / 10
020																																			2.5 / 5 / 10

10/18/20
VP


Exceptions to preservation check: VOA Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziptloc bag
GN	

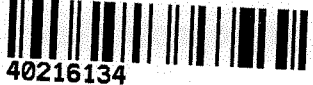
 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: EIMT
Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____

Project #: _____

WO#: 40216134



40216134

Tracking #: 12 873 FOR NT 9342 8032
Custody Seal on Cooler/Box Present: yes no **Seals intact:** yes no
Custody Seal on Samples Present: yes no **Seals intact:** yes no
Packing Material: Bubble Wrap Bubble Bags None Other
Thermometer Used SR - 86 **Type of Ice:** Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature Uncorr: 1 ICorr: 1.5

Temp Blank Present: yes no **Biological Tissue is Frozen:** yes no
 Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
 Date: 10/8/20 Initials: HP
 Labeled By Initials: SRK

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	4.	<u>Subwork</u> <u>10/8/20</u>
Samples Arrived within Hold Time: - VOA Samples frozen upon receipt	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	5.	<u>per pm notified past Hold time -</u> <u>10/8/20</u>
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.	
Sufficient Volume: For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		8.	
Correct Containers Used: -Pace Containers Used: -Pace IR Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9.	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: <u>W</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
Trip Blank Present: Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.	
Pace Trip Blank Lot # (if purchased):			

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

PM Review is documented electronically in LIMS. By releasing the project, the PM acknowledges they have reviewed the sample logir

Memorandum

Date: January 4, 2021
To: Jeremiah Johnson
From: Matthew Richardson
CC: J. Caprio
Subject: **Stage 2A Data Validation – Level II Data Deliverable –
Environmental Monitoring and Technologies Work Order #20I0861**

SITE: Milwaukee Die Casting Company Site, Milwaukee, WI

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of fourteen water samples, two field duplicate samples, one equipment blank and one trip blank collected between September 23 and 25, 2020, during a Milwaukee Die Casting Company Site sampling event. The analyses were performed by Environmental Monitoring and Technologies (EMT), Inc, Des Plaines, Illinois. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by United States Environmental Protection Agency (US EPA) Methods 5030/8260B
- 1,4-Dioxane by US EPA Methods 5030/8260B using Selective Ion Monitoring (SIM)
- Semi-volatile Organic Compounds (SVOCs) by US EPA Methods 3510/8270D
- Polychlorinated Biphenyls (PCBs) by US EPA Methods 3510/8082A
- Total Organic Carbon (TOC) by US EPA Method 9060

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the pertinent methods referenced by the data package, professional and technical judgment and the following documents:

- Updated Site Investigation Work Plan, Milwaukee Die Casting Company Site, 4132 North Holton Street. Milwaukee, Wisconsin, November 12, 2019
- US EPA National Functional Guidelines for Organic Superfund Methods Data Review, January 2017 (USEPA-540-R-2017-002)

The following samples were analyzed in the data set and validated at a Stage 2A level:

Laboratory ID	Client ID
20I0861-01	MW-1
20I0861-02	MW-1
20I0861-03	PZ-1
20I0861-04	PZ-1
20I0861-05	MW-2
20I0861-06	MW-2
20I0861-07	PZ-2
20I0861-08	PZ-2
20I0861-09	MW-3
20I0861-10	MW-3
20I0861-11	MW-3 DUP
20I0861-12	MW-3 DUP
20I0861-13	MW-4
20I0861-14	MW-4
20I0861-15	MW-6
20I0861-16	MW-6
20I0861-17	MW-7

Laboratory ID	Client ID
20I0861-18	MW-7
20I0861-19	MW-8
20I0861-20	MW-8
20I0861-21	MW-9
20I0861-22	MW-9
20I0861-23	PZ-10
20I0861-24	PZ-10
20I0861-25	MW-12
20I0861-26	MW-12
20I0861-27	MW-12 DUP
20I0861-28	MW-12 DUP
20I0861-29	MW-13
20I0861-30	MW-13
20I0861-31	MW-14
20I0861-32	MW-14
20I0861-33	Trip Blank
20I0861-34	Equipment Blank

The samples were received at the laboratory at 1.9-4.9°C within the temperature criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

Collection times were not documented on the chain of custody (COC) for the trip blank and equipment blank. The trip blank and equipment blank were logged in with the collection times of 00:00.

A collection date was not documented on the COC for the trip blank. The trip blank was logged in with the collection date of 9/23/20.

Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

For the PCB analyses, the samples were collected in duplicates consisting of one field filtered sample and one unfiltered sample each.

The laboratory report was revised on December 11, 2020 to remove unnecessary laboratory flags for the TOC concentration in sample PZ-1. The pdf was identified as 20I0861 EMT_Default FINAL 10 07 20 1551 R1.

1.0 VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE

The samples were analyzed for VOCs per US EPA Methods 5030/8260 and 1,4-dioxane by US EPA Methods 5030/8260 using SIM.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine the impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Trip Blank
- ⊗ Surrogates
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

1.1.1 Completeness

The VOC and 1,4-dioxane data reported in this package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for the sample set is 100%.

1.1.2 Analysis Anomaly

The laboratory report indicated the percent difference (%D) for acetone in the continuing calibration verification (CCV) standard in batch B0I0944 was outside the method specified acceptance criteria, with a high bias. Since acetone was not detected in the associated samples, no qualifications were applied to the data.

The laboratory narrative indicated the internal standard recovery for the 1,4-dioxane analysis of sample MW-1 was high and outside the laboratory specified acceptance criteria. Since 1,4-dioxane was not detected in sample MW-1, no qualifications were applied to the data.

1.2 Holding Times

The holding time for the VOC and 1,4-dioxane analyses of a preserved water sample is 14 days from collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches B0I0944, B0J0079 and B0J0077). VOCs and 1,4-dioxane were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Two sample set specific MS/MSD pairs were reported, both using sample PZ-1. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of cis-1,2-dichloroethene in the MS/MSD pair using sample PZ-1 were low and outside the laboratory specified acceptance criteria. Therefore, the cis-1,2-dichloroethene concentration in sample PZ-1 was J qualified as estimated.

The recoveries of tetrachloroethene in the MS/MSD pair using sample PZ-1 were low and outside the laboratory specified acceptance criteria. Based on the difference between the spike and sample concentrations and professional and technical judgment, no qualifications were applied to the data.

Sample	Analyte	Laboratory Result (µg/L)	Laboratory Flag	Validation Result (µg/L)	Validation Qualifier*	Reason Code**
PZ-1	cis-1,2-Dichloroethene	128	J1	128	J	4

µg/L-micrograms per liter

J1-laboratory flag indicating the reported result is an estimated value based on discrepancies in the MS/MSD sample

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCS/LCS duplicate (LCSD) pairs were reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

1.6 Trip Blank

One trip blank was submitted with the sample set, Trip Blank. VOCs were not detected in the trip blank above the MDLs.

1.7 Surrogates

The surrogate recoveries were within the laboratory specified acceptance criteria, with the following exceptions.

The surrogate recovery of toluene-d8 for the 1,4-dioxane analysis of sample MW-7 was high and outside the laboratory specified acceptance criteria. Since 1,4-dioxane was not detected in sample MW-7, no qualifications were applied to the data.

The surrogate recovery of toluene-d8 for the 1,4-dioxane analysis of sample MW-1 was low and outside the laboratory specified acceptance criteria. Therefore, the non-detect 1,4-dioxane result was UJ qualified as estimated less than the LOD.

Sample	Analyte	Laboratory Result (µg/L)	Laboratory Flag	Validation Result (µg/L)	Validation Qualifier*	Reason Code**
MW-1	1,4-Dioxane	0.200	U	0.200	UJ	6

µg/L-micrograms per liter

U-not detected at a concentration greater than or equal to the MDL

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.8 Equipment Blank

One equipment blank was collected with the sample set, Equipment Blank. VOCs were not detected in the equipment blank above the MDLs.

1.9 Field Duplicate

Two field duplicate samples, MW-3 DUP and MW-12 DUP were collected with the sample set. Acceptable precision (RPD<30%) was demonstrated between the field duplicates and the original samples, MW-3 and MW-12, respectively.

1.10 Sensitivity

The samples were assessed to the MDLs and reported to the limit of detections (LODs). Elevated non-detect results were not reported.

1.11 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The internal standard recoveries for the 1,4-dioxane analyses were included in the EDD but were not included in the level II report. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs per US EPA Methods 3510/8270.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine the impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Blank
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for the data set is 100%.

2.2 Holding Times

The holding times for the SVOC analysis of water samples are seven days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch B0I0881). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample PZ-1. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exception.

The RPD result for benzoic acid in the MS/MSD pair was high and outside the laboratory specified acceptance criteria. Since benzoic acid was not detected in sample PZ-1, no qualifications were applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

The surrogate recoveries were within the laboratory specified acceptance criteria.

2.7 Equipment Blank

One equipment blank was collected with the sample set, Equipment Blank. The equipment blank was not analyzed for SVOCs and 1,4-dioxane.

2.8 Field Duplicate

Two field duplicate samples, MW-3 DUP and MW-12 DUP were collected with the sample set. Acceptable precision (RPD<30%) was demonstrated between the field duplicates and the original samples, MW-3 and MW-12, respectively.

2.9 Sensitivity

The sample was assessed to the MDLs and reported to the LODs. Elevated non-detect results were not reported.

2.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs per US EPA Methods 3510/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Assessment of Total PCBs vs. Filtered PCBs
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this package are considered to be usable for supporting project objectives. The results are considered to be valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for the project is 100%.

3.2 Holding Times

The holding times for the PCB analysis of a water sample are 7 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches B0I0902 and B0I0905). PCBs were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported for total PCBs and dissolved PCBs each, both using sample PZ-1. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The MS recovery and RPD result for dissolved PCB-1016 in the MS/MSD pair using sample PZ-1 were high and outside the laboratory specified acceptance criteria. Since the associated dissolved PCBs in sample PZ-1 were not detected, no qualifications were applied to the data.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Surrogates

The surrogate recoveries were within the laboratory specified acceptance criteria, with the following exception.

The surrogate recovery of decachlorobiphenyl for the dissolved PCB analysis of sample MW-3 was high and outside the laboratory specified acceptance criteria. Since the recovery of the remaining surrogate, 2,4,5,6-tetrachloro-m-xylene, was within the laboratory specified acceptance criteria and based on professional and technical judgment, no qualifications were applied to the data.

3.7 Equipment Blank

One equipment blank was collected with the sample set, Equipment Blank. The equipment blank was not analyzed for PCBs.

3.8 Field Duplicate

Two field duplicate samples, MW-3 DUP and MW-12 DUP were collected with the sample set. Acceptable precision ($RPD \leq 30\%$) was demonstrated between the field duplicates and the original samples, MW-3 and MW-12, respectively.

3.9 Assessment of Total PCB vs. Dissolved PCB

The samples were analyzed for both total and dissolved PCBs. The concentrations of total PCBs were greater than or equal to the concentrations of dissolved PCBs in the samples.

3.10 Sensitivity

The samples were assessed to the MDLs and reported to the LODs. Elevated non-detect results were not reported.

3.11 Electronic Data Deliverable Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

4.0 TOTAL ORGANIC CARBON

The samples were analyzed for TOC by US EPA method 9060A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Duplicate
- ⊗ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The TOC data reported in this package are considered usable for supporting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for the sample set is 100%.

4.2 Holding Times

The holding time for the TOC analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four method blanks were reported, all from batch B0J0227. TOC was not detected in the method blanks above the MDLs, with the following exceptions.

TOC was detected in the method blanks in B0J0227-BLK4 and B0J0227-BLK6 at estimated concentrations greater than the MDL and less than the reporting limit (RL). Since TOC was detected at concentrations greater than the RLs in the associated samples, no qualifications were applied to the data.

4.4 Matrix Spike/Matrix Spike Duplicate

Two sample set specific MS/MSD pairs were reported, using samples PZ-1 and MW-4. The recovery and RPD results were within the laboratory specified acceptance criteria.

4.5 Laboratory Duplicate

Laboratory duplicates were not reported with the sample set.

4.6 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

Two method reporting limit (MRL) standards were reported. The recovery result for B0J0227-MRL1 was within the laboratory specified acceptance criteria. The recovery of TOC in B0J0227-MRL2 was high and outside the laboratory specified acceptance criteria. Therefore, the TOC concentrations in the associated samples were J qualified as estimated.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
MW-1	TOC	3.25	NA	3.25	J	5
PZ-1	TOC	3.92	J	3.92	J	5
MW-2	TOC	1.93	NA	1.93	J	5
PZ-2	TOC	2.98	NA	2.98	J	5
MW-3	TOC	3.83	NA	3.83	J	5
MW-3 DUP	TOC	3.82	NA	3.82	J	5
MW-4	TOC	10.8	NA	10.8	J	5
MW-6	TOC	6.84	NA	6.84	J	5
MW-7	TOC	3.05	NA	3.05	J	5
MW-8	TOC	3.88	NA	3.88	J	5
MW-9	TOC	3.85	NA	3.85	J	5
PZ-10	TOC	2.13	NA	2.13	J	5
MW-12	TOC	2.75	NA	2.75	J	5
MW-12 DUP	TOC	2.44	NA	2.44	J	5

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
MW-13	TOC	2.39	NA	2.39	J	5
MW-14	TOC	2.84	NA	2.84	J	5

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

NA-not applicable

4.7 Equipment Blank

One equipment blank was collected with the sample set, Equipment Blank. The equipment blank was not analyzed for TOC.

4.8 Field Duplicate

Two field duplicate samples, MW-3 DUP and MW-12 DUP were collected with the sample set. Acceptable precision ($RPD \leq 30\%$) was demonstrated between the field duplicates and the original samples, MW-3 and MW-12, respectively.

4.9 Sensitivity

The samples were assessed to the MDLs and reported to the LODs. Elevated non-detect results were not reported.

4.10 Electronic Data Deliverable (EDD) Review

Results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Analytical Report

Jeremiah Johnson
Geosyntec Consultants
10600 N. Port Washington Rd.
Mequon, WI 53092

November 12, 2020

Work Order: 20J0958

RE: Milw Die Cast

Dear Jeremiah Johnson:

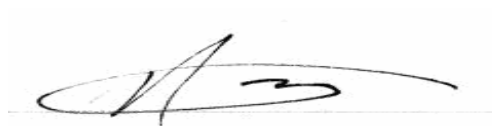
Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,



Nicole Ryan
Federal Project Manager
847.967.6666
nryan@emt.com
Approved for release: 11/12/2020 10:41:31AM

Approved by,



Nathan Fey
Laboratory Operations Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Wisconsin Dept of Natural Resources, Cert No. 999888890

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Sample Summary

<u>Sample ID</u>	<u>Laboratory ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
MW-5	20J0958-01	Groundwater	10/29/20 08:45	10/30/20 12:20
MW-5 (F)	20J0958-02	Groundwater	10/29/20 08:45	10/30/20 12:20
MW-10	20J0958-03	Groundwater	10/29/20 10:36	10/30/20 12:20
MW-10 (F)	20J0958-04	Groundwater	10/29/20 10:36	10/30/20 12:20
MW-11	20J0958-05	Groundwater	10/29/20 09:57	10/30/20 12:20
Trip Blank	20J0958-06	Water	10/30/20 00:00	10/30/20 12:20

Case Narrative

Client: Geosyntec Consultants

Date: 11/12/2020

Project: Milw Die Cast

Work Order: 20J0958

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 20J0958

The samples were received on 10/30/20 12:20. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was:

<u>Cooler</u>	<u>Temp C°</u>
Default Cooler	4.9

Custody seal broken by EMT Technician to ice down samples.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Client Sample Results

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 20J0958

Client Sample ID: MW-5
Report Date: 11/12/2020
Collection Date: 10/29/2020 08:45
Matrix: Groundwater
Lab ID: 20J0958-01

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Limit									
Wet Chemistry												
Method: SW9060												
Organic Carbon, Total	3.86	1.00			mg/L	0.400	0.800	11/03/20 23:37	B0K0081	TB2	1	
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.617	1.23			ug/L	0.262	0.617	11/09/20 18:42	B0K0016	CS2	1	
Aroclor 1221	< 0.617	0.741			ug/L	0.236	0.617	11/09/20 18:42	B0K0016	CS2	1	
Aroclor 1232	< 0.617	0.741			ug/L	0.200	0.617	11/09/20 18:42	B0K0016	CS2	1	
Aroclor 1242	< 1.23	2.47			ug/L	0.433	1.23	11/09/20 18:42	B0K0016	CS2	1	
Aroclor 1248	< 0.617	0.741			ug/L	0.197	0.617	11/09/20 18:42	B0K0016	CS2	1	
Aroclor 1254	< 0.617	0.741			ug/L	0.217	0.617	11/09/20 18:42	B0K0016	CS2	1	
Aroclor 1260	< 0.370	0.494			ug/L	0.139	0.370	11/09/20 18:42	B0K0016	CS2	1	
Total PCB	< 0.617	0.741			ug/L	0.236	0.617	11/09/20 18:42	B0K0016	CS2	1	
Surrogate: Decachlorobiphenyl					Recovery: 79%		Limits: 10-139		11/09/20 18:42	B0K0016	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene					Recovery: 56%		Limits: 26-107		11/09/20 18:42	B0K0016	CS2	1
Volatile Organic Compounds by GC/MS												
Method: SW8260B / SW5030												
1,1,1,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.706	2.00	11/02/20 16:58	B0K0079	WZZ	1	
1,1,1-Trichloroethane	< 2.00	4.00			ug/L	0.719	2.00	11/02/20 16:58	B0K0079	WZZ	1	
1,1,2,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.713	2.00	11/02/20 16:58	B0K0079	WZZ	1	
1,1,2-Trichloroethane	< 0.600	2.00			ug/L	0.198	0.600	11/02/20 16:58	B0K0079	WZZ	1	
1,1-Dichloroethane	< 2.00	4.00			ug/L	0.691	2.00	11/02/20 16:58	B0K0079	WZZ	1	
1,1-Dichloroethene	< 4.00	8.00			ug/L	1.10	4.00	11/02/20 16:58	B0K0079	WZZ	1	
1,1-Dichloropropene	< 1.00	2.00			ug/L	0.462	1.00	11/02/20 16:58	B0K0079	WZZ	1	
1,2,3-Trichlorobenzene	< 0.600	2.00			ug/L	0.199	0.600	11/02/20 16:58	B0K0079	WZZ	1	
1,2,3-Trichloropropane	< 2.00	4.00			ug/L	0.598	2.00	11/02/20 16:58	B0K0079	WZZ	1	
1,2,4-Trimethylbenzene	< 2.00	4.00			ug/L	0.753	2.00	11/02/20 16:58	B0K0079	WZZ	1	
1,2-Dibromo-3-chloropropane	< 4.00	8.00			ug/L	1.22	4.00	11/02/20 16:58	B0K0079	WZZ	1	
1,2-Dibromoethane	< 1.00	2.00			ug/L	0.420	1.00	11/02/20 16:58	B0K0079	WZZ	1	
1,2-Dichloroethane	< 2.00	4.00			ug/L	0.731	2.00	11/02/20 16:58	B0K0079	WZZ	1	
1,2-Dichloropropane	< 2.00	4.00			ug/L	0.557	2.00	11/02/20 16:58	B0K0079	WZZ	1	
1,3,5-Trimethylbenzene	< 1.00	2.00			ug/L	0.351	1.00	11/02/20 16:58	B0K0079	WZZ	1	
1,3-Dichloropropane	< 1.00	2.00			ug/L	0.345	1.00	11/02/20 16:58	B0K0079	WZZ	1	
2,2-Dichloropropane	< 4.00	8.00			ug/L	1.03	4.00	11/02/20 16:58	B0K0079	WZZ	1	
2-Butanone	< 14.0	28.0			ug/L	4.79	14.0	11/02/20 16:58	B0K0079	WZZ	1	
2-Chlorotoluene	< 1.00	2.00			ug/L	0.384	1.00	11/02/20 16:58	B0K0079	WZZ	1	
2-Hexanone	< 14.0	28.0			ug/L	4.74	14.0	11/02/20 16:58	B0K0079	WZZ	1	
4-Isopropyltoluene	< 2.00	4.00			ug/L	0.930	2.00	11/02/20 16:58	B0K0079	WZZ	1	
4-Methyl-2-pentanone	< 14.0	28.0			ug/L	4.40	14.0	11/02/20 16:58	B0K0079	WZZ	1	
Acetone	< 28.0	70.0	Q, S1		ug/L	9.21	28.0	11/02/20 16:58	B0K0079	WZZ	1	
Benzene	< 1.00	2.00			ug/L	0.362	1.00	11/02/20 16:58	B0K0079	WZZ	1	
Bromobenzene	< 1.00	2.00			ug/L	0.354	1.00	11/02/20 16:58	B0K0079	WZZ	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 20J0958

Client Sample ID: MW-5
Report Date: 11/12/2020
Collection Date: 10/29/2020 08:45
Matrix: Groundwater
Lab ID: 20J0958-01 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	11/02/20 16:58	B0K0079	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	11/02/20 16:58	B0K0079	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	11/02/20 16:58	B0K0079	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	11/02/20 16:58	B0K0079	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	11/02/20 16:58	B0K0079	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	11/02/20 16:58	B0K0079	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	11/02/20 16:58	B0K0079	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	11/02/20 16:58	B0K0079	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	11/02/20 16:58	B0K0079	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	11/02/20 16:58	B0K0079	WZZ	1
cis-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.652	2.00	11/02/20 16:58	B0K0079	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	11/02/20 16:58	B0K0079	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	11/02/20 16:58	B0K0079	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	11/02/20 16:58	B0K0079	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	11/02/20 16:58	B0K0079	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	11/02/20 16:58	B0K0079	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	11/02/20 16:58	B0K0079	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	11/02/20 16:58	B0K0079	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	11/02/20 16:58	B0K0079	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	11/02/20 16:58	B0K0079	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	11/02/20 16:58	B0K0079	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	11/02/20 16:58	B0K0079	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	11/02/20 16:58	B0K0079	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	11/02/20 16:58	B0K0079	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	11/02/20 16:58	B0K0079	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	11/02/20 16:58	B0K0079	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	11/02/20 16:58	B0K0079	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	11/02/20 16:58	B0K0079	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	11/02/20 16:58	B0K0079	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	11/02/20 16:58	B0K0079	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	11/02/20 16:58	B0K0079	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	11/02/20 16:58	B0K0079	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	11/02/20 16:58	B0K0079	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	11/02/20 16:58	B0K0079	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	11/02/20 16:58	B0K0079	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 101%</i>	<i>Limits: 84-137</i>		<i>11/02/20 16:58</i>	<i>B0K0079</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 99%</i>	<i>Limits: 74-140</i>		<i>11/02/20 16:58</i>	<i>B0K0079</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 96%</i>	<i>Limits: 90-105</i>		<i>11/02/20 16:58</i>	<i>B0K0079</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 97%</i>	<i>Limits: 74-109</i>		<i>11/02/20 16:58</i>	<i>B0K0079</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 112%</i>	<i>Limits: 86-128</i>		<i>11/02/20 16:58</i>	<i>B0K0079</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 95%</i>	<i>Limits: 90-128</i>		<i>11/02/20 16:58</i>	<i>B0K0079</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 20J0958

Client Sample ID: MW-5
Report Date: 11/12/2020
Collection Date: 10/29/2020 08:45
Matrix: Groundwater
Lab ID: 20J0958-01 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Semivolatile Organic Compounds by GC/MS											
Method: SW8270D / SW3510											
1,2,4-Trichlorobenzene	< 1.05	2.10			ug/L	0.294	1.05	11/05/20 13:03	B0K0092	CP1	1
1,2-Dichlorobenzene	< 1.05	2.10			ug/L	0.315	1.05	11/05/20 13:03	B0K0092	CP1	1
1,3-Dichlorobenzene	< 1.05	2.10			ug/L	0.326	1.05	11/05/20 13:03	B0K0092	CP1	1
1,4-Dichlorobenzene	< 1.05	2.10			ug/L	0.294	1.05	11/05/20 13:03	B0K0092	CP1	1
2,4,5-Trichlorophenol	< 0.526	1.05			ug/L	0.136	0.526	11/05/20 13:03	B0K0092	CP1	1
2,4,6-Trichlorophenol	< 0.526	1.05			ug/L	0.256	0.526	11/05/20 13:03	B0K0092	CP1	1
2,4-Dichlorophenol	< 0.526	1.05			ug/L	0.0828	0.526	11/05/20 13:03	B0K0092	CP1	1
2,4-Dimethylphenol	< 1.05	2.10			ug/L	0.123	1.05	11/05/20 13:03	B0K0092	CP1	1
2,4-Dinitrophenol	< 10.5	31.5			ug/L	3.48	10.5	11/05/20 13:03	B0K0092	CP1	1
2,4-Dinitrotoluene	< 1.05	2.10			ug/L	0.265	1.05	11/05/20 13:03	B0K0092	CP1	1
2,6-Dinitrotoluene	< 0.526	1.05			ug/L	0.242	0.526	11/05/20 13:03	B0K0092	CP1	1
2-Chloronaphthalene	< 0.315	0.631			ug/L	0.111	0.315	11/05/20 13:03	B0K0092	CP1	1
2-Chlorophenol	< 0.526	1.05			ug/L	0.161	0.526	11/05/20 13:03	B0K0092	CP1	1
2-Methylnaphthalene	< 2.10	4.21			ug/L	0.673	2.10	11/05/20 13:03	B0K0092	CP1	1
2-Methylphenol	< 0.526	1.05			ug/L	0.192	0.526	11/05/20 13:03	B0K0092	CP1	1
2-Nitroaniline	< 10.5	31.5			ug/L	2.69	10.5	11/05/20 13:03	B0K0092	CP1	1
2-Nitrophenol	< 0.526	1.05			ug/L	0.220	0.526	11/05/20 13:03	B0K0092	CP1	1
3,3'-Dichlorobenzidine	< 10.5	21.0			ug/L	3.33	10.5	11/05/20 13:03	B0K0092	CP1	1
3 & 4-Methylphenol	< 0.526	1.05			ug/L	0.188	0.526	11/05/20 13:03	B0K0092	CP1	1
3-Nitroaniline	< 1.05	2.10			ug/L	0.378	1.05	11/05/20 13:03	B0K0092	CP1	1
4,6-Dinitro-2-methylphenol	< 5.26	15.8			ug/L	2.58	5.26	11/05/20 13:03	B0K0092	CP1	1
4-Bromophenyl-phenylether	< 0.526	1.05			ug/L	0.168	0.526	11/05/20 13:03	B0K0092	CP1	1
4-Chloro-3-methylphenol	< 0.210	0.526			ug/L	0.0750	0.210	11/05/20 13:03	B0K0092	CP1	1
4-Chloroaniline	< 0.315	0.631			ug/L	0.112	0.315	11/05/20 13:03	B0K0092	CP1	1
4-Chlorophenyl-phenylether	< 0.526	1.05			ug/L	0.153	0.526	11/05/20 13:03	B0K0092	CP1	1
4-Nitroaniline	< 10.5	31.5			ug/L	3.97	10.5	11/05/20 13:03	B0K0092	CP1	1
4-Nitrophenol	< 5.26	15.8			ug/L	1.51	5.26	11/05/20 13:03	B0K0092	CP1	1
Acenaphthene	< 0.315	0.631			ug/L	0.109	0.315	11/05/20 13:03	B0K0092	CP1	1
Acenaphthylene	< 0.315	0.631			ug/L	0.137	0.315	11/05/20 13:03	B0K0092	CP1	1
Anthracene	< 0.315	0.631			ug/L	0.117	0.315	11/05/20 13:03	B0K0092	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.315	1.05			ug/L	0.0806	0.315	11/05/20 13:03	B0K0092	CP1	1
Benzidine	< 42.1	84.1			ug/L	17.4	42.1	11/05/20 13:03	B0K0092	CP1	1
Benzo(a)anthracene	< 0.315	0.631			ug/L	0.130	0.315	11/05/20 13:03	B0K0092	CP1	1
Benzo(a)pyrene	< 1.05	2.10			ug/L	0.395	1.05	11/05/20 13:03	B0K0092	CP1	1
Benzo(b)fluoranthene	< 1.05	2.10			ug/L	0.391	1.05	11/05/20 13:03	B0K0092	CP1	1
Benzo(g,h,i)perylene	< 1.05	2.10			ug/L	0.420	1.05	11/05/20 13:03	B0K0092	CP1	1
Benzo(k)fluoranthene	< 0.526	2.10			ug/L	0.262	0.526	11/05/20 13:03	B0K0092	CP1	1
Benzoic acid	< 25.2	42.1			ug/L	12.3	25.2	11/05/20 13:03	B0K0092	CP1	1
Benzyl alcohol	< 2.10	4.21			ug/L	0.578	2.10	11/05/20 13:03	B0K0092	CP1	1
Bis(2-chloroethoxy)methane	< 0.526	1.05			ug/L	0.142	0.526	11/05/20 13:03	B0K0092	CP1	1
Bis(2-chloroethyl)ether	< 0.526	1.05			ug/L	0.185	0.526	11/05/20 13:03	B0K0092	CP1	1
Bis(2-chloroisopropyl)ether	< 0.526	1.05			ug/L	0.135	0.526	11/05/20 13:03	B0K0092	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.5	21.0			ug/L	3.82	10.5	11/05/20 13:03	B0K0092	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 20J0958

Client Sample ID: MW-5
Report Date: 11/12/2020
Collection Date: 10/29/2020 08:45
Matrix: Groundwater
Lab ID: 20J0958-01 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS (Continued)										
Method: SW8270D / SW3510 (Continued)										
Butyl benzyl phthalate	< 0.526	1.05		ug/L	0.246	0.526	11/05/20 13:03	B0K0092	CP1	1
Carbazole	< 0.526	1.05		ug/L	0.182	0.526	11/05/20 13:03	B0K0092	CP1	1
Chrysene	< 0.315	0.631		ug/L	0.133	0.315	11/05/20 13:03	B0K0092	CP1	1
Dibenzo(a,h)anthracene	< 1.05	2.10		ug/L	0.464	1.05	11/05/20 13:03	B0K0092	CP1	1
Dibenzofuran	< 0.315	0.631		ug/L	0.129	0.315	11/05/20 13:03	B0K0092	CP1	1
Diethyl phthalate	< 3.15	6.31		ug/L	1.22	3.15	11/05/20 13:03	B0K0092	CP1	1
Dimethyl phthalate	< 0.315	0.631		ug/L	0.0928	0.315	11/05/20 13:03	B0K0092	CP1	1
Di-n-butyl phthalate	< 6.31	10.5		ug/L	3.03	6.31	11/05/20 13:03	B0K0092	CP1	1
Di-n-octyl phthalate	< 5.26	10.5		ug/L	1.99	5.26	11/05/20 13:03	B0K0092	CP1	1
Fluoranthene	< 0.526	1.05		ug/L	0.206	0.526	11/05/20 13:03	B0K0092	CP1	1
Fluorene	< 0.315	0.631		ug/L	0.130	0.315	11/05/20 13:03	B0K0092	CP1	1
Hexachlorobenzene	< 0.526	1.05		ug/L	0.173	0.526	11/05/20 13:03	B0K0092	CP1	1
Hexachlorobutadiene	< 0.526	1.05		ug/L	0.263	0.526	11/05/20 13:03	B0K0092	CP1	1
Hexachlorocyclopentadiene	< 5.26	15.8		ug/L	2.30	5.26	11/05/20 13:03	B0K0092	CP1	1
Hexachloroethane	< 0.526	1.05		ug/L	0.231	0.526	11/05/20 13:03	B0K0092	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.05	2.10		ug/L	0.528	1.05	11/05/20 13:03	B0K0092	CP1	1
Isophorone	< 0.315	0.631		ug/L	0.116	0.315	11/05/20 13:03	B0K0092	CP1	1
Naphthalene	< 2.10	4.21		ug/L	0.858	2.10	11/05/20 13:03	B0K0092	CP1	1
Nitrobenzene	< 0.315	0.631		ug/L	0.147	0.315	11/05/20 13:03	B0K0092	CP1	1
N-Nitrosodimethylamine	< 0.526	1.05		ug/L	0.164	0.526	11/05/20 13:03	B0K0092	CP1	1
N-Nitrosodi-n-propylamine	< 1.05	2.10		ug/L	0.335	1.05	11/05/20 13:03	B0K0092	CP1	1
N-Nitrosodiphenylamine	< 0.315	0.631		ug/L	0.109	0.315	11/05/20 13:03	B0K0092	CP1	1
Pentachlorophenol	< 10.5	31.5		ug/L	2.65	10.5	11/05/20 13:03	B0K0092	CP1	1
Phenanthrene	< 0.526	1.05		ug/L	0.217	0.526	11/05/20 13:03	B0K0092	CP1	1
Phenol	< 0.526	1.05		ug/L	0.179	0.526	11/05/20 13:03	B0K0092	CP1	1
Pyrene	< 0.526	1.05		ug/L	0.219	0.526	11/05/20 13:03	B0K0092	CP1	1
Surrogate: 2-Fluorophenol				Recovery: 41%	Limits: 10-88		11/05/20 13:03	B0K0092	CP1	1
Surrogate: Phenol-d5				Recovery: 37%	Limits: 10-65		11/05/20 13:03	B0K0092	CP1	1
Surrogate: Nitrobenzene-d5				Recovery: 65%	Limits: 25-128		11/05/20 13:03	B0K0092	CP1	1
Surrogate: 2-Fluorobiphenyl				Recovery: 57%	Limits: 24-114		11/05/20 13:03	B0K0092	CP1	1
Surrogate: 2,4,6-Tribromophenol				Recovery: 66%	Limits: 15-119		11/05/20 13:03	B0K0092	CP1	1
Surrogate: 4-Terphenyl-d14				Recovery: 75%	Limits: 29-129		11/05/20 13:03	B0K0092	CP1	1

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500		ug/L	0.0625	0.200	11/03/20 11:00	B0K0078	CP1	1
Surrogate: Toluene-d8				Recovery: 107%	Limits: 80-120		11/03/20 11:00	B0K0078	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 20J0958

Client Sample ID: MW-5 (F)
Report Date: 11/12/2020
Collection Date: 10/29/2020 08:45
Matrix: Groundwater
Lab ID: 20J0958-02

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit										
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.527	1.05			ug/L	0.224	0.527	11/09/20 18:08	B0K0016	CS2	1	
Aroclor 1221	< 0.527	0.633			ug/L	0.202	0.527	11/09/20 18:08	B0K0016	CS2	1	
Aroclor 1232	< 0.527	0.633			ug/L	0.171	0.527	11/09/20 18:08	B0K0016	CS2	1	
Aroclor 1242	< 1.05	2.11			ug/L	0.370	1.05	11/09/20 18:08	B0K0016	CS2	1	
Aroclor 1248	< 0.527	0.633			ug/L	0.169	0.527	11/09/20 18:08	B0K0016	CS2	1	
Aroclor 1254	< 0.527	0.633			ug/L	0.185	0.527	11/09/20 18:08	B0K0016	CS2	1	
Aroclor 1260	< 0.316	0.422			ug/L	0.118	0.316	11/09/20 18:08	B0K0016	CS2	1	
Total PCB	< 0.527	0.633			ug/L	0.202	0.527	11/09/20 18:08	B0K0016	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 91%		Limits: 10-139		11/09/20 18:08	B0K0016	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 64%		Limits: 26-107		11/09/20 18:08	B0K0016	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 20J0958

Client Sample ID: MW-10
Report Date: 11/12/2020
Collection Date: 10/29/2020 10:36
Matrix: Groundwater
Lab ID: 20J0958-03

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Limit									
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.546	1.09			ug/L	0.232	0.546	11/09/20 18:25	B0K0016	CS2	1	
Aroclor 1221	< 0.546	0.655			ug/L	0.209	0.546	11/09/20 18:25	B0K0016	CS2	1	
Aroclor 1232	< 0.546	0.655			ug/L	0.177	0.546	11/09/20 18:25	B0K0016	CS2	1	
Aroclor 1242	< 1.09	2.18			ug/L	0.382	1.09	11/09/20 18:25	B0K0016	CS2	1	
Aroclor 1248	< 0.546	0.655			ug/L	0.174	0.546	11/09/20 18:25	B0K0016	CS2	1	
Aroclor 1254	< 0.546	0.655			ug/L	0.192	0.546	11/09/20 18:25	B0K0016	CS2	1	
Aroclor 1260	< 0.327	0.436			ug/L	0.122	0.327	11/09/20 18:25	B0K0016	CS2	1	
Total PCB	< 0.546	0.655			ug/L	0.209	0.546	11/09/20 18:25	B0K0016	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 92%		Limits: 10-139		11/09/20 18:25	B0K0016	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 64%		Limits: 26-107		11/09/20 18:25	B0K0016	CS2	1

Volatile Organic Compounds by GC/MS

Method: SW8260B / SW5030

1,1,1,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.706	2.00	11/02/20 17:24	B0K0079	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00			ug/L	0.719	2.00	11/02/20 17:24	B0K0079	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.713	2.00	11/02/20 17:24	B0K0079	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00			ug/L	0.198	0.600	11/02/20 17:24	B0K0079	WZZ	1
1,1-Dichloroethane	< 2.00	4.00			ug/L	0.691	2.00	11/02/20 17:24	B0K0079	WZZ	1
1,1-Dichloroethene	< 4.00	8.00			ug/L	1.10	4.00	11/02/20 17:24	B0K0079	WZZ	1
1,1-Dichloropropene	< 1.00	2.00			ug/L	0.462	1.00	11/02/20 17:24	B0K0079	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00			ug/L	0.199	0.600	11/02/20 17:24	B0K0079	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00			ug/L	0.598	2.00	11/02/20 17:24	B0K0079	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00			ug/L	0.753	2.00	11/02/20 17:24	B0K0079	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00			ug/L	1.22	4.00	11/02/20 17:24	B0K0079	WZZ	1
1,2-Dibromoethane	< 1.00	2.00			ug/L	0.420	1.00	11/02/20 17:24	B0K0079	WZZ	1
1,2-Dichloroethane	< 2.00	4.00			ug/L	0.731	2.00	11/02/20 17:24	B0K0079	WZZ	1
1,2-Dichloropropane	< 2.00	4.00			ug/L	0.557	2.00	11/02/20 17:24	B0K0079	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00			ug/L	0.351	1.00	11/02/20 17:24	B0K0079	WZZ	1
1,3-Dichloropropane	< 1.00	2.00			ug/L	0.345	1.00	11/02/20 17:24	B0K0079	WZZ	1
2,2-Dichloropropane	< 4.00	8.00			ug/L	1.03	4.00	11/02/20 17:24	B0K0079	WZZ	1
2-Butanone	< 14.0	28.0			ug/L	4.79	14.0	11/02/20 17:24	B0K0079	WZZ	1
2-Chlorotoluene	< 1.00	2.00			ug/L	0.384	1.00	11/02/20 17:24	B0K0079	WZZ	1
2-Hexanone	< 14.0	28.0			ug/L	4.74	14.0	11/02/20 17:24	B0K0079	WZZ	1
4-Isopropyltoluene	< 2.00	4.00			ug/L	0.930	2.00	11/02/20 17:24	B0K0079	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0			ug/L	4.40	14.0	11/02/20 17:24	B0K0079	WZZ	1
Acetone	< 28.0	70.0	Q, S1		ug/L	9.21	28.0	11/02/20 17:24	B0K0079	WZZ	1
Benzene	< 1.00	2.00			ug/L	0.362	1.00	11/02/20 17:24	B0K0079	WZZ	1
Bromobenzene	< 1.00	2.00			ug/L	0.354	1.00	11/02/20 17:24	B0K0079	WZZ	1
Bromochloromethane	< 2.00	4.00			ug/L	0.861	2.00	11/02/20 17:24	B0K0079	WZZ	1
Bromodichloromethane	< 1.00	2.00			ug/L	0.458	1.00	11/02/20 17:24	B0K0079	WZZ	1
Bromoform	< 2.00	4.00			ug/L	0.570	2.00	11/02/20 17:24	B0K0079	WZZ	1
Bromomethane	< 4.00	8.00			ug/L	1.61	4.00	11/02/20 17:24	B0K0079	WZZ	1
Carbon disulfide	< 2.00	4.00			ug/L	0.739	2.00	11/02/20 17:24	B0K0079	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 20J0958

Client Sample ID: MW-10
Report Date: 11/12/2020
Collection Date: 10/29/2020 10:36
Matrix: Groundwater
Lab ID: 20J0958-03 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	11/02/20 17:24	B0K0079	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	11/02/20 17:24	B0K0079	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	11/02/20 17:24	B0K0079	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	11/02/20 17:24	B0K0079	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	11/02/20 17:24	B0K0079	WZZ	1
cis-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.652	2.00	11/02/20 17:24	B0K0079	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	11/02/20 17:24	B0K0079	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	11/02/20 17:24	B0K0079	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	11/02/20 17:24	B0K0079	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	11/02/20 17:24	B0K0079	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	11/02/20 17:24	B0K0079	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	11/02/20 17:24	B0K0079	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	11/02/20 17:24	B0K0079	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	11/02/20 17:24	B0K0079	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	11/02/20 17:24	B0K0079	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	11/02/20 17:24	B0K0079	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	11/02/20 17:24	B0K0079	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	11/02/20 17:24	B0K0079	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	11/02/20 17:24	B0K0079	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	11/02/20 17:24	B0K0079	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	11/02/20 17:24	B0K0079	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	11/02/20 17:24	B0K0079	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	11/02/20 17:24	B0K0079	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	11/02/20 17:24	B0K0079	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	11/02/20 17:24	B0K0079	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	11/02/20 17:24	B0K0079	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	11/02/20 17:24	B0K0079	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	11/02/20 17:24	B0K0079	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	11/02/20 17:24	B0K0079	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	11/02/20 17:24	B0K0079	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 99%</i>	<i>Limits: 84-137</i>		<i>11/02/20 17:24</i>	<i>B0K0079</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 101%</i>	<i>Limits: 74-140</i>		<i>11/02/20 17:24</i>	<i>B0K0079</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 101%</i>	<i>Limits: 90-105</i>		<i>11/02/20 17:24</i>	<i>B0K0079</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 93%</i>	<i>Limits: 74-109</i>		<i>11/02/20 17:24</i>	<i>B0K0079</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 107%</i>	<i>Limits: 86-128</i>		<i>11/02/20 17:24</i>	<i>B0K0079</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 95%</i>	<i>Limits: 90-128</i>		<i>11/02/20 17:24</i>	<i>B0K0079</i>	<i>WZZ</i>	<i>1</i>



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Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 20J0958

Client Sample ID: MW-10
Report Date: 11/12/2020
Collection Date: 10/29/2020 10:36
Matrix: Groundwater
Lab ID: 20J0958-03 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit									
Subcontracted Analyses											
Method: SW8260-SIM Modified / SW5030											
1,4-Dioxane	< 0.200	0.500			ug/L	0.0625	0.200	11/03/20 11:24	B0K0078	CP1	1
Surrogate: Toluene-d8				Recovery: 110%		Limits: 80-120		11/03/20 11:24	B0K0078	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 20J0958

Client Sample ID: MW-10 (F)
Report Date: 11/12/2020
Collection Date: 10/29/2020 10:36
Matrix: Groundwater
Lab ID: 20J0958-04

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Limit									
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.512	1.02			ug/L	0.217	0.512	11/09/20 18:42	B0K0016	CS2	1	
Aroclor 1221	< 0.512	0.615			ug/L	0.196	0.512	11/09/20 18:42	B0K0016	CS2	1	
Aroclor 1232	< 0.512	0.615			ug/L	0.166	0.512	11/09/20 18:42	B0K0016	CS2	1	
Aroclor 1242	< 1.02	2.05			ug/L	0.359	1.02	11/09/20 18:42	B0K0016	CS2	1	
Aroclor 1248	< 0.512	0.615			ug/L	0.164	0.512	11/09/20 18:42	B0K0016	CS2	1	
Aroclor 1254	< 0.512	0.615			ug/L	0.180	0.512	11/09/20 18:42	B0K0016	CS2	1	
Aroclor 1260	< 0.307	0.410			ug/L	0.115	0.307	11/09/20 18:42	B0K0016	CS2	1	
Total PCB	< 0.512	0.615			ug/L	0.196	0.512	11/09/20 18:42	B0K0016	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 95%		Limits: 10-139		11/09/20 18:42	B0K0016	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 67%		Limits: 26-107		11/09/20 18:42	B0K0016	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 20J0958

Client Sample ID: MW-11
Report Date: 11/12/2020
Collection Date: 10/29/2020 09:57
Matrix: Groundwater
Lab ID: 20J0958-05

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Limit									
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.533	1.07			ug/L	0.226	0.533	11/09/20 18:59	B0K0016	CS2	1	
Aroclor 1221	< 0.533	0.640			ug/L	0.204	0.533	11/09/20 18:59	B0K0016	CS2	1	
Aroclor 1232	< 0.533	0.640			ug/L	0.173	0.533	11/09/20 18:59	B0K0016	CS2	1	
Aroclor 1242	< 1.07	2.13			ug/L	0.374	1.07	11/09/20 18:59	B0K0016	CS2	1	
Aroclor 1248	< 0.533	0.640			ug/L	0.171	0.533	11/09/20 18:59	B0K0016	CS2	1	
Aroclor 1254	< 0.533	0.640			ug/L	0.187	0.533	11/09/20 18:59	B0K0016	CS2	1	
Aroclor 1260	< 0.320	0.427			ug/L	0.120	0.320	11/09/20 18:59	B0K0016	CS2	1	
Total PCB	< 0.533	0.640			ug/L	0.204	0.533	11/09/20 18:59	B0K0016	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 84%		Limits: 10-139		11/09/20 18:59	B0K0016	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 54%		Limits: 26-107		11/09/20 18:59	B0K0016	CS2	1
Volatile Organic Compounds by GC/MS												
Method: SW8260B / SW5030												
1,1,1,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.706	2.00	11/02/20 17:49	B0K0079	WZZ	1	
1,1,1-Trichloroethane	< 2.00	4.00			ug/L	0.719	2.00	11/02/20 17:49	B0K0079	WZZ	1	
1,1,2,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.713	2.00	11/02/20 17:49	B0K0079	WZZ	1	
1,1,2-Trichloroethane	< 0.600	2.00			ug/L	0.198	0.600	11/02/20 17:49	B0K0079	WZZ	1	
1,1-Dichloroethane	< 2.00	4.00			ug/L	0.691	2.00	11/02/20 17:49	B0K0079	WZZ	1	
1,1-Dichloroethene	< 4.00	8.00			ug/L	1.10	4.00	11/02/20 17:49	B0K0079	WZZ	1	
1,1-Dichloropropene	< 1.00	2.00			ug/L	0.462	1.00	11/02/20 17:49	B0K0079	WZZ	1	
1,2,3-Trichlorobenzene	< 0.600	2.00			ug/L	0.199	0.600	11/02/20 17:49	B0K0079	WZZ	1	
1,2,3-Trichloropropane	< 2.00	4.00			ug/L	0.598	2.00	11/02/20 17:49	B0K0079	WZZ	1	
1,2,4-Trimethylbenzene	< 2.00	4.00			ug/L	0.753	2.00	11/02/20 17:49	B0K0079	WZZ	1	
1,2-Dibromo-3-chloropropane	< 4.00	8.00			ug/L	1.22	4.00	11/02/20 17:49	B0K0079	WZZ	1	
1,2-Dibromoethane	< 1.00	2.00			ug/L	0.420	1.00	11/02/20 17:49	B0K0079	WZZ	1	
1,2-Dichloroethane	< 2.00	4.00			ug/L	0.731	2.00	11/02/20 17:49	B0K0079	WZZ	1	
1,2-Dichloropropane	< 2.00	4.00			ug/L	0.557	2.00	11/02/20 17:49	B0K0079	WZZ	1	
1,3,5-Trimethylbenzene	< 1.00	2.00			ug/L	0.351	1.00	11/02/20 17:49	B0K0079	WZZ	1	
1,3-Dichloropropane	< 1.00	2.00			ug/L	0.345	1.00	11/02/20 17:49	B0K0079	WZZ	1	
2,2-Dichloropropane	< 4.00	8.00			ug/L	1.03	4.00	11/02/20 17:49	B0K0079	WZZ	1	
2-Butanone	< 14.0	28.0			ug/L	4.79	14.0	11/02/20 17:49	B0K0079	WZZ	1	
2-Chlorotoluene	< 1.00	2.00			ug/L	0.384	1.00	11/02/20 17:49	B0K0079	WZZ	1	
2-Hexanone	< 14.0	28.0			ug/L	4.74	14.0	11/02/20 17:49	B0K0079	WZZ	1	
4-Isopropyltoluene	< 2.00	4.00			ug/L	0.930	2.00	11/02/20 17:49	B0K0079	WZZ	1	
4-Methyl-2-pentanone	< 14.0	28.0			ug/L	4.40	14.0	11/02/20 17:49	B0K0079	WZZ	1	
Acetone	< 28.0	70.0	Q, S1		ug/L	9.21	28.0	11/02/20 17:49	B0K0079	WZZ	1	
Benzene	< 1.00	2.00			ug/L	0.362	1.00	11/02/20 17:49	B0K0079	WZZ	1	
Bromobenzene	< 1.00	2.00			ug/L	0.354	1.00	11/02/20 17:49	B0K0079	WZZ	1	
Bromochloromethane	< 2.00	4.00			ug/L	0.861	2.00	11/02/20 17:49	B0K0079	WZZ	1	
Bromodichloromethane	< 1.00	2.00			ug/L	0.458	1.00	11/02/20 17:49	B0K0079	WZZ	1	
Bromoform	< 2.00	4.00			ug/L	0.570	2.00	11/02/20 17:49	B0K0079	WZZ	1	
Bromomethane	< 4.00	8.00			ug/L	1.61	4.00	11/02/20 17:49	B0K0079	WZZ	1	
Carbon disulfide	< 2.00	4.00			ug/L	0.739	2.00	11/02/20 17:49	B0K0079	WZZ	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 20J0958

Client Sample ID: MW-11
Report Date: 11/12/2020
Collection Date: 10/29/2020 09:57
Matrix: Groundwater
Lab ID: 20J0958-05 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Method: SW8260B / SW5030 (Continued)										
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	11/02/20 17:49	B0K0079	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	11/02/20 17:49	B0K0079	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	11/02/20 17:49	B0K0079	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	11/02/20 17:49	B0K0079	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	11/02/20 17:49	B0K0079	WZZ	1
cis-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.652	2.00	11/02/20 17:49	B0K0079	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	11/02/20 17:49	B0K0079	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	11/02/20 17:49	B0K0079	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	11/02/20 17:49	B0K0079	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	11/02/20 17:49	B0K0079	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	11/02/20 17:49	B0K0079	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	11/02/20 17:49	B0K0079	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	11/02/20 17:49	B0K0079	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	11/02/20 17:49	B0K0079	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	11/02/20 17:49	B0K0079	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	11/02/20 17:49	B0K0079	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	11/02/20 17:49	B0K0079	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	11/02/20 17:49	B0K0079	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	11/02/20 17:49	B0K0079	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	11/02/20 17:49	B0K0079	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	11/02/20 17:49	B0K0079	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	11/02/20 17:49	B0K0079	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	11/02/20 17:49	B0K0079	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	11/02/20 17:49	B0K0079	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	11/02/20 17:49	B0K0079	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	11/02/20 17:49	B0K0079	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	11/02/20 17:49	B0K0079	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	11/02/20 17:49	B0K0079	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	11/02/20 17:49	B0K0079	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	11/02/20 17:49	B0K0079	WZZ	1
Surrogate: Dibromofluoromethane				Recovery: 98%	Limits: 84-137		11/02/20 17:49	B0K0079	WZZ	1
Surrogate: 1,2-Dichloroethane-d4				Recovery: 98%	Limits: 74-140		11/02/20 17:49	B0K0079	WZZ	1
Surrogate: Fluorobenzene				Recovery: 101%	Limits: 90-105		11/02/20 17:49	B0K0079	WZZ	1
Surrogate: Toluene-d8				Recovery: 97%	Limits: 74-109		11/02/20 17:49	B0K0079	WZZ	1
Surrogate: 4-Bromofluorobenzene				Recovery: 108%	Limits: 86-128		11/02/20 17:49	B0K0079	WZZ	1
Surrogate: 1,2-Dichlorobenzene-d4				Recovery: 94%	Limits: 90-128		11/02/20 17:49	B0K0079	WZZ	1



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Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 20J0958

Client Sample ID: MW-11
Report Date: 11/12/2020
Collection Date: 10/29/2020 09:57
Matrix: Groundwater
Lab ID: 20J0958-05 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit									
Subcontracted Analyses											
Method: SW8260-SIM Modified / SW5030											
1,4-Dioxane	< 0.200	0.500			ug/L	0.0625	0.200	11/03/20 11:49	B0K0078	CP1	1
Surrogate: Toluene-d8				Recovery: 99%		Limits: 80-120		11/03/20 11:49	B0K0078	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 20J0958

Client Sample ID: Trip Blank
Report Date: 11/12/2020
Collection Date: 10/30/2020 00:00
Matrix: Water
Lab ID: 20J0958-06

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Volatile Organic Compounds by GC/MS											
Method: SW8260B / SW5030											
1,1,1,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.706	2.00	11/02/20 16:07	B0K0079	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00			ug/L	0.719	2.00	11/02/20 16:07	B0K0079	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.713	2.00	11/02/20 16:07	B0K0079	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00			ug/L	0.198	0.600	11/02/20 16:07	B0K0079	WZZ	1
1,1-Dichloroethane	< 2.00	4.00			ug/L	0.691	2.00	11/02/20 16:07	B0K0079	WZZ	1
1,1-Dichloroethene	< 4.00	8.00			ug/L	1.10	4.00	11/02/20 16:07	B0K0079	WZZ	1
1,1-Dichloropropene	< 1.00	2.00			ug/L	0.462	1.00	11/02/20 16:07	B0K0079	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00			ug/L	0.199	0.600	11/02/20 16:07	B0K0079	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00			ug/L	0.598	2.00	11/02/20 16:07	B0K0079	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00			ug/L	0.753	2.00	11/02/20 16:07	B0K0079	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00			ug/L	1.22	4.00	11/02/20 16:07	B0K0079	WZZ	1
1,2-Dibromoethane	< 1.00	2.00			ug/L	0.420	1.00	11/02/20 16:07	B0K0079	WZZ	1
1,2-Dichloroethane	< 2.00	4.00			ug/L	0.731	2.00	11/02/20 16:07	B0K0079	WZZ	1
1,2-Dichloropropane	< 2.00	4.00			ug/L	0.557	2.00	11/02/20 16:07	B0K0079	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00			ug/L	0.351	1.00	11/02/20 16:07	B0K0079	WZZ	1
1,3-Dichloropropane	< 1.00	2.00			ug/L	0.345	1.00	11/02/20 16:07	B0K0079	WZZ	1
2,2-Dichloropropane	< 4.00	8.00			ug/L	1.03	4.00	11/02/20 16:07	B0K0079	WZZ	1
2-Butanone	< 14.0	28.0			ug/L	4.79	14.0	11/02/20 16:07	B0K0079	WZZ	1
2-Chlorotoluene	< 1.00	2.00			ug/L	0.384	1.00	11/02/20 16:07	B0K0079	WZZ	1
2-Hexanone	< 14.0	28.0			ug/L	4.74	14.0	11/02/20 16:07	B0K0079	WZZ	1
4-Isopropyltoluene	< 2.00	4.00			ug/L	0.930	2.00	11/02/20 16:07	B0K0079	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0			ug/L	4.40	14.0	11/02/20 16:07	B0K0079	WZZ	1
Acetone	< 28.0	70.0	Q, S1		ug/L	9.21	28.0	11/02/20 16:07	B0K0079	WZZ	1
Benzene	< 1.00	2.00			ug/L	0.362	1.00	11/02/20 16:07	B0K0079	WZZ	1
Bromobenzene	< 1.00	2.00			ug/L	0.354	1.00	11/02/20 16:07	B0K0079	WZZ	1
Bromochloromethane	< 2.00	4.00			ug/L	0.861	2.00	11/02/20 16:07	B0K0079	WZZ	1
Bromodichloromethane	< 1.00	2.00			ug/L	0.458	1.00	11/02/20 16:07	B0K0079	WZZ	1
Bromoform	< 2.00	4.00			ug/L	0.570	2.00	11/02/20 16:07	B0K0079	WZZ	1
Bromomethane	< 4.00	8.00			ug/L	1.61	4.00	11/02/20 16:07	B0K0079	WZZ	1
Carbon disulfide	< 2.00	4.00			ug/L	0.739	2.00	11/02/20 16:07	B0K0079	WZZ	1
Carbon tetrachloride	< 2.00	4.00			ug/L	0.710	2.00	11/02/20 16:07	B0K0079	WZZ	1
Chlorobenzene	< 0.600	2.00			ug/L	0.170	0.600	11/02/20 16:07	B0K0079	WZZ	1
Chloroethane	< 2.00	4.00			ug/L	0.621	2.00	11/02/20 16:07	B0K0079	WZZ	1
Chloroform	< 4.00	8.00			ug/L	1.06	4.00	11/02/20 16:07	B0K0079	WZZ	1
Chloromethane	< 4.00	8.00			ug/L	1.30	4.00	11/02/20 16:07	B0K0079	WZZ	1
cis-1,2-Dichloroethene	< 2.00	4.00			ug/L	0.652	2.00	11/02/20 16:07	B0K0079	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00			ug/L	0.408	2.00	11/02/20 16:07	B0K0079	WZZ	1
Cyclohexane	< 1.00	2.00			ug/L	0.325	1.00	11/02/20 16:07	B0K0079	WZZ	1
Dibromochloromethane	< 2.00	4.00			ug/L	0.632	2.00	11/02/20 16:07	B0K0079	WZZ	1
Dibromomethane	< 1.00	2.00			ug/L	0.390	1.00	11/02/20 16:07	B0K0079	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00			ug/L	0.186	0.600	11/02/20 16:07	B0K0079	WZZ	1
Ethylbenzene	< 1.00	2.00			ug/L	0.268	1.00	11/02/20 16:07	B0K0079	WZZ	1
Isopropylbenzene	< 1.00	2.00			ug/L	0.312	1.00	11/02/20 16:07	B0K0079	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 20J0958

Client Sample ID: Trip Blank
Report Date: 11/12/2020
Collection Date: 10/30/2020 00:00
Matrix: Water
Lab ID: 20J0958-06 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	11/02/20 16:07	B0K0079	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	11/02/20 16:07	B0K0079	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	11/02/20 16:07	B0K0079	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	11/02/20 16:07	B0K0079	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	11/02/20 16:07	B0K0079	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	11/02/20 16:07	B0K0079	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	11/02/20 16:07	B0K0079	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	11/02/20 16:07	B0K0079	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	11/02/20 16:07	B0K0079	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	11/02/20 16:07	B0K0079	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	11/02/20 16:07	B0K0079	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	11/02/20 16:07	B0K0079	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	11/02/20 16:07	B0K0079	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	11/02/20 16:07	B0K0079	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	11/02/20 16:07	B0K0079	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	11/02/20 16:07	B0K0079	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	11/02/20 16:07	B0K0079	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 99%</i>	<i>Limits: 84-137</i>		<i>11/02/20 16:07</i>	<i>B0K0079</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 101%</i>	<i>Limits: 74-140</i>		<i>11/02/20 16:07</i>	<i>B0K0079</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 99%</i>	<i>Limits: 90-105</i>		<i>11/02/20 16:07</i>	<i>B0K0079</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 92%</i>	<i>Limits: 74-109</i>		<i>11/02/20 16:07</i>	<i>B0K0079</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 115%</i>	<i>Limits: 86-128</i>		<i>11/02/20 16:07</i>	<i>B0K0079</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 95%</i>	<i>Limits: 90-128</i>		<i>11/02/20 16:07</i>	<i>B0K0079</i>	<i>WZZ</i>	<i>1</i>

Dates Report

Client: Geosyntec Consultants

Report Date: 11/12/2020

Project: Milw Die Cast

Work Order: 20J0958

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
20J0958-01	MW-5	10/29/20	Groundwater	Polychlorinated Biphenyls by GC/ECD		11/02/20 10:50	11/09/20 18:42	B0K0016	S0K0142
				Volatile Organic Compounds by GC/MS-SIM		11/03/20 07:00	11/03/20 11:00	B0K0078	S0K0031
				Volatile Organic Compounds by GC/MS		11/02/20 12:30	11/02/20 16:58	B0K0079	S0K0036
				Carbon, Organic Total (TOC)		11/03/20 14:39	11/03/20 23:37	B0K0081	S0K0032
				Semivolatile Organic Compounds by GC/MS		11/04/20 09:28	11/05/20 13:03	B0K0092	S0K0067
20J0958-02	MW-5 (F)			Polychlorinated Biphenyls by GC/ECD		11/02/20 10:50	11/09/20 18:08	B0K0016	S0K0142
20J0958-03	MW-10	10/29/20		Polychlorinated Biphenyls by GC/ECD		11/02/20 10:50	11/09/20 18:25		
				Volatile Organic Compounds by GC/MS-SIM		11/03/20 07:00	11/03/20 11:24	B0K0078	S0K0031
				Volatile Organic Compounds by GC/MS		11/02/20 12:30	11/02/20 17:24	B0K0079	S0K0036
20J0958-04	MW-10 (F)			Polychlorinated Biphenyls by GC/ECD		11/02/20 10:50	11/09/20 18:42	B0K0016	S0K0142
20J0958-05	MW-11	10/29/20		Polychlorinated Biphenyls by GC/ECD		11/02/20 10:50	11/09/20 18:59		
				Volatile Organic Compounds by GC/MS-SIM		11/03/20 07:00	11/03/20 11:49	B0K0078	S0K0031
				Volatile Organic Compounds by GC/MS		11/02/20 12:30	11/02/20 17:49	B0K0079	S0K0036
20J0958-06	Trip Blank	10/30/20	Water	Volatile Organic Compounds by GC/MS		11/02/20 12:30	11/02/20 16:07		

Quality Control

Client: Geosyntec Consultants
Project: Milw Die Cast

Report Date: 11/12/2020
Matrix: Water

Work Order: 20J0958

Wet Chemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
Batch: B0K0081											
Blank (B0K0081-BLK1) <i>Prepared: 11/03/2020 14:39 Analyzed: 11/03/2020 17:14</i>											
Organic Carbon, Total	0.457	1.00	mg/L							J	1
Blank (B0K0081-BLK4) <i>Prepared: 11/03/2020 14:39 Analyzed: 11/04/2020 00:23</i>											
Organic Carbon, Total	0.513	1.00	mg/L							J	1
LCS (B0K0081-BS1) <i>Prepared: 11/03/2020 14:39 Analyzed: 11/03/2020 18:32</i>											
Organic Carbon, Total	9.15	1.00	mg/L	10.00		91.5	90-110				1
LCS (B0K0081-BS3) <i>Prepared: 11/03/2020 14:39 Analyzed: 11/04/2020 01:17</i>											
Organic Carbon, Total	9.00	1.00	mg/L	10.00		90.0	90-110				1
MRL Check (B0K0081-MRL1) <i>Prepared: 11/03/2020 14:39 Analyzed: 11/03/2020 18:01</i>											
Organic Carbon, Total	1.32	1.00	mg/L	1.000		132	50-150				1
Matrix Spike (B0K0081-MS1) Source: 20K0209-05 <i>Prepared: 11/03/2020 14:39 Analyzed: 11/03/2020 22:39</i>											
Organic Carbon, Total	49.9	5.00	mg/L	50.00	ND	99.9	80-120				5
Matrix Spike Dup (B0K0081-MSD1) Source: 20K0209-05 <i>Prepared: 11/03/2020 14:39 Analyzed: 11/03/2020 23:11</i>											
Organic Carbon, Total	53.8	5.00	mg/L	50.00	ND	108	80-120	7.53	15		5

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 11/12/2020**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 20J0958**Polychlorinated Biphenyls (PCBs) by GC/ECD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0K0016 - SW3510**Blank (B0K0016-BLK1)**

Prepared: 11/02/2020 10:50 Analyzed: 11/09/2020 18:08

Aroclor 1016	< 0.212	1.00	ug/L								1
Aroclor 1016 [2C]	< 0.212	1.00	ug/L								1
Aroclor 1221	< 0.192	0.600	ug/L								1
Aroclor 1221 [2C]	< 0.192	0.600	ug/L								1
Aroclor 1232	< 0.162	0.600	ug/L								1
Aroclor 1232 [2C]	< 0.162	0.600	ug/L								1
Aroclor 1242	< 0.350	2.00	ug/L								1
Aroclor 1242 [2C]	< 0.350	2.00	ug/L								1
Aroclor 1248	< 0.160	0.600	ug/L								1
Aroclor 1248 [2C]	< 0.160	0.600	ug/L								1
Aroclor 1254	< 0.176	0.600	ug/L								1
Aroclor 1254 [2C]	< 0.176	0.600	ug/L								1
Aroclor 1260	< 0.112	0.400	ug/L								1
Aroclor 1260 [2C]	< 0.112	0.400	ug/L								1
Total PCB	< 0.192	0.600	ug/L								1
Total PCB [2C]	< 0.192	0.600	ug/L								1
Surrogate: Decachlorobiphenyl	0.195		ug/L	0.2000		97	10-139				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.143		ug/L	0.2000		72	26-107				1

LCS (B0K0016-BS1)

Prepared: 11/02/2020 10:50 Analyzed: 11/09/2020 18:25

Aroclor 1016	0.327	1.00	ug/L	0.4000		82	50-106			J	1
Aroclor 1260	0.373	0.400	ug/L	0.4000		93	60-125			J	1
Surrogate: Decachlorobiphenyl	0.141		ug/L	0.2000		71	10-139				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.125		ug/L	0.2000		63	26-107				1

Matrix Spike (B0K0016-MS1)

Source: 20J0958-01

Prepared: 11/02/2020 10:50 Analyzed: 11/09/2020 18:59

Aroclor 1016	5.56	17.6	ug/L	7.030	ND	79	16-142			J	1
Aroclor 1260	6.60	7.03	ug/L	7.030	ND	94	53-112			J	1
Surrogate: Decachlorobiphenyl	3.03		ug/L	3.515		86	10-139				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	2.19		ug/L	3.515		62	26-107				1

Matrix Spike Dup (B0K0016-MSD1)

Source: 20J0958-01

Prepared: 11/02/2020 10:50 Analyzed: 11/09/2020 19:16

Aroclor 1016	5.36	17.5	ug/L	7.005	ND	77	16-142	4	20	J	1
Aroclor 1260	6.18	7.01	ug/L	7.005	ND	88	53-112	7	23	J	1
Surrogate: Decachlorobiphenyl	2.99		ug/L	3.503		85	10-139				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	2.15		ug/L	3.503		61	26-107				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 11/12/2020**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 20J0958**Volatile Organic Compounds by GC/MS**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0K0079 - SW5030**Blank (B0K0079-BLK1)**

Prepared: 11/02/2020 12:30 Analyzed: 11/02/2020 15:42

1,1,1,2-Tetrachloroethane	< 4.00	4.00	ug/L								1
1,1,1-Trichloroethane	< 4.00	4.00	ug/L								1
1,1,2,2-Tetrachloroethane	< 4.00	4.00	ug/L								1
1,1,2-Trichloroethane	< 2.00	2.00	ug/L								1
1,1-Dichloroethane	< 4.00	4.00	ug/L								1
1,1-Dichloroethene	< 8.00	8.00	ug/L								1
1,1-Dichloropropene	< 2.00	2.00	ug/L								1
1,2,3-Trichlorobenzene	< 2.00	2.00	ug/L								1
1,2,3-Trichloropropane	< 4.00	4.00	ug/L								1
1,2,4-Trimethylbenzene	< 4.00	4.00	ug/L								1
1,2-Dibromo-3-chloropropane	< 8.00	8.00	ug/L								1
1,2-Dibromoethane	< 2.00	2.00	ug/L								1
1,2-Dichloroethane	< 4.00	4.00	ug/L								1
1,2-Dichloropropane	< 4.00	4.00	ug/L								1
1,3,5-Trimethylbenzene	< 2.00	2.00	ug/L								1
1,3-Dichloropropane	< 2.00	2.00	ug/L								1
2,2-Dichloropropane	< 8.00	8.00	ug/L								1
2-Butanone	< 28.0	28.0	ug/L								1
2-Chlorotoluene	< 2.00	2.00	ug/L								1
2-Hexanone	< 28.0	28.0	ug/L								1
4-Isopropyltoluene	< 4.00	4.00	ug/L								1
4-Methyl-2-pentanone	< 28.0	28.0	ug/L								1
Acetone	< 70.0	70.0	ug/L								1
Benzene	< 2.00	2.00	ug/L								1
Bromobenzene	< 2.00	2.00	ug/L								1
Bromochloromethane	< 4.00	4.00	ug/L								1
Bromodichloromethane	< 2.00	2.00	ug/L								1
Bromoform	< 4.00	4.00	ug/L								1
Bromomethane	< 8.00	8.00	ug/L								1
Carbon disulfide	< 4.00	4.00	ug/L								1
Carbon tetrachloride	< 4.00	4.00	ug/L								1
Chlorobenzene	< 2.00	2.00	ug/L								1
Chloroethane	< 4.00	4.00	ug/L								1
Chloroform	< 8.00	8.00	ug/L								1
Chloromethane	< 8.00	8.00	ug/L								1
cis-1,2-Dichloroethene	< 4.00	4.00	ug/L								1
cis-1,3-Dichloropropene	< 4.00	4.00	ug/L								1
Cyclohexane	< 2.00	2.00	ug/L								1
Dibromochloromethane	< 4.00	4.00	ug/L								1
Dibromomethane	< 2.00	2.00	ug/L								1
Dichlorodifluoromethane	< 2.00	2.00	ug/L								1
Ethylbenzene	< 2.00	2.00	ug/L								1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 11/12/2020**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 20J0958**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0K0079 - SW5030 (Continued)**Blank (B0K0079-BLK1) (Continued)**

Prepared: 11/02/2020 12:30 Analyzed: 11/02/2020 15:42

Isopropylbenzene	< 2.00	2.00	ug/L								1
m,p-Xylene	< 8.00	8.00	ug/L								1
Methyl tert-butyl ether	< 4.00	4.00	ug/L								1
Methylene chloride	< 8.00	8.00	ug/L								1
n-Butylbenzene	< 2.00	2.00	ug/L								1
n-Propylbenzene	< 2.00	2.00	ug/L								1
o-Xylene	< 2.00	2.00	ug/L								1
sec-Butylbenzene	< 2.00	2.00	ug/L								1
Styrene	< 8.00	8.00	ug/L								1
tert-Butylbenzene	< 4.00	4.00	ug/L								1
Tetrachloroethene	< 4.00	4.00	ug/L								1
Toluene	< 4.00	4.00	ug/L								1
trans-1,2-Dichloroethene	< 4.00	4.00	ug/L								1
trans-1,3-Dichloropropene	< 8.00	8.00	ug/L								1
Trichloroethene	< 4.00	4.00	ug/L								1
Trichlorofluoromethane	< 4.00	4.00	ug/L								1
Vinyl chloride	< 4.00	4.00	ug/L								1
Xylenes, Total	< 12.0	12.0	ug/L								1
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Surrogate: Dibromofluoromethane	20.0		ug/L	20.00		100	84-137				1
Surrogate: 1,2-Dichloroethane-d4	19.7		ug/L	20.00		98	74-140				1
Surrogate: Fluorobenzene	19.5		ug/L	20.00		98	90-105				1
Surrogate: Toluene-d8	19.0		ug/L	20.00		95	74-109				1
Surrogate: 4-Bromofluorobenzene	10.8		ug/L	10.00		108	86-128				1
Surrogate: 1,2-Dichlorobenzene-d4	18.2		ug/L	20.00		91	90-128				1

LCS (B0K0079-BS1)

Prepared: 11/02/2020 12:30 Analyzed: 11/02/2020 14:08

1,1,1,2-Tetrachloroethane	48.5	4.00	ug/L	50.00		97	84-122				1
1,1,1-Trichloroethane	50.9	4.00	ug/L	50.00		102	74-131				1
1,1,2,2-Tetrachloroethane	47.8	4.00	ug/L	50.00		96	71-121				1
1,1,2-Trichloroethane	49.4	2.00	ug/L	50.00		99	83-139				1
1,1-Dichloroethane	47.8	4.00	ug/L	50.00		96	77-125				1
1,1-Dichloroethene	41.0	8.00	ug/L	50.00		82	71-131				1
1,1-Dichloropropene	51.3	2.00	ug/L	50.00		103	79-125				1
1,2,3-Trichlorobenzene	45.1	2.00	ug/L	50.00		90	69-129				1
1,2,3-Trichloropropane	50.5	4.00	ug/L	50.00		101	73-122				1
1,2,4-Trimethylbenzene	52.0	4.00	ug/L	50.00		104	76-124				1
1,2-Dibromo-3-chloropropane	42.5	8.00	ug/L	50.00		85	72-124				1
1,2-Dibromoethane	49.1	2.00	ug/L	50.00		98	77-121				1
1,2-Dichloroethane	47.9	4.00	ug/L	50.00		96	73-128				1
1,2-Dichloropropane	49.9	4.00	ug/L	50.00		100	78-122				1
1,3,5-Trimethylbenzene	51.1	2.00	ug/L	50.00		102	75-124				1
1,3-Dichloropropane	49.0	2.00	ug/L	50.00		98	82-130				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 11/12/2020**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 20J0958**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0K0079 - SW5030 (Continued)**LCS (B0K0079-BS1)** (Continued)

Prepared: 11/02/2020 12:30 Analyzed: 11/02/2020 14:08

2,2-Dichloropropane	51.7	8.00	ug/L	50.00		103	60-139				1
2-Butanone	147	28.0	ug/L	175.0		84	71-119				1
2-Chlorotoluene	54.0	2.00	ug/L	50.00		108	79-122				1
2-Hexanone	153	28.0	ug/L	175.0		88	57-139				1
4-Isopropyltoluene	53.5	4.00	ug/L	50.00		107	77-127				1
4-Methyl-2-pentanone	153	28.0	ug/L	175.0		88	67-130				1
Acetone	178	70.0	ug/L	175.0		102	39-160				1
Benzene	50.0	2.00	ug/L	50.00		100	79-120				1
Bromobenzene	50.6	2.00	ug/L	50.00		101	80-132				1
Bromochloromethane	46.9	4.00	ug/L	50.00		94	78-123				1
Bromodichloromethane	48.7	2.00	ug/L	50.00		97	84-139				1
Bromoform	49.3	4.00	ug/L	50.00		99	66-130				1
Bromomethane	46.7	8.00	ug/L	50.00		93	56-150				1
Carbon disulfide	49.0	4.00	ug/L	50.00		98	80-124				1
Carbon tetrachloride	52.3	4.00	ug/L	50.00		105	75-125				1
Chlorobenzene	50.3	2.00	ug/L	50.00		101	82-118				1
Chloroethane	56.0	4.00	ug/L	50.00		112	60-138				1
Chloroform	49.2	8.00	ug/L	50.00		98	79-124				1
Chloromethane	45.4	8.00	ug/L	50.00		91	50-139				1
cis-1,2-Dichloroethene	48.1	4.00	ug/L	50.00		96	78-123				1
cis-1,3-Dichloropropene	53.8	4.00	ug/L	50.00		108	75-124				1
Cyclohexane	50.7	2.00	ug/L	50.00		101	71-130				1
Dibromochloromethane	50.6	4.00	ug/L	50.00		101	83-140				1
Dibromomethane	49.0	2.00	ug/L	50.00		98	79-138				1
Dichlorodifluoromethane	51.1	2.00	ug/L	50.00		102	66-150				1
Ethylbenzene	50.0	2.00	ug/L	50.00		100	79-137				1
Isopropylbenzene	53.1	2.00	ug/L	50.00		106	72-131				1
m,p-Xylene	99.5	8.00	ug/L	100.0		100	80-136				1
Methyl tert-butyl ether	47.6	4.00	ug/L	50.00		95	71-124				1
Methylene chloride	49.3	8.00	ug/L	50.00		99	74-124				1
n-Butylbenzene	48.1	2.00	ug/L	50.00		96	75-128				1
n-Propylbenzene	51.5	2.00	ug/L	50.00		103	76-126				1
o-Xylene	47.1	2.00	ug/L	50.00		94	78-122				1
sec-Butylbenzene	50.8	2.00	ug/L	50.00		102	77-126				1
Styrene	50.7	8.00	ug/L	50.00		101	78-123				1
tert-Butylbenzene	50.4	4.00	ug/L	50.00		101	78-124				1
Tetrachloroethene	50.0	4.00	ug/L	50.00		100	74-129				1
Toluene	47.3	4.00	ug/L	50.00		95	80-133				1
trans-1,2-Dichloroethene	48.3	4.00	ug/L	50.00		97	75-124				1
trans-1,3-Dichloropropene	51.2	8.00	ug/L	50.00		102	73-127				1
Trichloroethene	51.3	4.00	ug/L	50.00		103	84-129				1
Trichlorofluoromethane	52.9	4.00	ug/L	50.00		106	73-134				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 11/12/2020**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 20J0958**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0K0079 - SW5030 (Continued)**LCS (B0K0079-BS1) (Continued)**

Prepared: 11/02/2020 12:30 Analyzed: 11/02/2020 14:08

Vinyl chloride	51.1	4.00	ug/L	50.00		102	58-137				1
Xylenes, Total	147	12.0	ug/L	150.0		98	80-132				1
Surrogate: Dibromofluoromethane	20.2		ug/L	20.00		101	84-137				1
Surrogate: 1,2-Dichloroethane-d4	19.9		ug/L	20.00		99	74-140				1
Surrogate: Fluorobenzene	19.6		ug/L	20.00		98	90-105				1
Surrogate: Toluene-d8	18.8		ug/L	20.00		94	74-109				1
Surrogate: 4-Bromofluorobenzene	10.4		ug/L	10.00		104	86-128				1
Surrogate: 1,2-Dichlorobenzene-d4	18.0		ug/L	20.00		90	90-128				1

LCS Dup (B0K0079-BSD1)

Prepared: 11/02/2020 12:30 Analyzed: 11/02/2020 14:34

1,1,1,2-Tetrachloroethane	50.9	4.00	ug/L	50.00		102	84-122	5	20		1
1,1,1-Trichloroethane	50.6	4.00	ug/L	50.00		101	74-131	0.6	20		1
1,1,2,2-Tetrachloroethane	53.8	4.00	ug/L	50.00		108	71-121	12	20		1
1,1,2-Trichloroethane	52.9	2.00	ug/L	50.00		106	83-139	7	20		1
1,1-Dichloroethane	48.3	4.00	ug/L	50.00		97	77-125	1	20		1
1,1-Dichloroethene	60.4	8.00	ug/L	50.00		121	71-131	38	20	P	1
1,1-Dichloropropene	52.4	2.00	ug/L	50.00		105	79-125	2	20		1
1,2,3-Trichlorobenzene	46.7	2.00	ug/L	50.00		93	69-129	4	20		1
1,2,3-Trichloropropane	56.5	4.00	ug/L	50.00		113	73-122	11	20		1
1,2,4-Trimethylbenzene	52.2	4.00	ug/L	50.00		104	76-124	0.2	20		1
1,2-Dibromo-3-chloropropane	47.9	8.00	ug/L	50.00		96	72-124	12	20		1
1,2-Dibromoethane	52.6	2.00	ug/L	50.00		105	77-121	7	20		1
1,2-Dichloroethane	49.8	4.00	ug/L	50.00		100	73-128	4	20		1
1,2-Dichloropropane	50.1	4.00	ug/L	50.00		100	78-122	0.4	20		1
1,3,5-Trimethylbenzene	52.5	2.00	ug/L	50.00		105	75-124	3	20		1
1,3-Dichloropropane	52.1	2.00	ug/L	50.00		104	82-130	6	20		1
2,2-Dichloropropane	52.5	8.00	ug/L	50.00		105	60-139	1	20		1
2-Butanone	174	28.0	ug/L	175.0		99	71-119	17	20		1
2-Chlorotoluene	54.3	2.00	ug/L	50.00		109	79-122	0.6	20		1
2-Hexanone	190	28.0	ug/L	175.0		109	57-139	21	20	P	1
4-Isopropyltoluene	54.0	4.00	ug/L	50.00		108	77-127	1	20		1
4-Methyl-2-pentanone	181	28.0	ug/L	175.0		103	67-130	16	20		1
Acetone	197	70.0	ug/L	175.0		113	39-160	10	20		1
Benzene	53.3	2.00	ug/L	50.00		107	79-120	7	20		1
Bromobenzene	51.5	2.00	ug/L	50.00		103	80-132	2	20		1
Bromochloromethane	49.2	4.00	ug/L	50.00		98	78-123	5	20		1
Bromodichloromethane	49.6	2.00	ug/L	50.00		99	84-139	2	20		1
Bromoform	53.8	4.00	ug/L	50.00		108	66-130	9	20		1
Bromomethane	53.2	8.00	ug/L	50.00		106	56-150	13	20		1
Carbon disulfide	49.4	4.00	ug/L	50.00		99	80-124	0.9	20		1
Carbon tetrachloride	52.9	4.00	ug/L	50.00		106	75-125	1	20		1
Chlorobenzene	52.0	2.00	ug/L	50.00		104	82-118	3	20		1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 11/12/2020**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 20J0958**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0K0079 - SW5030 (Continued)**LCS Dup (B0K0079-BSD1)** (Continued)

Prepared: 11/02/2020 12:30 Analyzed: 11/02/2020 14:34

Chloroethane	50.5	4.00	ug/L	50.00		101	60-138	10	20		1
Chloroform	50.9	8.00	ug/L	50.00		102	79-124	3	20		1
Chloromethane	50.1	8.00	ug/L	50.00		100	50-139	10	20		1
cis-1,2-Dichloroethene	48.8	4.00	ug/L	50.00		98	78-123	1	20		1
cis-1,3-Dichloropropene	54.6	4.00	ug/L	50.00		109	75-124	2	20		1
Cyclohexane	51.9	2.00	ug/L	50.00		104	71-130	2	20		1
Dibromochloromethane	54.5	4.00	ug/L	50.00		109	83-140	7	20		1
Dibromomethane	50.4	2.00	ug/L	50.00		101	79-138	3	20		1
Dichlorodifluoromethane	50.2	2.00	ug/L	50.00		100	66-150	2	20		1
Ethylbenzene	52.1	2.00	ug/L	50.00		104	79-137	4	20		1
Isopropylbenzene	54.3	2.00	ug/L	50.00		109	72-131	2	20		1
m,p-Xylene	103	8.00	ug/L	100.0		103	80-136	3	20		1
Methyl tert-butyl ether	50.5	4.00	ug/L	50.00		101	71-124	6	20		1
Methylene chloride	50.4	8.00	ug/L	50.00		101	74-124	2	20		1
n-Butylbenzene	47.6	2.00	ug/L	50.00		95	75-128	1	20		1
n-Propylbenzene	51.2	2.00	ug/L	50.00		102	76-126	0.6	20		1
o-Xylene	49.0	2.00	ug/L	50.00		98	78-122	4	20		1
sec-Butylbenzene	50.4	2.00	ug/L	50.00		101	77-126	0.7	20		1
Styrene	51.3	8.00	ug/L	50.00		103	78-123	1	20		1
tert-Butylbenzene	49.9	4.00	ug/L	50.00		100	78-124	1	20		1
Tetrachloroethene	49.4	4.00	ug/L	50.00		99	74-129	1	20		1
Toluene	49.4	4.00	ug/L	50.00		99	80-133	4	20		1
trans-1,2-Dichloroethene	49.2	4.00	ug/L	50.00		98	75-124	2	20		1
trans-1,3-Dichloropropene	51.6	8.00	ug/L	50.00		103	73-127	0.8	20		1
Trichloroethene	51.9	4.00	ug/L	50.00		104	84-129	1	20		1
Trichlorofluoromethane	54.2	4.00	ug/L	50.00		108	73-134	3	20		1
Vinyl chloride	52.6	4.00	ug/L	50.00		105	58-137	3	20		1
Xylenes, Total	152	12.0	ug/L	150.0		101	80-132	3	20		1
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Surrogate: Dibromofluoromethane	19.3		ug/L	20.00		97	84-137				1
Surrogate: 1,2-Dichloroethane-d4	20.3		ug/L	20.00		102	74-140				1
Surrogate: Fluorobenzene	19.8		ug/L	20.00		99	90-105				1
Surrogate: Toluene-d8	19.4		ug/L	20.00		97	74-109				1
Surrogate: 4-Bromofluorobenzene	10.2		ug/L	10.00		102	86-128				1
Surrogate: 1,2-Dichlorobenzene-d4	17.4		ug/L	20.00		87	90-128			S2	1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 11/12/2020**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 20J0958**Semivolatile Organic Compounds by GC/MS**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0K0092 - SW3510**Blank (B0K0092-BLK1)**

Prepared: 11/04/2020 09:28 Analyzed: 11/05/2020 07:26

1,4-Dioxane	< 0.211	1.00	ug/L								1
1,2,4-Trichlorobenzene	< 0.280	2.00	ug/L								1
1,2-Dichlorobenzene	< 0.300	2.00	ug/L								1
1,3-Dichlorobenzene	< 0.310	2.00	ug/L								1
1,4-Dichlorobenzene	< 0.280	2.00	ug/L								1
2,4,5-Trichlorophenol	< 0.129	1.00	ug/L								1
2,4,6-Trichlorophenol	< 0.244	1.00	ug/L								1
2,4-Dichlorophenol	< 0.0788	1.00	ug/L								1
2,4-Dimethylphenol	< 0.117	2.00	ug/L								1
2,4-Dinitrophenol	< 3.31	30.0	ug/L								1
2,4-Dinitrotoluene	< 0.252	2.00	ug/L								1
2,6-Dichlorophenol	< 0.146	1.00	ug/L								1
2,6-Dinitrotoluene	< 0.230	1.00	ug/L								1
2-Chloronaphthalene	< 0.106	0.600	ug/L								1
2-Chlorophenol	< 0.153	1.00	ug/L								1
2-Methylnaphthalene	< 0.640	4.00	ug/L								1
2-Methylphenol	< 0.183	1.00	ug/L								1
2-Nitroaniline	< 2.56	30.0	ug/L								1
2-Nitrophenol	< 0.209	1.00	ug/L								1
3,3'-Dichlorobenzidine	< 3.16	20.0	ug/L								1
3 & 4-Methylphenol	< 0.179	1.00	ug/L								1
3-Nitroaniline	< 0.360	2.00	ug/L								1
4,6-Dinitro-2-methylphenol	< 2.45	15.0	ug/L								1
4-Bromophenyl-phenylether	< 0.160	1.00	ug/L								1
4-Chloro-3-methylphenol	< 0.0713	0.500	ug/L								1
4-Chloroaniline	< 0.107	0.600	ug/L								1
4-Chlorophenyl-phenylether	< 0.146	1.00	ug/L								1
4-Nitroaniline	< 3.77	30.0	ug/L								1
4-Nitrophenol	< 1.44	15.0	ug/L								1
Acenaphthene	< 0.104	0.600	ug/L								1
Acenaphthylene	< 0.130	0.600	ug/L								1
Anthracene	< 0.112	0.600	ug/L								1
Azobenzene as 1,2-Diphenylhydrazine	< 0.0767	1.00	ug/L								1
Benzidine	< 16.6	80.0	ug/L								1
Benzo(a)anthracene	< 0.123	0.600	ug/L								1
Benzo(a)pyrene	< 0.376	2.00	ug/L								1
Benzo(b)fluoranthene	< 0.372	2.00	ug/L								1
Benzo(g,h,i)perylene	< 0.399	2.00	ug/L								1
Benzo(k)fluoranthene	< 0.249	2.00	ug/L								1
Benzoic acid	< 11.7	40.0	ug/L								1
Benzyl alcohol	< 0.550	4.00	ug/L								1
Bis(2-chloroethoxy)methane	< 0.135	1.00	ug/L								1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 11/12/2020**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 20J0958**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0K0092 - SW3510 (Continued)**Blank (B0K0092-BLK1) (Continued)**

Prepared: 11/04/2020 09:28 Analyzed: 11/05/2020 07:26

Bis(2-chloroethyl)ether	< 0.176	1.00	ug/L								1
Bis(2-chloroisopropyl)ether	< 0.128	1.00	ug/L								1
Bis(2-ethylhexyl)phthalate	< 3.63	20.0	ug/L								1
Butyl benzyl phthalate	< 0.234	1.00	ug/L								1
Carbazole	< 0.173	1.00	ug/L								1
Chrysene	< 0.127	0.600	ug/L								1
Dibenzo(a,h)anthracene	< 0.442	2.00	ug/L								1
Dibenzofuran	< 0.123	0.600	ug/L								1
Diethyl phthalate	< 1.16	6.00	ug/L								1
Dimethyl phthalate	< 0.0883	0.600	ug/L								1
Di-n-butyl phthalate	< 2.88	10.0	ug/L								1
Di-n-octyl phthalate	< 1.89	10.0	ug/L								1
Fluoranthene	< 0.196	1.00	ug/L								1
Fluorene	< 0.124	0.600	ug/L								1
Hexachlorobenzene	< 0.165	1.00	ug/L								1
Hexachlorobutadiene	< 0.250	1.00	ug/L								1
Hexachlorocyclopentadiene	< 2.19	15.0	ug/L								1
Hexachloroethane	< 0.220	1.00	ug/L								1
Indeno(1,2,3-cd)pyrene	< 0.502	2.00	ug/L								1
Isophorone	< 0.110	0.600	ug/L								1
Naphthalene	< 0.816	4.00	ug/L								1
Nitrobenzene	< 0.140	0.600	ug/L								1
N-Nitrosodimethylamine	< 0.156	1.00	ug/L								1
N-Nitrosodi-n-propylamine	< 0.319	2.00	ug/L								1
N-Nitrosodiphenylamine	< 0.104	0.600	ug/L								1
Pentachlorophenol	< 2.52	30.0	ug/L								1
Phenanthrene	< 0.206	1.00	ug/L								1
Phenol	< 0.171	1.00	ug/L								1
Pyrene	< 0.208	1.00	ug/L								1
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Surrogate: 2-Fluorophenol	31.7		ug/L	66.67		48	10-88				1
Surrogate: Phenol-d5	24.8		ug/L	66.67		37	10-65				1
Surrogate: Nitrobenzene-d5	43.4		ug/L	66.67		65	25-128				1
Surrogate: 2-Fluorobiphenyl	35.9		ug/L	66.67		54	24-114				1
Surrogate: 2,4,6-Tribromophenol	42.3		ug/L	66.67		63	15-119				1
Surrogate: 4-Terphenyl-d14	55.8		ug/L	66.67		84	29-129				1

Blank (B0K0092-BLK2)

Prepared: 11/05/2020 08:50 Analyzed: 11/05/2020 16:32

2,4,6-Trichlorophenol	< 0.122	0.500	ug/L								1
2,4-Dichlorophenol	< 0.0394	0.500	ug/L								1
2,6-Dichlorophenol	< 0.0728	0.500	ug/L								1
2-Chlorophenol	< 0.0767	0.500	ug/L								1
Phenol	< 0.0853	0.500	ug/L								1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 11/12/2020**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 20J0958**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0K0092 - SW3510 (Continued)**Blank (B0K0092-BLK2) (Continued)**

Prepared: 11/05/2020 08:50 Analyzed: 11/05/2020 16:32

Surrogate: 2-Fluorophenol	16.7		ug/L	33.34		50	10-88				1
Surrogate: Phenol-d5	12.0		ug/L	33.34		36	10-65				1
Surrogate: 2,4,6-Tribromophenol	21.7		ug/L	33.34		65	15-119				1

LCS (B0K0092-BS1)

Prepared: 11/04/2020 09:28 Analyzed: 11/05/2020 08:43

1,4-Dioxane	34.5	1.00	ug/L	66.66		52	25-79				1
1,2,4-Trichlorobenzene	48.3	2.00	ug/L	66.66		72	35-101				1
1,2-Dichlorobenzene	42.1	2.00	ug/L	66.66		63	33-97				1
1,3-Dichlorobenzene	41.4	2.00	ug/L	66.66		62	32-96				1
1,4-Dichlorobenzene	41.9	2.00	ug/L	66.66		63	31-97				1
2,4,5-Trichlorophenol	58.7	1.00	ug/L	66.66		88	38-126				1
2,4,6-Trichlorophenol	57.2	1.00	ug/L	66.66		86	38-124				1
2,4-Dichlorophenol	55.4	1.00	ug/L	66.66		83	42-117				1
2,4-Dimethylphenol	48.4	2.00	ug/L	66.66		73	11-112				1
2,4-Dinitrophenol	58.4	30.0	ug/L	66.66		88	5-113				1
2,4-Dinitrotoluene	60.9	2.00	ug/L	66.66		91	39-124				1
2,6-Dichlorophenol	54.6	1.00	ug/L	66.66		82	41-113				1
2,6-Dinitrotoluene	61.5	1.00	ug/L	66.66		92	43-125				1
2-Chloronaphthalene	50.1	0.600	ug/L	66.66		75	38-113				1
2-Chlorophenol	50.5	1.00	ug/L	66.66		76	36-109				1
2-Methylnaphthalene	53.1	4.00	ug/L	66.66		80	42-112				1
2-Methylphenol	51.1	1.00	ug/L	66.66		77	34-105				1
2-Nitroaniline	58.9	30.0	ug/L	66.66		88	35-127				1
2-Nitrophenol	52.4	1.00	ug/L	66.66		79	37-118				1
3,3'-Dichlorobenzidine	77.2	20.0	ug/L	80.00		96	39-125				1
3 & 4-Methylphenol	48.6	1.00	ug/L	66.66		73	34-102				1
3-Nitroaniline	60.2	2.00	ug/L	66.66		90	39-122				1
4,6-Dinitro-2-methylphenol	58.6	15.0	ug/L	66.66		88	29-131				1
4-Bromophenyl-phenylether	59.6	1.00	ug/L	66.66		89	43-127				1
4-Chloro-3-methylphenol	58.2	0.500	ug/L	66.66		87	43-119				1
4-Chloroaniline	58.7	0.600	ug/L	66.66		88	40-116				1
4-Chlorophenyl-phenylether	59.7	1.00	ug/L	66.66		90	41-118				1
4-Nitroaniline	59.8	30.0	ug/L	66.66		90	41-128				1
4-Nitrophenol	31.8	15.0	ug/L	66.66		48	13-68				1
Acenaphthene	51.5	0.600	ug/L	66.66		77	40-115				1
Acenaphthylene	54.5	0.600	ug/L	66.66		82	38-116				1
Anthracene	57.2	0.600	ug/L	66.66		86	41-124				1
Azobenzene as 1,2-Diphenylhydrazine	53.2	1.00	ug/L	66.66		80	41-127				1
Benzidine	49.3	80.0	ug/L	80.00		62	15-122			J	1
Benzo(a)anthracene	59.0	0.600	ug/L	66.66		88	44-131				1
Benzo(a)pyrene	62.3	2.00	ug/L	66.66		93	46-131				1
Benzo(b)fluoranthene	61.4	2.00	ug/L	66.66		92	45-132				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 11/12/2020**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 20J0958**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0K0092 - SW3510 (Continued)**LCS (B0K0092-BS1)** (Continued)

Prepared: 11/04/2020 09:28 Analyzed: 11/05/2020 08:43

Benzo(g,h,i)perylene	62.0	2.00	ug/L	66.66		93	41-131				1
Benzo(k)fluoranthene	59.5	2.00	ug/L	66.66		89	47-132				1
Benzoic acid	37.9	40.0	ug/L	160.0		24	5-95			J	1
Benzyl alcohol	50.8	4.00	ug/L	66.66		76	43-107				1
Bis(2-chloroethoxy)methane	57.6	1.00	ug/L	66.66		86	40-114				1
Bis(2-chloroethyl)ether	50.1	1.00	ug/L	66.66		75	37-109				1
Bis(2-chloroisopropyl)ether	44.4	1.00	ug/L	66.66		67	34-112				1
Bis(2-ethylhexyl)phthalate	60.0	20.0	ug/L	66.66		90	40-135				1
Butyl benzyl phthalate	63.9	1.00	ug/L	66.66		96	38-133				1
Carbazole	58.3	1.00	ug/L	66.66		87	47-129				1
Chrysene	60.5	0.600	ug/L	66.66		91	44-125				1
Dibenzo(a,h)anthracene	61.6	2.00	ug/L	66.66		92	13-126				1
Dibenzofuran	55.3	0.600	ug/L	66.66		83	41-112				1
Diethyl phthalate	56.8	6.00	ug/L	66.66		85	43-125				1
Dimethyl phthalate	54.6	0.600	ug/L	66.66		82	43-117				1
Di-n-butyl phthalate	57.1	10.0	ug/L	66.66		86	43-132				1
Di-n-octyl phthalate	61.5	10.0	ug/L	66.66		92	36-133				1
Fluoranthene	57.6	1.00	ug/L	66.66		86	47-129				1
Fluorene	57.7	0.600	ug/L	66.66		87	43-116				1
Hexachlorobenzene	60.4	1.00	ug/L	66.66		91	44-112				1
Hexachlorobutadiene	44.4	1.00	ug/L	66.66		67	32-100				1
Hexachlorocyclopentadiene	41.7	15.0	ug/L	66.66		63	18-95				1
Hexachloroethane	41.0	1.00	ug/L	66.66		61	29-98				1
Indeno(1,2,3-cd)pyrene	62.1	2.00	ug/L	66.66		93	35-134				1
Isophorone	50.8	0.600	ug/L	66.66		76	39-113				1
Naphthalene	48.3	4.00	ug/L	66.66		72	33-109				1
Nitrobenzene	53.5	0.600	ug/L	66.66		80	42-111				1
N-Nitrosodimethylamine	40.8	1.00	ug/L	66.66		61	28-87				1
N-Nitrosodi-n-propylamine	53.5	2.00	ug/L	66.66		80	37-115				1
N-Nitrosodiphenylamine	55.8	0.600	ug/L	66.66		84	45-124				1
Pentachlorophenol	54.1	30.0	ug/L	66.66		81	29-120				1
Phenanthrene	57.1	1.00	ug/L	66.66		86	43-114				1
Phenol	33.1	1.00	ug/L	66.66		50	16-71				1
Pyrene	57.5	1.00	ug/L	66.66		86	43-128				1
Surrogate: 2-Fluorophenol	37.1		ug/L	66.67		56	10-88				1
Surrogate: Phenol-d5	27.6		ug/L	66.67		41	10-65				1
Surrogate: Nitrobenzene-d5	51.6		ug/L	66.67		77	25-128				1
Surrogate: 2-Fluorobiphenyl	48.1		ug/L	66.67		72	24-114				1
Surrogate: 2,4,6-Tribromophenol	54.8		ug/L	66.67		82	15-119				1
Surrogate: 4-Terphenyl-d14	57.4		ug/L	66.67		86	29-129				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 11/12/2020**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 20J0958**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0K0092 - SW3510 (Continued)**Matrix Spike (B0K0092-MS1)****Source: 20J0956-01**

Prepared: 11/04/2020 09:28 Analyzed: 11/05/2020 11:46

1,4-Dioxane	353	9.91	ug/L	660.7	ND	53	24-83				1
1,2,4-Trichlorobenzene	472	19.8	ug/L	660.7	ND	71	34-96				1
1,2-Dichlorobenzene	425	19.8	ug/L	660.7	ND	64	32-91				1
1,3-Dichlorobenzene	438	19.8	ug/L	660.7	ND	66	29-90				1
1,4-Dichlorobenzene	440	19.8	ug/L	660.7	ND	67	31-88				1
2,4,5-Trichlorophenol	564	9.91	ug/L	660.7	ND	85	54-120				1
2,4,6-Trichlorophenol	531	9.91	ug/L	660.7	ND	80	51-117				1
2,4-Dichlorophenol	538	9.91	ug/L	660.7	ND	81	33-134				1
2,4-Dimethylphenol	464	19.8	ug/L	660.7	ND	70	17-132				1
2,4-Dinitrophenol	546	297	ug/L	660.7	ND	83	1-123				1
2,4-Dinitrotoluene	551	19.8	ug/L	660.7	ND	83	49-124				1
2,6-Dichlorophenol	511	9.91	ug/L	660.7	ND	77	35-130				1
2,6-Dinitrotoluene	569	9.91	ug/L	660.7	ND	86	57-121				1
2-Chloronaphthalene	494	5.95	ug/L	660.7	ND	75	50-101				1
2-Chlorophenol	509	9.91	ug/L	660.7	ND	77	37-107				1
2-Methylnaphthalene	519	39.6	ug/L	660.7	ND	79	35-121				1
2-Methylphenol	498	9.91	ug/L	660.7	ND	75	32-107				1
2-Nitroaniline	547	297	ug/L	660.7	ND	83	45-123				1
2-Nitrophenol	525	9.91	ug/L	660.7	ND	79	38-120				1
3,3'-Dichlorobenzidine	693	198	ug/L	792.9	ND	87	33-137				1
3 & 4-Methylphenol	469	9.91	ug/L	660.7	ND	71	20-115				1
3-Nitroaniline	551	19.8	ug/L	660.7	ND	83	39-125				1
4,6-Dinitro-2-methylphenol	554	149	ug/L	660.7	ND	84	11-132				1
4-Bromophenyl-phenylether	572	9.91	ug/L	660.7	ND	87	56-116				1
4-Chloro-3-methylphenol	552	4.96	ug/L	660.7	ND	84	28-144				1
4-Chloroaniline	553	5.95	ug/L	660.7	ND	84	48-110				1
4-Chlorophenyl-phenylether	558	9.91	ug/L	660.7	ND	84	55-106				1
4-Nitroaniline	562	297	ug/L	660.7	ND	85	51-123				1
4-Nitrophenol	252	149	ug/L	660.7	ND	38	10-81				1
Acenaphthene	494	5.95	ug/L	660.7	ND	75	27-133				1
Acenaphthylene	524	5.95	ug/L	660.7	ND	79	47-113				1
Anthracene	551	5.95	ug/L	660.7	ND	83	61-115				1
Azobenzene as 1,2-Diphenylhydrazine	515	9.91	ug/L	660.7	ND	78	55-119				1
Benzidine	403	793	ug/L	792.9	ND	51	10-132			J	1
Benzo(a)anthracene	538	5.95	ug/L	660.7	ND	81	60-125				1
Benzo(a)pyrene	592	19.8	ug/L	660.7	ND	90	66-125				1
Benzo(b)fluoranthene	596	19.8	ug/L	660.7	ND	90	65-128				1
Benzo(g,h,i)perylene	566	19.8	ug/L	660.7	ND	86	62-123				1
Benzo(k)fluoranthene	543	19.8	ug/L	660.7	ND	82	64-122				1
Benzoic acid	483	396	ug/L	1586	ND	30	7-82				1
Benzyl alcohol	488	39.6	ug/L	660.7	ND	74	36-110				1
Bis(2-chloroethoxy)methane	550	9.91	ug/L	660.7	ND	83	44-112				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 11/12/2020**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 20J0958**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0K0092 - SW3510 (Continued)**Matrix Spike (B0K0092-MS1) (Continued)****Source: 20J0956-01**

Prepared: 11/04/2020 09:28 Analyzed: 11/05/2020 11:46

Bis(2-chloroethyl)ether	534	9.91	ug/L	660.7	ND	81	38-104				1
Bis(2-chloroisopropyl)ether	462	9.91	ug/L	660.7	ND	70	35-104				1
Bis(2-ethylhexyl)phthalate	556	198	ug/L	660.7	ND	84	52-139				1
Butyl benzyl phthalate	591	9.91	ug/L	660.7	ND	89	55-132				1
Carbazole	537	9.91	ug/L	660.7	ND	81	62-128				1
Chrysene	546	5.95	ug/L	660.7	ND	83	62-116				1
Dibenzo(a,h)anthracene	572	19.8	ug/L	660.7	ND	87	46-143				1
Dibenzofuran	538	5.95	ug/L	660.7	ND	81	53-110				1
Diethyl phthalate	532	59.5	ug/L	660.7	ND	81	58-117				1
Dimethyl phthalate	510	5.95	ug/L	660.7	ND	77	61-106				1
Di-n-butyl phthalate	545	99.1	ug/L	660.7	ND	82	60-132				1
Di-n-octyl phthalate	601	99.1	ug/L	660.7	ND	91	48-135				1
Fluoranthene	544	9.91	ug/L	660.7	ND	82	63-122				1
Fluorene	540	5.95	ug/L	660.7	ND	82	46-125				1
Hexachlorobenzene	557	9.91	ug/L	660.7	ND	84	51-110				1
Hexachlorobutadiene	460	9.91	ug/L	660.7	ND	70	29-94				1
Hexachlorocyclopentadiene	343	149	ug/L	660.7	ND	52	9-94				1
Hexachloroethane	401	9.91	ug/L	660.7	ND	61	25-89				1
Indeno(1,2,3-cd)pyrene	571	19.8	ug/L	660.7	ND	86	49-137				1
Isophorone	492	5.95	ug/L	660.7	ND	75	43-110				1
Naphthalene	487	39.6	ug/L	660.7	ND	74	20-163				1
Nitrobenzene	532	5.95	ug/L	660.7	ND	80	39-113				1
N-Nitrosodimethylamine	389	9.91	ug/L	660.7	ND	59	18-90				1
N-Nitrosodi-n-propylamine	514	19.8	ug/L	660.7	ND	78	37-116				1
N-Nitrosodiphenylamine	538	5.95	ug/L	660.7	ND	81	62-114				1
Pentachlorophenol	542	297	ug/L	660.7	ND	82	12-122				1
Phenanthrene	545	9.91	ug/L	660.7	ND	83	41-129				1
Phenol	311	9.91	ug/L	660.7	ND	47	10-68				1
Pyrene	536	9.91	ug/L	660.7	ND	81	59-124				1
Surrogate: 2-Fluorophenol	356		ug/L	660.8		54	10-88				1
Surrogate: Phenol-d5	263		ug/L	660.8		40	10-65				1
Surrogate: Nitrobenzene-d5	509		ug/L	660.8		77	25-128				1
Surrogate: 2-Fluorobiphenyl	469		ug/L	660.8		71	24-114				1
Surrogate: 2,4,6-Tribromophenol	525		ug/L	660.8		79	15-119				1
Surrogate: 4-Terphenyl-d14	531		ug/L	660.8		80	29-129				1

Matrix Spike Dup (B0K0092-MSD1)**Source: 20J0956-01**

Prepared: 11/04/2020 09:28 Analyzed: 11/05/2020 12:12

1,4-Dioxane	364	10.6	ug/L	706.9	ND	51	24-83	3	53		1
1,2,4-Trichlorobenzene	478	21.2	ug/L	706.9	ND	68	34-96	1	27		1
1,2-Dichlorobenzene	416	21.2	ug/L	706.9	ND	59	32-91	2	29		1
1,3-Dichlorobenzene	394	21.2	ug/L	706.9	ND	56	29-90	11	33		1
1,4-Dichlorobenzene	397	21.2	ug/L	706.9	ND	56	31-88	10	32		1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 11/12/2020**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 20J0958**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0K0092 - SW3510 (Continued)**Matrix Spike Dup (B0K0092-MSD1)** (Continued)**Source: 20J0956-01**

Prepared: 11/04/2020 09:28 Analyzed: 11/05/2020 12:12

2,4,5-Trichlorophenol	610	10.6	ug/L	706.9	ND	86	54-120	8	22		1
2,4,6-Trichlorophenol	584	10.6	ug/L	706.9	ND	83	51-117	10	33		1
2,4-Dichlorophenol	552	10.6	ug/L	706.9	ND	78	33-134	3	21		1
2,4-Dimethylphenol	487	21.2	ug/L	706.9	ND	69	17-132	5	23		1
2,4-Dinitrophenol	526	318	ug/L	706.9	ND	74	1-123	4	43		1
2,4-Dinitrotoluene	619	21.2	ug/L	706.9	ND	88	49-124	12	23		1
2,6-Dichlorophenol	536	10.6	ug/L	706.9	ND	76	35-130	5	30		1
2,6-Dinitrotoluene	621	10.6	ug/L	706.9	ND	88	57-121	9	21		1
2-Chloronaphthalene	505	6.36	ug/L	706.9	ND	71	50-101	2	26		1
2-Chlorophenol	531	10.6	ug/L	706.9	ND	75	37-107	4	28		1
2-Methylnaphthalene	531	42.4	ug/L	706.9	ND	75	35-121	2	27		1
2-Methylphenol	515	10.6	ug/L	706.9	ND	73	32-107	3	32		1
2-Nitroaniline	588	318	ug/L	706.9	ND	83	45-123	7	19		1
2-Nitrophenol	558	10.6	ug/L	706.9	ND	79	38-120	6	30		1
3,3'-Dichlorobenzidine	801	212	ug/L	848.4	ND	94	33-137	14	29		1
3 & 4-Methylphenol	489	10.6	ug/L	706.9	ND	69	20-115	4	32		1
3-Nitroaniline	593	21.2	ug/L	706.9	ND	84	39-125	7	19		1
4,6-Dinitro-2-methylphenol	566	159	ug/L	706.9	ND	80	11-132	2	53		1
4-Bromophenyl-phenylether	602	10.6	ug/L	706.9	ND	85	56-116	5	18		1
4-Chloro-3-methylphenol	608	5.30	ug/L	706.9	ND	86	28-144	10	20		1
4-Chloroaniline	595	6.36	ug/L	706.9	ND	84	48-110	7	21		1
4-Chlorophenyl-phenylether	610	10.6	ug/L	706.9	ND	86	55-106	9	20		1
4-Nitroaniline	601	318	ug/L	706.9	ND	85	51-123	7	20		1
4-Nitrophenol	259	159	ug/L	706.9	ND	37	10-81	3	65		1
Acenaphthene	527	6.36	ug/L	706.9	ND	74	27-133	6	20		1
Acenaphthylene	560	6.36	ug/L	706.9	ND	79	47-113	7	21		1
Anthracene	573	6.36	ug/L	706.9	ND	81	61-115	4	20		1
Azobenzene as 1,2-Diphenylhydrazine	539	10.6	ug/L	706.9	ND	76	55-119	5	19		1
Benzidine	454	848	ug/L	848.4	ND	54	10-132	12	30	J	1
Benzo(a)anthracene	608	6.36	ug/L	706.9	ND	86	60-125	12	20		1
Benzo(a)pyrene	622	21.2	ug/L	706.9	ND	88	66-125	5	20		1
Benzo(b)fluoranthene	641	21.2	ug/L	706.9	ND	91	65-128	7	20		1
Benzo(g,h,i)perylene	619	21.2	ug/L	706.9	ND	88	62-123	9	20		1
Benzo(k)fluoranthene	581	21.2	ug/L	706.9	ND	82	64-122	7	20		1
Benzoic acid	482	424	ug/L	1697	ND	28	7-82	0.3	30		1
Benzyl alcohol	501	42.4	ug/L	706.9	ND	71	36-110	3	26		1
Bis(2-chloroethoxy)methane	592	10.6	ug/L	706.9	ND	84	44-112	7	26		1
Bis(2-chloroethyl)ether	556	10.6	ug/L	706.9	ND	79	38-104	4	32		1
Bis(2-chloroisopropyl)ether	474	10.6	ug/L	706.9	ND	67	35-104	3	32		1
Bis(2-ethylhexyl)phthalate	625	212	ug/L	706.9	ND	88	52-139	12	19		1
Butyl benzyl phthalate	661	10.6	ug/L	706.9	ND	94	55-132	11	20		1
Carbazole	594	10.6	ug/L	706.9	ND	84	62-128	10	26		1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 11/12/2020**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 20J0958**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0K0092 - SW3510 (Continued)**Matrix Spike Dup (B0K0092-MSD1) (Continued)****Source: 20J0956-01**

Prepared: 11/04/2020 09:28 Analyzed: 11/05/2020 12:12

Chrysene	613	6.36	ug/L	706.9	ND	87	62-116	12	20		1
Dibenzo(a,h)anthracene	622	21.2	ug/L	706.9	ND	88	46-143	8	22		1
Dibenzofuran	566	6.36	ug/L	706.9	ND	80	53-110	5	20		1
Diethyl phthalate	573	63.6	ug/L	706.9	ND	81	58-117	7	20		1
Dimethyl phthalate	553	6.36	ug/L	706.9	ND	78	61-106	8	20		1
Di-n-butyl phthalate	573	106	ug/L	706.9	ND	81	60-132	5	20		1
Di-n-octyl phthalate	645	106	ug/L	706.9	ND	91	48-135	7	20		1
Fluoranthene	579	10.6	ug/L	706.9	ND	82	63-122	6	20		1
Fluorene	580	6.36	ug/L	706.9	ND	82	46-125	7	20		1
Hexachlorobenzene	603	10.6	ug/L	706.9	ND	85	51-110	8	20		1
Hexachlorobutadiene	405	10.6	ug/L	706.9	ND	57	29-94	13	28		1
Hexachlorocyclopentadiene	321	159	ug/L	706.9	ND	45	9-94	7	42		1
Hexachloroethane	335	10.6	ug/L	706.9	ND	47	25-89	18	32		1
Indeno(1,2,3-cd)pyrene	650	21.2	ug/L	706.9	ND	92	49-137	13	23		1
Isophorone	519	6.36	ug/L	706.9	ND	73	43-110	5	30		1
Naphthalene	482	42.4	ug/L	706.9	ND	68	20-163	0.9	25		1
Nitrobenzene	558	6.36	ug/L	706.9	ND	79	39-113	5	30		1
N-Nitrosodimethylamine	388	10.6	ug/L	706.9	ND	55	18-90	0.4	35		1
N-Nitrosodi-n-propylamine	538	21.2	ug/L	706.9	ND	76	37-116	5	27		1
N-Nitrosodiphenylamine	570	6.36	ug/L	706.9	ND	81	62-114	6	19		1
Pentachlorophenol	580	318	ug/L	706.9	ND	82	12-122	7	46		1
Phenanthrene	574	10.6	ug/L	706.9	ND	81	41-129	5	19		1
Phenol	327	10.6	ug/L	706.9	ND	46	10-68	5	37		1
Pyrene	594	10.6	ug/L	706.9	ND	84	59-124	10	20		1
<hr/>											
Surrogate: 2-Fluorophenol	374		ug/L	707.0		53	10-88				1
Surrogate: Phenol-d5	268		ug/L	707.0		38	10-65				1
Surrogate: Nitrobenzene-d5	532		ug/L	707.0		75	25-128				1
Surrogate: 2-Fluorobiphenyl	480		ug/L	707.0		68	24-114				1
Surrogate: 2,4,6-Tribromophenol	564		ug/L	707.0		80	15-119				1
Surrogate: 4-Terphenyl-d14	592		ug/L	707.0		84	29-129				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 11/12/2020**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 20J0958**Subcontracted Analyses**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0K0078 - SW5030**Matrix Spike (B0K0078-MS1)****Source: 20J0958-01**

Prepared: 11/03/2020 07:00 Analyzed: 11/03/2020 09:23

1,4-Dioxane	4.45		ug/L	4.000	0.100	109	70-130				1
Surrogate: Toluene-d8	6.16		ug/L	4.000		154	80-120			S	1

Matrix Spike Dup (B0K0078-MSD1)**Source: 20J0958-01**

Prepared: 11/03/2020 07:00 Analyzed: 11/03/2020 09:47

1,4-Dioxane	4.26		ug/L	4.000	0.100	104	70-130	4	20		1
Surrogate: Toluene-d8	3.34		ug/L	4.000		84	80-120				1

Certified Analyses included in this Report

Analyte	CAS #	Certifications
SW8082A in Water		
Aroclor 1016	12674-11-2	AKDEC,WDNR,DoD,ILEPA
Aroclor 1016	12674-11-2	AKDEC,WDNR,DoD,ILEPA
Aroclor 1221	11104-28-2	AKDEC,WDNR,DoD,ILEPA
Aroclor 1221	11104-28-2	AKDEC,WDNR,DoD,ILEPA
Aroclor 1232	11141-16-5	AKDEC,WDNR,DoD,ILEPA
Aroclor 1232	11141-16-5	AKDEC,WDNR,DoD,ILEPA
Aroclor 1242	53469-21-9	AKDEC,WDNR,DoD,ILEPA
Aroclor 1242	53469-21-9	AKDEC,WDNR,DoD,ILEPA
Aroclor 1248	12672-29-6	AKDEC,WDNR,DoD,ILEPA
Aroclor 1248	12672-29-6	AKDEC,WDNR,DoD,ILEPA
Aroclor 1254	11097-69-1	AKDEC,WDNR,DoD,ILEPA
Aroclor 1254	11097-69-1	AKDEC,WDNR,DoD,ILEPA
Aroclor 1260	11096-82-5	AKDEC,WDNR,DoD,ILEPA
Aroclor 1260	11096-82-5	AKDEC,WDNR,DoD,ILEPA
Total PCB	1336-36-3	AKDEC,WDNR,DoD,ILEPA
Total PCB	1336-36-3	AKDEC,WDNR,DoD,ILEPA
SW8260B in Water		
1,1,1,2-Tetrachloroethane	630-20-6	WDNR,DoD,ILEPA
1,1,1-Trichloroethane	71-55-6	AKDEC,WDNR,DoD,ILEPA
1,1,2,2-Tetrachloroethane	79-34-5	AKDEC,WDNR,DoD,ILEPA
1,1,2-Trichloroethane	79-00-5	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloroethane	75-34-3	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloroethene	75-35-4	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloropropene	563-58-6	WDNR,DoD,ILEPA
1,2,3-Trichlorobenzene	87-61-6	WDNR,DoD,ILEPA
1,2,3-Trichloropropane	96-18-4	AKDEC,WDNR,DoD,ILEPA
1,2,4-Trimethylbenzene	95-63-6	WDNR,DoD,ILEPA
1,2-Dibromo-3-chloropropane	96-12-8	AKDEC,WDNR,DoD,ILEPA
1,2-Dibromoethane	106-93-4	AKDEC,WDNR,DoD,ILEPA
1,2-Dichloroethane	107-06-2	AKDEC,WDNR,DoD,ILEPA
1,2-Dichloropropane	78-87-5	AKDEC,WDNR,DoD,ILEPA
1,3,5-Trimethylbenzene	108-67-8	WDNR,DoD,ILEPA
1,3-Dichloropropane	142-28-9	WDNR,DoD,ILEPA
2,2-Dichloropropane	594-20-7	WDNR,DoD,ILEPA
2-Butanone	78-93-3	WDNR,DoD,ILEPA
2-Chlorotoluene	95-49-8	WDNR,DoD,ILEPA
2-Hexanone	591-78-6	WDNR,DoD,ILEPA
4-Isopropyltoluene	99-87-6	WDNR,DoD,ILEPA
4-Methyl-2-pentanone	108-10-1	WDNR,DoD,ILEPA
Acetone	67-64-1	WDNR,DoD,ILEPA

Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW8260B in Water (Continued)		
Benzene	71-43-2	AKDEC,WDNR,DoD,ILEPA
Bromobenzene	108-86-1	WDNR,DoD,ILEPA
Bromochloromethane	74-97-5	WDNR,DoD,ILEPA
Bromodichloromethane	75-27-4	AKDEC,WDNR,DoD,ILEPA
Bromoform	75-25-2	AKDEC,WDNR,DoD,ILEPA
Bromomethane	74-83-9	AKDEC,WDNR,DoD,ILEPA
Carbon disulfide	75-15-0	WDNR,DoD,ILEPA
Carbon tetrachloride	56-23-5	AKDEC,WDNR,DoD,ILEPA
Chlorobenzene	108-90-7	AKDEC,WDNR,DoD,ILEPA
Chloroethane	75-00-3	WDNR,DoD,ILEPA
Chloroform	67-66-3	AKDEC,WDNR,DoD,ILEPA
Chloromethane	74-87-3	AKDEC,WDNR,DoD,ILEPA
cis-1,2-Dichloroethene	156-59-2	WDNR,DoD,ILEPA
cis-1,3-Dichloropropene	10061-01-5	AKDEC,WDNR,DoD,ILEPA
Cyclohexane	110-82-7	DoD
Dibromochloromethane	124-48-1	AKDEC,WDNR,DoD,ILEPA
Dibromomethane	74-95-3	WDNR,DoD,ILEPA
Dichlorodifluoromethane	75-71-8	WDNR,DoD,ILEPA
Ethylbenzene	100-41-4	AKDEC,WDNR,DoD,ILEPA
Isopropylbenzene	98-82-8	WDNR,DoD,ILEPA
m,p-Xylene	179601-23-1	AKDEC,WDNR,DoD,ILEPA
Methyl tert-butyl ether	1634-04-4	WDNR,DoD,ILEPA
Methylene chloride	75-09-2	AKDEC,WDNR,DoD,ILEPA
n-Butylbenzene	104-51-8	WDNR,DoD,ILEPA
n-Propylbenzene	103-65-1	WDNR,DoD,ILEPA
o-Xylene	95-47-6	AKDEC,WDNR,DoD,ILEPA
sec-Butylbenzene	135-98-8	WDNR,DoD,ILEPA
Styrene	100-42-5	WDNR,DoD
tert-Butylbenzene	98-06-6	WDNR,DoD,ILEPA
Tetrachloroethene	127-18-4	AKDEC,WDNR,DoD,ILEPA
Toluene	108-88-3	AKDEC,WDNR,DoD,ILEPA
trans-1,2-Dichloroethene	156-60-5	AKDEC,WDNR,DoD,ILEPA
trans-1,3-Dichloropropene	10061-02-6	AKDEC,WDNR,DoD,ILEPA
Trichloroethene	79-01-6	AKDEC,WDNR,DoD,ILEPA
Trichlorofluoromethane	75-69-4	AKDEC,WDNR,DoD,ILEPA
Vinyl chloride	75-01-4	AKDEC,WDNR,DoD,ILEPA
Xylenes, Total	1330-20-7	AKDEC,WDNR,DoD,ILEPA
SW8260-SIM Modified in Water		
1,4-Dioxane	123-91-1	WDNR

SW8270D in Water

Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW8270D in Water (Continued)		
1,2,4-Trichlorobenzene	120-82-1	WDNR,DoD,ILEPA
1,2-Dichlorobenzene	95-50-1	WDNR,DoD,ILEPA
1,3-Dichlorobenzene	541-73-1	WDNR,DoD,ILEPA
1,4-Dichlorobenzene	106-46-7	WDNR,DoD,ILEPA
2,4,5-Trichlorophenol	95-95-4	WDNR,DoD,ILEPA
2,4,6-Trichlorophenol	88-06-2	WDNR,DoD,ILEPA
2,4-Dichlorophenol	120-83-2	WDNR,DoD,ILEPA
2,4-Dimethylphenol	105-67-9	WDNR,DoD,ILEPA
2,4-Dinitrophenol	51-28-5	WDNR,DoD,ILEPA
2,4-Dinitrotoluene	121-14-2	WDNR,DoD,ILEPA
2,6-Dinitrotoluene	606-20-2	WDNR,DoD,ILEPA
2-Chloronaphthalene	91-58-7	WDNR,DoD,ILEPA
2-Chlorophenol	95-57-8	WDNR,DoD,ILEPA
2-Methylnaphthalene	91-57-6	AKDEC,WDNR,DoD,ILEPA
2-Methylphenol	95-48-7	WDNR,DoD,ILEPA
2-Nitroaniline	88-74-4	WDNR,DoD,ILEPA
2-Nitrophenol	88-75-5	WDNR,DoD,ILEPA
3,3'-Dichlorobenzidine	91-94-1	WDNR,DoD,ILEPA
3 & 4-Methylphenol	84989-04-8	WDNR,DoD,ILEPA
3-Nitroaniline	99-09-2	WDNR,DoD,ILEPA
4,6-Dinitro-2-methylphenol	534-52-1	WDNR,DoD,ILEPA
4-Bromophenyl-phenylether	101-55-3	WDNR,DoD,ILEPA
4-Chloro-3-methylphenol	59-50-7	WDNR,DoD,ILEPA
4-Chloroaniline	106-47-8	WDNR,DoD,ILEPA
4-Chlorophenyl-phenylether	7005-72-3	WDNR,DoD,ILEPA
4-Nitroaniline	100-01-6	WDNR,DoD,ILEPA
4-Nitrophenol	100-02-7	WDNR,DoD,ILEPA
Acenaphthene	83-32-9	AKDEC,WDNR,DoD,ILEPA
Acenaphthylene	208-96-8	AKDEC,WDNR,DoD,ILEPA
Anthracene	120-12-7	AKDEC,WDNR,DoD,ILEPA
Azobenzene as 1,2-Diphenylhydrazine	103-33-3	WDNR,DoD,ILEPA
Benzidine	92-87-5	WDNR,DoD,ILEPA
Benzo(a)anthracene	56-55-3	AKDEC,WDNR,DoD,ILEPA
Benzo(a)pyrene	50-32-8	AKDEC,WDNR,DoD,ILEPA
Benzo(b)fluoranthene	205-99-2	AKDEC,WDNR,DoD,ILEPA
Benzo(g,h,i)perylene	191-24-2	AKDEC,WDNR,DoD,ILEPA
Benzo(k)fluoranthene	207-08-9	AKDEC,WDNR,DoD,ILEPA
Benzoic acid	65-85-0	WDNR,DoD,ILEPA
Benzyl alcohol	100-51-6	WDNR,DoD,ILEPA
Bis(2-chloroethoxy)methane	111-91-1	WDNR,DoD,ILEPA
Bis(2-chloroethyl)ether	111-44-4	WDNR,DoD,ILEPA

Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW8270D in Water (Continued)		
Bis(2-chloroisopropyl)ether	108-60-1	WDNR,DoD,ILEPA
Bis(2-ethylhexyl)phthalate	117-81-7	WDNR,DoD,ILEPA,ISO
Butyl benzyl phthalate	85-68-7	WDNR,DoD,ILEPA,ISO
Carbazole	86-74-8	WDNR,DoD,ILEPA
Chrysene	218-01-9	AKDEC,WDNR,DoD,ILEPA
Dibenzo(a,h)anthracene	53-70-3	AKDEC,WDNR,DoD,ILEPA
Dibenzofuran	132-64-9	WDNR,DoD,ILEPA
Diethyl phthalate	84-66-2	WDNR,DoD,ILEPA
Dimethyl phthalate	131-11-3	WDNR,DoD,ILEPA
Di-n-butyl phthalate	84-74-2	WDNR,DoD,ILEPA
Di-n-octyl phthalate	117-84-0	WDNR,DoD,ILEPA,ISO
Fluoranthene	206-44-0	AKDEC,WDNR,DoD,ILEPA
Fluorene	86-73-7	AKDEC,WDNR,DoD,ILEPA
Hexachlorobenzene	118-74-1	WDNR,DoD,ILEPA
Hexachlorobutadiene	87-68-3	WDNR,DoD,ILEPA
Hexachlorocyclopentadiene	77-47-4	WDNR,DoD,ILEPA
Hexachloroethane	67-72-1	WDNR,DoD,ILEPA
Indeno(1,2,3-cd)pyrene	193-39-5	AKDEC,WDNR,DoD,ILEPA
Isophorone	78-59-1	WDNR,DoD,ILEPA
Naphthalene	91-20-3	AKDEC,WDNR,DoD,ILEPA
Nitrobenzene	98-95-3	WDNR,DoD,ILEPA
N-Nitrosodimethylamine	62-75-9	WDNR,DoD,ILEPA
N-Nitrosodi-n-propylamine	621-64-7	DoD,ILEPA
N-Nitrosodiphenylamine	86-30-6	WDNR,DoD,ILEPA
Pentachlorophenol	87-86-5	WDNR,DoD,ILEPA
Phenanthrene	85-01-8	AKDEC,WDNR,DoD,ILEPA
Phenol	108-95-2	WDNR,DoD,ILEPA
Pyrene	129-00-0	AKDEC,WDNR,DoD,ILEPA
SW9060 in Water		
Organic Carbon, Total	7440-44-0	DoD,ILEPA,WDNR

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	17-011	05/31/2022
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L18-184-R1	03/31/2021
DoD	Department of Defense, Accredited by PJLA	L18-183-R3	03/31/2021
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	1002562020-3	07/27/2021
ISO	ISO/IEC 17025, Accredited by PJLA	L18-184-R1	03/31/2021
TX	Texas Commission of Environmental Quality	T104704554-20-5	10/31/2021
WA	Washington State Department of Ecology	C1057	01/05/2021
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2021

Qualifiers and Definitions

Item	Description
J	The reported result is an estimated value.
P	The quality control sample %RPD is above the laboratory control limit.
Q	One or more quality control results were outside of the acceptance limits (e.g. LCS recovery, surrogate spike recovery, or CCV recovery).
S	The quality control sample recovery is outside of the laboratory control limits.
S1	The percent recovery is above the limits (e.g. LCS recovery, surrogate spike recovery, or CCV recovery), but the analyte was not detected in the sample. Data is acceptable.
S2	The percent recovery is outside the lab control limits, but within the method acceptable limits. Data is acceptable.
%Rec	Percent Recovery
MDL	In the state of Wisconsin MDL is equivalent to LOD; in all other applications MDL is equivalent to MDL. In the state of Wisconsin the Reporting Limit is equivalent to LOQ.



**Environmental
Monitoring and
Technologies, Inc.**
www.emt.com

509 N. 3rd Ave.
Des Plaines, IL 60016



20J0958
PM: Nicole Ryan
Geosyntec DoD
Milw Die Cast

Chain of Custody Record

TURNAROUND TIME:
 RUSH
 _____ day turnaround
 ROUTINE

663
 Fax: 847-967-6735 Due Date: _____ COC #: _____

Company: Geosyntec Consultants
 Address: 10600 North Port Washington Road
Suite 100
Mequon, WI 53092
 Phone #: (262) 834-0228 Fax #: () _____
 P.O. #: _____ Proj. #: CHW8271N
 Client Contact: Jeremiah Johnson
 Project ID / Location: MDQC (CHW8271N)

Sample Type:
 1. Waste Water 4. Sludge 7. Groundwater (filtered)
 2. Drinking Water 5. Oil 8. Other
 3. Soil 6. Groundwater

Container Type:
 P - Plastic V - VOC Vial O - Other
 G - Glass B - Tedlar Bag

Preservative:
 1. None 4. NaOH 7. Zn Ace
 2. H₂SO₄ 5. HCl 8. Other
 3. HNO₃ 6. MeOH

Analyses

VOCs
 1,4-dioxane
 PCBs (F, Filtered)
 PCBs (unfiltered)
 SVOCs (unfiltered)
 TOC

**EMT
USE
ONLY**

**EMT
WORKORDER**
 # 20J0958

Sample I.D.	Sample Type	Container			Sampling						Preservation		Analysis					
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab							
MW-5	6	40mL	V	8	CK	10/29/20	0845	/	/	5			X	X				01B-1
MW-5	6	1L	G	2	CK	10/29/20	0845	/	/	1					X	X		01JK
MW-5 (F)	7	1L	G	1	CK	10/29/20	0845	/	/	1				X				02A
MW-10	6	40mL	V	6	CK	10/29/20	1036	/	/	5			X	X				03A-F
MW-10	6	1L	G	1	CK	10/29/20	1036	/	/	1					X			03H
MW-10 (F)	7	1L	G	1	CK	10/29/20	1036	/	/	1				X				04A
MW-11	6	40mL	V	6	CK	10/29/20	0957	/	/	5			X	X				05B-G
MW-11	6	1L	G	1	CK	10/29/20	0957	/	/	1				X				05H
TRIP BLANK	8	40 mL											X					06AB

Relinquished By: <u>Codyan Bob</u>	Date: <u>10-30-20</u> Time: <u>0845</u>	Received By: <u>Yuhara</u>	Date: <u>10-30-20</u> Time: <u>0845</u>	EMT USE ONLY Client Code:	<input checked="" type="checkbox"/> SAMPLE RECEIVED ON ICE <input type="checkbox"/> TEMPERATURE (Must be recorded if sampling was greater than 6 hrs. prior to sample receipt) <u>4.9</u> EMT SAMPLE RETURN POLICY ON BACK
Relinquished By: <u>Shawara</u>	Date: <u>10-30-20</u> Time: <u>1220</u>	Received By:	Date: - - Time: :	EMT Project I.D.:	
Relinquished By:	Date: - - Time: :	Received For Lab By: <u>Aqmescha Zabawa</u>	Date: <u>10-30-2020</u> Time: <u>12:20</u>	Jar Lot No.:	

SPECIAL INSTRUCTIONS:

Sample Receipt Checklist

Work Order: 20J0958

Printed: 10/30/2020 1:30:12PM

Client: Geosyntec DoD
Project: Milw Die Cast

Date Due: Friday, November 13, 2020

Received By: Agnieszka B. Zabawa
Logged In By: Agnieszka B. Zabawa

Date Received: 10/30/20 12:20
Date Logged In: 10/30/20 13:29

Sample Temperature at Receipt:	4.9°C
How were samples received?	EMT
Custody Seals Present	Yes
Custody Seals Intact	No
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	Yes
Vials Contain > Pea Sized Air Bubble	No

Custody Seals in the following locations received broken:

Comments

Custody seal broken by EMT Technician to ice down samples.

ABZ

10/30/2020

November 05, 2020

Nicole Ryan
Environmental Monitoring & Technologies
8100 North Austin Avenue
Morton Grove, IL 60053

RE: Project: CHW8271N MDCC
Pace Project No.: 40217530

Dear Nicole Ryan:

Enclosed are the analytical results for sample(s) received by the laboratory on October 31, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Jeremiah Johnson, GEOSYNTEC CONSULTANTS



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: CHW8271N MDCC

Pace Project No.: 40217530

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: CHW8271N MDCC

Pace Project No.: 40217530

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40217530001	MW-5	Water	10/29/20 08:45	10/31/20 07:55

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SAMPLE ANALYTE COUNT

Project: CHW8271N MDCC
Pace Project No.: 40217530

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40217530001	MW-5	EPA 8015B Modified	ALD	3

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CHW8271N MDCC

Pace Project No.: 40217530

Sample: MW-5 **Lab ID: 40217530001** Collected: 10/29/20 08:45 Received: 10/31/20 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	<1.2	ug/L	5.6	1.2	1		11/04/20 10:20	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		11/04/20 10:20	74-85-1	
Methane	1.2J	ug/L	2.8	0.66	1		11/04/20 10:20	74-82-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CHW8271N MDCC
Pace Project No.: 40217530

QC Batch: 370196	Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 8015B Modified	Analysis Description: Methane, Ethane, Ethene GCV
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40217530001

METHOD BLANK: 2139960 Matrix: Water

Associated Lab Samples: 40217530001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<1.2	5.6	11/04/20 07:54	
Ethene	ug/L	<1.2	5.0	11/04/20 07:54	
Methane	ug/L	<0.66	2.8	11/04/20 07:54	

LABORATORY CONTROL SAMPLE & LCSD: 2139961 2139962

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	53.6	55.7	57.1	104	107	80-120	3	20	
Ethene	ug/L	50	51.1	52.3	102	105	80-120	2	20	
Methane	ug/L	28.6	29.9	30.8	105	108	79-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2140142 2140143

Parameter	Units	40217203002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	<1.2	53.6	53.6	54.4	55.9	102	104	79-120	3	20	
Ethene	ug/L	<1.2	50	50	49.7	51.0	99	102	79-120	3	20	
Methane	ug/L	2.2J	28.6	28.6	31.8	32.8	103	107	10-200	3	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: CHW8271N MDCC

Pace Project No.: 40217530

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CHW8271N MDCC
Pace Project No.: 40217530

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40217530001	MW-5	EPA 8015B Modified	370196		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Geosyntec Consultants
Branch/Location: Mequon, WI
Project Contact: Jeremiah Johnson
Phone: 2628340228
Project Number: CHW8271N
Project Name: MDCC
Project State: WI
Sampled By (Print): C. Kulp
Sampled By (Sign): *Cody Kulp*
PO #: _____
Regulatory Program: _____



CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
PRESERVATION
(CODE)*

Y/N	Pick Letter	Analysis Requested
Z	B	methane, ethane
X		

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

Data Package Options
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	MW-5	10/29/20	0845	GW
	MW-10 CK			
	MW-10 CK			

Handwritten note: GND CK 10/29/2020 with an arrow pointing to the first row.

Quote #: _____

Mail To Contact: Jeremiah Johnson

Mail To Company: Geosyntec

Mail To Address: 10600N. Port Washington Rd
Ste 100
Mequon, WI

Invoice To Contact: Nicole Ryan

Invoice To Company: Environmental Monitoring and Technologies, Inc.

Invoice To Address: 509 N 3rd Ave
Des Plaines, IL 60016

Invoice To Phone: 847-324-3362

CLIENT COMMENTS

LAB COMMENTS (Lab Use Only)

Profile #

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
Date Needed: _____

Transmit Prelim Rush Results by (complete what you want):

Email #1: _____

Email #2: _____

Telephone: _____

Fax: _____

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: *Cody Kulp* **Date/Time:** 10/30/20 9:40

Relinquished By: *Mary Fannin* **Date/Time:** 10/30/20 1435

Relinquished By: *C.S. Logistics* **Date/Time:** 10/31/20 0755

Relinquished By: _____ **Date/Time:** _____

Received By: *Mary Fannin* **Date/Time:** 10/30/20 9:46

Received By: _____ **Date/Time:** _____

Received By: *Michelle Lane* **Date/Time:** 10/31/20 0755

Received By: _____ **Date/Time:** _____

PACE Project No.
40217530

Receipt Temp = ROT °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Sample Preservation Receipt Form

Page 10 of 11

Client Name: Geosyntec

Project # 4047530

All containers needing preservation have been checked and noted below: Yes No N/A

Initial when completed:

Date/Time:

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass						Plastic					Vials					Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)			
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JG9U	JG9U	WG9U	WPFU								SP5T	ZPLC	GN
001																3																	2.5 / 5 / 10
002																																	2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
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018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

10/31/20
 10

Exceptions to preservation check: VOA Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9A	40 mL clear ascorbic	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WG9U	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG5U	100 mL amber glass unpres			VG9D	40 mL clear vial DI	ZPLC	ziploc bag
AG2S	500 mL amber glass H2SO4					GN	
BG3U	250 mL clear glass unpres						



Document Name:
Sample Condition Upon Receipt (SCUR)

Document Revised: 26Mar2020

Document No.:
ENV-FRM-GBAY-0014-Rev.00

Author:
Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: _____

Client Name: Coosyntec

WO# : 40217530



Courier: CS Logistics Fed Ex Speedee UPS Walto
 Client Pace Other: _____

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROT /Corr: _____

Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Person examining contents:
Date: 10/31/20 /Initials: MLR
Labeled By Initials: MLR

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir

Memorandum

Date: January 4, 2021
To: Jeremiah Johnson
From: Matthew Richardson
CC: J. Caprio
Subject: **Stage 2A Data Validation – Level II Data Deliverable –
Environmental Monitoring and Technologies Work Order #20J0958**

SITE: Milwaukee Die Casting Company Site, Milwaukee, WI

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of three water samples and one trip blank collected on October 29 and 30, 2020, during a Milwaukee Die Casting Company Site sampling event. The analyses were performed by Environmental Monitoring and Technologies (EMT), Inc, Des Plaines, Illinois. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by United States Environmental Protection Agency (US EPA) Methods 5030/8260B
- 1,4-Dioxane by US EPA Methods 5030/8260B using Selective Ion Monitoring (SIM)
- Semivolatile Organic Compounds (SVOCs) by US EPA Methods 3510/8270D
- Polychlorinated Biphenyls (PCBs) by US EPA Methods 3510/8082A
- Total Organic Carbon (TOC) by US EPA Method 9060

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and the information provided, the data are usable for supporting project objectives.

The data were reviewed based on the pertinent methods referenced by the data package, professional and technical judgment and the following documents:

- Updated Site Investigation Work Plan, Milwaukee Die Casting Company Site, 4132 North Holton Street. Milwaukee, Wisconsin, November 12, 2019
- US EPA National Functional Guidelines for Organic Superfund Methods Data Review, January 2017 (USEPA-540-R-2017-002)

The following samples were analyzed in the data set and validated at a Stage 2A level:

Laboratory ID	Client ID
20J0958-01	MW-5
20J0958-02	MW-5 (F)
20J0958-03	MW-10

Laboratory ID	Client ID
20J0958-04	MW-10 (F)
20J0958-05	MW-11
20J0958-06	Trip Blank

The samples were received at the laboratory at 4.9°C within the temperature criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

A collection time and date were not documented on the chain of custody (COC) for the trip blank. The trip blank was logged in with the collection date and time of 10/30/20 00:00.

Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

For the PCB analyses, the samples MW-5 and MW-10 were collected in duplicates consisting of one field filtered sample and one unfiltered sample each.

The laboratory report was revised on 9 December 2020 to add method blank and laboratory control sample (LCS) data for the 1,4-dioxane analysis. The pdf was identified as 20J0958 EMT_Default FINAL 12 09 20 1504.

1.0 VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE

The samples were analyzed for VOCs per US EPA Methods 5030/8260 and 1,4-dioxane by US EPA Methods 5030/8260 using SIM.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine the impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Trip Blank
- ✓ Surrogates
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Sensitivity

- ✓ Electronic Data Deliverable Review

1.1 **Overall Assessment**

The VOC and 1,4-dioxane data reported in this package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for the sample set is 100%.

1.2 **Holding Times**

The holding time for the VOC and 1,4-dioxane analyses of a preserved water sample is 14 days from collection to analysis. The holding times were met for the sample analyses.

1.3 **Method Blank**

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches BOK0079 and BOK0078). VOCs and 1,4-dioxane were not detected in the method blanks above the method detection limits (MDLs).

1.4 **Matrix Spike/Matrix Spike Duplicate (MS/MSD)**

One sample set specific MS/MSD pair was reported for 1,4-dioxane using sample MW-5. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.5 **Laboratory Control Sample**

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCS duplicate (LCSD) pair and one LCS were reported. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The RPD results for 1,1-dichloroethene and 2-hexanone in the LCS/LCSD pair in batch BOK0079 were high and outside the laboratory specified acceptance criteria. Since 1,1-dichloroethene and 2-hexanone were not detected in the associated samples, no qualifications were applied to the data.

1.6 Trip Blank

One trip blank was submitted with the sample set, Trip Blank. VOCs were not detected in the trip blank above the MDLs.

1.7 Surrogates

The surrogate recoveries were within the laboratory specified acceptance criteria, with the following exceptions.

The surrogate recovery of 1,2-dichlorobenzene-d4 for the LCSD in batch B0K0079 was low and outside the laboratory specified acceptance criteria. Since the recoveries of the remaining five surrogates were within the laboratory specified acceptance limits, no qualifications were applied to the data, based on professional and technical judgment.

The surrogate recovery of toluene-d8 for the MS using sample MW-5 was high and outside the laboratory specified acceptance criteria. Since 1,4-dioxane was not detected in sample MW-5, no qualifications were applied to the data, based on professional and technical judgment.

1.8 Equipment Blank

An equipment blank was not collected with the sample set.

1.9 Field Duplicate

A field duplicate sample was not collected with the sample set.

1.10 Sensitivity

The samples were assessed to the MDLs and reported to the limit of detections (LODs). Elevated non-detect results were not reported.

1.11 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

Sample MW-5 was analyzed for SVOCs per US EPA Methods 3510/8270.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine the impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Blank
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for the data set is 100%.

2.2 Holding Times

The holding times for the SVOC analysis of water samples are 7 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analysis.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported, both from batch B0K0092. SVOCs were not detected in the method blanks above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One batch MS/MSD pair was reported. Since these were

batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

The surrogate recoveries were within the laboratory specified acceptance criteria.

2.7 Equipment Blank

An equipment blank was not collected with the sample set.

2.8 Field Duplicate

A field duplicate sample was not collected with the sample set.

2.9 Sensitivity

The sample was assessed to the MDLs and reported to the LODs. Elevated non-detect results were not reported.

2.10 Electronic Data Deliverable Review

The results and sample ID in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs per US EPA Methods 3510/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times

- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Assessment of Total PCBs vs. Filtered PCBs
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this package are considered to be usable for supporting project objectives. The results are considered to be valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for the project is 100%.

3.2 Holding Times

The holding times for the PCB analysis of a water sample are 7 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch B0K0016). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported using sample MW-5. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Surrogates

The surrogate recoveries were within the laboratory specified acceptance criteria.

3.7 Equipment Blank

An equipment blank was not collected with the sample set.

3.8 Field Duplicate

A field duplicate sample was not collected with the sample set.

3.9 Assessment of Total PCB vs. Dissolved PCB

The samples MW-10 and MW-5 were analyzed for both total and dissolved PCBs. The concentrations of total PCBs were greater than or equal to the concentrations of dissolved PCBs in the samples.

3.10 Sensitivity

The sample was assessed to the MDLs and reported to the LODs. Elevated non-detect results were not reported.

3.11 Electronic Data Deliverable Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

4.0 TOTAL ORGANIC CARBON

Sample MW-5 was analyzed for TOC by US EPA method 9060A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank

- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The TOC data reported in this package are considered usable for supporting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for the sample set is 100%.

4.2 Holding Times

The holding time for the TOC analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported, both from batch B0K0081. TOC was detected in the method blanks at estimated concentrations greater than the MDL and less than the reporting limit (RL). Since TOC was detected at a concentration greater than the RL in the associated sample, no qualifications were applied to the data, based on professional and technical judgment.

4.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One batch MS/MSD pair was reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

4.5 Laboratory Duplicate

Laboratory duplicates were not reported with the sample set.

4.6 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

One method reporting limit (MRL) standard was reported. The recovery result was within the laboratory specified acceptance criteria.

4.7 Equipment Blank

An equipment blank was not collected with the sample set.

4.8 Field Duplicate

A field duplicate sample was not collected with the sample set.

4.9 Sensitivity

The sample was assessed to the MDL reported to the LOD. Elevated non-detect results were not reported.

4.10 Electronic Data Deliverable (EDD) Review

Results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Analytical Report

Jeremiah Johnson
Geosyntec Consultants
10600 N. Port Washington Rd.
Mequon, WI 53092

February 10, 2021

Work Order: 21A0717

RE: Milw Die Cast

Dear Jeremiah Johnson:

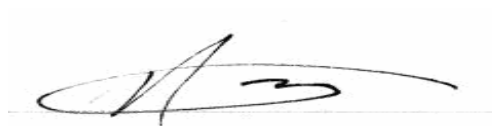
Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,



Nicole Ryan
Federal Project Manager
847.967.6666
nryan@emt.com
Approved for release: 2/3/2021 9:51:04AM

Approved by,



Nathan Fey
Laboratory Operations Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Wisconsin Dept of Natural Resources, Cert No. 999888890

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Sample Summary

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	21A0717-01	Groundwater	01/21/21 10:35	01/22/21 14:50
MW-1 Filtered	21A0717-02	Groundwater	01/21/21 10:35	01/22/21 14:50
MW-2	21A0717-03	Groundwater	01/20/21 11:30	01/22/21 14:50
MW-2 Filtered	21A0717-04	Groundwater	01/20/21 11:30	01/22/21 14:50
MW-3	21A0717-05	Groundwater	01/18/21 11:55	01/22/21 14:50
MW-3 Filtered	21A0717-06	Groundwater	01/18/21 11:55	01/22/21 14:50
MW-4	21A0717-07	Groundwater	01/20/21 14:30	01/22/21 14:50
MW-4 Filtered	21A0717-08	Groundwater	01/20/21 14:30	01/22/21 14:50
MW-5	21A0717-09	Groundwater	01/21/21 09:10	01/22/21 14:50
MW-5 Filtered	21A0717-10	Groundwater	01/21/21 09:10	01/22/21 14:50
MW-6	21A0717-11	Groundwater	01/20/21 11:30	01/22/21 14:50
MW-6 Filtered	21A0717-12	Groundwater	01/20/21 11:30	01/22/21 14:50
MW-6 DUP	21A0717-13	Groundwater	01/20/21 11:30	01/22/21 14:50
MW-6 DUP Filtered	21A0717-14	Groundwater	01/20/21 11:30	01/22/21 14:50
MW-7	21A0717-15	Groundwater	01/19/21 09:20	01/22/21 14:50
MW-7 Filtered	21A0717-16	Groundwater	01/19/21 09:20	01/22/21 14:50
MW-8	21A0717-17	Groundwater	01/19/21 12:05	01/22/21 14:50
MW-8 Filtered	21A0717-18	Groundwater	01/19/21 12:05	01/22/21 14:50
MW-9	21A0717-19	Groundwater	01/19/21 11:15	01/22/21 14:50
MW-9 Filtered	21A0717-20	Groundwater	01/19/21 01:15	01/22/21 14:50
MW-10	21A0717-21	Groundwater	01/20/21 08:55	01/22/21 14:50
MW-10 Filtered	21A0717-22	Groundwater	01/20/21 08:55	01/22/21 14:50
MW-11	21A0717-23	Groundwater	01/19/21 14:15	01/22/21 14:50
MW-11 Filtered	21A0717-24	Groundwater	01/19/21 14:15	01/22/21 14:50
MW-12	21A0717-25	Groundwater	01/18/21 11:20	01/22/21 14:50
MW-12 Filtered	21A0717-26	Groundwater	01/18/21 11:20	01/22/21 14:50
MW-13	21A0717-27	Groundwater	01/18/21 14:55	01/22/21 14:50
MW-13 Filtered	21A0717-28	Groundwater	01/18/21 14:55	01/22/21 14:50
MW-14	21A0717-29	Groundwater	01/19/21 08:30	01/22/21 14:50
MW-14 Filtered	21A0717-30	Groundwater	01/19/21 08:30	01/22/21 14:50
PZ-1	21A0717-31	Groundwater	01/20/21 15:40	01/22/21 14:50
PZ-1 Filtered	21A0717-32	Groundwater	01/20/21 15:40	01/22/21 14:50
PZ-1 DUP	21A0717-33	Groundwater	01/20/21 15:40	01/22/21 14:50
PZ-1 DUP Filtered	21A0717-34	Groundwater	01/20/21 15:40	01/22/21 14:50
PZ-2	21A0717-35	Groundwater	01/19/21 09:30	01/22/21 14:50
PZ-2 Filtered	21A0717-36	Groundwater	01/19/21 09:30	01/22/21 14:50
PZ-10	21A0717-37	Groundwater	01/20/21 09:30	01/22/21 14:50
PZ-10 Filtered	21A0717-38	Groundwater	01/20/21 09:30	01/22/21 14:50
TB-011221	21A0717-39	Water	01/12/21 00:00	01/22/21 14:50
EB-1	21A0717-40	Water	01/21/21 16:00	01/22/21 14:50

Case Narrative

Client: Geosyntec Consultants

Date: 02/10/2021

Project: Milw Die Cast

Work Order: 21A0717

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 21A0717

The samples were received on 01/22/21 14:50. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was:

<u>Cooler</u>	<u>Temp C°</u>
1	4.7
10	5.2
11	4.8
2	5.7
3	5.7
4	6.0
5	3.3
6	4.0
7	5.4
8	4.8
9	4.2

R1) This report has been modified to report all filtered PCBs off of an undiluted run. Samples 06, 26 and 28 were initially reported off of a diluted run.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

GC-MS Volatiles

8260B p Dioxane

21A0717-15, 29, 37, and B1A0755-MS1/MSD1 had lower Internal standard recoveries that were still within acceptance limits, but created a high biased recovery for the Surrogates. The target compound for the samples was non-detected, so even with a potential high bias, the samples are still below reporting levels. All instrument and batch QC is within the acceptance limits.

Wet Chemistry

Method 9060 TOC

21A0717-19: The % Recovery for S1A0294-CRL2/CRL3 was above the limits; the sample was re-run.

Client Sample Results

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-1
Report Date: 02/10/2021
Collection Date: 01/21/2021 10:35
Matrix: Groundwater
Lab ID: 21A0717-01

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	2.80	1.00		mg/L	0.400	0.800	01/25/21 21:12	B1A0740	TB2	1
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3510										
Aroclor 1016	< 0.522	1.04		ug/L	0.222	0.522	01/27/21 16:17	B1A0753	CS2	1
Aroclor 1221	< 0.522	0.626		ug/L	0.200	0.522	01/27/21 16:17	B1A0753	CS2	1
Aroclor 1232	< 0.522	0.626		ug/L	0.169	0.522	01/27/21 16:17	B1A0753	CS2	1
Aroclor 1242	< 1.04	2.09		ug/L	0.366	1.04	01/27/21 16:17	B1A0753	CS2	1
Aroclor 1248	< 0.522	0.626		ug/L	0.167	0.522	01/27/21 16:17	B1A0753	CS2	1
Aroclor 1254	< 0.522	0.626		ug/L	0.183	0.522	01/27/21 16:17	B1A0753	CS2	1
Aroclor 1260	< 0.313	0.418		ug/L	0.117	0.313	01/27/21 16:17	B1A0753	CS2	1
Total PCB	< 0.522	0.626		ug/L	0.200	0.522	01/27/21 16:17	B1A0753	CS2	1
Surrogate: Decachlorobiphenyl				Recovery: 86%	Limits: 10-139		01/27/21 16:17	B1A0753	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				Recovery: 53%	Limits: 26-107		01/27/21 16:17	B1A0753	CS2	1
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.706	2.00	01/26/21 21:29	B1A0778	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00		ug/L	0.719	2.00	01/26/21 21:29	B1A0778	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.713	2.00	01/26/21 21:29	B1A0778	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00		ug/L	0.198	0.600	01/26/21 21:29	B1A0778	WZZ	1
1,1-Dichloroethane	< 2.00	4.00		ug/L	0.691	2.00	01/26/21 21:29	B1A0778	WZZ	1
1,1-Dichloroethene	13.9	8.00		ug/L	1.10	4.00	01/26/21 21:29	B1A0778	WZZ	1
1,1-Dichloropropene	< 1.00	2.00		ug/L	0.462	1.00	01/26/21 21:29	B1A0778	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00		ug/L	0.199	0.600	01/26/21 21:29	B1A0778	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00		ug/L	0.598	2.00	01/26/21 21:29	B1A0778	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00		ug/L	0.753	2.00	01/26/21 21:29	B1A0778	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00		ug/L	1.22	4.00	01/26/21 21:29	B1A0778	WZZ	1
1,2-Dibromoethane	< 1.00	2.00		ug/L	0.420	1.00	01/26/21 21:29	B1A0778	WZZ	1
1,2-Dichloroethane	< 2.00	4.00		ug/L	0.731	2.00	01/26/21 21:29	B1A0778	WZZ	1
1,2-Dichloropropane	< 2.00	4.00		ug/L	0.557	2.00	01/26/21 21:29	B1A0778	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00		ug/L	0.351	1.00	01/26/21 21:29	B1A0778	WZZ	1
1,3-Dichloropropane	< 1.00	2.00		ug/L	0.345	1.00	01/26/21 21:29	B1A0778	WZZ	1
2,2-Dichloropropane	< 4.00	8.00		ug/L	1.03	4.00	01/26/21 21:29	B1A0778	WZZ	1
2-Butanone	< 14.0	28.0		ug/L	4.79	14.0	01/26/21 21:29	B1A0778	WZZ	1
2-Chlorotoluene	< 1.00	2.00		ug/L	0.384	1.00	01/26/21 21:29	B1A0778	WZZ	1
2-Hexanone	< 14.0	28.0		ug/L	4.74	14.0	01/26/21 21:29	B1A0778	WZZ	1
4-Isopropyltoluene	< 2.00	4.00		ug/L	0.930	2.00	01/26/21 21:29	B1A0778	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0		ug/L	4.40	14.0	01/26/21 21:29	B1A0778	WZZ	1
Acetone	< 28.0	70.0		ug/L	9.21	28.0	01/26/21 21:29	B1A0778	WZZ	1
Benzene	< 1.00	2.00		ug/L	0.362	1.00	01/26/21 21:29	B1A0778	WZZ	1
Bromobenzene	< 1.00	2.00		ug/L	0.354	1.00	01/26/21 21:29	B1A0778	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants**Project:** Milw Die Cast**Work Order:** 21A0717**Client Sample ID:** MW-1**Report Date:** 02/10/2021**Collection Date:** 01/21/2021 10:35**Matrix:** Groundwater**Lab ID:** 21A0717-01 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	01/26/21 21:29	B1A0778	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	01/26/21 21:29	B1A0778	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	01/26/21 21:29	B1A0778	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	01/26/21 21:29	B1A0778	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	01/26/21 21:29	B1A0778	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	01/26/21 21:29	B1A0778	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	01/26/21 21:29	B1A0778	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	01/26/21 21:29	B1A0778	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	01/26/21 21:29	B1A0778	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	01/26/21 21:29	B1A0778	WZZ	1
cis-1,2-Dichloroethene	5440	200		ug/L	32.6	100	01/28/21 17:57	B1A0926	WZZ	50
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	01/26/21 21:29	B1A0778	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	01/26/21 21:29	B1A0778	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	01/26/21 21:29	B1A0778	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	01/26/21 21:29	B1A0778	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	01/26/21 21:29	B1A0778	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	01/26/21 21:29	B1A0778	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	01/26/21 21:29	B1A0778	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	01/26/21 21:29	B1A0778	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	01/26/21 21:29	B1A0778	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	01/26/21 21:29	B1A0778	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	01/26/21 21:29	B1A0778	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	01/26/21 21:29	B1A0778	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	01/26/21 21:29	B1A0778	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	01/26/21 21:29	B1A0778	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 21:29	B1A0778	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	01/26/21 21:29	B1A0778	WZZ	1
Tetrachloroethene	4190	200		ug/L	32.3	100	01/28/21 17:57	B1A0926	WZZ	50
Toluene	< 2.00	4.00		ug/L	0.510	2.00	01/26/21 21:29	B1A0778	WZZ	1
trans-1,2-Dichloroethene	34.8	4.00		ug/L	0.566	2.00	01/26/21 21:29	B1A0778	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 21:29	B1A0778	WZZ	1
Trichloroethene	4080	200		ug/L	47.0	100	01/28/21 17:57	B1A0926	WZZ	50
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	01/26/21 21:29	B1A0778	WZZ	1
Vinyl chloride	475	200		ug/L	29.1	100	01/28/21 17:57	B1A0926	WZZ	50
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	01/26/21 21:29	B1A0778	WZZ	1

Surrogate: Dibromofluoromethane	Recovery: 105%	Limits: 84-137	01/26/21 21:29	B1A0778	WZZ	1
Surrogate: 1,2-Dichloroethane-d4	Recovery: 100%	Limits: 74-140	01/26/21 21:29	B1A0778	WZZ	1
Surrogate: Fluorobenzene	Recovery: 96%	Limits: 90-105	01/26/21 21:29	B1A0778	WZZ	1
Surrogate: Toluene-d8	Recovery: 96%	Limits: 74-109	01/26/21 21:29	B1A0778	WZZ	1
Surrogate: 4-Bromofluorobenzene	Recovery: 102%	Limits: 86-128	01/26/21 21:29	B1A0778	WZZ	1
Surrogate: 1,2-Dichlorobenzene-d4	Recovery: 100%	Limits: 90-128	01/26/21 21:29	B1A0778	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-1
Report Date: 02/10/2021
Collection Date: 01/21/2021 10:35
Matrix: Groundwater
Lab ID: 21A0717-01 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit									
Semivolatile Organic Compounds by GC/MS											
Method: SW8270D / SW3510											
1,2,4-Trichlorobenzene	< 1.04	2.09			ug/L	0.292	1.04	01/26/21 11:10	B1A0681	CP1	1
1,2-Dichlorobenzene	< 1.04	2.09			ug/L	0.313	1.04	01/26/21 11:10	B1A0681	CP1	1
1,3-Dichlorobenzene	< 1.04	2.09			ug/L	0.323	1.04	01/26/21 11:10	B1A0681	CP1	1
1,4-Dichlorobenzene	< 1.04	2.09			ug/L	0.292	1.04	01/26/21 11:10	B1A0681	CP1	1
2,4,5-Trichlorophenol	< 0.521	1.04			ug/L	0.135	0.521	01/26/21 11:10	B1A0681	CP1	1
2,4,6-Trichlorophenol	< 0.521	1.04			ug/L	0.254	0.521	01/26/21 11:10	B1A0681	CP1	1
2,4-Dichlorophenol	< 0.521	1.04			ug/L	0.0822	0.521	01/26/21 11:10	B1A0681	CP1	1
2,4-Dimethylphenol	< 1.04	2.09			ug/L	0.122	1.04	01/26/21 11:10	B1A0681	CP1	1
2,4-Dinitrophenol	< 10.4	31.3			ug/L	3.45	10.4	01/26/21 11:10	B1A0681	CP1	1
2,4-Dinitrotoluene	< 1.04	2.09			ug/L	0.263	1.04	01/26/21 11:10	B1A0681	CP1	1
2,6-Dinitrotoluene	< 0.521	1.04			ug/L	0.240	0.521	01/26/21 11:10	B1A0681	CP1	1
2-Chloronaphthalene	< 0.313	0.626			ug/L	0.110	0.313	01/26/21 11:10	B1A0681	CP1	1
2-Chlorophenol	< 0.521	1.04			ug/L	0.160	0.521	01/26/21 11:10	B1A0681	CP1	1
2-Methylnaphthalene	< 2.09	4.17			ug/L	0.667	2.09	01/26/21 11:10	B1A0681	CP1	1
2-Methylphenol	< 0.521	1.04			ug/L	0.191	0.521	01/26/21 11:10	B1A0681	CP1	1
2-Nitroaniline	< 10.4	31.3			ug/L	2.67	10.4	01/26/21 11:10	B1A0681	CP1	1
2-Nitrophenol	< 0.521	1.04			ug/L	0.218	0.521	01/26/21 11:10	B1A0681	CP1	1
3,3'-Dichlorobenzidine	< 10.4	20.9			ug/L	3.30	10.4	01/26/21 11:10	B1A0681	CP1	1
3 & 4-Methylphenol	< 0.521	1.04			ug/L	0.187	0.521	01/26/21 11:10	B1A0681	CP1	1
3-Nitroaniline	< 1.04	2.09			ug/L	0.375	1.04	01/26/21 11:10	B1A0681	CP1	1
4,6-Dinitro-2-methylphenol	< 5.21	15.6			ug/L	2.56	5.21	01/26/21 11:10	B1A0681	CP1	1
4-Bromophenyl-phenylether	< 0.521	1.04			ug/L	0.167	0.521	01/26/21 11:10	B1A0681	CP1	1
4-Chloro-3-methylphenol	< 0.209	0.521			ug/L	0.0743	0.209	01/26/21 11:10	B1A0681	CP1	1
4-Chloroaniline	< 0.313	0.626			ug/L	0.111	0.313	01/26/21 11:10	B1A0681	CP1	1
4-Chlorophenyl-phenylether	< 0.521	1.04			ug/L	0.152	0.521	01/26/21 11:10	B1A0681	CP1	1
4-Nitroaniline	< 10.4	31.3			ug/L	3.93	10.4	01/26/21 11:10	B1A0681	CP1	1
4-Nitrophenol	< 5.21	15.6			ug/L	1.50	5.21	01/26/21 11:10	B1A0681	CP1	1
Acenaphthene	< 0.313	0.626			ug/L	0.108	0.313	01/26/21 11:10	B1A0681	CP1	1
Acenaphthylene	< 0.313	0.626			ug/L	0.136	0.313	01/26/21 11:10	B1A0681	CP1	1
Anthracene	< 0.313	0.626			ug/L	0.116	0.313	01/26/21 11:10	B1A0681	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.313	1.04			ug/L	0.0800	0.313	01/26/21 11:10	B1A0681	CP1	1
Benzidine	< 41.7	83.4			ug/L	17.3	41.7	01/26/21 11:10	B1A0681	CP1	1
Benzo(a)anthracene	< 0.313	0.626			ug/L	0.129	0.313	01/26/21 11:10	B1A0681	CP1	1
Benzo(a)pyrene	< 1.04	2.09			ug/L	0.392	1.04	01/26/21 11:10	B1A0681	CP1	1
Benzo(b)fluoranthene	< 1.04	2.09			ug/L	0.388	1.04	01/26/21 11:10	B1A0681	CP1	1
Benzo(g,h,i)perylene	< 1.04	2.09			ug/L	0.416	1.04	01/26/21 11:10	B1A0681	CP1	1
Benzo(k)fluoranthene	< 0.521	2.09			ug/L	0.259	0.521	01/26/21 11:10	B1A0681	CP1	1
Benzoic acid	< 25.0	41.7			ug/L	12.2	25.0	01/26/21 11:10	B1A0681	CP1	1
Benzyl alcohol	< 2.09	4.17			ug/L	0.574	2.09	01/26/21 11:10	B1A0681	CP1	1
Bis(2-chloroethoxy)methane	< 0.521	1.04			ug/L	0.141	0.521	01/26/21 11:10	B1A0681	CP1	1
Bis(2-chloroethyl)ether	< 0.521	1.04			ug/L	0.183	0.521	01/26/21 11:10	B1A0681	CP1	1
Bis(2-chloroisopropyl)ether	< 0.521	1.04			ug/L	0.134	0.521	01/26/21 11:10	B1A0681	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.4	20.9			ug/L	3.79	10.4	01/26/21 11:10	B1A0681	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-1
Report Date: 02/10/2021
Collection Date: 01/21/2021 10:35
Matrix: Groundwater
Lab ID: 21A0717-01 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS (Continued)										
Method: SW8270D / SW3510 (Continued)										
Butyl benzyl phthalate	< 0.521	1.04		ug/L	0.244	0.521	01/26/21 11:10	B1A0681	CP1	1
Carbazole	< 0.521	1.04		ug/L	0.180	0.521	01/26/21 11:10	B1A0681	CP1	1
Chrysene	< 0.313	0.626		ug/L	0.132	0.313	01/26/21 11:10	B1A0681	CP1	1
Dibenzo(a,h)anthracene	< 1.04	2.09		ug/L	0.461	1.04	01/26/21 11:10	B1A0681	CP1	1
Dibenzofuran	< 0.313	0.626		ug/L	0.128	0.313	01/26/21 11:10	B1A0681	CP1	1
Diethyl phthalate	< 3.13	6.26		ug/L	1.21	3.13	01/26/21 11:10	B1A0681	CP1	1
Dimethyl phthalate	< 0.313	0.626		ug/L	0.0921	0.313	01/26/21 11:10	B1A0681	CP1	1
Di-n-butyl phthalate	< 6.26	10.4		ug/L	3.00	6.26	01/26/21 11:10	B1A0681	CP1	1
Di-n-octyl phthalate	< 5.21	10.4		ug/L	1.97	5.21	01/26/21 11:10	B1A0681	CP1	1
Fluoranthene	< 0.521	1.04		ug/L	0.205	0.521	01/26/21 11:10	B1A0681	CP1	1
Fluorene	< 0.313	0.626		ug/L	0.129	0.313	01/26/21 11:10	B1A0681	CP1	1
Hexachlorobenzene	< 0.521	1.04		ug/L	0.172	0.521	01/26/21 11:10	B1A0681	CP1	1
Hexachlorobutadiene	< 0.521	1.04		ug/L	0.261	0.521	01/26/21 11:10	B1A0681	CP1	1
Hexachlorocyclopentadiene	< 5.21	15.6		ug/L	2.28	5.21	01/26/21 11:10	B1A0681	CP1	1
Hexachloroethane	< 0.521	1.04		ug/L	0.229	0.521	01/26/21 11:10	B1A0681	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.04	2.09		ug/L	0.524	1.04	01/26/21 11:10	B1A0681	CP1	1
Isophorone	< 0.313	0.626		ug/L	0.115	0.313	01/26/21 11:10	B1A0681	CP1	1
Naphthalene	< 2.09	4.17		ug/L	0.851	2.09	01/26/21 11:10	B1A0681	CP1	1
Nitrobenzene	< 0.313	0.626		ug/L	0.146	0.313	01/26/21 11:10	B1A0681	CP1	1
N-Nitrosodimethylamine	< 0.521	1.04		ug/L	0.162	0.521	01/26/21 11:10	B1A0681	CP1	1
N-Nitrosodi-n-propylamine	< 1.04	2.09		ug/L	0.333	1.04	01/26/21 11:10	B1A0681	CP1	1
N-Nitrosodiphenylamine	< 0.313	0.626		ug/L	0.108	0.313	01/26/21 11:10	B1A0681	CP1	1
Pentachlorophenol	< 10.4	31.3		ug/L	2.63	10.4	01/26/21 11:10	B1A0681	CP1	1
Phenanthrene	< 0.521	1.04		ug/L	0.215	0.521	01/26/21 11:10	B1A0681	CP1	1
Phenol	< 0.521	1.04		ug/L	0.178	0.521	01/26/21 11:10	B1A0681	CP1	1
Pyrene	< 0.521	1.04		ug/L	0.217	0.521	01/26/21 11:10	B1A0681	CP1	1
Surrogate: 2-Fluorophenol				Recovery: 40%	Limits: 10-88		01/26/21 11:10	B1A0681	CP1	1
Surrogate: Phenol-d5				Recovery: 31%	Limits: 10-65		01/26/21 11:10	B1A0681	CP1	1
Surrogate: Nitrobenzene-d5				Recovery: 67%	Limits: 25-128		01/26/21 11:10	B1A0681	CP1	1
Surrogate: 2-Fluorobiphenyl				Recovery: 58%	Limits: 24-114		01/26/21 11:10	B1A0681	CP1	1
Surrogate: 2,4,6-Tribromophenol				Recovery: 60%	Limits: 15-119		01/26/21 11:10	B1A0681	CP1	1
Surrogate: 4-Terphenyl-d14				Recovery: 76%	Limits: 29-129		01/26/21 11:10	B1A0681	CP1	1

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500		ug/L	0.0625	0.200	01/25/21 15:43	B1A0755	CP1	1
Surrogate: Toluene-d8				Recovery: 95%	Limits: 80-120		01/25/21 15:43	B1A0755	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-1 Filtered
Report Date: 02/10/2021
Collection Date: 01/21/2021 10:35
Matrix: Groundwater
Lab ID: 21A0717-02

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Limit									
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.516	1.03			ug/L	0.219	0.516	01/27/21 16:34	B1A0753	CS2	1	
Aroclor 1221	< 0.516	0.619			ug/L	0.198	0.516	01/27/21 16:34	B1A0753	CS2	1	
Aroclor 1232	< 0.516	0.619			ug/L	0.167	0.516	01/27/21 16:34	B1A0753	CS2	1	
Aroclor 1242	< 1.03	2.06			ug/L	0.362	1.03	01/27/21 16:34	B1A0753	CS2	1	
Aroclor 1248	< 0.516	0.619			ug/L	0.165	0.516	01/27/21 16:34	B1A0753	CS2	1	
Aroclor 1254	< 0.516	0.619			ug/L	0.181	0.516	01/27/21 16:34	B1A0753	CS2	1	
Aroclor 1260	< 0.310	0.413			ug/L	0.116	0.310	01/27/21 16:34	B1A0753	CS2	1	
Total PCB	< 0.516	0.619			ug/L	0.198	0.516	01/27/21 16:34	B1A0753	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 77%		Limits: 10-139		01/27/21 16:34	B1A0753	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 45%		Limits: 26-107		01/27/21 16:34	B1A0753	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-2
Report Date: 02/10/2021
Collection Date: 01/20/2021 11:30
Matrix: Groundwater
Lab ID: 21A0717-03

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	1.40	1.00		mg/L	0.400	0.800	01/25/21 21:38	B1A0740	TB2	1
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3510										
Aroclor 1016	< 0.525	1.05		ug/L	0.223	0.525	01/27/21 12:24	B1A0750	CS2	1
Aroclor 1221	< 0.525	0.630		ug/L	0.201	0.525	01/27/21 12:24	B1A0750	CS2	1
Aroclor 1232	< 0.525	0.630		ug/L	0.170	0.525	01/27/21 12:24	B1A0750	CS2	1
Aroclor 1242	< 1.05	2.10		ug/L	0.368	1.05	01/27/21 12:24	B1A0750	CS2	1
Aroclor 1248	< 0.525	0.630		ug/L	0.168	0.525	01/27/21 12:24	B1A0750	CS2	1
Aroclor 1254	< 0.525	0.630		ug/L	0.184	0.525	01/27/21 12:24	B1A0750	CS2	1
Aroclor 1260	< 0.315	0.420		ug/L	0.118	0.315	01/27/21 12:24	B1A0750	CS2	1
Total PCB	< 0.525	0.630		ug/L	0.201	0.525	01/27/21 12:24	B1A0750	CS2	1
Surrogate: Decachlorobiphenyl				Recovery: 88%	Limits: 10-139		01/27/21 12:24	B1A0750	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				Recovery: 79%	Limits: 26-107		01/27/21 12:24	B1A0750	CS2	1
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.706	2.00	01/25/21 18:53	B1A0768	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00		ug/L	0.719	2.00	01/25/21 18:53	B1A0768	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.713	2.00	01/25/21 18:53	B1A0768	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00		ug/L	0.198	0.600	01/25/21 18:53	B1A0768	WZZ	1
1,1-Dichloroethane	< 2.00	4.00		ug/L	0.691	2.00	01/25/21 18:53	B1A0768	WZZ	1
1,1-Dichloroethene	< 4.00	8.00		ug/L	1.10	4.00	01/25/21 18:53	B1A0768	WZZ	1
1,1-Dichloropropene	< 1.00	2.00		ug/L	0.462	1.00	01/25/21 18:53	B1A0768	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00		ug/L	0.199	0.600	01/25/21 18:53	B1A0768	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00		ug/L	0.598	2.00	01/25/21 18:53	B1A0768	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00		ug/L	0.753	2.00	01/25/21 18:53	B1A0768	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00		ug/L	1.22	4.00	01/25/21 18:53	B1A0768	WZZ	1
1,2-Dibromoethane	< 1.00	2.00		ug/L	0.420	1.00	01/25/21 18:53	B1A0768	WZZ	1
1,2-Dichloroethane	< 2.00	4.00		ug/L	0.731	2.00	01/25/21 18:53	B1A0768	WZZ	1
1,2-Dichloropropane	< 2.00	4.00		ug/L	0.557	2.00	01/25/21 18:53	B1A0768	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00		ug/L	0.351	1.00	01/25/21 18:53	B1A0768	WZZ	1
1,3-Dichloropropane	< 1.00	2.00		ug/L	0.345	1.00	01/25/21 18:53	B1A0768	WZZ	1
2,2-Dichloropropane	< 4.00	8.00		ug/L	1.03	4.00	01/25/21 18:53	B1A0768	WZZ	1
2-Butanone	< 14.0	28.0		ug/L	4.79	14.0	01/25/21 18:53	B1A0768	WZZ	1
2-Chlorotoluene	< 1.00	2.00		ug/L	0.384	1.00	01/25/21 18:53	B1A0768	WZZ	1
2-Hexanone	< 14.0	28.0		ug/L	4.74	14.0	01/25/21 18:53	B1A0768	WZZ	1
4-Isopropyltoluene	< 2.00	4.00		ug/L	0.930	2.00	01/25/21 18:53	B1A0768	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0		ug/L	4.40	14.0	01/25/21 18:53	B1A0768	WZZ	1
Acetone	< 28.0	70.0		ug/L	9.21	28.0	01/25/21 18:53	B1A0768	WZZ	1
Benzene	< 1.00	2.00		ug/L	0.362	1.00	01/25/21 18:53	B1A0768	WZZ	1
Bromobenzene	< 1.00	2.00		ug/L	0.354	1.00	01/25/21 18:53	B1A0768	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-2
Report Date: 02/10/2021
Collection Date: 01/20/2021 11:30
Matrix: Groundwater
Lab ID: 21A0717-03 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	01/25/21 18:53	B1A0768	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	01/25/21 18:53	B1A0768	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	01/25/21 18:53	B1A0768	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	01/25/21 18:53	B1A0768	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	01/25/21 18:53	B1A0768	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	01/25/21 18:53	B1A0768	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	01/25/21 18:53	B1A0768	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	01/25/21 18:53	B1A0768	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	01/25/21 18:53	B1A0768	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	01/25/21 18:53	B1A0768	WZZ	1
cis-1,2-Dichloroethene	5.31	4.00		ug/L	0.652	2.00	01/25/21 18:53	B1A0768	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	01/25/21 18:53	B1A0768	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	01/25/21 18:53	B1A0768	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	01/25/21 18:53	B1A0768	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	01/25/21 18:53	B1A0768	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	01/25/21 18:53	B1A0768	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	01/25/21 18:53	B1A0768	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	01/25/21 18:53	B1A0768	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	01/25/21 18:53	B1A0768	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	01/25/21 18:53	B1A0768	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	01/25/21 18:53	B1A0768	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	01/25/21 18:53	B1A0768	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	01/25/21 18:53	B1A0768	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	01/25/21 18:53	B1A0768	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	01/25/21 18:53	B1A0768	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	01/25/21 18:53	B1A0768	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	01/25/21 18:53	B1A0768	WZZ	1
Tetrachloroethene	6.99	4.00		ug/L	0.646	2.00	01/25/21 18:53	B1A0768	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	01/25/21 18:53	B1A0768	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	01/25/21 18:53	B1A0768	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	01/25/21 18:53	B1A0768	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	01/25/21 18:53	B1A0768	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	01/25/21 18:53	B1A0768	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	01/25/21 18:53	B1A0768	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	01/25/21 18:53	B1A0768	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 107%</i>	<i>Limits: 84-137</i>		<i>01/25/21 18:53</i>	<i>B1A0768</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 104%</i>	<i>Limits: 74-140</i>		<i>01/25/21 18:53</i>	<i>B1A0768</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 103%</i>	<i>Limits: 90-105</i>		<i>01/25/21 18:53</i>	<i>B1A0768</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 99%</i>	<i>Limits: 74-109</i>		<i>01/25/21 18:53</i>	<i>B1A0768</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 101%</i>	<i>Limits: 86-128</i>		<i>01/25/21 18:53</i>	<i>B1A0768</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 104%</i>	<i>Limits: 90-128</i>		<i>01/25/21 18:53</i>	<i>B1A0768</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-2
Report Date: 02/10/2021
Collection Date: 01/20/2021 11:30
Matrix: Groundwater
Lab ID: 21A0717-03 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time	Batch	Analyst	DF
		Limit						Analyzed			
Semivolatile Organic Compounds by GC/MS											
Method: SW8270D / SW3510											
1,2,4-Trichlorobenzene	< 1.05	2.09			ug/L	0.293	1.05	01/26/21 11:31	B1A0681	CP1	1
1,2-Dichlorobenzene	< 1.05	2.09			ug/L	0.314	1.05	01/26/21 11:31	B1A0681	CP1	1
1,3-Dichlorobenzene	< 1.05	2.09			ug/L	0.324	1.05	01/26/21 11:31	B1A0681	CP1	1
1,4-Dichlorobenzene	< 1.05	2.09			ug/L	0.293	1.05	01/26/21 11:31	B1A0681	CP1	1
2,4,5-Trichlorophenol	< 0.523	1.05			ug/L	0.135	0.523	01/26/21 11:31	B1A0681	CP1	1
2,4,6-Trichlorophenol	< 0.523	1.05			ug/L	0.255	0.523	01/26/21 11:31	B1A0681	CP1	1
2,4-Dichlorophenol	< 0.523	1.05			ug/L	0.0823	0.523	01/26/21 11:31	B1A0681	CP1	1
2,4-Dimethylphenol	< 1.05	2.09			ug/L	0.123	1.05	01/26/21 11:31	B1A0681	CP1	1
2,4-Dinitrophenol	< 10.5	31.4			ug/L	3.46	10.5	01/26/21 11:31	B1A0681	CP1	1
2,4-Dinitrotoluene	< 1.05	2.09			ug/L	0.263	1.05	01/26/21 11:31	B1A0681	CP1	1
2,6-Dinitrotoluene	< 0.523	1.05			ug/L	0.240	0.523	01/26/21 11:31	B1A0681	CP1	1
2-Chloronaphthalene	< 0.314	0.627			ug/L	0.111	0.314	01/26/21 11:31	B1A0681	CP1	1
2-Chlorophenol	< 0.523	1.05			ug/L	0.160	0.523	01/26/21 11:31	B1A0681	CP1	1
2-Methylnaphthalene	< 2.09	4.18			ug/L	0.669	2.09	01/26/21 11:31	B1A0681	CP1	1
2-Methylphenol	< 0.523	1.05			ug/L	0.191	0.523	01/26/21 11:31	B1A0681	CP1	1
2-Nitroaniline	< 10.5	31.4			ug/L	2.68	10.5	01/26/21 11:31	B1A0681	CP1	1
2-Nitrophenol	< 0.523	1.05			ug/L	0.219	0.523	01/26/21 11:31	B1A0681	CP1	1
3,3'-Dichlorobenzidine	< 10.5	20.9			ug/L	3.31	10.5	01/26/21 11:31	B1A0681	CP1	1
3 & 4-Methylphenol	< 0.523	1.05			ug/L	0.187	0.523	01/26/21 11:31	B1A0681	CP1	1
3-Nitroaniline	< 1.05	2.09			ug/L	0.376	1.05	01/26/21 11:31	B1A0681	CP1	1
4,6-Dinitro-2-methylphenol	< 5.23	15.7			ug/L	2.56	5.23	01/26/21 11:31	B1A0681	CP1	1
4-Bromophenyl-phenylether	< 0.523	1.05			ug/L	0.167	0.523	01/26/21 11:31	B1A0681	CP1	1
4-Chloro-3-methylphenol	< 0.209	0.523			ug/L	0.0745	0.209	01/26/21 11:31	B1A0681	CP1	1
4-Chloroaniline	< 0.314	0.627			ug/L	0.112	0.314	01/26/21 11:31	B1A0681	CP1	1
4-Chlorophenyl-phenylether	< 0.523	1.05			ug/L	0.152	0.523	01/26/21 11:31	B1A0681	CP1	1
4-Nitroaniline	< 10.5	31.4			ug/L	3.94	10.5	01/26/21 11:31	B1A0681	CP1	1
4-Nitrophenol	< 5.23	15.7			ug/L	1.50	5.23	01/26/21 11:31	B1A0681	CP1	1
Acenaphthene	< 0.314	0.627			ug/L	0.109	0.314	01/26/21 11:31	B1A0681	CP1	1
Acenaphthylene	< 0.314	0.627			ug/L	0.136	0.314	01/26/21 11:31	B1A0681	CP1	1
Anthracene	< 0.314	0.627			ug/L	0.117	0.314	01/26/21 11:31	B1A0681	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.314	1.05			ug/L	0.0802	0.314	01/26/21 11:31	B1A0681	CP1	1
Benzidine	< 41.8	83.6			ug/L	17.3	41.8	01/26/21 11:31	B1A0681	CP1	1
Benzo(a)anthracene	< 0.314	0.627			ug/L	0.129	0.314	01/26/21 11:31	B1A0681	CP1	1
Benzo(a)pyrene	< 1.05	2.09			ug/L	0.393	1.05	01/26/21 11:31	B1A0681	CP1	1
Benzo(b)fluoranthene	< 1.05	2.09			ug/L	0.389	1.05	01/26/21 11:31	B1A0681	CP1	1
Benzo(g,h,i)perylene	< 1.05	2.09			ug/L	0.417	1.05	01/26/21 11:31	B1A0681	CP1	1
Benzo(k)fluoranthene	< 0.523	2.09			ug/L	0.260	0.523	01/26/21 11:31	B1A0681	CP1	1
Benzoic acid	< 25.1	41.8			ug/L	12.3	25.1	01/26/21 11:31	B1A0681	CP1	1
Benzyl alcohol	< 2.09	4.18			ug/L	0.575	2.09	01/26/21 11:31	B1A0681	CP1	1
Bis(2-chloroethoxy)methane	< 0.523	1.05			ug/L	0.141	0.523	01/26/21 11:31	B1A0681	CP1	1
Bis(2-chloroethyl)ether	< 0.523	1.05			ug/L	0.184	0.523	01/26/21 11:31	B1A0681	CP1	1
Bis(2-chloroisopropyl)ether	< 0.523	1.05			ug/L	0.134	0.523	01/26/21 11:31	B1A0681	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.5	20.9			ug/L	3.79	10.5	01/26/21 11:31	B1A0681	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-2
Report Date: 02/10/2021
Collection Date: 01/20/2021 11:30
Matrix: Groundwater
Lab ID: 21A0717-03 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS (Continued)										
Method: SW8270D / SW3510 (Continued)										
Butyl benzyl phthalate	< 0.523	1.05		ug/L	0.245	0.523	01/26/21 11:31	B1A0681	CP1	1
Carbazole	< 0.523	1.05		ug/L	0.181	0.523	01/26/21 11:31	B1A0681	CP1	1
Chrysene	< 0.314	0.627		ug/L	0.132	0.314	01/26/21 11:31	B1A0681	CP1	1
Dibenzo(a,h)anthracene	< 1.05	2.09		ug/L	0.462	1.05	01/26/21 11:31	B1A0681	CP1	1
Dibenzofuran	< 0.314	0.627		ug/L	0.128	0.314	01/26/21 11:31	B1A0681	CP1	1
Diethyl phthalate	< 3.14	6.27		ug/L	1.22	3.14	01/26/21 11:31	B1A0681	CP1	1
Dimethyl phthalate	< 0.314	0.627		ug/L	0.0923	0.314	01/26/21 11:31	B1A0681	CP1	1
Di-n-butyl phthalate	< 6.27	10.5		ug/L	3.01	6.27	01/26/21 11:31	B1A0681	CP1	1
Di-n-octyl phthalate	< 5.23	10.5		ug/L	1.97	5.23	01/26/21 11:31	B1A0681	CP1	1
Fluoranthene	< 0.523	1.05		ug/L	0.205	0.523	01/26/21 11:31	B1A0681	CP1	1
Fluorene	< 0.314	0.627		ug/L	0.129	0.314	01/26/21 11:31	B1A0681	CP1	1
Hexachlorobenzene	< 0.523	1.05		ug/L	0.172	0.523	01/26/21 11:31	B1A0681	CP1	1
Hexachlorobutadiene	< 0.523	1.05		ug/L	0.261	0.523	01/26/21 11:31	B1A0681	CP1	1
Hexachlorocyclopentadiene	< 5.23	15.7		ug/L	2.29	5.23	01/26/21 11:31	B1A0681	CP1	1
Hexachloroethane	< 0.523	1.05		ug/L	0.230	0.523	01/26/21 11:31	B1A0681	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.05	2.09		ug/L	0.525	1.05	01/26/21 11:31	B1A0681	CP1	1
Isophorone	< 0.314	0.627		ug/L	0.115	0.314	01/26/21 11:31	B1A0681	CP1	1
Naphthalene	< 2.09	4.18		ug/L	0.853	2.09	01/26/21 11:31	B1A0681	CP1	1
Nitrobenzene	< 0.314	0.627		ug/L	0.146	0.314	01/26/21 11:31	B1A0681	CP1	1
N-Nitrosodimethylamine	< 0.523	1.05		ug/L	0.163	0.523	01/26/21 11:31	B1A0681	CP1	1
N-Nitrosodi-n-propylamine	< 1.05	2.09		ug/L	0.333	1.05	01/26/21 11:31	B1A0681	CP1	1
N-Nitrosodiphenylamine	< 0.314	0.627		ug/L	0.109	0.314	01/26/21 11:31	B1A0681	CP1	1
Pentachlorophenol	< 10.5	31.4		ug/L	2.63	10.5	01/26/21 11:31	B1A0681	CP1	1
Phenanthrene	< 0.523	1.05		ug/L	0.215	0.523	01/26/21 11:31	B1A0681	CP1	1
Phenol	< 0.523	1.05		ug/L	0.178	0.523	01/26/21 11:31	B1A0681	CP1	1
Pyrene	< 0.523	1.05		ug/L	0.217	0.523	01/26/21 11:31	B1A0681	CP1	1
Surrogate: 2-Fluorophenol				Recovery: 33%	Limits: 10-88		01/26/21 11:31	B1A0681	CP1	1
Surrogate: Phenol-d5				Recovery: 24%	Limits: 10-65		01/26/21 11:31	B1A0681	CP1	1
Surrogate: Nitrobenzene-d5				Recovery: 52%	Limits: 25-128		01/26/21 11:31	B1A0681	CP1	1
Surrogate: 2-Fluorobiphenyl				Recovery: 44%	Limits: 24-114		01/26/21 11:31	B1A0681	CP1	1
Surrogate: 2,4,6-Tribromophenol				Recovery: 55%	Limits: 15-119		01/26/21 11:31	B1A0681	CP1	1
Surrogate: 4-Terphenyl-d14				Recovery: 66%	Limits: 29-129		01/26/21 11:31	B1A0681	CP1	1

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500		ug/L	0.0625	0.200	01/25/21 16:07	B1A0755	CP1	1
Surrogate: Toluene-d8				Recovery: 93%	Limits: 80-120		01/25/21 16:07	B1A0755	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-2 Filtered
Report Date: 02/10/2021
Collection Date: 01/20/2021 11:30
Matrix: Groundwater
Lab ID: 21A0717-04

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Limit									
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.519	1.04			ug/L	0.220	0.519	01/27/21 16:51	B1A0753	CS2	1	
Aroclor 1221	< 0.519	0.622			ug/L	0.199	0.519	01/27/21 16:51	B1A0753	CS2	1	
Aroclor 1232	< 0.519	0.622			ug/L	0.168	0.519	01/27/21 16:51	B1A0753	CS2	1	
Aroclor 1242	< 1.04	2.07			ug/L	0.363	1.04	01/27/21 16:51	B1A0753	CS2	1	
Aroclor 1248	< 0.519	0.622			ug/L	0.166	0.519	01/27/21 16:51	B1A0753	CS2	1	
Aroclor 1254	< 0.519	0.622			ug/L	0.182	0.519	01/27/21 16:51	B1A0753	CS2	1	
Aroclor 1260	< 0.311	0.415			ug/L	0.116	0.311	01/27/21 16:51	B1A0753	CS2	1	
Total PCB	< 0.519	0.622			ug/L	0.199	0.519	01/27/21 16:51	B1A0753	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 81%		Limits: 10-139		01/27/21 16:51	B1A0753	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 62%		Limits: 26-107		01/27/21 16:51	B1A0753	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-3
Report Date: 02/10/2021
Collection Date: 01/18/2021 11:55
Matrix: Groundwater
Lab ID: 21A0717-05

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	2.69	1.00		mg/L	0.400	0.800	01/25/21 22:03	B1A0740	TB2	1
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3510										
Aroclor 1016	< 0.519	1.04		ug/L	0.220	0.519	01/25/21 10:12	B1A0660	CS2	1
Aroclor 1221	< 0.519	0.623		ug/L	0.199	0.519	01/25/21 10:12	B1A0660	CS2	1
Aroclor 1232	< 0.519	0.623		ug/L	0.168	0.519	01/25/21 10:12	B1A0660	CS2	1
Aroclor 1242	< 1.04	2.08		ug/L	0.364	1.04	01/25/21 10:12	B1A0660	CS2	1
Aroclor 1248	< 0.519	0.623		ug/L	0.166	0.519	01/25/21 10:12	B1A0660	CS2	1
Aroclor 1254	< 0.519	0.623		ug/L	0.182	0.519	01/25/21 10:12	B1A0660	CS2	1
Aroclor 1260	< 0.311	0.415		ug/L	0.116	0.311	01/25/21 10:12	B1A0660	CS2	1
Total PCB	< 0.519	0.623		ug/L	0.199	0.519	01/25/21 10:12	B1A0660	CS2	1
Surrogate: Decachlorobiphenyl				Recovery: 102%	Limits: 10-139		01/25/21 10:12	B1A0660	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				Recovery: 49%	Limits: 26-107		01/25/21 10:12	B1A0660	CS2	1
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.706	2.00	01/25/21 19:19	B1A0768	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00		ug/L	0.719	2.00	01/25/21 19:19	B1A0768	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.713	2.00	01/25/21 19:19	B1A0768	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00		ug/L	0.198	0.600	01/25/21 19:19	B1A0768	WZZ	1
1,1-Dichloroethane	< 2.00	4.00		ug/L	0.691	2.00	01/25/21 19:19	B1A0768	WZZ	1
1,1-Dichloroethene	< 4.00	8.00		ug/L	1.10	4.00	01/25/21 19:19	B1A0768	WZZ	1
1,1-Dichloropropene	< 1.00	2.00		ug/L	0.462	1.00	01/25/21 19:19	B1A0768	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00		ug/L	0.199	0.600	01/25/21 19:19	B1A0768	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00		ug/L	0.598	2.00	01/25/21 19:19	B1A0768	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00		ug/L	0.753	2.00	01/25/21 19:19	B1A0768	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00		ug/L	1.22	4.00	01/25/21 19:19	B1A0768	WZZ	1
1,2-Dibromoethane	< 1.00	2.00		ug/L	0.420	1.00	01/25/21 19:19	B1A0768	WZZ	1
1,2-Dichloroethane	< 2.00	4.00		ug/L	0.731	2.00	01/25/21 19:19	B1A0768	WZZ	1
1,2-Dichloropropane	< 2.00	4.00		ug/L	0.557	2.00	01/25/21 19:19	B1A0768	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00		ug/L	0.351	1.00	01/25/21 19:19	B1A0768	WZZ	1
1,3-Dichloropropane	< 1.00	2.00		ug/L	0.345	1.00	01/25/21 19:19	B1A0768	WZZ	1
2,2-Dichloropropane	< 4.00	8.00		ug/L	1.03	4.00	01/25/21 19:19	B1A0768	WZZ	1
2-Butanone	< 14.0	28.0		ug/L	4.79	14.0	01/25/21 19:19	B1A0768	WZZ	1
2-Chlorotoluene	< 1.00	2.00		ug/L	0.384	1.00	01/25/21 19:19	B1A0768	WZZ	1
2-Hexanone	< 14.0	28.0		ug/L	4.74	14.0	01/25/21 19:19	B1A0768	WZZ	1
4-Isopropyltoluene	< 2.00	4.00		ug/L	0.930	2.00	01/25/21 19:19	B1A0768	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0		ug/L	4.40	14.0	01/25/21 19:19	B1A0768	WZZ	1
Acetone	< 28.0	70.0		ug/L	9.21	28.0	01/25/21 19:19	B1A0768	WZZ	1
Benzene	< 1.00	2.00		ug/L	0.362	1.00	01/25/21 19:19	B1A0768	WZZ	1
Bromobenzene	< 1.00	2.00		ug/L	0.354	1.00	01/25/21 19:19	B1A0768	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-3
Report Date: 02/10/2021
Collection Date: 01/18/2021 11:55
Matrix: Groundwater
Lab ID: 21A0717-05 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	01/25/21 19:19	B1A0768	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	01/25/21 19:19	B1A0768	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	01/25/21 19:19	B1A0768	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	01/25/21 19:19	B1A0768	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	01/25/21 19:19	B1A0768	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	01/25/21 19:19	B1A0768	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	01/25/21 19:19	B1A0768	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	01/25/21 19:19	B1A0768	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	01/25/21 19:19	B1A0768	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	01/25/21 19:19	B1A0768	WZZ	1
cis-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.652	2.00	01/25/21 19:19	B1A0768	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	01/25/21 19:19	B1A0768	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	01/25/21 19:19	B1A0768	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	01/25/21 19:19	B1A0768	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	01/25/21 19:19	B1A0768	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	01/25/21 19:19	B1A0768	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	01/25/21 19:19	B1A0768	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	01/25/21 19:19	B1A0768	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	01/25/21 19:19	B1A0768	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	01/25/21 19:19	B1A0768	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	01/25/21 19:19	B1A0768	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	01/25/21 19:19	B1A0768	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	01/25/21 19:19	B1A0768	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	01/25/21 19:19	B1A0768	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	01/25/21 19:19	B1A0768	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	01/25/21 19:19	B1A0768	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	01/25/21 19:19	B1A0768	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	01/25/21 19:19	B1A0768	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	01/25/21 19:19	B1A0768	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	01/25/21 19:19	B1A0768	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	01/25/21 19:19	B1A0768	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	01/25/21 19:19	B1A0768	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	01/25/21 19:19	B1A0768	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	01/25/21 19:19	B1A0768	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	01/25/21 19:19	B1A0768	WZZ	1
Surrogate: Dibromofluoromethane				Recovery: 107%	Limits: 84-137		01/25/21 19:19	B1A0768	WZZ	1
Surrogate: 1,2-Dichloroethane-d4				Recovery: 104%	Limits: 74-140		01/25/21 19:19	B1A0768	WZZ	1
Surrogate: Fluorobenzene				Recovery: 99%	Limits: 90-105		01/25/21 19:19	B1A0768	WZZ	1
Surrogate: Toluene-d8				Recovery: 97%	Limits: 74-109		01/25/21 19:19	B1A0768	WZZ	1
Surrogate: 4-Bromofluorobenzene				Recovery: 100%	Limits: 86-128		01/25/21 19:19	B1A0768	WZZ	1
Surrogate: 1,2-Dichlorobenzene-d4				Recovery: 98%	Limits: 90-128		01/25/21 19:19	B1A0768	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-3
Report Date: 02/10/2021
Collection Date: 01/18/2021 11:55
Matrix: Groundwater
Lab ID: 21A0717-05 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Semivolatile Organic Compounds by GC/MS											
Method: SW8270D / SW3510											
1,2,4-Trichlorobenzene	< 1.08	2.16			ug/L	0.302	1.08	01/26/21 11:51	B1A0659	CP1	1
1,2-Dichlorobenzene	< 1.08	2.16			ug/L	0.324	1.08	01/26/21 11:51	B1A0659	CP1	1
1,3-Dichlorobenzene	< 1.08	2.16			ug/L	0.334	1.08	01/26/21 11:51	B1A0659	CP1	1
1,4-Dichlorobenzene	< 1.08	2.16			ug/L	0.302	1.08	01/26/21 11:51	B1A0659	CP1	1
2,4,5-Trichlorophenol	< 0.539	1.08			ug/L	0.140	0.539	01/26/21 11:51	B1A0659	CP1	1
2,4,6-Trichlorophenol	< 0.539	1.08			ug/L	0.263	0.539	01/26/21 11:51	B1A0659	CP1	1
2,4-Dichlorophenol	< 0.539	1.08			ug/L	0.0850	0.539	01/26/21 11:51	B1A0659	CP1	1
2,4-Dimethylphenol	< 1.08	2.16			ug/L	0.127	1.08	01/26/21 11:51	B1A0659	CP1	1
2,4-Dinitrophenol	< 10.8	32.4			ug/L	3.57	10.8	01/26/21 11:51	B1A0659	CP1	1
2,4-Dinitrotoluene	< 1.08	2.16			ug/L	0.272	1.08	01/26/21 11:51	B1A0659	CP1	1
2,6-Dinitrotoluene	< 0.539	1.08			ug/L	0.248	0.539	01/26/21 11:51	B1A0659	CP1	1
2-Chloronaphthalene	< 0.324	0.647			ug/L	0.114	0.324	01/26/21 11:51	B1A0659	CP1	1
2-Chlorophenol	< 0.539	1.08			ug/L	0.165	0.539	01/26/21 11:51	B1A0659	CP1	1
2-Methylnaphthalene	< 2.16	4.31			ug/L	0.690	2.16	01/26/21 11:51	B1A0659	CP1	1
2-Methylphenol	< 0.539	1.08			ug/L	0.197	0.539	01/26/21 11:51	B1A0659	CP1	1
2-Nitroaniline	< 10.8	32.4			ug/L	2.76	10.8	01/26/21 11:51	B1A0659	CP1	1
2-Nitrophenol	< 0.539	1.08			ug/L	0.226	0.539	01/26/21 11:51	B1A0659	CP1	1
3,3'-Dichlorobenzidine	< 10.8	21.6			ug/L	3.41	10.8	01/26/21 11:51	B1A0659	CP1	1
3 & 4-Methylphenol	< 0.539	1.08			ug/L	0.193	0.539	01/26/21 11:51	B1A0659	CP1	1
3-Nitroaniline	< 1.08	2.16			ug/L	0.388	1.08	01/26/21 11:51	B1A0659	CP1	1
4,6-Dinitro-2-methylphenol	< 5.39	16.2			ug/L	2.64	5.39	01/26/21 11:51	B1A0659	CP1	1
4-Bromophenyl-phenylether	< 0.539	1.08			ug/L	0.173	0.539	01/26/21 11:51	B1A0659	CP1	1
4-Chloro-3-methylphenol	< 0.216	0.539			ug/L	0.0769	0.216	01/26/21 11:51	B1A0659	CP1	1
4-Chloroaniline	< 0.324	0.647			ug/L	0.115	0.324	01/26/21 11:51	B1A0659	CP1	1
4-Chlorophenyl-phenylether	< 0.539	1.08			ug/L	0.157	0.539	01/26/21 11:51	B1A0659	CP1	1
4-Nitroaniline	< 10.8	32.4			ug/L	4.07	10.8	01/26/21 11:51	B1A0659	CP1	1
4-Nitrophenol	< 5.39	16.2			ug/L	1.55	5.39	01/26/21 11:51	B1A0659	CP1	1
Acenaphthene	< 0.324	0.647			ug/L	0.112	0.324	01/26/21 11:51	B1A0659	CP1	1
Acenaphthylene	< 0.324	0.647			ug/L	0.140	0.324	01/26/21 11:51	B1A0659	CP1	1
Anthracene	< 0.324	0.647			ug/L	0.120	0.324	01/26/21 11:51	B1A0659	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.324	1.08			ug/L	0.0827	0.324	01/26/21 11:51	B1A0659	CP1	1
Benzidine	< 43.1	86.3			ug/L	17.9	43.1	01/26/21 11:51	B1A0659	CP1	1
Benzo(a)anthracene	< 0.324	0.647			ug/L	0.133	0.324	01/26/21 11:51	B1A0659	CP1	1
Benzo(a)pyrene	< 1.08	2.16			ug/L	0.405	1.08	01/26/21 11:51	B1A0659	CP1	1
Benzo(b)fluoranthene	< 1.08	2.16			ug/L	0.402	1.08	01/26/21 11:51	B1A0659	CP1	1
Benzo(g,h,i)perylene	< 1.08	2.16			ug/L	0.431	1.08	01/26/21 11:51	B1A0659	CP1	1
Benzo(k)fluoranthene	< 0.539	2.16			ug/L	0.268	0.539	01/26/21 11:51	B1A0659	CP1	1
Benzoic acid	< 25.9	43.1			ug/L	12.7	25.9	01/26/21 11:51	B1A0659	CP1	1
Benzyl alcohol	< 2.16	4.31			ug/L	0.593	2.16	01/26/21 11:51	B1A0659	CP1	1
Bis(2-chloroethoxy)methane	< 0.539	1.08			ug/L	0.146	0.539	01/26/21 11:51	B1A0659	CP1	1
Bis(2-chloroethyl)ether	< 0.539	1.08			ug/L	0.190	0.539	01/26/21 11:51	B1A0659	CP1	1
Bis(2-chloroisopropyl)ether	< 0.539	1.08			ug/L	0.138	0.539	01/26/21 11:51	B1A0659	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.8	21.6			ug/L	3.92	10.8	01/26/21 11:51	B1A0659	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-3
Report Date: 02/10/2021
Collection Date: 01/18/2021 11:55
Matrix: Groundwater
Lab ID: 21A0717-05 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Semivolatile Organic Compounds by GC/MS (Continued)											
Method: SW8270D / SW3510 (Continued)											
Butyl benzyl phthalate	< 0.539	1.08			ug/L	0.252	0.539	01/26/21 11:51	B1A0659	CP1	1
Carbazole	< 0.539	1.08			ug/L	0.186	0.539	01/26/21 11:51	B1A0659	CP1	1
Chrysene	< 0.324	0.647			ug/L	0.137	0.324	01/26/21 11:51	B1A0659	CP1	1
Dibenzo(a,h)anthracene	< 1.08	2.16			ug/L	0.476	1.08	01/26/21 11:51	B1A0659	CP1	1
Dibenzofuran	< 0.324	0.647			ug/L	0.132	0.324	01/26/21 11:51	B1A0659	CP1	1
Diethyl phthalate	< 3.24	6.47			ug/L	1.26	3.24	01/26/21 11:51	B1A0659	CP1	1
Dimethyl phthalate	< 0.324	0.647			ug/L	0.0952	0.324	01/26/21 11:51	B1A0659	CP1	1
Di-n-butyl phthalate	< 6.47	10.8			ug/L	3.11	6.47	01/26/21 11:51	B1A0659	CP1	1
Di-n-octyl phthalate	< 5.39	10.8			ug/L	2.04	5.39	01/26/21 11:51	B1A0659	CP1	1
Fluoranthene	< 0.539	1.08			ug/L	0.212	0.539	01/26/21 11:51	B1A0659	CP1	1
Fluorene	< 0.324	0.647			ug/L	0.134	0.324	01/26/21 11:51	B1A0659	CP1	1
Hexachlorobenzene	< 0.539	1.08			ug/L	0.178	0.539	01/26/21 11:51	B1A0659	CP1	1
Hexachlorobutadiene	< 0.539	1.08			ug/L	0.270	0.539	01/26/21 11:51	B1A0659	CP1	1
Hexachlorocyclopentadiene	< 5.39	16.2			ug/L	2.36	5.39	01/26/21 11:51	B1A0659	CP1	1
Hexachloroethane	< 0.539	1.08			ug/L	0.237	0.539	01/26/21 11:51	B1A0659	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.08	2.16			ug/L	0.542	1.08	01/26/21 11:51	B1A0659	CP1	1
Isophorone	< 0.324	0.647			ug/L	0.119	0.324	01/26/21 11:51	B1A0659	CP1	1
Naphthalene	< 2.16	4.31			ug/L	0.880	2.16	01/26/21 11:51	B1A0659	CP1	1
Nitrobenzene	< 0.324	0.647			ug/L	0.151	0.324	01/26/21 11:51	B1A0659	CP1	1
N-Nitrosodimethylamine	< 0.539	1.08			ug/L	0.168	0.539	01/26/21 11:51	B1A0659	CP1	1
N-Nitrosodi-n-propylamine	< 1.08	2.16			ug/L	0.344	1.08	01/26/21 11:51	B1A0659	CP1	1
N-Nitrosodiphenylamine	< 0.324	0.647			ug/L	0.112	0.324	01/26/21 11:51	B1A0659	CP1	1
Pentachlorophenol	< 10.8	32.4			ug/L	2.72	10.8	01/26/21 11:51	B1A0659	CP1	1
Phenanthrene	< 0.539	1.08			ug/L	0.222	0.539	01/26/21 11:51	B1A0659	CP1	1
Phenol	< 0.539	1.08			ug/L	0.184	0.539	01/26/21 11:51	B1A0659	CP1	1
Pyrene	< 0.539	1.08			ug/L	0.224	0.539	01/26/21 11:51	B1A0659	CP1	1
<i>Surrogate: 2-Fluorophenol</i>					<i>Recovery: 31%</i>	<i>Limits: 10-88</i>		<i>01/26/21 11:51</i>	<i>B1A0659</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Phenol-d5</i>					<i>Recovery: 27%</i>	<i>Limits: 10-65</i>		<i>01/26/21 11:51</i>	<i>B1A0659</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Nitrobenzene-d5</i>					<i>Recovery: 68%</i>	<i>Limits: 25-128</i>		<i>01/26/21 11:51</i>	<i>B1A0659</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2-Fluorobiphenyl</i>					<i>Recovery: 64%</i>	<i>Limits: 24-114</i>		<i>01/26/21 11:51</i>	<i>B1A0659</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>					<i>Recovery: 69%</i>	<i>Limits: 15-119</i>		<i>01/26/21 11:51</i>	<i>B1A0659</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 4-Terphenyl-d14</i>					<i>Recovery: 97%</i>	<i>Limits: 29-129</i>		<i>01/26/21 11:51</i>	<i>B1A0659</i>	<i>CP1</i>	<i>1</i>

Subcontracted Analyses**Method: SW8260-SIM Modified / SW5030**

1,4-Dioxane	< 0.200	0.500			ug/L	0.0625	0.200	01/25/21 16:31	B1A0755	CP1	1
<i>Surrogate: Toluene-d8</i>					<i>Recovery: 98%</i>	<i>Limits: 80-120</i>		<i>01/25/21 16:31</i>	<i>B1A0755</i>	<i>CP1</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants**Client Sample ID:** MW-3 Filtered**Project:** Milw Die Cast**Report Date:** 02/10/2021**Work Order:** 21A0717**Collection Date:** 01/18/2021 11:55**Matrix:** Groundwater**Lab ID:** 21A0717-06

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual								
Polychlorinated Biphenyls (PCBs) by GC/ECD											
Method: SW8082A / SW3510											
Aroclor 1016	< 0.530	1.06		ug/L	0.225	0.530	01/25/21 10:30	B1A0660	CS2	1	
Aroclor 1221	< 0.530	0.636		ug/L	0.203	0.530	01/25/21 10:30	B1A0660	CS2	1	
Aroclor 1232	< 0.530	0.636		ug/L	0.172	0.530	01/25/21 10:30	B1A0660	CS2	1	
Aroclor 1242	< 1.06	2.12		ug/L	0.371	1.06	01/25/21 10:30	B1A0660	CS2	1	
Aroclor 1248	< 0.530	0.636		ug/L	0.169	0.530	01/25/21 10:30	B1A0660	CS2	1	
Aroclor 1254	< 0.530	0.636		ug/L	0.186	0.530	01/25/21 10:30	B1A0660	CS2	1	
Aroclor 1260	< 0.318	0.424		ug/L	0.119	0.318	01/25/21 10:30	B1A0660	CS2	1	
Total PCB	< 0.530	0.636		ug/L	0.203	0.530	01/25/21 10:30	B1A0660	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>				<i>Recovery: 101%</i>		<i>Limits: 10-139</i>		<i>01/25/21 10:30</i>	<i>B1A0660</i>	<i>CS2</i>	<i>1</i>
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>				<i>Recovery: 56%</i>		<i>Limits: 26-107</i>		<i>01/25/21 10:30</i>	<i>B1A0660</i>	<i>CS2</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-4
Report Date: 02/10/2021
Collection Date: 01/20/2021 14:30
Matrix: Groundwater
Lab ID: 21A0717-07

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	6.38	1.00		mg/L	0.400	0.800	01/25/21 22:22	B1A0740	TB2	1
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3510										
Aroclor 1016	< 0.518	1.04		ug/L	0.220	0.518	01/27/21 17:08	B1A0753	CS2	1
Aroclor 1221	< 0.518	0.622		ug/L	0.198	0.518	01/27/21 17:08	B1A0753	CS2	1
Aroclor 1232	< 0.518	0.622		ug/L	0.168	0.518	01/27/21 17:08	B1A0753	CS2	1
Aroclor 1242	< 1.04	2.07		ug/L	0.363	1.04	01/27/21 17:08	B1A0753	CS2	1
Aroclor 1248	< 0.518	0.622		ug/L	0.166	0.518	01/27/21 17:08	B1A0753	CS2	1
Aroclor 1254	< 0.518	0.622		ug/L	0.182	0.518	01/27/21 17:08	B1A0753	CS2	1
Aroclor 1260	< 0.311	0.415		ug/L	0.116	0.311	01/27/21 17:08	B1A0753	CS2	1
Total PCB	< 0.518	0.622		ug/L	0.198	0.518	01/27/21 17:08	B1A0753	CS2	1
Surrogate: Decachlorobiphenyl				Recovery: 71%	Limits: 10-139		01/27/21 17:08	B1A0753	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				Recovery: 52%	Limits: 26-107		01/27/21 17:08	B1A0753	CS2	1
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.706	2.00	01/26/21 14:39	B1A0778	WZZ	1
1,1,1-Trichloroethane	13.7	4.00		ug/L	0.719	2.00	01/26/21 14:39	B1A0778	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.713	2.00	01/26/21 14:39	B1A0778	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00		ug/L	0.198	0.600	01/26/21 14:39	B1A0778	WZZ	1
1,1-Dichloroethane	8.53	4.00		ug/L	0.691	2.00	01/26/21 14:39	B1A0778	WZZ	1
1,1-Dichloroethene	< 4.00	8.00		ug/L	1.10	4.00	01/26/21 14:39	B1A0778	WZZ	1
1,1-Dichloropropene	< 1.00	2.00		ug/L	0.462	1.00	01/26/21 14:39	B1A0778	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00		ug/L	0.199	0.600	01/26/21 14:39	B1A0778	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00		ug/L	0.598	2.00	01/26/21 14:39	B1A0778	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00		ug/L	0.753	2.00	01/26/21 14:39	B1A0778	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00		ug/L	1.22	4.00	01/26/21 14:39	B1A0778	WZZ	1
1,2-Dibromoethane	< 1.00	2.00		ug/L	0.420	1.00	01/26/21 14:39	B1A0778	WZZ	1
1,2-Dichloroethane	< 2.00	4.00		ug/L	0.731	2.00	01/26/21 14:39	B1A0778	WZZ	1
1,2-Dichloropropane	< 2.00	4.00		ug/L	0.557	2.00	01/26/21 14:39	B1A0778	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00		ug/L	0.351	1.00	01/26/21 14:39	B1A0778	WZZ	1
1,3-Dichloropropane	< 1.00	2.00		ug/L	0.345	1.00	01/26/21 14:39	B1A0778	WZZ	1
2,2-Dichloropropane	< 4.00	8.00		ug/L	1.03	4.00	01/26/21 14:39	B1A0778	WZZ	1
2-Butanone	< 14.0	28.0		ug/L	4.79	14.0	01/26/21 14:39	B1A0778	WZZ	1
2-Chlorotoluene	< 1.00	2.00		ug/L	0.384	1.00	01/26/21 14:39	B1A0778	WZZ	1
2-Hexanone	< 14.0	28.0		ug/L	4.74	14.0	01/26/21 14:39	B1A0778	WZZ	1
4-Isopropyltoluene	< 2.00	4.00		ug/L	0.930	2.00	01/26/21 14:39	B1A0778	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0		ug/L	4.40	14.0	01/26/21 14:39	B1A0778	WZZ	1
Acetone	< 28.0	70.0		ug/L	9.21	28.0	01/26/21 14:39	B1A0778	WZZ	1
Benzene	< 1.00	2.00		ug/L	0.362	1.00	01/26/21 14:39	B1A0778	WZZ	1
Bromobenzene	< 1.00	2.00		ug/L	0.354	1.00	01/26/21 14:39	B1A0778	WZZ	1
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	01/26/21 14:39	B1A0778	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-4
Report Date: 02/10/2021
Collection Date: 01/20/2021 14:30
Matrix: Groundwater
Lab ID: 21A0717-07 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	01/26/21 14:39	B1A0778	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	01/26/21 14:39	B1A0778	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	01/26/21 14:39	B1A0778	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	01/26/21 14:39	B1A0778	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	01/26/21 14:39	B1A0778	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	01/26/21 14:39	B1A0778	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	01/26/21 14:39	B1A0778	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	01/26/21 14:39	B1A0778	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	01/26/21 14:39	B1A0778	WZZ	1
cis-1,2-Dichloroethene	23.4	4.00		ug/L	0.652	2.00	01/26/21 14:39	B1A0778	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	01/26/21 14:39	B1A0778	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	01/26/21 14:39	B1A0778	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	01/26/21 14:39	B1A0778	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	01/26/21 14:39	B1A0778	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	01/26/21 14:39	B1A0778	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	01/26/21 14:39	B1A0778	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	01/26/21 14:39	B1A0778	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	01/26/21 14:39	B1A0778	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	01/26/21 14:39	B1A0778	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	01/26/21 14:39	B1A0778	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	01/26/21 14:39	B1A0778	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	01/26/21 14:39	B1A0778	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	01/26/21 14:39	B1A0778	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	01/26/21 14:39	B1A0778	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 14:39	B1A0778	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	01/26/21 14:39	B1A0778	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	01/26/21 14:39	B1A0778	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	01/26/21 14:39	B1A0778	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	01/26/21 14:39	B1A0778	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 14:39	B1A0778	WZZ	1
Trichloroethene	7.57	4.00		ug/L	0.939	2.00	01/26/21 14:39	B1A0778	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	01/26/21 14:39	B1A0778	WZZ	1
Vinyl chloride	12.2	4.00		ug/L	0.582	2.00	01/26/21 14:39	B1A0778	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	01/26/21 14:39	B1A0778	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 110%</i>	<i>Limits: 84-137</i>		<i>01/26/21 14:39</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 106%</i>	<i>Limits: 74-140</i>		<i>01/26/21 14:39</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 99%</i>	<i>Limits: 90-105</i>		<i>01/26/21 14:39</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 96%</i>	<i>Limits: 74-109</i>		<i>01/26/21 14:39</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 101%</i>	<i>Limits: 86-128</i>		<i>01/26/21 14:39</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 101%</i>	<i>Limits: 90-128</i>		<i>01/26/21 14:39</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-4
Report Date: 02/10/2021
Collection Date: 01/20/2021 14:30
Matrix: Groundwater
Lab ID: 21A0717-07 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit									
Semivolatile Organic Compounds by GC/MS											
Method: SW8270D / SW3510											
1,2,4-Trichlorobenzene	< 1.04	2.08			ug/L	0.292	1.04	01/26/21 12:12	B1A0681	CP1	1
1,2-Dichlorobenzene	< 1.04	2.08			ug/L	0.313	1.04	01/26/21 12:12	B1A0681	CP1	1
1,3-Dichlorobenzene	< 1.04	2.08			ug/L	0.323	1.04	01/26/21 12:12	B1A0681	CP1	1
1,4-Dichlorobenzene	< 1.04	2.08			ug/L	0.292	1.04	01/26/21 12:12	B1A0681	CP1	1
2,4,5-Trichlorophenol	< 0.521	1.04			ug/L	0.135	0.521	01/26/21 12:12	B1A0681	CP1	1
2,4,6-Trichlorophenol	< 0.521	1.04			ug/L	0.254	0.521	01/26/21 12:12	B1A0681	CP1	1
2,4-Dichlorophenol	< 0.521	1.04			ug/L	0.0821	0.521	01/26/21 12:12	B1A0681	CP1	1
2,4-Dimethylphenol	< 1.04	2.08			ug/L	0.122	1.04	01/26/21 12:12	B1A0681	CP1	1
2,4-Dinitrophenol	< 10.4	31.3			ug/L	3.45	10.4	01/26/21 12:12	B1A0681	CP1	1
2,4-Dinitrotoluene	< 1.04	2.08			ug/L	0.263	1.04	01/26/21 12:12	B1A0681	CP1	1
2,6-Dinitrotoluene	< 0.521	1.04			ug/L	0.239	0.521	01/26/21 12:12	B1A0681	CP1	1
2-Chloronaphthalene	< 0.313	0.625			ug/L	0.110	0.313	01/26/21 12:12	B1A0681	CP1	1
2-Chlorophenol	< 0.521	1.04			ug/L	0.160	0.521	01/26/21 12:12	B1A0681	CP1	1
2-Methylnaphthalene	< 2.08	4.17			ug/L	0.667	2.08	01/26/21 12:12	B1A0681	CP1	1
2-Methylphenol	< 0.521	1.04			ug/L	0.191	0.521	01/26/21 12:12	B1A0681	CP1	1
2-Nitroaniline	< 10.4	31.3			ug/L	2.67	10.4	01/26/21 12:12	B1A0681	CP1	1
2-Nitrophenol	< 0.521	1.04			ug/L	0.218	0.521	01/26/21 12:12	B1A0681	CP1	1
3,3'-Dichlorobenzidine	< 10.4	20.8			ug/L	3.30	10.4	01/26/21 12:12	B1A0681	CP1	1
3 & 4-Methylphenol	< 0.521	1.04			ug/L	0.187	0.521	01/26/21 12:12	B1A0681	CP1	1
3-Nitroaniline	< 1.04	2.08			ug/L	0.375	1.04	01/26/21 12:12	B1A0681	CP1	1
4,6-Dinitro-2-methylphenol	< 5.21	15.6			ug/L	2.55	5.21	01/26/21 12:12	B1A0681	CP1	1
4-Bromophenyl-phenylether	< 0.521	1.04			ug/L	0.167	0.521	01/26/21 12:12	B1A0681	CP1	1
4-Chloro-3-methylphenol	< 0.208	0.521			ug/L	0.0743	0.208	01/26/21 12:12	B1A0681	CP1	1
4-Chloroaniline	< 0.313	0.625			ug/L	0.111	0.313	01/26/21 12:12	B1A0681	CP1	1
4-Chlorophenyl-phenylether	< 0.521	1.04			ug/L	0.152	0.521	01/26/21 12:12	B1A0681	CP1	1
4-Nitroaniline	< 10.4	31.3			ug/L	3.93	10.4	01/26/21 12:12	B1A0681	CP1	1
4-Nitrophenol	< 5.21	15.6			ug/L	1.50	5.21	01/26/21 12:12	B1A0681	CP1	1
Acenaphthene	< 0.313	0.625			ug/L	0.108	0.313	01/26/21 12:12	B1A0681	CP1	1
Acenaphthylene	< 0.313	0.625			ug/L	0.135	0.313	01/26/21 12:12	B1A0681	CP1	1
Anthracene	< 0.313	0.625			ug/L	0.116	0.313	01/26/21 12:12	B1A0681	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.313	1.04			ug/L	0.0799	0.313	01/26/21 12:12	B1A0681	CP1	1
Benzidine	< 41.7	83.3			ug/L	17.3	41.7	01/26/21 12:12	B1A0681	CP1	1
Benzo(a)anthracene	< 0.313	0.625			ug/L	0.128	0.313	01/26/21 12:12	B1A0681	CP1	1
Benzo(a)pyrene	< 1.04	2.08			ug/L	0.391	1.04	01/26/21 12:12	B1A0681	CP1	1
Benzo(b)fluoranthene	< 1.04	2.08			ug/L	0.388	1.04	01/26/21 12:12	B1A0681	CP1	1
Benzo(g,h,i)perylene	< 1.04	2.08			ug/L	0.416	1.04	01/26/21 12:12	B1A0681	CP1	1
Benzo(k)fluoranthene	< 0.521	2.08			ug/L	0.259	0.521	01/26/21 12:12	B1A0681	CP1	1
Benzoic acid	< 25.0	41.7			ug/L	12.2	25.0	01/26/21 12:12	B1A0681	CP1	1
Benzyl alcohol	< 2.08	4.17			ug/L	0.573	2.08	01/26/21 12:12	B1A0681	CP1	1
Bis(2-chloroethoxy)methane	< 0.521	1.04			ug/L	0.141	0.521	01/26/21 12:12	B1A0681	CP1	1
Bis(2-chloroethyl)ether	< 0.521	1.04			ug/L	0.183	0.521	01/26/21 12:12	B1A0681	CP1	1
Bis(2-chloroisopropyl)ether	< 0.521	1.04			ug/L	0.134	0.521	01/26/21 12:12	B1A0681	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.4	20.8			ug/L	3.78	10.4	01/26/21 12:12	B1A0681	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-4
Report Date: 02/10/2021
Collection Date: 01/20/2021 14:30
Matrix: Groundwater
Lab ID: 21A0717-07 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS (Continued)										
Method: SW8270D / SW3510 (Continued)										
Butyl benzyl phthalate	< 0.521	1.04		ug/L	0.244	0.521	01/26/21 12:12	B1A0681	CP1	1
Carbazole	< 0.521	1.04		ug/L	0.180	0.521	01/26/21 12:12	B1A0681	CP1	1
Chrysene	< 0.313	0.625		ug/L	0.132	0.313	01/26/21 12:12	B1A0681	CP1	1
Dibenzo(a,h)anthracene	< 1.04	2.08		ug/L	0.460	1.04	01/26/21 12:12	B1A0681	CP1	1
Dibenzofuran	< 0.313	0.625		ug/L	0.128	0.313	01/26/21 12:12	B1A0681	CP1	1
Diethyl phthalate	< 3.13	6.25		ug/L	1.21	3.13	01/26/21 12:12	B1A0681	CP1	1
Dimethyl phthalate	< 0.313	0.625		ug/L	0.0920	0.313	01/26/21 12:12	B1A0681	CP1	1
Di-n-butyl phthalate	< 6.25	10.4		ug/L	3.00	6.25	01/26/21 12:12	B1A0681	CP1	1
Di-n-octyl phthalate	< 5.21	10.4		ug/L	1.97	5.21	01/26/21 12:12	B1A0681	CP1	1
Fluoranthene	< 0.521	1.04		ug/L	0.205	0.521	01/26/21 12:12	B1A0681	CP1	1
Fluorene	< 0.313	0.625		ug/L	0.129	0.313	01/26/21 12:12	B1A0681	CP1	1
Hexachlorobenzene	< 0.521	1.04		ug/L	0.172	0.521	01/26/21 12:12	B1A0681	CP1	1
Hexachlorobutadiene	< 0.521	1.04		ug/L	0.260	0.521	01/26/21 12:12	B1A0681	CP1	1
Hexachlorocyclopentadiene	< 5.21	15.6		ug/L	2.28	5.21	01/26/21 12:12	B1A0681	CP1	1
Hexachloroethane	< 0.521	1.04		ug/L	0.229	0.521	01/26/21 12:12	B1A0681	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.04	2.08		ug/L	0.523	1.04	01/26/21 12:12	B1A0681	CP1	1
Isophorone	< 0.313	0.625		ug/L	0.115	0.313	01/26/21 12:12	B1A0681	CP1	1
Naphthalene	< 2.08	4.17		ug/L	0.850	2.08	01/26/21 12:12	B1A0681	CP1	1
Nitrobenzene	< 0.313	0.625		ug/L	0.145	0.313	01/26/21 12:12	B1A0681	CP1	1
N-Nitrosodimethylamine	< 0.521	1.04		ug/L	0.162	0.521	01/26/21 12:12	B1A0681	CP1	1
N-Nitrosodi-n-propylamine	< 1.04	2.08		ug/L	0.332	1.04	01/26/21 12:12	B1A0681	CP1	1
N-Nitrosodiphenylamine	< 0.313	0.625		ug/L	0.108	0.313	01/26/21 12:12	B1A0681	CP1	1
Pentachlorophenol	< 10.4	31.3		ug/L	2.63	10.4	01/26/21 12:12	B1A0681	CP1	1
Phenanthrene	< 0.521	1.04		ug/L	0.215	0.521	01/26/21 12:12	B1A0681	CP1	1
Phenol	< 0.521	1.04		ug/L	0.178	0.521	01/26/21 12:12	B1A0681	CP1	1
Pyrene	< 0.521	1.04		ug/L	0.217	0.521	01/26/21 12:12	B1A0681	CP1	1
<i>Surrogate: 2-Fluorophenol</i>				<i>Recovery: 39%</i>	<i>Limits: 10-88</i>		<i>01/26/21 12:12</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Phenol-d5</i>				<i>Recovery: 40%</i>	<i>Limits: 10-65</i>		<i>01/26/21 12:12</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Nitrobenzene-d5</i>				<i>Recovery: 59%</i>	<i>Limits: 25-128</i>		<i>01/26/21 12:12</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2-Fluorobiphenyl</i>				<i>Recovery: 56%</i>	<i>Limits: 24-114</i>		<i>01/26/21 12:12</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>				<i>Recovery: 59%</i>	<i>Limits: 15-119</i>		<i>01/26/21 12:12</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 4-Terphenyl-d14</i>				<i>Recovery: 79%</i>	<i>Limits: 29-129</i>		<i>01/26/21 12:12</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500		ug/L	0.0625	0.200	01/25/21 16:56	B1A0755	CP1	1
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 108%</i>	<i>Limits: 80-120</i>		<i>01/25/21 16:56</i>	<i>B1A0755</i>	<i>CP1</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-4 Filtered
Report Date: 02/10/2021
Collection Date: 01/20/2021 14:30
Matrix: Groundwater
Lab ID: 21A0717-08

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit										
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.520	1.04			ug/L	0.221	0.520	01/27/21 17:25	B1A0753	CS2	1	
Aroclor 1221	< 0.520	0.625			ug/L	0.199	0.520	01/27/21 17:25	B1A0753	CS2	1	
Aroclor 1232	< 0.520	0.625			ug/L	0.169	0.520	01/27/21 17:25	B1A0753	CS2	1	
Aroclor 1242	< 1.04	2.08			ug/L	0.365	1.04	01/27/21 17:25	B1A0753	CS2	1	
Aroclor 1248	< 0.520	0.625			ug/L	0.166	0.520	01/27/21 17:25	B1A0753	CS2	1	
Aroclor 1254	< 0.520	0.625			ug/L	0.183	0.520	01/27/21 17:25	B1A0753	CS2	1	
Aroclor 1260	< 0.312	0.416			ug/L	0.117	0.312	01/27/21 17:25	B1A0753	CS2	1	
Total PCB	< 0.520	0.625			ug/L	0.199	0.520	01/27/21 17:25	B1A0753	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 87%		Limits: 10-139		01/27/21 17:25	B1A0753	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 55%		Limits: 26-107		01/27/21 17:25	B1A0753	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-5
Report Date: 02/10/2021
Collection Date: 01/21/2021 09:10
Matrix: Groundwater
Lab ID: 21A0717-09

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	2.17	1.00		mg/L	0.400	0.800	01/25/21 22:47	B1A0740	TB2	1
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3510										
Aroclor 1016	< 0.542	1.08		ug/L	0.230	0.542	01/27/21 17:42	B1A0753	CS2	1
Aroclor 1221	< 0.542	0.651		ug/L	0.208	0.542	01/27/21 17:42	B1A0753	CS2	1
Aroclor 1232	< 0.542	0.651		ug/L	0.176	0.542	01/27/21 17:42	B1A0753	CS2	1
Aroclor 1242	< 1.08	2.17		ug/L	0.380	1.08	01/27/21 17:42	B1A0753	CS2	1
Aroclor 1248	< 0.542	0.651		ug/L	0.173	0.542	01/27/21 17:42	B1A0753	CS2	1
Aroclor 1254	< 0.542	0.651		ug/L	0.191	0.542	01/27/21 17:42	B1A0753	CS2	1
Aroclor 1260	< 0.325	0.434		ug/L	0.122	0.325	01/27/21 17:42	B1A0753	CS2	1
Total PCB	< 0.542	0.651		ug/L	0.208	0.542	01/27/21 17:42	B1A0753	CS2	1
Surrogate: Decachlorobiphenyl				Recovery: 82%	Limits: 10-139		01/27/21 17:42	B1A0753	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				Recovery: 56%	Limits: 26-107		01/27/21 17:42	B1A0753	CS2	1
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.706	2.00	01/26/21 15:05	B1A0778	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00		ug/L	0.719	2.00	01/26/21 15:05	B1A0778	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.713	2.00	01/26/21 15:05	B1A0778	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00		ug/L	0.198	0.600	01/26/21 15:05	B1A0778	WZZ	1
1,1-Dichloroethane	< 2.00	4.00		ug/L	0.691	2.00	01/26/21 15:05	B1A0778	WZZ	1
1,1-Dichloroethene	< 4.00	8.00		ug/L	1.10	4.00	01/26/21 15:05	B1A0778	WZZ	1
1,1-Dichloropropene	< 1.00	2.00		ug/L	0.462	1.00	01/26/21 15:05	B1A0778	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00		ug/L	0.199	0.600	01/26/21 15:05	B1A0778	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00		ug/L	0.598	2.00	01/26/21 15:05	B1A0778	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00		ug/L	0.753	2.00	01/26/21 15:05	B1A0778	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00		ug/L	1.22	4.00	01/26/21 15:05	B1A0778	WZZ	1
1,2-Dibromoethane	< 1.00	2.00		ug/L	0.420	1.00	01/26/21 15:05	B1A0778	WZZ	1
1,2-Dichloroethane	< 2.00	4.00		ug/L	0.731	2.00	01/26/21 15:05	B1A0778	WZZ	1
1,2-Dichloropropane	< 2.00	4.00		ug/L	0.557	2.00	01/26/21 15:05	B1A0778	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00		ug/L	0.351	1.00	01/26/21 15:05	B1A0778	WZZ	1
1,3-Dichloropropane	< 1.00	2.00		ug/L	0.345	1.00	01/26/21 15:05	B1A0778	WZZ	1
2,2-Dichloropropane	< 4.00	8.00		ug/L	1.03	4.00	01/26/21 15:05	B1A0778	WZZ	1
2-Butanone	< 14.0	28.0		ug/L	4.79	14.0	01/26/21 15:05	B1A0778	WZZ	1
2-Chlorotoluene	< 1.00	2.00		ug/L	0.384	1.00	01/26/21 15:05	B1A0778	WZZ	1
2-Hexanone	< 14.0	28.0		ug/L	4.74	14.0	01/26/21 15:05	B1A0778	WZZ	1
4-Isopropyltoluene	< 2.00	4.00		ug/L	0.930	2.00	01/26/21 15:05	B1A0778	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0		ug/L	4.40	14.0	01/26/21 15:05	B1A0778	WZZ	1
Acetone	< 28.0	70.0		ug/L	9.21	28.0	01/26/21 15:05	B1A0778	WZZ	1
Benzene	< 1.00	2.00		ug/L	0.362	1.00	01/26/21 15:05	B1A0778	WZZ	1
Bromobenzene	< 1.00	2.00		ug/L	0.354	1.00	01/26/21 15:05	B1A0778	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-5
Report Date: 02/10/2021
Collection Date: 01/21/2021 09:10
Matrix: Groundwater
Lab ID: 21A0717-09 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	01/26/21 15:05	B1A0778	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	01/26/21 15:05	B1A0778	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	01/26/21 15:05	B1A0778	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	01/26/21 15:05	B1A0778	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	01/26/21 15:05	B1A0778	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	01/26/21 15:05	B1A0778	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	01/26/21 15:05	B1A0778	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	01/26/21 15:05	B1A0778	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	01/26/21 15:05	B1A0778	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	01/26/21 15:05	B1A0778	WZZ	1
cis-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.652	2.00	01/26/21 15:05	B1A0778	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	01/26/21 15:05	B1A0778	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	01/26/21 15:05	B1A0778	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	01/26/21 15:05	B1A0778	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	01/26/21 15:05	B1A0778	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	01/26/21 15:05	B1A0778	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	01/26/21 15:05	B1A0778	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	01/26/21 15:05	B1A0778	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	01/26/21 15:05	B1A0778	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	01/26/21 15:05	B1A0778	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	01/26/21 15:05	B1A0778	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	01/26/21 15:05	B1A0778	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	01/26/21 15:05	B1A0778	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	01/26/21 15:05	B1A0778	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	01/26/21 15:05	B1A0778	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 15:05	B1A0778	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	01/26/21 15:05	B1A0778	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	01/26/21 15:05	B1A0778	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	01/26/21 15:05	B1A0778	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	01/26/21 15:05	B1A0778	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 15:05	B1A0778	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	01/26/21 15:05	B1A0778	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	01/26/21 15:05	B1A0778	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	01/26/21 15:05	B1A0778	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	01/26/21 15:05	B1A0778	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 109%</i>	<i>Limits: 84-137</i>		<i>01/26/21 15:05</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 104%</i>	<i>Limits: 74-140</i>		<i>01/26/21 15:05</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 100%</i>	<i>Limits: 90-105</i>		<i>01/26/21 15:05</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 96%</i>	<i>Limits: 74-109</i>		<i>01/26/21 15:05</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 104%</i>	<i>Limits: 86-128</i>		<i>01/26/21 15:05</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 97%</i>	<i>Limits: 90-128</i>		<i>01/26/21 15:05</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-5
Report Date: 02/10/2021
Collection Date: 01/21/2021 09:10
Matrix: Groundwater
Lab ID: 21A0717-09 (Continued)

Analyses	Result	EMT		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Reporting Limit	Qual							
Semivolatile Organic Compounds by GC/MS										
Method: SW8270D / SW3510										
1,2,4-Trichlorobenzene	< 1.09	2.19		ug/L	0.306	1.09	01/26/21 12:33	B1A0681	CP1	1
1,2-Dichlorobenzene	< 1.09	2.19		ug/L	0.328	1.09	01/26/21 12:33	B1A0681	CP1	1
1,3-Dichlorobenzene	< 1.09	2.19		ug/L	0.339	1.09	01/26/21 12:33	B1A0681	CP1	1
1,4-Dichlorobenzene	< 1.09	2.19		ug/L	0.306	1.09	01/26/21 12:33	B1A0681	CP1	1
2,4,5-Trichlorophenol	< 0.547	1.09		ug/L	0.142	0.547	01/26/21 12:33	B1A0681	CP1	1
2,4,6-Trichlorophenol	< 0.547	1.09		ug/L	0.267	0.547	01/26/21 12:33	B1A0681	CP1	1
2,4-Dichlorophenol	< 0.547	1.09		ug/L	0.0863	0.547	01/26/21 12:33	B1A0681	CP1	1
2,4-Dimethylphenol	< 1.09	2.19		ug/L	0.129	1.09	01/26/21 12:33	B1A0681	CP1	1
2,4-Dinitrophenol	< 10.9	32.8		ug/L	3.62	10.9	01/26/21 12:33	B1A0681	CP1	1
2,4-Dinitrotoluene	< 1.09	2.19		ug/L	0.276	1.09	01/26/21 12:33	B1A0681	CP1	1
2,6-Dinitrotoluene	< 0.547	1.09		ug/L	0.252	0.547	01/26/21 12:33	B1A0681	CP1	1
2-Chloronaphthalene	< 0.328	0.657		ug/L	0.116	0.328	01/26/21 12:33	B1A0681	CP1	1
2-Chlorophenol	< 0.547	1.09		ug/L	0.168	0.547	01/26/21 12:33	B1A0681	CP1	1
2-Methylnaphthalene	< 2.19	4.38		ug/L	0.701	2.19	01/26/21 12:33	B1A0681	CP1	1
2-Methylphenol	< 0.547	1.09		ug/L	0.200	0.547	01/26/21 12:33	B1A0681	CP1	1
2-Nitroaniline	< 10.9	32.8		ug/L	2.80	10.9	01/26/21 12:33	B1A0681	CP1	1
2-Nitrophenol	< 0.547	1.09		ug/L	0.229	0.547	01/26/21 12:33	B1A0681	CP1	1
3,3'-Dichlorobenzidine	< 10.9	21.9		ug/L	3.46	10.9	01/26/21 12:33	B1A0681	CP1	1
3 & 4-Methylphenol	< 0.547	1.09		ug/L	0.196	0.547	01/26/21 12:33	B1A0681	CP1	1
3-Nitroaniline	< 1.09	2.19		ug/L	0.394	1.09	01/26/21 12:33	B1A0681	CP1	1
4,6-Dinitro-2-methylphenol	< 5.47	16.4		ug/L	2.68	5.47	01/26/21 12:33	B1A0681	CP1	1
4-Bromophenyl-phenylether	< 0.547	1.09		ug/L	0.175	0.547	01/26/21 12:33	B1A0681	CP1	1
4-Chloro-3-methylphenol	< 0.219	0.547		ug/L	0.0780	0.219	01/26/21 12:33	B1A0681	CP1	1
4-Chloroaniline	< 0.328	0.657		ug/L	0.117	0.328	01/26/21 12:33	B1A0681	CP1	1
4-Chlorophenyl-phenylether	< 0.547	1.09		ug/L	0.159	0.547	01/26/21 12:33	B1A0681	CP1	1
4-Nitroaniline	< 10.9	32.8		ug/L	4.13	10.9	01/26/21 12:33	B1A0681	CP1	1
4-Nitrophenol	< 5.47	16.4		ug/L	1.57	5.47	01/26/21 12:33	B1A0681	CP1	1
Acenaphthene	< 0.328	0.657		ug/L	0.114	0.328	01/26/21 12:33	B1A0681	CP1	1
Acenaphthylene	< 0.328	0.657		ug/L	0.142	0.328	01/26/21 12:33	B1A0681	CP1	1
Anthracene	< 0.328	0.657		ug/L	0.122	0.328	01/26/21 12:33	B1A0681	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.328	1.09		ug/L	0.0840	0.328	01/26/21 12:33	B1A0681	CP1	1
Benzidine	< 43.8	87.6		ug/L	18.1	43.8	01/26/21 12:33	B1A0681	CP1	1
Benzo(a)anthracene	< 0.328	0.657		ug/L	0.135	0.328	01/26/21 12:33	B1A0681	CP1	1
Benzo(a)pyrene	< 1.09	2.19		ug/L	0.411	1.09	01/26/21 12:33	B1A0681	CP1	1
Benzo(b)fluoranthene	< 1.09	2.19		ug/L	0.408	1.09	01/26/21 12:33	B1A0681	CP1	1
Benzo(g,h,i)perylene	< 1.09	2.19		ug/L	0.437	1.09	01/26/21 12:33	B1A0681	CP1	1
Benzo(k)fluoranthene	< 0.547	2.19		ug/L	0.272	0.547	01/26/21 12:33	B1A0681	CP1	1
Benzoic acid	< 26.3	43.8		ug/L	12.8	26.3	01/26/21 12:33	B1A0681	CP1	1
Benzyl alcohol	< 2.19	4.38		ug/L	0.602	2.19	01/26/21 12:33	B1A0681	CP1	1
Bis(2-chloroethoxy)methane	< 0.547	1.09		ug/L	0.148	0.547	01/26/21 12:33	B1A0681	CP1	1
Bis(2-chloroethyl)ether	< 0.547	1.09		ug/L	0.193	0.547	01/26/21 12:33	B1A0681	CP1	1
Bis(2-chloroisopropyl)ether	< 0.547	1.09		ug/L	0.140	0.547	01/26/21 12:33	B1A0681	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.9	21.9		ug/L	3.97	10.9	01/26/21 12:33	B1A0681	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-5
Report Date: 02/10/2021
Collection Date: 01/21/2021 09:10
Matrix: Groundwater
Lab ID: 21A0717-09 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS (Continued)										
Method: SW8270D / SW3510 (Continued)										
Butyl benzyl phthalate	< 0.547	1.09		ug/L	0.256	0.547	01/26/21 12:33	B1A0681	CP1	1
Carbazole	< 0.547	1.09		ug/L	0.189	0.547	01/26/21 12:33	B1A0681	CP1	1
Chrysene	< 0.328	0.657		ug/L	0.139	0.328	01/26/21 12:33	B1A0681	CP1	1
Dibenzo(a,h)anthracene	< 1.09	2.19		ug/L	0.484	1.09	01/26/21 12:33	B1A0681	CP1	1
Dibenzofuran	< 0.328	0.657		ug/L	0.134	0.328	01/26/21 12:33	B1A0681	CP1	1
Diethyl phthalate	< 3.28	6.57		ug/L	1.28	3.28	01/26/21 12:33	B1A0681	CP1	1
Dimethyl phthalate	< 0.328	0.657		ug/L	0.0967	0.328	01/26/21 12:33	B1A0681	CP1	1
Di-n-butyl phthalate	< 6.57	10.9		ug/L	3.15	6.57	01/26/21 12:33	B1A0681	CP1	1
Di-n-octyl phthalate	< 5.47	10.9		ug/L	2.07	5.47	01/26/21 12:33	B1A0681	CP1	1
Fluoranthene	< 0.547	1.09		ug/L	0.215	0.547	01/26/21 12:33	B1A0681	CP1	1
Fluorene	< 0.328	0.657		ug/L	0.136	0.328	01/26/21 12:33	B1A0681	CP1	1
Hexachlorobenzene	< 0.547	1.09		ug/L	0.181	0.547	01/26/21 12:33	B1A0681	CP1	1
Hexachlorobutadiene	< 0.547	1.09		ug/L	0.274	0.547	01/26/21 12:33	B1A0681	CP1	1
Hexachlorocyclopentadiene	< 5.47	16.4		ug/L	2.39	5.47	01/26/21 12:33	B1A0681	CP1	1
Hexachloroethane	< 0.547	1.09		ug/L	0.241	0.547	01/26/21 12:33	B1A0681	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.09	2.19		ug/L	0.550	1.09	01/26/21 12:33	B1A0681	CP1	1
Isophorone	< 0.328	0.657		ug/L	0.121	0.328	01/26/21 12:33	B1A0681	CP1	1
Naphthalene	< 2.19	4.38		ug/L	0.893	2.19	01/26/21 12:33	B1A0681	CP1	1
Nitrobenzene	< 0.328	0.657		ug/L	0.153	0.328	01/26/21 12:33	B1A0681	CP1	1
N-Nitrosodimethylamine	< 0.547	1.09		ug/L	0.171	0.547	01/26/21 12:33	B1A0681	CP1	1
N-Nitrosodi-n-propylamine	< 1.09	2.19		ug/L	0.349	1.09	01/26/21 12:33	B1A0681	CP1	1
N-Nitrosodiphenylamine	< 0.328	0.657		ug/L	0.114	0.328	01/26/21 12:33	B1A0681	CP1	1
Pentachlorophenol	< 10.9	32.8		ug/L	2.76	10.9	01/26/21 12:33	B1A0681	CP1	1
Phenanthrene	< 0.547	1.09		ug/L	0.225	0.547	01/26/21 12:33	B1A0681	CP1	1
Phenol	< 0.547	1.09		ug/L	0.187	0.547	01/26/21 12:33	B1A0681	CP1	1
Pyrene	< 0.547	1.09		ug/L	0.228	0.547	01/26/21 12:33	B1A0681	CP1	1
Surrogate: 2-Fluorophenol				Recovery: 32%	Limits: 10-88		01/26/21 12:33	B1A0681	CP1	1
Surrogate: Phenol-d5				Recovery: 25%	Limits: 10-65		01/26/21 12:33	B1A0681	CP1	1
Surrogate: Nitrobenzene-d5				Recovery: 65%	Limits: 25-128		01/26/21 12:33	B1A0681	CP1	1
Surrogate: 2-Fluorobiphenyl				Recovery: 58%	Limits: 24-114		01/26/21 12:33	B1A0681	CP1	1
Surrogate: 2,4,6-Tribromophenol				Recovery: 52%	Limits: 15-119		01/26/21 12:33	B1A0681	CP1	1
Surrogate: 4-Terphenyl-d14				Recovery: 73%	Limits: 29-129		01/26/21 12:33	B1A0681	CP1	1

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500		ug/L	0.0625	0.200	01/25/21 17:20	B1A0755	CP1	1
Surrogate: Toluene-d8				Recovery: 111%	Limits: 80-120		01/25/21 17:20	B1A0755	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-5 Filtered
Report Date: 02/10/2021
Collection Date: 01/21/2021 09:10
Matrix: Groundwater
Lab ID: 21A0717-10

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit										
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.520	1.04			ug/L	0.221	0.520	01/27/21 17:59	B1A0753	CS2	1	
Aroclor 1221	< 0.520	0.624			ug/L	0.199	0.520	01/27/21 17:59	B1A0753	CS2	1	
Aroclor 1232	< 0.520	0.624			ug/L	0.169	0.520	01/27/21 17:59	B1A0753	CS2	1	
Aroclor 1242	< 1.04	2.08			ug/L	0.364	1.04	01/27/21 17:59	B1A0753	CS2	1	
Aroclor 1248	< 0.520	0.624			ug/L	0.166	0.520	01/27/21 17:59	B1A0753	CS2	1	
Aroclor 1254	< 0.520	0.624			ug/L	0.183	0.520	01/27/21 17:59	B1A0753	CS2	1	
Aroclor 1260	< 0.312	0.416			ug/L	0.117	0.312	01/27/21 17:59	B1A0753	CS2	1	
Total PCB	< 0.520	0.624			ug/L	0.199	0.520	01/27/21 17:59	B1A0753	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 88%		Limits: 10-139		01/27/21 17:59	B1A0753	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 55%		Limits: 26-107		01/27/21 17:59	B1A0753	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-6
Report Date: 02/10/2021
Collection Date: 01/20/2021 11:30
Matrix: Groundwater
Lab ID: 21A0717-11

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	3.78	1.00		mg/L	0.400	0.800	01/26/21 01:19	B1A0740	TB2	1
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3510										
Aroclor 1016	< 0.524	1.05		ug/L	0.222	0.524	01/27/21 18:16	B1A0753	CS2	1
Aroclor 1221	< 0.524	0.629		ug/L	0.201	0.524	01/27/21 18:16	B1A0753	CS2	1
Aroclor 1232	< 0.524	0.629		ug/L	0.170	0.524	01/27/21 18:16	B1A0753	CS2	1
Aroclor 1242	< 1.05	2.10		ug/L	0.367	1.05	01/27/21 18:16	B1A0753	CS2	1
Aroclor 1248	< 0.524	0.629		ug/L	0.168	0.524	01/27/21 18:16	B1A0753	CS2	1
Aroclor 1254	< 0.524	0.629		ug/L	0.184	0.524	01/27/21 18:16	B1A0753	CS2	1
Aroclor 1260	< 0.314	0.419		ug/L	0.118	0.314	01/27/21 18:16	B1A0753	CS2	1
Total PCB	< 0.524	0.629		ug/L	0.201	0.524	01/27/21 18:16	B1A0753	CS2	1
Surrogate: Decachlorobiphenyl				Recovery: 76%	Limits: 10-139		01/27/21 18:16	B1A0753	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				Recovery: 51%	Limits: 26-107		01/27/21 18:16	B1A0753	CS2	1
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.706	2.00	01/26/21 15:30	B1A0778	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00		ug/L	0.719	2.00	01/26/21 15:30	B1A0778	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.713	2.00	01/26/21 15:30	B1A0778	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00		ug/L	0.198	0.600	01/26/21 15:30	B1A0778	WZZ	1
1,1-Dichloroethane	4.33	4.00		ug/L	0.691	2.00	01/26/21 15:30	B1A0778	WZZ	1
1,1-Dichloroethene	< 4.00	8.00		ug/L	1.10	4.00	01/26/21 15:30	B1A0778	WZZ	1
1,1-Dichloropropene	< 1.00	2.00		ug/L	0.462	1.00	01/26/21 15:30	B1A0778	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00		ug/L	0.199	0.600	01/26/21 15:30	B1A0778	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00		ug/L	0.598	2.00	01/26/21 15:30	B1A0778	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00		ug/L	0.753	2.00	01/26/21 15:30	B1A0778	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00		ug/L	1.22	4.00	01/26/21 15:30	B1A0778	WZZ	1
1,2-Dibromoethane	< 1.00	2.00		ug/L	0.420	1.00	01/26/21 15:30	B1A0778	WZZ	1
1,2-Dichloroethane	< 2.00	4.00		ug/L	0.731	2.00	01/26/21 15:30	B1A0778	WZZ	1
1,2-Dichloropropane	< 2.00	4.00		ug/L	0.557	2.00	01/26/21 15:30	B1A0778	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00		ug/L	0.351	1.00	01/26/21 15:30	B1A0778	WZZ	1
1,3-Dichloropropane	< 1.00	2.00		ug/L	0.345	1.00	01/26/21 15:30	B1A0778	WZZ	1
2,2-Dichloropropane	< 4.00	8.00		ug/L	1.03	4.00	01/26/21 15:30	B1A0778	WZZ	1
2-Butanone	< 14.0	28.0		ug/L	4.79	14.0	01/26/21 15:30	B1A0778	WZZ	1
2-Chlorotoluene	< 1.00	2.00		ug/L	0.384	1.00	01/26/21 15:30	B1A0778	WZZ	1
2-Hexanone	< 14.0	28.0		ug/L	4.74	14.0	01/26/21 15:30	B1A0778	WZZ	1
4-Isopropyltoluene	< 2.00	4.00		ug/L	0.930	2.00	01/26/21 15:30	B1A0778	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0		ug/L	4.40	14.0	01/26/21 15:30	B1A0778	WZZ	1
Acetone	< 28.0	70.0		ug/L	9.21	28.0	01/26/21 15:30	B1A0778	WZZ	1
Benzene	< 1.00	2.00		ug/L	0.362	1.00	01/26/21 15:30	B1A0778	WZZ	1
Bromobenzene	< 1.00	2.00		ug/L	0.354	1.00	01/26/21 15:30	B1A0778	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-6
Report Date: 02/10/2021
Collection Date: 01/20/2021 11:30
Matrix: Groundwater
Lab ID: 21A0717-11 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	01/26/21 15:30	B1A0778	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	01/26/21 15:30	B1A0778	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	01/26/21 15:30	B1A0778	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	01/26/21 15:30	B1A0778	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	01/26/21 15:30	B1A0778	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	01/26/21 15:30	B1A0778	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	01/26/21 15:30	B1A0778	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	01/26/21 15:30	B1A0778	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	01/26/21 15:30	B1A0778	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	01/26/21 15:30	B1A0778	WZZ	1
cis-1,2-Dichloroethene	22.3	4.00		ug/L	0.652	2.00	01/26/21 15:30	B1A0778	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	01/26/21 15:30	B1A0778	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	01/26/21 15:30	B1A0778	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	01/26/21 15:30	B1A0778	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	01/26/21 15:30	B1A0778	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	01/26/21 15:30	B1A0778	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	01/26/21 15:30	B1A0778	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	01/26/21 15:30	B1A0778	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	01/26/21 15:30	B1A0778	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	01/26/21 15:30	B1A0778	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	01/26/21 15:30	B1A0778	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	01/26/21 15:30	B1A0778	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	01/26/21 15:30	B1A0778	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	01/26/21 15:30	B1A0778	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	01/26/21 15:30	B1A0778	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 15:30	B1A0778	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	01/26/21 15:30	B1A0778	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	01/26/21 15:30	B1A0778	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	01/26/21 15:30	B1A0778	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	01/26/21 15:30	B1A0778	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 15:30	B1A0778	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	01/26/21 15:30	B1A0778	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	01/26/21 15:30	B1A0778	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	01/26/21 15:30	B1A0778	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	01/26/21 15:30	B1A0778	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 110%</i>	<i>Limits: 84-137</i>		<i>01/26/21 15:30</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 104%</i>	<i>Limits: 74-140</i>		<i>01/26/21 15:30</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 100%</i>	<i>Limits: 90-105</i>		<i>01/26/21 15:30</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 100%</i>	<i>Limits: 74-109</i>		<i>01/26/21 15:30</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 102%</i>	<i>Limits: 86-128</i>		<i>01/26/21 15:30</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 102%</i>	<i>Limits: 90-128</i>		<i>01/26/21 15:30</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants**Project:** Milw Die Cast**Work Order:** 21A0717**Client Sample ID:** MW-6**Report Date:** 02/10/2021**Collection Date:** 01/20/2021 11:30**Matrix:** Groundwater**Lab ID:** 21A0717-11 (Continued)

Analyses	Result	EMT		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Reporting Limit	Qual							
Semivolatile Organic Compounds by GC/MS										
Method: SW8270D / SW3510										
1,2,4-Trichlorobenzene	< 1.05	2.10		ug/L	0.294	1.05	01/26/21 14:58	B1A0681	CP1	1
1,2-Dichlorobenzene	< 1.05	2.10		ug/L	0.315	1.05	01/26/21 14:58	B1A0681	CP1	1
1,3-Dichlorobenzene	< 1.05	2.10		ug/L	0.325	1.05	01/26/21 14:58	B1A0681	CP1	1
1,4-Dichlorobenzene	< 1.05	2.10		ug/L	0.294	1.05	01/26/21 14:58	B1A0681	CP1	1
2,4,5-Trichlorophenol	< 0.524	1.05		ug/L	0.136	0.524	01/26/21 14:58	B1A0681	CP1	1
2,4,6-Trichlorophenol	< 0.524	1.05		ug/L	0.256	0.524	01/26/21 14:58	B1A0681	CP1	1
2,4-Dichlorophenol	< 0.524	1.05		ug/L	0.0826	0.524	01/26/21 14:58	B1A0681	CP1	1
2,4-Dimethylphenol	< 1.05	2.10		ug/L	0.123	1.05	01/26/21 14:58	B1A0681	CP1	1
2,4-Dinitrophenol	< 10.5	31.5		ug/L	3.47	10.5	01/26/21 14:58	B1A0681	CP1	1
2,4-Dinitrotoluene	< 1.05	2.10		ug/L	0.264	1.05	01/26/21 14:58	B1A0681	CP1	1
2,6-Dinitrotoluene	< 0.524	1.05		ug/L	0.241	0.524	01/26/21 14:58	B1A0681	CP1	1
2-Chloronaphthalene	< 0.315	0.629		ug/L	0.111	0.315	01/26/21 14:58	B1A0681	CP1	1
2-Chlorophenol	< 0.524	1.05		ug/L	0.161	0.524	01/26/21 14:58	B1A0681	CP1	1
2-Methylnaphthalene	< 2.10	4.19		ug/L	0.671	2.10	01/26/21 14:58	B1A0681	CP1	1
2-Methylphenol	< 0.524	1.05		ug/L	0.192	0.524	01/26/21 14:58	B1A0681	CP1	1
2-Nitroaniline	< 10.5	31.5		ug/L	2.69	10.5	01/26/21 14:58	B1A0681	CP1	1
2-Nitrophenol	< 0.524	1.05		ug/L	0.219	0.524	01/26/21 14:58	B1A0681	CP1	1
3,3'-Dichlorobenzidine	< 10.5	21.0		ug/L	3.32	10.5	01/26/21 14:58	B1A0681	CP1	1
3 & 4-Methylphenol	< 0.524	1.05		ug/L	0.188	0.524	01/26/21 14:58	B1A0681	CP1	1
3-Nitroaniline	< 1.05	2.10		ug/L	0.377	1.05	01/26/21 14:58	B1A0681	CP1	1
4,6-Dinitro-2-methylphenol	< 5.24	15.7		ug/L	2.57	5.24	01/26/21 14:58	B1A0681	CP1	1
4-Bromophenyl-phenylether	< 0.524	1.05		ug/L	0.168	0.524	01/26/21 14:58	B1A0681	CP1	1
4-Chloro-3-methylphenol	< 0.210	0.524		ug/L	0.0748	0.210	01/26/21 14:58	B1A0681	CP1	1
4-Chloroaniline	< 0.315	0.629		ug/L	0.112	0.315	01/26/21 14:58	B1A0681	CP1	1
4-Chlorophenyl-phenylether	< 0.524	1.05		ug/L	0.153	0.524	01/26/21 14:58	B1A0681	CP1	1
4-Nitroaniline	< 10.5	31.5		ug/L	3.96	10.5	01/26/21 14:58	B1A0681	CP1	1
4-Nitrophenol	< 5.24	15.7		ug/L	1.51	5.24	01/26/21 14:58	B1A0681	CP1	1
Acenaphthene	< 0.315	0.629		ug/L	0.109	0.315	01/26/21 14:58	B1A0681	CP1	1
Acenaphthylene	< 0.315	0.629		ug/L	0.136	0.315	01/26/21 14:58	B1A0681	CP1	1
Anthracene	< 0.315	0.629		ug/L	0.117	0.315	01/26/21 14:58	B1A0681	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.315	1.05		ug/L	0.0804	0.315	01/26/21 14:58	B1A0681	CP1	1
Benzydine	< 41.9	83.9		ug/L	17.4	41.9	01/26/21 14:58	B1A0681	CP1	1
Benzo(a)anthracene	< 0.315	0.629		ug/L	0.129	0.315	01/26/21 14:58	B1A0681	CP1	1
Benzo(a)pyrene	< 1.05	2.10		ug/L	0.394	1.05	01/26/21 14:58	B1A0681	CP1	1
Benzo(b)fluoranthene	< 1.05	2.10		ug/L	0.390	1.05	01/26/21 14:58	B1A0681	CP1	1
Benzo(g,h,i)perylene	< 1.05	2.10		ug/L	0.419	1.05	01/26/21 14:58	B1A0681	CP1	1
Benzo(k)fluoranthene	< 0.524	2.10		ug/L	0.261	0.524	01/26/21 14:58	B1A0681	CP1	1
Benzoic acid	< 25.2	41.9		ug/L	12.3	25.2	01/26/21 14:58	B1A0681	CP1	1
Benzyl alcohol	< 2.10	4.19		ug/L	0.577	2.10	01/26/21 14:58	B1A0681	CP1	1
Bis(2-chloroethoxy)methane	< 0.524	1.05		ug/L	0.142	0.524	01/26/21 14:58	B1A0681	CP1	1
Bis(2-chloroethyl)ether	< 0.524	1.05		ug/L	0.184	0.524	01/26/21 14:58	B1A0681	CP1	1
Bis(2-chloroisopropyl)ether	< 0.524	1.05		ug/L	0.135	0.524	01/26/21 14:58	B1A0681	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.5	21.0		ug/L	3.81	10.5	01/26/21 14:58	B1A0681	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-6
Report Date: 02/10/2021
Collection Date: 01/20/2021 11:30
Matrix: Groundwater
Lab ID: 21A0717-11 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS (Continued)										
Method: SW8270D / SW3510 (Continued)										
Butyl benzyl phthalate	< 0.524	1.05		ug/L	0.245	0.524	01/26/21 14:58	B1A0681	CP1	1
Carbazole	< 0.524	1.05		ug/L	0.181	0.524	01/26/21 14:58	B1A0681	CP1	1
Chrysene	< 0.315	0.629		ug/L	0.133	0.315	01/26/21 14:58	B1A0681	CP1	1
Dibenzo(a,h)anthracene	< 1.05	2.10		ug/L	0.463	1.05	01/26/21 14:58	B1A0681	CP1	1
Dibenzofuran	< 0.315	0.629		ug/L	0.129	0.315	01/26/21 14:58	B1A0681	CP1	1
Diethyl phthalate	< 3.15	6.29		ug/L	1.22	3.15	01/26/21 14:58	B1A0681	CP1	1
Dimethyl phthalate	< 0.315	0.629		ug/L	0.0926	0.315	01/26/21 14:58	B1A0681	CP1	1
Di-n-butyl phthalate	< 6.29	10.5		ug/L	3.02	6.29	01/26/21 14:58	B1A0681	CP1	1
Di-n-octyl phthalate	< 5.24	10.5		ug/L	1.98	5.24	01/26/21 14:58	B1A0681	CP1	1
Fluoranthene	< 0.524	1.05		ug/L	0.206	0.524	01/26/21 14:58	B1A0681	CP1	1
Fluorene	< 0.315	0.629		ug/L	0.130	0.315	01/26/21 14:58	B1A0681	CP1	1
Hexachlorobenzene	< 0.524	1.05		ug/L	0.173	0.524	01/26/21 14:58	B1A0681	CP1	1
Hexachlorobutadiene	< 0.524	1.05		ug/L	0.262	0.524	01/26/21 14:58	B1A0681	CP1	1
Hexachlorocyclopentadiene	< 5.24	15.7		ug/L	2.29	5.24	01/26/21 14:58	B1A0681	CP1	1
Hexachloroethane	< 0.524	1.05		ug/L	0.231	0.524	01/26/21 14:58	B1A0681	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.05	2.10		ug/L	0.527	1.05	01/26/21 14:58	B1A0681	CP1	1
Isophorone	< 0.315	0.629		ug/L	0.116	0.315	01/26/21 14:58	B1A0681	CP1	1
Naphthalene	< 2.10	4.19		ug/L	0.856	2.10	01/26/21 14:58	B1A0681	CP1	1
Nitrobenzene	< 0.315	0.629		ug/L	0.146	0.315	01/26/21 14:58	B1A0681	CP1	1
N-Nitrosodimethylamine	< 0.524	1.05		ug/L	0.163	0.524	01/26/21 14:58	B1A0681	CP1	1
N-Nitrosodi-n-propylamine	< 1.05	2.10		ug/L	0.334	1.05	01/26/21 14:58	B1A0681	CP1	1
N-Nitrosodiphenylamine	< 0.315	0.629		ug/L	0.109	0.315	01/26/21 14:58	B1A0681	CP1	1
Pentachlorophenol	< 10.5	31.5		ug/L	2.64	10.5	01/26/21 14:58	B1A0681	CP1	1
Phenanthrene	< 0.524	1.05		ug/L	0.216	0.524	01/26/21 14:58	B1A0681	CP1	1
Phenol	< 0.524	1.05		ug/L	0.179	0.524	01/26/21 14:58	B1A0681	CP1	1
Pyrene	< 0.524	1.05		ug/L	0.218	0.524	01/26/21 14:58	B1A0681	CP1	1
<i>Surrogate: 2-Fluorophenol</i>				<i>Recovery: 27%</i>	<i>Limits: 10-88</i>		<i>01/26/21 14:58</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Phenol-d5</i>				<i>Recovery: 22%</i>	<i>Limits: 10-65</i>		<i>01/26/21 14:58</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Nitrobenzene-d5</i>				<i>Recovery: 56%</i>	<i>Limits: 25-128</i>		<i>01/26/21 14:58</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2-Fluorobiphenyl</i>				<i>Recovery: 50%</i>	<i>Limits: 24-114</i>		<i>01/26/21 14:58</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>				<i>Recovery: 54%</i>	<i>Limits: 15-119</i>		<i>01/26/21 14:58</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 4-Terphenyl-d14</i>				<i>Recovery: 68%</i>	<i>Limits: 29-129</i>		<i>01/26/21 14:58</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	23.9	2.50		ug/L	0.312	1.00	01/29/21 17:05	B1B0005	CP1	5
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 106%</i>	<i>Limits: 80-120</i>		<i>01/25/21 17:44</i>	<i>B1A0755</i>	<i>CP1</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants**Project:** Milw Die Cast**Work Order:** 21A0717**Client Sample ID:** MW-6 Filtered**Report Date:** 02/10/2021**Collection Date:** 01/20/2021 11:30**Matrix:** Groundwater**Lab ID:** 21A0717-12

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Limit									
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.524	1.05			ug/L	0.222	0.524	01/27/21 18:33	B1A0753	CS2	1	
Aroclor 1221	< 0.524	0.628			ug/L	0.201	0.524	01/27/21 18:33	B1A0753	CS2	1	
Aroclor 1232	< 0.524	0.628			ug/L	0.170	0.524	01/27/21 18:33	B1A0753	CS2	1	
Aroclor 1242	< 1.05	2.09			ug/L	0.367	1.05	01/27/21 18:33	B1A0753	CS2	1	
Aroclor 1248	< 0.524	0.628			ug/L	0.167	0.524	01/27/21 18:33	B1A0753	CS2	1	
Aroclor 1254	< 0.524	0.628			ug/L	0.184	0.524	01/27/21 18:33	B1A0753	CS2	1	
Aroclor 1260	< 0.314	0.419			ug/L	0.117	0.314	01/27/21 18:33	B1A0753	CS2	1	
Total PCB	< 0.524	0.628			ug/L	0.201	0.524	01/27/21 18:33	B1A0753	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 86%		Limits: 10-139		01/27/21 18:33	B1A0753	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 57%		Limits: 26-107		01/27/21 18:33	B1A0753	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-6 DUP
Report Date: 02/10/2021
Collection Date: 01/20/2021 11:30
Matrix: Groundwater
Lab ID: 21A0717-13

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	3.76	1.00		mg/L	0.400	0.800	01/26/21 01:45	B1A0740	TB2	1
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3510										
Aroclor 1016	< 0.506	1.01		ug/L	0.215	0.506	01/27/21 18:50	B1A0753	CS2	1
Aroclor 1221	< 0.506	0.608		ug/L	0.194	0.506	01/27/21 18:50	B1A0753	CS2	1
Aroclor 1232	< 0.506	0.608		ug/L	0.164	0.506	01/27/21 18:50	B1A0753	CS2	1
Aroclor 1242	< 1.01	2.03		ug/L	0.355	1.01	01/27/21 18:50	B1A0753	CS2	1
Aroclor 1248	< 0.506	0.608		ug/L	0.162	0.506	01/27/21 18:50	B1A0753	CS2	1
Aroclor 1254	< 0.506	0.608		ug/L	0.178	0.506	01/27/21 18:50	B1A0753	CS2	1
Aroclor 1260	< 0.304	0.405		ug/L	0.114	0.304	01/27/21 18:50	B1A0753	CS2	1
Total PCB	< 0.506	0.608		ug/L	0.194	0.506	01/27/21 18:50	B1A0753	CS2	1
Surrogate: Decachlorobiphenyl				Recovery: 79%	Limits: 10-139		01/27/21 18:50	B1A0753	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				Recovery: 60%	Limits: 26-107		01/27/21 18:50	B1A0753	CS2	1
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.706	2.00	01/26/21 15:56	B1A0778	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00		ug/L	0.719	2.00	01/26/21 15:56	B1A0778	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.713	2.00	01/26/21 15:56	B1A0778	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00		ug/L	0.198	0.600	01/26/21 15:56	B1A0778	WZZ	1
1,1-Dichloroethane	< 2.00	4.00		ug/L	0.691	2.00	01/26/21 15:56	B1A0778	WZZ	1
1,1-Dichloroethene	< 4.00	8.00		ug/L	1.10	4.00	01/26/21 15:56	B1A0778	WZZ	1
1,1-Dichloropropene	< 1.00	2.00		ug/L	0.462	1.00	01/26/21 15:56	B1A0778	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00		ug/L	0.199	0.600	01/26/21 15:56	B1A0778	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00		ug/L	0.598	2.00	01/26/21 15:56	B1A0778	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00		ug/L	0.753	2.00	01/26/21 15:56	B1A0778	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00		ug/L	1.22	4.00	01/26/21 15:56	B1A0778	WZZ	1
1,2-Dibromoethane	< 1.00	2.00		ug/L	0.420	1.00	01/26/21 15:56	B1A0778	WZZ	1
1,2-Dichloroethane	< 2.00	4.00		ug/L	0.731	2.00	01/26/21 15:56	B1A0778	WZZ	1
1,2-Dichloropropane	< 2.00	4.00		ug/L	0.557	2.00	01/26/21 15:56	B1A0778	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00		ug/L	0.351	1.00	01/26/21 15:56	B1A0778	WZZ	1
1,3-Dichloropropane	< 1.00	2.00		ug/L	0.345	1.00	01/26/21 15:56	B1A0778	WZZ	1
2,2-Dichloropropane	< 4.00	8.00		ug/L	1.03	4.00	01/26/21 15:56	B1A0778	WZZ	1
2-Butanone	< 14.0	28.0		ug/L	4.79	14.0	01/26/21 15:56	B1A0778	WZZ	1
2-Chlorotoluene	< 1.00	2.00		ug/L	0.384	1.00	01/26/21 15:56	B1A0778	WZZ	1
2-Hexanone	< 14.0	28.0		ug/L	4.74	14.0	01/26/21 15:56	B1A0778	WZZ	1
4-Isopropyltoluene	< 2.00	4.00		ug/L	0.930	2.00	01/26/21 15:56	B1A0778	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0		ug/L	4.40	14.0	01/26/21 15:56	B1A0778	WZZ	1
Acetone	< 28.0	70.0		ug/L	9.21	28.0	01/26/21 15:56	B1A0778	WZZ	1
Benzene	< 1.00	2.00		ug/L	0.362	1.00	01/26/21 15:56	B1A0778	WZZ	1
Bromobenzene	< 1.00	2.00		ug/L	0.354	1.00	01/26/21 15:56	B1A0778	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-6 DUP
Report Date: 02/10/2021
Collection Date: 01/20/2021 11:30
Matrix: Groundwater
Lab ID: 21A0717-13 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	01/26/21 15:56	B1A0778	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	01/26/21 15:56	B1A0778	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	01/26/21 15:56	B1A0778	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	01/26/21 15:56	B1A0778	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	01/26/21 15:56	B1A0778	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	01/26/21 15:56	B1A0778	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	01/26/21 15:56	B1A0778	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	01/26/21 15:56	B1A0778	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	01/26/21 15:56	B1A0778	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	01/26/21 15:56	B1A0778	WZZ	1
cis-1,2-Dichloroethene	19.0	4.00		ug/L	0.652	2.00	01/26/21 15:56	B1A0778	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	01/26/21 15:56	B1A0778	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	01/26/21 15:56	B1A0778	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	01/26/21 15:56	B1A0778	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	01/26/21 15:56	B1A0778	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	01/26/21 15:56	B1A0778	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	01/26/21 15:56	B1A0778	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	01/26/21 15:56	B1A0778	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	01/26/21 15:56	B1A0778	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	01/26/21 15:56	B1A0778	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	01/26/21 15:56	B1A0778	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	01/26/21 15:56	B1A0778	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	01/26/21 15:56	B1A0778	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	01/26/21 15:56	B1A0778	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	01/26/21 15:56	B1A0778	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 15:56	B1A0778	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	01/26/21 15:56	B1A0778	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	01/26/21 15:56	B1A0778	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	01/26/21 15:56	B1A0778	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	01/26/21 15:56	B1A0778	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 15:56	B1A0778	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	01/26/21 15:56	B1A0778	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	01/26/21 15:56	B1A0778	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	01/26/21 15:56	B1A0778	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	01/26/21 15:56	B1A0778	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 106%</i>	<i>Limits: 84-137</i>		<i>01/26/21 15:56</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 104%</i>	<i>Limits: 74-140</i>		<i>01/26/21 15:56</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 99%</i>	<i>Limits: 90-105</i>		<i>01/26/21 15:56</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 100%</i>	<i>Limits: 74-109</i>		<i>01/26/21 15:56</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 103%</i>	<i>Limits: 86-128</i>		<i>01/26/21 15:56</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 101%</i>	<i>Limits: 90-128</i>		<i>01/26/21 15:56</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants**Project:** Milw Die Cast**Work Order:** 21A0717**Client Sample ID:** MW-6 DUP**Report Date:** 02/10/2021**Collection Date:** 01/20/2021 11:30**Matrix:** Groundwater**Lab ID:** 21A0717-13 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time	Batch	Analyst	DF
		Limit						Analyzed			
Semivolatile Organic Compounds by GC/MS											
Method: SW8270D / SW3510											
1,2,4-Trichlorobenzene	< 1.01	2.02			ug/L	0.283	1.01	01/26/21 15:19	B1A0681	CP1	1
1,2-Dichlorobenzene	< 1.01	2.02			ug/L	0.303	1.01	01/26/21 15:19	B1A0681	CP1	1
1,3-Dichlorobenzene	< 1.01	2.02			ug/L	0.313	1.01	01/26/21 15:19	B1A0681	CP1	1
1,4-Dichlorobenzene	< 1.01	2.02			ug/L	0.283	1.01	01/26/21 15:19	B1A0681	CP1	1
2,4,5-Trichlorophenol	< 0.505	1.01			ug/L	0.131	0.505	01/26/21 15:19	B1A0681	CP1	1
2,4,6-Trichlorophenol	< 0.505	1.01			ug/L	0.246	0.505	01/26/21 15:19	B1A0681	CP1	1
2,4-Dichlorophenol	< 0.505	1.01			ug/L	0.0796	0.505	01/26/21 15:19	B1A0681	CP1	1
2,4-Dimethylphenol	< 1.01	2.02			ug/L	0.119	1.01	01/26/21 15:19	B1A0681	CP1	1
2,4-Dinitrophenol	< 10.1	30.3			ug/L	3.34	10.1	01/26/21 15:19	B1A0681	CP1	1
2,4-Dinitrotoluene	< 1.01	2.02			ug/L	0.255	1.01	01/26/21 15:19	B1A0681	CP1	1
2,6-Dinitrotoluene	< 0.505	1.01			ug/L	0.232	0.505	01/26/21 15:19	B1A0681	CP1	1
2-Chloronaphthalene	< 0.303	0.606			ug/L	0.107	0.303	01/26/21 15:19	B1A0681	CP1	1
2-Chlorophenol	< 0.505	1.01			ug/L	0.155	0.505	01/26/21 15:19	B1A0681	CP1	1
2-Methylnaphthalene	< 2.02	4.04			ug/L	0.647	2.02	01/26/21 15:19	B1A0681	CP1	1
2-Methylphenol	< 0.505	1.01			ug/L	0.185	0.505	01/26/21 15:19	B1A0681	CP1	1
2-Nitroaniline	< 10.1	30.3			ug/L	2.59	10.1	01/26/21 15:19	B1A0681	CP1	1
2-Nitrophenol	< 0.505	1.01			ug/L	0.212	0.505	01/26/21 15:19	B1A0681	CP1	1
3,3'-Dichlorobenzidine	< 10.1	20.2			ug/L	3.20	10.1	01/26/21 15:19	B1A0681	CP1	1
3 & 4-Methylphenol	< 0.505	1.01			ug/L	0.181	0.505	01/26/21 15:19	B1A0681	CP1	1
3-Nitroaniline	< 1.01	2.02			ug/L	0.364	1.01	01/26/21 15:19	B1A0681	CP1	1
4,6-Dinitro-2-methylphenol	< 5.05	15.2			ug/L	2.48	5.05	01/26/21 15:19	B1A0681	CP1	1
4-Bromophenyl-phenylether	< 0.505	1.01			ug/L	0.162	0.505	01/26/21 15:19	B1A0681	CP1	1
4-Chloro-3-methylphenol	< 0.202	0.505			ug/L	0.0721	0.202	01/26/21 15:19	B1A0681	CP1	1
4-Chloroaniline	< 0.303	0.606			ug/L	0.108	0.303	01/26/21 15:19	B1A0681	CP1	1
4-Chlorophenyl-phenylether	< 0.505	1.01			ug/L	0.147	0.505	01/26/21 15:19	B1A0681	CP1	1
4-Nitroaniline	< 10.1	30.3			ug/L	3.81	10.1	01/26/21 15:19	B1A0681	CP1	1
4-Nitrophenol	< 5.05	15.2			ug/L	1.45	5.05	01/26/21 15:19	B1A0681	CP1	1
Acenaphthene	< 0.303	0.606			ug/L	0.105	0.303	01/26/21 15:19	B1A0681	CP1	1
Acenaphthylene	< 0.303	0.606			ug/L	0.131	0.303	01/26/21 15:19	B1A0681	CP1	1
Anthracene	< 0.303	0.606			ug/L	0.113	0.303	01/26/21 15:19	B1A0681	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.303	1.01			ug/L	0.0775	0.303	01/26/21 15:19	B1A0681	CP1	1
Benzidine	< 40.4	80.8			ug/L	16.7	40.4	01/26/21 15:19	B1A0681	CP1	1
Benzo(a)anthracene	< 0.303	0.606			ug/L	0.125	0.303	01/26/21 15:19	B1A0681	CP1	1
Benzo(a)pyrene	< 1.01	2.02			ug/L	0.380	1.01	01/26/21 15:19	B1A0681	CP1	1
Benzo(b)fluoranthene	< 1.01	2.02			ug/L	0.376	1.01	01/26/21 15:19	B1A0681	CP1	1
Benzo(g,h,i)perylene	< 1.01	2.02			ug/L	0.404	1.01	01/26/21 15:19	B1A0681	CP1	1
Benzo(k)fluoranthene	< 0.505	2.02			ug/L	0.251	0.505	01/26/21 15:19	B1A0681	CP1	1
Benzoic acid	< 24.3	40.4			ug/L	11.9	24.3	01/26/21 15:19	B1A0681	CP1	1
Benzyl alcohol	< 2.02	4.04			ug/L	0.556	2.02	01/26/21 15:19	B1A0681	CP1	1
Bis(2-chloroethoxy)methane	< 0.505	1.01			ug/L	0.137	0.505	01/26/21 15:19	B1A0681	CP1	1
Bis(2-chloroethyl)ether	< 0.505	1.01			ug/L	0.178	0.505	01/26/21 15:19	B1A0681	CP1	1
Bis(2-chloroisopropyl)ether	< 0.505	1.01			ug/L	0.130	0.505	01/26/21 15:19	B1A0681	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.1	20.2			ug/L	3.67	10.1	01/26/21 15:19	B1A0681	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-6 DUP
Report Date: 02/10/2021
Collection Date: 01/20/2021 11:30
Matrix: Groundwater
Lab ID: 21A0717-13 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS (Continued)										
Method: SW8270D / SW3510 (Continued)										
Butyl benzyl phthalate	< 0.505	1.01		ug/L	0.236	0.505	01/26/21 15:19	B1A0681	CP1	1
Carbazole	< 0.505	1.01		ug/L	0.175	0.505	01/26/21 15:19	B1A0681	CP1	1
Chrysene	< 0.303	0.606		ug/L	0.128	0.303	01/26/21 15:19	B1A0681	CP1	1
Dibenzo(a,h)anthracene	< 1.01	2.02		ug/L	0.446	1.01	01/26/21 15:19	B1A0681	CP1	1
Dibenzofuran	< 0.303	0.606		ug/L	0.124	0.303	01/26/21 15:19	B1A0681	CP1	1
Diethyl phthalate	< 3.03	6.06		ug/L	1.18	3.03	01/26/21 15:19	B1A0681	CP1	1
Dimethyl phthalate	< 0.303	0.606		ug/L	0.0892	0.303	01/26/21 15:19	B1A0681	CP1	1
Di-n-butyl phthalate	< 6.06	10.1		ug/L	2.91	6.06	01/26/21 15:19	B1A0681	CP1	1
Di-n-octyl phthalate	< 5.05	10.1		ug/L	1.91	5.05	01/26/21 15:19	B1A0681	CP1	1
Fluoranthene	< 0.505	1.01		ug/L	0.198	0.505	01/26/21 15:19	B1A0681	CP1	1
Fluorene	< 0.303	0.606		ug/L	0.125	0.303	01/26/21 15:19	B1A0681	CP1	1
Hexachlorobenzene	< 0.505	1.01		ug/L	0.167	0.505	01/26/21 15:19	B1A0681	CP1	1
Hexachlorobutadiene	< 0.505	1.01		ug/L	0.253	0.505	01/26/21 15:19	B1A0681	CP1	1
Hexachlorocyclopentadiene	< 5.05	15.2		ug/L	2.21	5.05	01/26/21 15:19	B1A0681	CP1	1
Hexachloroethane	< 0.505	1.01		ug/L	0.222	0.505	01/26/21 15:19	B1A0681	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.01	2.02		ug/L	0.508	1.01	01/26/21 15:19	B1A0681	CP1	1
Isophorone	< 0.303	0.606		ug/L	0.111	0.303	01/26/21 15:19	B1A0681	CP1	1
Naphthalene	< 2.02	4.04		ug/L	0.825	2.02	01/26/21 15:19	B1A0681	CP1	1
Nitrobenzene	< 0.303	0.606		ug/L	0.141	0.303	01/26/21 15:19	B1A0681	CP1	1
N-Nitrosodimethylamine	< 0.505	1.01		ug/L	0.157	0.505	01/26/21 15:19	B1A0681	CP1	1
N-Nitrosodi-n-propylamine	< 1.01	2.02		ug/L	0.322	1.01	01/26/21 15:19	B1A0681	CP1	1
N-Nitrosodiphenylamine	< 0.303	0.606		ug/L	0.105	0.303	01/26/21 15:19	B1A0681	CP1	1
Pentachlorophenol	< 10.1	30.3		ug/L	2.55	10.1	01/26/21 15:19	B1A0681	CP1	1
Phenanthrene	< 0.505	1.01		ug/L	0.208	0.505	01/26/21 15:19	B1A0681	CP1	1
Phenol	< 0.505	1.01		ug/L	0.172	0.505	01/26/21 15:19	B1A0681	CP1	1
Pyrene	< 0.505	1.01		ug/L	0.210	0.505	01/26/21 15:19	B1A0681	CP1	1
Surrogate: 2-Fluorophenol				Recovery: 27%	Limits: 10-88		01/26/21 15:19	B1A0681	CP1	1
Surrogate: Phenol-d5				Recovery: 22%	Limits: 10-65		01/26/21 15:19	B1A0681	CP1	1
Surrogate: Nitrobenzene-d5				Recovery: 56%	Limits: 25-128		01/26/21 15:19	B1A0681	CP1	1
Surrogate: 2-Fluorobiphenyl				Recovery: 47%	Limits: 24-114		01/26/21 15:19	B1A0681	CP1	1
Surrogate: 2,4,6-Tribromophenol				Recovery: 50%	Limits: 15-119		01/26/21 15:19	B1A0681	CP1	1
Surrogate: 4-Terphenyl-d14				Recovery: 72%	Limits: 29-129		01/26/21 15:19	B1A0681	CP1	1

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	23.4	2.50		ug/L	0.312	1.00	01/29/21 17:33	B1B0005	CP1	5
Surrogate: Toluene-d8				Recovery: 104%	Limits: 80-120		01/25/21 18:09	B1A0755	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants**Project:** Milw Die Cast**Work Order:** 21A0717**Client Sample ID:** MW-6 DUP Filtered**Report Date:** 02/10/2021**Collection Date:** 01/20/2021 11:30**Matrix:** Groundwater**Lab ID:** 21A0717-14

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Limit									
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.521	1.04			ug/L	0.221	0.521	01/27/21 15:43	B1A0753	CS2	1	
Aroclor 1221	< 0.521	0.626			ug/L	0.200	0.521	01/27/21 15:43	B1A0753	CS2	1	
Aroclor 1232	< 0.521	0.626			ug/L	0.169	0.521	01/27/21 15:43	B1A0753	CS2	1	
Aroclor 1242	< 1.04	2.09			ug/L	0.365	1.04	01/27/21 15:43	B1A0753	CS2	1	
Aroclor 1248	< 0.521	0.626			ug/L	0.167	0.521	01/27/21 15:43	B1A0753	CS2	1	
Aroclor 1254	< 0.521	0.626			ug/L	0.183	0.521	01/27/21 15:43	B1A0753	CS2	1	
Aroclor 1260	< 0.313	0.417			ug/L	0.117	0.313	01/27/21 15:43	B1A0753	CS2	1	
Total PCB	< 0.521	0.626			ug/L	0.200	0.521	01/27/21 15:43	B1A0753	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 87%		Limits: 10-139		01/27/21 15:43	B1A0753	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 67%		Limits: 26-107		01/27/21 15:43	B1A0753	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-7
Report Date: 02/10/2021
Collection Date: 01/19/2021 09:20
Matrix: Groundwater
Lab ID: 21A0717-15

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	2.29	1.00		mg/L	0.400	0.800	01/26/21 02:11	B1A0740	TB2	1
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3510										
Aroclor 1016	< 0.514	1.03		ug/L	0.218	0.514	01/27/21 12:41	B1A0750	CS2	1
Aroclor 1221	< 0.514	0.617		ug/L	0.197	0.514	01/27/21 12:41	B1A0750	CS2	1
Aroclor 1232	< 0.514	0.617		ug/L	0.167	0.514	01/27/21 12:41	B1A0750	CS2	1
Aroclor 1242	< 1.03	2.06		ug/L	0.360	1.03	01/27/21 12:41	B1A0750	CS2	1
Aroclor 1248	< 0.514	0.617		ug/L	0.164	0.514	01/27/21 12:41	B1A0750	CS2	1
Aroclor 1254	< 0.514	0.617		ug/L	0.181	0.514	01/27/21 12:41	B1A0750	CS2	1
Aroclor 1260	< 0.308	0.411		ug/L	0.115	0.308	01/27/21 12:41	B1A0750	CS2	1
Total PCB	< 0.514	0.617		ug/L	0.197	0.514	01/27/21 12:41	B1A0750	CS2	1
Surrogate: Decachlorobiphenyl				Recovery: 91%	Limits: 10-139		01/27/21 12:41	B1A0750	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				Recovery: 54%	Limits: 26-107		01/27/21 12:41	B1A0750	CS2	1
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.706	2.00	01/26/21 16:22	B1A0778	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00		ug/L	0.719	2.00	01/26/21 16:22	B1A0778	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.713	2.00	01/26/21 16:22	B1A0778	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00		ug/L	0.198	0.600	01/26/21 16:22	B1A0778	WZZ	1
1,1-Dichloroethane	< 2.00	4.00		ug/L	0.691	2.00	01/26/21 16:22	B1A0778	WZZ	1
1,1-Dichloroethene	< 4.00	8.00		ug/L	1.10	4.00	01/26/21 16:22	B1A0778	WZZ	1
1,1-Dichloropropene	< 1.00	2.00		ug/L	0.462	1.00	01/26/21 16:22	B1A0778	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00		ug/L	0.199	0.600	01/26/21 16:22	B1A0778	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00		ug/L	0.598	2.00	01/26/21 16:22	B1A0778	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00		ug/L	0.753	2.00	01/26/21 16:22	B1A0778	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00		ug/L	1.22	4.00	01/26/21 16:22	B1A0778	WZZ	1
1,2-Dibromoethane	< 1.00	2.00		ug/L	0.420	1.00	01/26/21 16:22	B1A0778	WZZ	1
1,2-Dichloroethane	< 2.00	4.00		ug/L	0.731	2.00	01/26/21 16:22	B1A0778	WZZ	1
1,2-Dichloropropane	< 2.00	4.00		ug/L	0.557	2.00	01/26/21 16:22	B1A0778	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00		ug/L	0.351	1.00	01/26/21 16:22	B1A0778	WZZ	1
1,3-Dichloropropane	< 1.00	2.00		ug/L	0.345	1.00	01/26/21 16:22	B1A0778	WZZ	1
2,2-Dichloropropane	< 4.00	8.00		ug/L	1.03	4.00	01/26/21 16:22	B1A0778	WZZ	1
2-Butanone	< 14.0	28.0		ug/L	4.79	14.0	01/26/21 16:22	B1A0778	WZZ	1
2-Chlorotoluene	< 1.00	2.00		ug/L	0.384	1.00	01/26/21 16:22	B1A0778	WZZ	1
2-Hexanone	< 14.0	28.0		ug/L	4.74	14.0	01/26/21 16:22	B1A0778	WZZ	1
4-Isopropyltoluene	< 2.00	4.00		ug/L	0.930	2.00	01/26/21 16:22	B1A0778	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0		ug/L	4.40	14.0	01/26/21 16:22	B1A0778	WZZ	1
Acetone	< 28.0	70.0		ug/L	9.21	28.0	01/26/21 16:22	B1A0778	WZZ	1
Benzene	< 1.00	2.00		ug/L	0.362	1.00	01/26/21 16:22	B1A0778	WZZ	1
Bromobenzene	< 1.00	2.00		ug/L	0.354	1.00	01/26/21 16:22	B1A0778	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-7
Report Date: 02/10/2021
Collection Date: 01/19/2021 09:20
Matrix: Groundwater
Lab ID: 21A0717-15 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	01/26/21 16:22	B1A0778	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	01/26/21 16:22	B1A0778	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	01/26/21 16:22	B1A0778	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	01/26/21 16:22	B1A0778	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	01/26/21 16:22	B1A0778	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	01/26/21 16:22	B1A0778	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	01/26/21 16:22	B1A0778	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	01/26/21 16:22	B1A0778	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	01/26/21 16:22	B1A0778	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	01/26/21 16:22	B1A0778	WZZ	1
cis-1,2-Dichloroethene	222	8.00		ug/L	1.30	4.00	01/28/21 16:32	B1A0926	WZZ	2
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	01/26/21 16:22	B1A0778	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	01/26/21 16:22	B1A0778	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	01/26/21 16:22	B1A0778	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	01/26/21 16:22	B1A0778	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	01/26/21 16:22	B1A0778	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	01/26/21 16:22	B1A0778	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	01/26/21 16:22	B1A0778	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	01/26/21 16:22	B1A0778	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	01/26/21 16:22	B1A0778	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	01/26/21 16:22	B1A0778	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	01/26/21 16:22	B1A0778	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	01/26/21 16:22	B1A0778	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	01/26/21 16:22	B1A0778	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	01/26/21 16:22	B1A0778	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 16:22	B1A0778	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	01/26/21 16:22	B1A0778	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	01/26/21 16:22	B1A0778	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	01/26/21 16:22	B1A0778	WZZ	1
trans-1,2-Dichloroethene	10.4	4.00		ug/L	0.566	2.00	01/26/21 16:22	B1A0778	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 16:22	B1A0778	WZZ	1
Trichloroethene	7.12	4.00		ug/L	0.939	2.00	01/26/21 16:22	B1A0778	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	01/26/21 16:22	B1A0778	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	01/26/21 16:22	B1A0778	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	01/26/21 16:22	B1A0778	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 104%</i>	<i>Limits: 84-137</i>		<i>01/26/21 16:22</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 103%</i>	<i>Limits: 74-140</i>		<i>01/26/21 16:22</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 100%</i>	<i>Limits: 90-105</i>		<i>01/26/21 16:22</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 99%</i>	<i>Limits: 74-109</i>		<i>01/26/21 16:22</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 103%</i>	<i>Limits: 86-128</i>		<i>01/26/21 16:22</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 104%</i>	<i>Limits: 90-128</i>		<i>01/26/21 16:22</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants**Project:** Milw Die Cast**Work Order:** 21A0717**Client Sample ID:** MW-7**Report Date:** 02/10/2021**Collection Date:** 01/19/2021 09:20**Matrix:** Groundwater**Lab ID:** 21A0717-15 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Semivolatile Organic Compounds by GC/MS											
Method: SW8270D / SW3510											
1,2,4-Trichlorobenzene	< 1.02	2.04			ug/L	0.285	1.02	01/26/21 12:54	B1A0681	CP1	1
1,2-Dichlorobenzene	< 1.02	2.04			ug/L	0.306	1.02	01/26/21 12:54	B1A0681	CP1	1
1,3-Dichlorobenzene	< 1.02	2.04			ug/L	0.316	1.02	01/26/21 12:54	B1A0681	CP1	1
1,4-Dichlorobenzene	< 1.02	2.04			ug/L	0.285	1.02	01/26/21 12:54	B1A0681	CP1	1
2,4,5-Trichlorophenol	< 0.510	1.02			ug/L	0.132	0.510	01/26/21 12:54	B1A0681	CP1	1
2,4,6-Trichlorophenol	< 0.510	1.02			ug/L	0.248	0.510	01/26/21 12:54	B1A0681	CP1	1
2,4-Dichlorophenol	< 0.510	1.02			ug/L	0.0803	0.510	01/26/21 12:54	B1A0681	CP1	1
2,4-Dimethylphenol	< 1.02	2.04			ug/L	0.120	1.02	01/26/21 12:54	B1A0681	CP1	1
2,4-Dinitrophenol	< 10.2	30.6			ug/L	3.37	10.2	01/26/21 12:54	B1A0681	CP1	1
2,4-Dinitrotoluene	< 1.02	2.04			ug/L	0.257	1.02	01/26/21 12:54	B1A0681	CP1	1
2,6-Dinitrotoluene	< 0.510	1.02			ug/L	0.234	0.510	01/26/21 12:54	B1A0681	CP1	1
2-Chloronaphthalene	< 0.306	0.612			ug/L	0.108	0.306	01/26/21 12:54	B1A0681	CP1	1
2-Chlorophenol	< 0.510	1.02			ug/L	0.156	0.510	01/26/21 12:54	B1A0681	CP1	1
2-Methylnaphthalene	< 2.04	4.08			ug/L	0.652	2.04	01/26/21 12:54	B1A0681	CP1	1
2-Methylphenol	< 0.510	1.02			ug/L	0.186	0.510	01/26/21 12:54	B1A0681	CP1	1
2-Nitroaniline	< 10.2	30.6			ug/L	2.61	10.2	01/26/21 12:54	B1A0681	CP1	1
2-Nitrophenol	< 0.510	1.02			ug/L	0.213	0.510	01/26/21 12:54	B1A0681	CP1	1
3,3'-Dichlorobenzidine	< 10.2	20.4			ug/L	3.22	10.2	01/26/21 12:54	B1A0681	CP1	1
3 & 4-Methylphenol	< 0.510	1.02			ug/L	0.183	0.510	01/26/21 12:54	B1A0681	CP1	1
3-Nitroaniline	< 1.02	2.04			ug/L	0.367	1.02	01/26/21 12:54	B1A0681	CP1	1
4,6-Dinitro-2-methylphenol	< 5.10	15.3			ug/L	2.50	5.10	01/26/21 12:54	B1A0681	CP1	1
4-Bromophenyl-phenylether	< 0.510	1.02			ug/L	0.163	0.510	01/26/21 12:54	B1A0681	CP1	1
4-Chloro-3-methylphenol	< 0.204	0.510			ug/L	0.0727	0.204	01/26/21 12:54	B1A0681	CP1	1
4-Chloroaniline	< 0.306	0.612			ug/L	0.109	0.306	01/26/21 12:54	B1A0681	CP1	1
4-Chlorophenyl-phenylether	< 0.510	1.02			ug/L	0.149	0.510	01/26/21 12:54	B1A0681	CP1	1
4-Nitroaniline	< 10.2	30.6			ug/L	3.85	10.2	01/26/21 12:54	B1A0681	CP1	1
4-Nitrophenol	< 5.10	15.3			ug/L	1.47	5.10	01/26/21 12:54	B1A0681	CP1	1
Acenaphthene	< 0.306	0.612			ug/L	0.106	0.306	01/26/21 12:54	B1A0681	CP1	1
Acenaphthylene	< 0.306	0.612			ug/L	0.133	0.306	01/26/21 12:54	B1A0681	CP1	1
Anthracene	< 0.306	0.612			ug/L	0.114	0.306	01/26/21 12:54	B1A0681	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.306	1.02			ug/L	0.0782	0.306	01/26/21 12:54	B1A0681	CP1	1
Benzidine	< 40.8	81.6			ug/L	16.9	40.8	01/26/21 12:54	B1A0681	CP1	1
Benzo(a)anthracene	< 0.306	0.612			ug/L	0.126	0.306	01/26/21 12:54	B1A0681	CP1	1
Benzo(a)pyrene	< 1.02	2.04			ug/L	0.383	1.02	01/26/21 12:54	B1A0681	CP1	1
Benzo(b)fluoranthene	< 1.02	2.04			ug/L	0.380	1.02	01/26/21 12:54	B1A0681	CP1	1
Benzo(g,h,i)perylene	< 1.02	2.04			ug/L	0.407	1.02	01/26/21 12:54	B1A0681	CP1	1
Benzo(k)fluoranthene	< 0.510	2.04			ug/L	0.254	0.510	01/26/21 12:54	B1A0681	CP1	1
Benzoic acid	< 24.5	40.8			ug/L	12.0	24.5	01/26/21 12:54	B1A0681	CP1	1
Benzyl alcohol	< 2.04	4.08			ug/L	0.561	2.04	01/26/21 12:54	B1A0681	CP1	1
Bis(2-chloroethoxy)methane	< 0.510	1.02			ug/L	0.138	0.510	01/26/21 12:54	B1A0681	CP1	1
Bis(2-chloroethyl)ether	< 0.510	1.02			ug/L	0.179	0.510	01/26/21 12:54	B1A0681	CP1	1
Bis(2-chloroisopropyl)ether	< 0.510	1.02			ug/L	0.131	0.510	01/26/21 12:54	B1A0681	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.2	20.4			ug/L	3.70	10.2	01/26/21 12:54	B1A0681	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-7
Report Date: 02/10/2021
Collection Date: 01/19/2021 09:20
Matrix: Groundwater
Lab ID: 21A0717-15 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS (Continued)										
Method: SW8270D / SW3510 (Continued)										
Butyl benzyl phthalate	< 0.510	1.02		ug/L	0.239	0.510	01/26/21 12:54	B1A0681	CP1	1
Carbazole	< 0.510	1.02		ug/L	0.176	0.510	01/26/21 12:54	B1A0681	CP1	1
Chrysene	< 0.306	0.612		ug/L	0.129	0.306	01/26/21 12:54	B1A0681	CP1	1
Dibenzo(a,h)anthracene	< 1.02	2.04		ug/L	0.450	1.02	01/26/21 12:54	B1A0681	CP1	1
Dibenzofuran	< 0.306	0.612		ug/L	0.125	0.306	01/26/21 12:54	B1A0681	CP1	1
Diethyl phthalate	< 3.06	6.12		ug/L	1.19	3.06	01/26/21 12:54	B1A0681	CP1	1
Dimethyl phthalate	< 0.306	0.612		ug/L	0.0900	0.306	01/26/21 12:54	B1A0681	CP1	1
Di-n-butyl phthalate	< 6.12	10.2		ug/L	2.94	6.12	01/26/21 12:54	B1A0681	CP1	1
Di-n-octyl phthalate	< 5.10	10.2		ug/L	1.93	5.10	01/26/21 12:54	B1A0681	CP1	1
Fluoranthene	< 0.510	1.02		ug/L	0.200	0.510	01/26/21 12:54	B1A0681	CP1	1
Fluorene	< 0.306	0.612		ug/L	0.126	0.306	01/26/21 12:54	B1A0681	CP1	1
Hexachlorobenzene	< 0.510	1.02		ug/L	0.168	0.510	01/26/21 12:54	B1A0681	CP1	1
Hexachlorobutadiene	< 0.510	1.02		ug/L	0.255	0.510	01/26/21 12:54	B1A0681	CP1	1
Hexachlorocyclopentadiene	< 5.10	15.3		ug/L	2.23	5.10	01/26/21 12:54	B1A0681	CP1	1
Hexachloroethane	< 0.510	1.02		ug/L	0.224	0.510	01/26/21 12:54	B1A0681	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.02	2.04		ug/L	0.512	1.02	01/26/21 12:54	B1A0681	CP1	1
Isophorone	< 0.306	0.612		ug/L	0.112	0.306	01/26/21 12:54	B1A0681	CP1	1
Naphthalene	< 2.04	4.08		ug/L	0.832	2.04	01/26/21 12:54	B1A0681	CP1	1
Nitrobenzene	< 0.306	0.612		ug/L	0.142	0.306	01/26/21 12:54	B1A0681	CP1	1
N-Nitrosodimethylamine	< 0.510	1.02		ug/L	0.159	0.510	01/26/21 12:54	B1A0681	CP1	1
N-Nitrosodi-n-propylamine	< 1.02	2.04		ug/L	0.325	1.02	01/26/21 12:54	B1A0681	CP1	1
N-Nitrosodiphenylamine	< 0.306	0.612		ug/L	0.106	0.306	01/26/21 12:54	B1A0681	CP1	1
Pentachlorophenol	< 10.2	30.6		ug/L	2.57	10.2	01/26/21 12:54	B1A0681	CP1	1
Phenanthrene	< 0.510	1.02		ug/L	0.210	0.510	01/26/21 12:54	B1A0681	CP1	1
Phenol	< 0.510	1.02		ug/L	0.174	0.510	01/26/21 12:54	B1A0681	CP1	1
Pyrene	< 0.510	1.02		ug/L	0.212	0.510	01/26/21 12:54	B1A0681	CP1	1
Surrogate: 2-Fluorophenol				Recovery: 33%	Limits: 10-88		01/26/21 12:54	B1A0681	CP1	1
Surrogate: Phenol-d5				Recovery: 26%	Limits: 10-65		01/26/21 12:54	B1A0681	CP1	1
Surrogate: Nitrobenzene-d5				Recovery: 67%	Limits: 25-128		01/26/21 12:54	B1A0681	CP1	1
Surrogate: 2-Fluorobiphenyl				Recovery: 58%	Limits: 24-114		01/26/21 12:54	B1A0681	CP1	1
Surrogate: 2,4,6-Tribromophenol				Recovery: 60%	Limits: 15-119		01/26/21 12:54	B1A0681	CP1	1
Surrogate: 4-Terphenyl-d14				Recovery: 81%	Limits: 29-129		01/26/21 12:54	B1A0681	CP1	1

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500		ug/L	0.0625	0.200	01/25/21 18:33	B1A0755	CP1	1
Surrogate: Toluene-d8				S	Recovery: 170%	Limits: 80-120	01/25/21 18:33	B1A0755	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants**Project:** Milw Die Cast**Work Order:** 21A0717**Client Sample ID:** MW-7 Filtered**Report Date:** 02/10/2021**Collection Date:** 01/19/2021 09:20**Matrix:** Groundwater**Lab ID:** 21A0717-16

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Limit									
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.523	1.05			ug/L	0.222	0.523	01/27/21 12:58	B1A0750	CS2	1	
Aroclor 1221	< 0.523	0.628			ug/L	0.200	0.523	01/27/21 12:58	B1A0750	CS2	1	
Aroclor 1232	< 0.523	0.628			ug/L	0.170	0.523	01/27/21 12:58	B1A0750	CS2	1	
Aroclor 1242	< 1.05	2.09			ug/L	0.367	1.05	01/27/21 12:58	B1A0750	CS2	1	
Aroclor 1248	< 0.523	0.628			ug/L	0.167	0.523	01/27/21 12:58	B1A0750	CS2	1	
Aroclor 1254	< 0.523	0.628			ug/L	0.184	0.523	01/27/21 12:58	B1A0750	CS2	1	
Aroclor 1260	< 0.314	0.419			ug/L	0.117	0.314	01/27/21 12:58	B1A0750	CS2	1	
Total PCB	< 0.523	0.628			ug/L	0.200	0.523	01/27/21 12:58	B1A0750	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 89%		Limits: 10-139		01/27/21 12:58	B1A0750	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 61%		Limits: 26-107		01/27/21 12:58	B1A0750	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-8
Report Date: 02/10/2021
Collection Date: 01/19/2021 12:05
Matrix: Groundwater
Lab ID: 21A0717-17

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	2.74	1.00		mg/L	0.400	0.800	01/26/21 02:32	B1A0740	TB2	1
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3510										
Aroclor 1016	< 0.509	1.02		ug/L	0.216	0.509	01/27/21 13:15	B1A0750	CS2	1
Aroclor 1221	< 0.509	0.610		ug/L	0.195	0.509	01/27/21 13:15	B1A0750	CS2	1
Aroclor 1232	< 0.509	0.610		ug/L	0.165	0.509	01/27/21 13:15	B1A0750	CS2	1
Aroclor 1242	< 1.02	2.03		ug/L	0.356	1.02	01/27/21 13:15	B1A0750	CS2	1
Aroclor 1248	< 0.509	0.610		ug/L	0.163	0.509	01/27/21 13:15	B1A0750	CS2	1
Aroclor 1254	< 0.509	0.610		ug/L	0.179	0.509	01/27/21 13:15	B1A0750	CS2	1
Aroclor 1260	< 0.305	0.407		ug/L	0.114	0.305	01/27/21 13:15	B1A0750	CS2	1
Total PCB	< 0.509	0.610		ug/L	0.195	0.509	01/27/21 13:15	B1A0750	CS2	1
Surrogate: Decachlorobiphenyl				Recovery: 88%	Limits: 10-139		01/27/21 13:15	B1A0750	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				Recovery: 62%	Limits: 26-107		01/27/21 13:15	B1A0750	CS2	1
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.706	2.00	01/26/21 16:47	B1A0778	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00		ug/L	0.719	2.00	01/26/21 16:47	B1A0778	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.713	2.00	01/26/21 16:47	B1A0778	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00		ug/L	0.198	0.600	01/26/21 16:47	B1A0778	WZZ	1
1,1-Dichloroethane	< 2.00	4.00		ug/L	0.691	2.00	01/26/21 16:47	B1A0778	WZZ	1
1,1-Dichloroethene	< 4.00	8.00		ug/L	1.10	4.00	01/26/21 16:47	B1A0778	WZZ	1
1,1-Dichloropropene	< 1.00	2.00		ug/L	0.462	1.00	01/26/21 16:47	B1A0778	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00		ug/L	0.199	0.600	01/26/21 16:47	B1A0778	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00		ug/L	0.598	2.00	01/26/21 16:47	B1A0778	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00		ug/L	0.753	2.00	01/26/21 16:47	B1A0778	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00		ug/L	1.22	4.00	01/26/21 16:47	B1A0778	WZZ	1
1,2-Dibromoethane	< 1.00	2.00		ug/L	0.420	1.00	01/26/21 16:47	B1A0778	WZZ	1
1,2-Dichloroethane	< 2.00	4.00		ug/L	0.731	2.00	01/26/21 16:47	B1A0778	WZZ	1
1,2-Dichloropropane	< 2.00	4.00		ug/L	0.557	2.00	01/26/21 16:47	B1A0778	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00		ug/L	0.351	1.00	01/26/21 16:47	B1A0778	WZZ	1
1,3-Dichloropropane	< 1.00	2.00		ug/L	0.345	1.00	01/26/21 16:47	B1A0778	WZZ	1
2,2-Dichloropropane	< 4.00	8.00		ug/L	1.03	4.00	01/26/21 16:47	B1A0778	WZZ	1
2-Butanone	< 14.0	28.0		ug/L	4.79	14.0	01/26/21 16:47	B1A0778	WZZ	1
2-Chlorotoluene	< 1.00	2.00		ug/L	0.384	1.00	01/26/21 16:47	B1A0778	WZZ	1
2-Hexanone	< 14.0	28.0		ug/L	4.74	14.0	01/26/21 16:47	B1A0778	WZZ	1
4-Isopropyltoluene	< 2.00	4.00		ug/L	0.930	2.00	01/26/21 16:47	B1A0778	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0		ug/L	4.40	14.0	01/26/21 16:47	B1A0778	WZZ	1
Acetone	< 28.0	70.0		ug/L	9.21	28.0	01/26/21 16:47	B1A0778	WZZ	1
Benzene	< 1.00	2.00		ug/L	0.362	1.00	01/26/21 16:47	B1A0778	WZZ	1
Bromobenzene	< 1.00	2.00		ug/L	0.354	1.00	01/26/21 16:47	B1A0778	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-8
Report Date: 02/10/2021
Collection Date: 01/19/2021 12:05
Matrix: Groundwater
Lab ID: 21A0717-17 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	01/26/21 16:47	B1A0778	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	01/26/21 16:47	B1A0778	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	01/26/21 16:47	B1A0778	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	01/26/21 16:47	B1A0778	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	01/26/21 16:47	B1A0778	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	01/26/21 16:47	B1A0778	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	01/26/21 16:47	B1A0778	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	01/26/21 16:47	B1A0778	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	01/26/21 16:47	B1A0778	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	01/26/21 16:47	B1A0778	WZZ	1
cis-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.652	2.00	01/26/21 16:47	B1A0778	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	01/26/21 16:47	B1A0778	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	01/26/21 16:47	B1A0778	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	01/26/21 16:47	B1A0778	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	01/26/21 16:47	B1A0778	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	01/26/21 16:47	B1A0778	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	01/26/21 16:47	B1A0778	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	01/26/21 16:47	B1A0778	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	01/26/21 16:47	B1A0778	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	01/26/21 16:47	B1A0778	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	01/26/21 16:47	B1A0778	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	01/26/21 16:47	B1A0778	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	01/26/21 16:47	B1A0778	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	01/26/21 16:47	B1A0778	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	01/26/21 16:47	B1A0778	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 16:47	B1A0778	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	01/26/21 16:47	B1A0778	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	01/26/21 16:47	B1A0778	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	01/26/21 16:47	B1A0778	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	01/26/21 16:47	B1A0778	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 16:47	B1A0778	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	01/26/21 16:47	B1A0778	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	01/26/21 16:47	B1A0778	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	01/26/21 16:47	B1A0778	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	01/26/21 16:47	B1A0778	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 108%</i>	<i>Limits: 84-137</i>		<i>01/26/21 16:47</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 106%</i>	<i>Limits: 74-140</i>		<i>01/26/21 16:47</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 100%</i>	<i>Limits: 90-105</i>		<i>01/26/21 16:47</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 97%</i>	<i>Limits: 74-109</i>		<i>01/26/21 16:47</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 101%</i>	<i>Limits: 86-128</i>		<i>01/26/21 16:47</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 104%</i>	<i>Limits: 90-128</i>		<i>01/26/21 16:47</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-8
Report Date: 02/10/2021
Collection Date: 01/19/2021 12:05
Matrix: Groundwater
Lab ID: 21A0717-17 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time	Batch	Analyst	DF
		Limit						Analyzed			
Semivolatile Organic Compounds by GC/MS											
Method: SW8270D / SW3510											
1,2,4-Trichlorobenzene	< 1.04	2.07			ug/L	0.290	1.04	01/26/21 13:14	B1A0681	CP1	1
1,2-Dichlorobenzene	< 1.04	2.07			ug/L	0.311	1.04	01/26/21 13:14	B1A0681	CP1	1
1,3-Dichlorobenzene	< 1.04	2.07			ug/L	0.321	1.04	01/26/21 13:14	B1A0681	CP1	1
1,4-Dichlorobenzene	< 1.04	2.07			ug/L	0.290	1.04	01/26/21 13:14	B1A0681	CP1	1
2,4,5-Trichlorophenol	< 0.518	1.04			ug/L	0.134	0.518	01/26/21 13:14	B1A0681	CP1	1
2,4,6-Trichlorophenol	< 0.518	1.04			ug/L	0.253	0.518	01/26/21 13:14	B1A0681	CP1	1
2,4-Dichlorophenol	< 0.518	1.04			ug/L	0.0817	0.518	01/26/21 13:14	B1A0681	CP1	1
2,4-Dimethylphenol	< 1.04	2.07			ug/L	0.122	1.04	01/26/21 13:14	B1A0681	CP1	1
2,4-Dinitrophenol	< 10.4	31.1			ug/L	3.43	10.4	01/26/21 13:14	B1A0681	CP1	1
2,4-Dinitrotoluene	< 1.04	2.07			ug/L	0.261	1.04	01/26/21 13:14	B1A0681	CP1	1
2,6-Dinitrotoluene	< 0.518	1.04			ug/L	0.238	0.518	01/26/21 13:14	B1A0681	CP1	1
2-Chloronaphthalene	< 0.311	0.622			ug/L	0.110	0.311	01/26/21 13:14	B1A0681	CP1	1
2-Chlorophenol	< 0.518	1.04			ug/L	0.159	0.518	01/26/21 13:14	B1A0681	CP1	1
2-Methylnaphthalene	< 2.07	4.15			ug/L	0.663	2.07	01/26/21 13:14	B1A0681	CP1	1
2-Methylphenol	< 0.518	1.04			ug/L	0.190	0.518	01/26/21 13:14	B1A0681	CP1	1
2-Nitroaniline	< 10.4	31.1			ug/L	2.65	10.4	01/26/21 13:14	B1A0681	CP1	1
2-Nitrophenol	< 0.518	1.04			ug/L	0.217	0.518	01/26/21 13:14	B1A0681	CP1	1
3,3'-Dichlorobenzidine	< 10.4	20.7			ug/L	3.28	10.4	01/26/21 13:14	B1A0681	CP1	1
3 & 4-Methylphenol	< 0.518	1.04			ug/L	0.186	0.518	01/26/21 13:14	B1A0681	CP1	1
3-Nitroaniline	< 1.04	2.07			ug/L	0.373	1.04	01/26/21 13:14	B1A0681	CP1	1
4,6-Dinitro-2-methylphenol	< 5.18	15.5			ug/L	2.54	5.18	01/26/21 13:14	B1A0681	CP1	1
4-Bromophenyl-phenylether	< 0.518	1.04			ug/L	0.166	0.518	01/26/21 13:14	B1A0681	CP1	1
4-Chloro-3-methylphenol	< 0.207	0.518			ug/L	0.0739	0.207	01/26/21 13:14	B1A0681	CP1	1
4-Chloroaniline	< 0.311	0.622			ug/L	0.111	0.311	01/26/21 13:14	B1A0681	CP1	1
4-Chlorophenyl-phenylether	< 0.518	1.04			ug/L	0.151	0.518	01/26/21 13:14	B1A0681	CP1	1
4-Nitroaniline	< 10.4	31.1			ug/L	3.91	10.4	01/26/21 13:14	B1A0681	CP1	1
4-Nitrophenol	< 5.18	15.5			ug/L	1.49	5.18	01/26/21 13:14	B1A0681	CP1	1
Acenaphthene	< 0.311	0.622			ug/L	0.108	0.311	01/26/21 13:14	B1A0681	CP1	1
Acenaphthylene	< 0.311	0.622			ug/L	0.135	0.311	01/26/21 13:14	B1A0681	CP1	1
Anthracene	< 0.311	0.622			ug/L	0.116	0.311	01/26/21 13:14	B1A0681	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.311	1.04			ug/L	0.0795	0.311	01/26/21 13:14	B1A0681	CP1	1
Benzidine	< 41.5	82.9			ug/L	17.2	41.5	01/26/21 13:14	B1A0681	CP1	1
Benzo(a)anthracene	< 0.311	0.622			ug/L	0.128	0.311	01/26/21 13:14	B1A0681	CP1	1
Benzo(a)pyrene	< 1.04	2.07			ug/L	0.389	1.04	01/26/21 13:14	B1A0681	CP1	1
Benzo(b)fluoranthene	< 1.04	2.07			ug/L	0.386	1.04	01/26/21 13:14	B1A0681	CP1	1
Benzo(g,h,i)perylene	< 1.04	2.07			ug/L	0.414	1.04	01/26/21 13:14	B1A0681	CP1	1
Benzo(k)fluoranthene	< 0.518	2.07			ug/L	0.258	0.518	01/26/21 13:14	B1A0681	CP1	1
Benzoic acid	< 24.9	41.5			ug/L	12.2	24.9	01/26/21 13:14	B1A0681	CP1	1
Benzyl alcohol	< 2.07	4.15			ug/L	0.570	2.07	01/26/21 13:14	B1A0681	CP1	1
Bis(2-chloroethoxy)methane	< 0.518	1.04			ug/L	0.140	0.518	01/26/21 13:14	B1A0681	CP1	1
Bis(2-chloroethyl)ether	< 0.518	1.04			ug/L	0.182	0.518	01/26/21 13:14	B1A0681	CP1	1
Bis(2-chloroisopropyl)ether	< 0.518	1.04			ug/L	0.133	0.518	01/26/21 13:14	B1A0681	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.4	20.7			ug/L	3.76	10.4	01/26/21 13:14	B1A0681	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-8
Report Date: 02/10/2021
Collection Date: 01/19/2021 12:05
Matrix: Groundwater
Lab ID: 21A0717-17 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS (Continued)										
Method: SW8270D / SW3510 (Continued)										
Butyl benzyl phthalate	< 0.518	1.04		ug/L	0.243	0.518	01/26/21 13:14	B1A0681	CP1	1
Carbazole	< 0.518	1.04		ug/L	0.179	0.518	01/26/21 13:14	B1A0681	CP1	1
Chrysene	< 0.311	0.622		ug/L	0.131	0.311	01/26/21 13:14	B1A0681	CP1	1
Dibenzo(a,h)anthracene	< 1.04	2.07		ug/L	0.458	1.04	01/26/21 13:14	B1A0681	CP1	1
Dibenzofuran	< 0.311	0.622		ug/L	0.127	0.311	01/26/21 13:14	B1A0681	CP1	1
Diethyl phthalate	< 3.11	6.22		ug/L	1.21	3.11	01/26/21 13:14	B1A0681	CP1	1
Dimethyl phthalate	< 0.311	0.622		ug/L	0.0915	0.311	01/26/21 13:14	B1A0681	CP1	1
Di-n-butyl phthalate	< 6.22	10.4		ug/L	2.98	6.22	01/26/21 13:14	B1A0681	CP1	1
Di-n-octyl phthalate	< 5.18	10.4		ug/L	1.96	5.18	01/26/21 13:14	B1A0681	CP1	1
Fluoranthene	< 0.518	1.04		ug/L	0.204	0.518	01/26/21 13:14	B1A0681	CP1	1
Fluorene	< 0.311	0.622		ug/L	0.128	0.311	01/26/21 13:14	B1A0681	CP1	1
Hexachlorobenzene	< 0.518	1.04		ug/L	0.171	0.518	01/26/21 13:14	B1A0681	CP1	1
Hexachlorobutadiene	< 0.518	1.04		ug/L	0.259	0.518	01/26/21 13:14	B1A0681	CP1	1
Hexachlorocyclopentadiene	< 5.18	15.5		ug/L	2.27	5.18	01/26/21 13:14	B1A0681	CP1	1
Hexachloroethane	< 0.518	1.04		ug/L	0.228	0.518	01/26/21 13:14	B1A0681	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.04	2.07		ug/L	0.521	1.04	01/26/21 13:14	B1A0681	CP1	1
Isophorone	< 0.311	0.622		ug/L	0.114	0.311	01/26/21 13:14	B1A0681	CP1	1
Naphthalene	< 2.07	4.15		ug/L	0.846	2.07	01/26/21 13:14	B1A0681	CP1	1
Nitrobenzene	< 0.311	0.622		ug/L	0.145	0.311	01/26/21 13:14	B1A0681	CP1	1
N-Nitrosodimethylamine	< 0.518	1.04		ug/L	0.161	0.518	01/26/21 13:14	B1A0681	CP1	1
N-Nitrosodi-n-propylamine	< 1.04	2.07		ug/L	0.331	1.04	01/26/21 13:14	B1A0681	CP1	1
N-Nitrosodiphenylamine	< 0.311	0.622		ug/L	0.108	0.311	01/26/21 13:14	B1A0681	CP1	1
Pentachlorophenol	< 10.4	31.1		ug/L	2.61	10.4	01/26/21 13:14	B1A0681	CP1	1
Phenanthrene	< 0.518	1.04		ug/L	0.213	0.518	01/26/21 13:14	B1A0681	CP1	1
Phenol	< 0.518	1.04		ug/L	0.177	0.518	01/26/21 13:14	B1A0681	CP1	1
Pyrene	< 0.518	1.04		ug/L	0.216	0.518	01/26/21 13:14	B1A0681	CP1	1
Surrogate: 2-Fluorophenol				Recovery: 30%	Limits: 10-88		01/26/21 13:14	B1A0681	CP1	1
Surrogate: Phenol-d5				Recovery: 26%	Limits: 10-65		01/26/21 13:14	B1A0681	CP1	1
Surrogate: Nitrobenzene-d5				Recovery: 77%	Limits: 25-128		01/26/21 13:14	B1A0681	CP1	1
Surrogate: 2-Fluorobiphenyl				Recovery: 67%	Limits: 24-114		01/26/21 13:14	B1A0681	CP1	1
Surrogate: 2,4,6-Tribromophenol				Recovery: 59%	Limits: 15-119		01/26/21 13:14	B1A0681	CP1	1
Surrogate: 4-Terphenyl-d14				Recovery: 90%	Limits: 29-129		01/26/21 13:14	B1A0681	CP1	1

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500		ug/L	0.0625	0.200	01/25/21 18:58	B1A0755	CP1	1
Surrogate: Toluene-d8				Recovery: 107%	Limits: 80-120		01/25/21 18:58	B1A0755	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-8 Filtered
Report Date: 02/10/2021
Collection Date: 01/19/2021 12:05
Matrix: Groundwater
Lab ID: 21A0717-18

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Limit									
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.517	1.03			ug/L	0.220	0.517	01/27/21 13:32	B1A0750	CS2	1	
Aroclor 1221	< 0.517	0.621			ug/L	0.198	0.517	01/27/21 13:32	B1A0750	CS2	1	
Aroclor 1232	< 0.517	0.621			ug/L	0.168	0.517	01/27/21 13:32	B1A0750	CS2	1	
Aroclor 1242	< 1.03	2.07			ug/L	0.363	1.03	01/27/21 13:32	B1A0750	CS2	1	
Aroclor 1248	< 0.517	0.621			ug/L	0.165	0.517	01/27/21 13:32	B1A0750	CS2	1	
Aroclor 1254	< 0.517	0.621			ug/L	0.182	0.517	01/27/21 13:32	B1A0750	CS2	1	
Aroclor 1260	< 0.310	0.414			ug/L	0.116	0.310	01/27/21 13:32	B1A0750	CS2	1	
Total PCB	< 0.517	0.621			ug/L	0.198	0.517	01/27/21 13:32	B1A0750	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 91%		Limits: 10-139		01/27/21 13:32	B1A0750	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 66%		Limits: 26-107		01/27/21 13:32	B1A0750	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-9
Report Date: 02/10/2021
Collection Date: 01/19/2021 11:15
Matrix: Groundwater
Lab ID: 21A0717-19

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Wet Chemistry											
Method: SW9060											
Organic Carbon, Total	4.20	5.00	J		mg/L	2.00	4.00	02/02/21 16:56	B1B0049	GSB	5
Polychlorinated Biphenyls (PCBs) by GC/ECD											
Method: SW8082A / SW3510											
Aroclor 1016	< 0.524	1.05			ug/L	0.223	0.524	01/27/21 13:49	B1A0750	CS2	1
Aroclor 1221	< 0.524	0.629			ug/L	0.201	0.524	01/27/21 13:49	B1A0750	CS2	1
Aroclor 1232	< 0.524	0.629			ug/L	0.170	0.524	01/27/21 13:49	B1A0750	CS2	1
Aroclor 1242	< 1.05	2.10			ug/L	0.367	1.05	01/27/21 13:49	B1A0750	CS2	1
Aroclor 1248	< 0.524	0.629			ug/L	0.168	0.524	01/27/21 13:49	B1A0750	CS2	1
Aroclor 1254	< 0.524	0.629			ug/L	0.184	0.524	01/27/21 13:49	B1A0750	CS2	1
Aroclor 1260	< 0.315	0.419			ug/L	0.118	0.315	01/27/21 13:49	B1A0750	CS2	1
Total PCB	< 0.524	0.629			ug/L	0.201	0.524	01/27/21 13:49	B1A0750	CS2	1
Surrogate: Decachlorobiphenyl					Recovery: 98%	Limits: 10-139		01/27/21 13:49	B1A0750	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene					Recovery: 57%	Limits: 26-107		01/27/21 13:49	B1A0750	CS2	1
Volatile Organic Compounds by GC/MS											
Method: SW8260B / SW5030											
1,1,1,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.706	2.00	01/26/21 17:13	B1A0778	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00			ug/L	0.719	2.00	01/26/21 17:13	B1A0778	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00			ug/L	0.713	2.00	01/26/21 17:13	B1A0778	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00			ug/L	0.198	0.600	01/26/21 17:13	B1A0778	WZZ	1
1,1-Dichloroethane	< 2.00	4.00			ug/L	0.691	2.00	01/26/21 17:13	B1A0778	WZZ	1
1,1-Dichloroethene	< 4.00	8.00			ug/L	1.10	4.00	01/26/21 17:13	B1A0778	WZZ	1
1,1-Dichloropropene	< 1.00	2.00			ug/L	0.462	1.00	01/26/21 17:13	B1A0778	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00			ug/L	0.199	0.600	01/26/21 17:13	B1A0778	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00			ug/L	0.598	2.00	01/26/21 17:13	B1A0778	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00			ug/L	0.753	2.00	01/26/21 17:13	B1A0778	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00			ug/L	1.22	4.00	01/26/21 17:13	B1A0778	WZZ	1
1,2-Dibromoethane	< 1.00	2.00			ug/L	0.420	1.00	01/26/21 17:13	B1A0778	WZZ	1
1,2-Dichloroethane	< 2.00	4.00			ug/L	0.731	2.00	01/26/21 17:13	B1A0778	WZZ	1
1,2-Dichloropropane	< 2.00	4.00			ug/L	0.557	2.00	01/26/21 17:13	B1A0778	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00			ug/L	0.351	1.00	01/26/21 17:13	B1A0778	WZZ	1
1,3-Dichloropropane	< 1.00	2.00			ug/L	0.345	1.00	01/26/21 17:13	B1A0778	WZZ	1
2,2-Dichloropropane	< 4.00	8.00			ug/L	1.03	4.00	01/26/21 17:13	B1A0778	WZZ	1
2-Butanone	< 14.0	28.0			ug/L	4.79	14.0	01/26/21 17:13	B1A0778	WZZ	1
2-Chlorotoluene	< 1.00	2.00			ug/L	0.384	1.00	01/26/21 17:13	B1A0778	WZZ	1
2-Hexanone	< 14.0	28.0			ug/L	4.74	14.0	01/26/21 17:13	B1A0778	WZZ	1
4-Isopropyltoluene	< 2.00	4.00			ug/L	0.930	2.00	01/26/21 17:13	B1A0778	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0			ug/L	4.40	14.0	01/26/21 17:13	B1A0778	WZZ	1
Acetone	< 28.0	70.0			ug/L	9.21	28.0	01/26/21 17:13	B1A0778	WZZ	1
Benzene	< 1.00	2.00			ug/L	0.362	1.00	01/26/21 17:13	B1A0778	WZZ	1
Bromobenzene	< 1.00	2.00			ug/L	0.354	1.00	01/26/21 17:13	B1A0778	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-9
Report Date: 02/10/2021
Collection Date: 01/19/2021 11:15
Matrix: Groundwater
Lab ID: 21A0717-19 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	01/26/21 17:13	B1A0778	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	01/26/21 17:13	B1A0778	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	01/26/21 17:13	B1A0778	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	01/26/21 17:13	B1A0778	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	01/26/21 17:13	B1A0778	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	01/26/21 17:13	B1A0778	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	01/26/21 17:13	B1A0778	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	01/26/21 17:13	B1A0778	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	01/26/21 17:13	B1A0778	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	01/26/21 17:13	B1A0778	WZZ	1
cis-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.652	2.00	01/26/21 17:13	B1A0778	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	01/26/21 17:13	B1A0778	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	01/26/21 17:13	B1A0778	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	01/26/21 17:13	B1A0778	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	01/26/21 17:13	B1A0778	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	01/26/21 17:13	B1A0778	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	01/26/21 17:13	B1A0778	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	01/26/21 17:13	B1A0778	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	01/26/21 17:13	B1A0778	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	01/26/21 17:13	B1A0778	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	01/26/21 17:13	B1A0778	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	01/26/21 17:13	B1A0778	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	01/26/21 17:13	B1A0778	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	01/26/21 17:13	B1A0778	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	01/26/21 17:13	B1A0778	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 17:13	B1A0778	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	01/26/21 17:13	B1A0778	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	01/26/21 17:13	B1A0778	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	01/26/21 17:13	B1A0778	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	01/26/21 17:13	B1A0778	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 17:13	B1A0778	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	01/26/21 17:13	B1A0778	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	01/26/21 17:13	B1A0778	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	01/26/21 17:13	B1A0778	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	01/26/21 17:13	B1A0778	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 104%</i>	<i>Limits: 84-137</i>		<i>01/26/21 17:13</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 102%</i>	<i>Limits: 74-140</i>		<i>01/26/21 17:13</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 100%</i>	<i>Limits: 90-105</i>		<i>01/26/21 17:13</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 98%</i>	<i>Limits: 74-109</i>		<i>01/26/21 17:13</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 104%</i>	<i>Limits: 86-128</i>		<i>01/26/21 17:13</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 103%</i>	<i>Limits: 90-128</i>		<i>01/26/21 17:13</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-9
Report Date: 02/10/2021
Collection Date: 01/19/2021 11:15
Matrix: Groundwater
Lab ID: 21A0717-19 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time		Batch	Analyst	DF
		Limit						Analyzed				
Semivolatile Organic Compounds by GC/MS												
Method: SW8270D / SW3510												
1,2,4-Trichlorobenzene	< 1.04	2.09			ug/L	0.292	1.04	01/26/21	10:07	B1A0681	CP1	1
1,2-Dichlorobenzene	< 1.04	2.09			ug/L	0.313	1.04	01/26/21	10:07	B1A0681	CP1	1
1,3-Dichlorobenzene	< 1.04	2.09			ug/L	0.323	1.04	01/26/21	10:07	B1A0681	CP1	1
1,4-Dichlorobenzene	< 1.04	2.09			ug/L	0.292	1.04	01/26/21	10:07	B1A0681	CP1	1
2,4,5-Trichlorophenol	< 0.521	1.04			ug/L	0.135	0.521	01/26/21	10:07	B1A0681	CP1	1
2,4,6-Trichlorophenol	< 0.521	1.04			ug/L	0.254	0.521	01/26/21	10:07	B1A0681	CP1	1
2,4-Dichlorophenol	< 0.521	1.04			ug/L	0.0822	0.521	01/26/21	10:07	B1A0681	CP1	1
2,4-Dimethylphenol	< 1.04	2.09			ug/L	0.122	1.04	01/26/21	10:07	B1A0681	CP1	1
2,4-Dinitrophenol	< 10.4	31.3			ug/L	3.45	10.4	01/26/21	10:07	B1A0681	CP1	1
2,4-Dinitrotoluene	< 1.04	2.09			ug/L	0.263	1.04	01/26/21	10:07	B1A0681	CP1	1
2,6-Dinitrotoluene	< 0.521	1.04			ug/L	0.240	0.521	01/26/21	10:07	B1A0681	CP1	1
2-Chloronaphthalene	< 0.313	0.626			ug/L	0.110	0.313	01/26/21	10:07	B1A0681	CP1	1
2-Chlorophenol	< 0.521	1.04			ug/L	0.160	0.521	01/26/21	10:07	B1A0681	CP1	1
2-Methylnaphthalene	< 2.09	4.17			ug/L	0.667	2.09	01/26/21	10:07	B1A0681	CP1	1
2-Methylphenol	< 0.521	1.04			ug/L	0.191	0.521	01/26/21	10:07	B1A0681	CP1	1
2-Nitroaniline	< 10.4	31.3			ug/L	2.67	10.4	01/26/21	10:07	B1A0681	CP1	1
2-Nitrophenol	< 0.521	1.04			ug/L	0.218	0.521	01/26/21	10:07	B1A0681	CP1	1
3,3'-Dichlorobenzidine	< 10.4	20.9			ug/L	3.30	10.4	01/26/21	10:07	B1A0681	CP1	1
3 & 4-Methylphenol	< 0.521	1.04			ug/L	0.187	0.521	01/26/21	10:07	B1A0681	CP1	1
3-Nitroaniline	< 1.04	2.09			ug/L	0.375	1.04	01/26/21	10:07	B1A0681	CP1	1
4,6-Dinitro-2-methylphenol	< 5.21	15.6			ug/L	2.56	5.21	01/26/21	10:07	B1A0681	CP1	1
4-Bromophenyl-phenylether	< 0.521	1.04			ug/L	0.167	0.521	01/26/21	10:07	B1A0681	CP1	1
4-Chloro-3-methylphenol	< 0.209	0.521			ug/L	0.0743	0.209	01/26/21	10:07	B1A0681	CP1	1
4-Chloroaniline	< 0.313	0.626			ug/L	0.111	0.313	01/26/21	10:07	B1A0681	CP1	1
4-Chlorophenyl-phenylether	< 0.521	1.04			ug/L	0.152	0.521	01/26/21	10:07	B1A0681	CP1	1
4-Nitroaniline	< 10.4	31.3			ug/L	3.93	10.4	01/26/21	10:07	B1A0681	CP1	1
4-Nitrophenol	< 5.21	15.6			ug/L	1.50	5.21	01/26/21	10:07	B1A0681	CP1	1
Acenaphthene	< 0.313	0.626			ug/L	0.108	0.313	01/26/21	10:07	B1A0681	CP1	1
Acenaphthylene	< 0.313	0.626			ug/L	0.136	0.313	01/26/21	10:07	B1A0681	CP1	1
Anthracene	< 0.313	0.626			ug/L	0.116	0.313	01/26/21	10:07	B1A0681	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.313	1.04			ug/L	0.0800	0.313	01/26/21	10:07	B1A0681	CP1	1
Benzidine	< 41.7	83.4			ug/L	17.3	41.7	01/26/21	10:07	B1A0681	CP1	1
Benzo(a)anthracene	< 0.313	0.626			ug/L	0.129	0.313	01/26/21	10:07	B1A0681	CP1	1
Benzo(a)pyrene	< 1.04	2.09			ug/L	0.392	1.04	01/26/21	10:07	B1A0681	CP1	1
Benzo(b)fluoranthene	< 1.04	2.09			ug/L	0.388	1.04	01/26/21	10:07	B1A0681	CP1	1
Benzo(g,h,i)perylene	< 1.04	2.09			ug/L	0.416	1.04	01/26/21	10:07	B1A0681	CP1	1
Benzo(k)fluoranthene	< 0.521	2.09			ug/L	0.259	0.521	01/26/21	10:07	B1A0681	CP1	1
Benzoic acid	< 25.0	41.7			ug/L	12.2	25.0	01/26/21	10:07	B1A0681	CP1	1
Benzyl alcohol	< 2.09	4.17			ug/L	0.573	2.09	01/26/21	10:07	B1A0681	CP1	1
Bis(2-chloroethoxy)methane	< 0.521	1.04			ug/L	0.141	0.521	01/26/21	10:07	B1A0681	CP1	1
Bis(2-chloroethyl)ether	< 0.521	1.04			ug/L	0.183	0.521	01/26/21	10:07	B1A0681	CP1	1
Bis(2-chloroisopropyl)ether	< 0.521	1.04			ug/L	0.134	0.521	01/26/21	10:07	B1A0681	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.4	20.9			ug/L	3.78	10.4	01/26/21	10:07	B1A0681	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-9
Report Date: 02/10/2021
Collection Date: 01/19/2021 11:15
Matrix: Groundwater
Lab ID: 21A0717-19 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS (Continued)										
Method: SW8270D / SW3510 (Continued)										
Butyl benzyl phthalate	< 0.521	1.04		ug/L	0.244	0.521	01/26/21 10:07	B1A0681	CP1	1
Carbazole	< 0.521	1.04		ug/L	0.180	0.521	01/26/21 10:07	B1A0681	CP1	1
Chrysene	< 0.313	0.626		ug/L	0.132	0.313	01/26/21 10:07	B1A0681	CP1	1
Dibenzo(a,h)anthracene	< 1.04	2.09		ug/L	0.461	1.04	01/26/21 10:07	B1A0681	CP1	1
Dibenzofuran	< 0.313	0.626		ug/L	0.128	0.313	01/26/21 10:07	B1A0681	CP1	1
Diethyl phthalate	< 3.13	6.26		ug/L	1.21	3.13	01/26/21 10:07	B1A0681	CP1	1
Dimethyl phthalate	< 0.313	0.626		ug/L	0.0921	0.313	01/26/21 10:07	B1A0681	CP1	1
Di-n-butyl phthalate	< 6.26	10.4		ug/L	3.00	6.26	01/26/21 10:07	B1A0681	CP1	1
Di-n-octyl phthalate	< 5.21	10.4		ug/L	1.97	5.21	01/26/21 10:07	B1A0681	CP1	1
Fluoranthene	< 0.521	1.04		ug/L	0.205	0.521	01/26/21 10:07	B1A0681	CP1	1
Fluorene	< 0.313	0.626		ug/L	0.129	0.313	01/26/21 10:07	B1A0681	CP1	1
Hexachlorobenzene	< 0.521	1.04		ug/L	0.172	0.521	01/26/21 10:07	B1A0681	CP1	1
Hexachlorobutadiene	< 0.521	1.04		ug/L	0.261	0.521	01/26/21 10:07	B1A0681	CP1	1
Hexachlorocyclopentadiene	< 5.21	15.6		ug/L	2.28	5.21	01/26/21 10:07	B1A0681	CP1	1
Hexachloroethane	< 0.521	1.04		ug/L	0.229	0.521	01/26/21 10:07	B1A0681	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.04	2.09		ug/L	0.524	1.04	01/26/21 10:07	B1A0681	CP1	1
Isophorone	< 0.313	0.626		ug/L	0.115	0.313	01/26/21 10:07	B1A0681	CP1	1
Naphthalene	< 2.09	4.17		ug/L	0.851	2.09	01/26/21 10:07	B1A0681	CP1	1
Nitrobenzene	< 0.313	0.626		ug/L	0.146	0.313	01/26/21 10:07	B1A0681	CP1	1
N-Nitrosodimethylamine	< 0.521	1.04		ug/L	0.162	0.521	01/26/21 10:07	B1A0681	CP1	1
N-Nitrosodi-n-propylamine	< 1.04	2.09		ug/L	0.332	1.04	01/26/21 10:07	B1A0681	CP1	1
N-Nitrosodiphenylamine	< 0.313	0.626		ug/L	0.108	0.313	01/26/21 10:07	B1A0681	CP1	1
Pentachlorophenol	< 10.4	31.3		ug/L	2.63	10.4	01/26/21 10:07	B1A0681	CP1	1
Phenanthrene	< 0.521	1.04		ug/L	0.215	0.521	01/26/21 10:07	B1A0681	CP1	1
Phenol	0.772	1.04	J	ug/L	0.178	0.521	01/26/21 10:07	B1A0681	CP1	1
Pyrene	< 0.521	1.04		ug/L	0.217	0.521	01/26/21 10:07	B1A0681	CP1	1
<i>Surrogate: 2-Fluorophenol</i>				<i>Recovery: 30%</i>	<i>Limits: 10-88</i>		<i>01/26/21 10:07</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Phenol-d5</i>				<i>Recovery: 23%</i>	<i>Limits: 10-65</i>		<i>01/26/21 10:07</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Nitrobenzene-d5</i>				<i>Recovery: 56%</i>	<i>Limits: 25-128</i>		<i>01/26/21 10:07</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2-Fluorobiphenyl</i>				<i>Recovery: 50%</i>	<i>Limits: 24-114</i>		<i>01/26/21 10:07</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>				<i>Recovery: 52%</i>	<i>Limits: 15-119</i>		<i>01/26/21 10:07</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 4-Terphenyl-d14</i>				<i>Recovery: 69%</i>	<i>Limits: 29-129</i>		<i>01/26/21 10:07</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500		ug/L	0.0625	0.200	01/25/21 15:18	B1A0755	CP1	1
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 94%</i>	<i>Limits: 80-120</i>		<i>01/25/21 15:18</i>	<i>B1A0755</i>	<i>CP1</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants**Project:** Milw Die Cast**Work Order:** 21A0717**Client Sample ID:** MW-9 Filtered**Report Date:** 02/10/2021**Collection Date:** 01/19/2021 01:15**Matrix:** Groundwater**Lab ID:** 21A0717-20

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Limit									
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.531	1.06			ug/L	0.226	0.531	01/27/21 16:00	B1A0753	CS2	1	
Aroclor 1221	< 0.531	0.638			ug/L	0.204	0.531	01/27/21 16:00	B1A0753	CS2	1	
Aroclor 1232	< 0.531	0.638			ug/L	0.172	0.531	01/27/21 16:00	B1A0753	CS2	1	
Aroclor 1242	< 1.06	2.13			ug/L	0.372	1.06	01/27/21 16:00	B1A0753	CS2	1	
Aroclor 1248	< 0.531	0.638			ug/L	0.170	0.531	01/27/21 16:00	B1A0753	CS2	1	
Aroclor 1254	< 0.531	0.638			ug/L	0.187	0.531	01/27/21 16:00	B1A0753	CS2	1	
Aroclor 1260	< 0.319	0.425			ug/L	0.119	0.319	01/27/21 16:00	B1A0753	CS2	1	
Total PCB	< 0.531	0.638			ug/L	0.204	0.531	01/27/21 16:00	B1A0753	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 92%		Limits: 10-139		01/27/21 16:00	B1A0753	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 57%		Limits: 26-107		01/27/21 16:00	B1A0753	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-10
Report Date: 02/10/2021
Collection Date: 01/20/2021 08:55
Matrix: Groundwater
Lab ID: 21A0717-21

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	1.99	1.00		mg/L	0.400	0.800	01/26/21 04:22	B1A0740	TB2	1
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3510										
Aroclor 1016	< 0.508	1.02		ug/L	0.216	0.508	01/27/21 16:17	B1A0753	CS2	1
Aroclor 1221	< 0.508	0.610		ug/L	0.195	0.508	01/27/21 16:17	B1A0753	CS2	1
Aroclor 1232	< 0.508	0.610		ug/L	0.165	0.508	01/27/21 16:17	B1A0753	CS2	1
Aroclor 1242	< 1.02	2.03		ug/L	0.356	1.02	01/27/21 16:17	B1A0753	CS2	1
Aroclor 1248	< 0.508	0.610		ug/L	0.163	0.508	01/27/21 16:17	B1A0753	CS2	1
Aroclor 1254	< 0.508	0.610		ug/L	0.179	0.508	01/27/21 16:17	B1A0753	CS2	1
Aroclor 1260	< 0.305	0.407		ug/L	0.114	0.305	01/27/21 16:17	B1A0753	CS2	1
Total PCB	< 0.508	0.610		ug/L	0.195	0.508	01/27/21 16:17	B1A0753	CS2	1
Surrogate: Decachlorobiphenyl				Recovery: 101%	Limits: 10-139		01/27/21 16:17	B1A0753	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				Recovery: 64%	Limits: 26-107		01/27/21 16:17	B1A0753	CS2	1
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.706	2.00	01/26/21 17:38	B1A0778	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00		ug/L	0.719	2.00	01/26/21 17:38	B1A0778	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.713	2.00	01/26/21 17:38	B1A0778	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00		ug/L	0.198	0.600	01/26/21 17:38	B1A0778	WZZ	1
1,1-Dichloroethane	< 2.00	4.00		ug/L	0.691	2.00	01/26/21 17:38	B1A0778	WZZ	1
1,1-Dichloroethene	< 4.00	8.00		ug/L	1.10	4.00	01/26/21 17:38	B1A0778	WZZ	1
1,1-Dichloropropene	< 1.00	2.00		ug/L	0.462	1.00	01/26/21 17:38	B1A0778	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00		ug/L	0.199	0.600	01/26/21 17:38	B1A0778	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00		ug/L	0.598	2.00	01/26/21 17:38	B1A0778	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00		ug/L	0.753	2.00	01/26/21 17:38	B1A0778	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00		ug/L	1.22	4.00	01/26/21 17:38	B1A0778	WZZ	1
1,2-Dibromoethane	< 1.00	2.00		ug/L	0.420	1.00	01/26/21 17:38	B1A0778	WZZ	1
1,2-Dichloroethane	< 2.00	4.00		ug/L	0.731	2.00	01/26/21 17:38	B1A0778	WZZ	1
1,2-Dichloropropane	< 2.00	4.00		ug/L	0.557	2.00	01/26/21 17:38	B1A0778	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00		ug/L	0.351	1.00	01/26/21 17:38	B1A0778	WZZ	1
1,3-Dichloropropane	< 1.00	2.00		ug/L	0.345	1.00	01/26/21 17:38	B1A0778	WZZ	1
2,2-Dichloropropane	< 4.00	8.00		ug/L	1.03	4.00	01/26/21 17:38	B1A0778	WZZ	1
2-Butanone	< 14.0	28.0		ug/L	4.79	14.0	01/26/21 17:38	B1A0778	WZZ	1
2-Chlorotoluene	< 1.00	2.00		ug/L	0.384	1.00	01/26/21 17:38	B1A0778	WZZ	1
2-Hexanone	< 14.0	28.0		ug/L	4.74	14.0	01/26/21 17:38	B1A0778	WZZ	1
4-Isopropyltoluene	< 2.00	4.00		ug/L	0.930	2.00	01/26/21 17:38	B1A0778	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0		ug/L	4.40	14.0	01/26/21 17:38	B1A0778	WZZ	1
Acetone	< 28.0	70.0		ug/L	9.21	28.0	01/26/21 17:38	B1A0778	WZZ	1
Benzene	< 1.00	2.00		ug/L	0.362	1.00	01/26/21 17:38	B1A0778	WZZ	1
Bromobenzene	< 1.00	2.00		ug/L	0.354	1.00	01/26/21 17:38	B1A0778	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-10
Report Date: 02/10/2021
Collection Date: 01/20/2021 08:55
Matrix: Groundwater
Lab ID: 21A0717-21 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	01/26/21 17:38	B1A0778	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	01/26/21 17:38	B1A0778	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	01/26/21 17:38	B1A0778	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	01/26/21 17:38	B1A0778	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	01/26/21 17:38	B1A0778	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	01/26/21 17:38	B1A0778	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	01/26/21 17:38	B1A0778	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	01/26/21 17:38	B1A0778	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	01/26/21 17:38	B1A0778	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	01/26/21 17:38	B1A0778	WZZ	1
cis-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.652	2.00	01/26/21 17:38	B1A0778	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	01/26/21 17:38	B1A0778	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	01/26/21 17:38	B1A0778	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	01/26/21 17:38	B1A0778	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	01/26/21 17:38	B1A0778	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	01/26/21 17:38	B1A0778	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	01/26/21 17:38	B1A0778	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	01/26/21 17:38	B1A0778	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	01/26/21 17:38	B1A0778	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	01/26/21 17:38	B1A0778	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	01/26/21 17:38	B1A0778	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	01/26/21 17:38	B1A0778	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	01/26/21 17:38	B1A0778	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	01/26/21 17:38	B1A0778	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	01/26/21 17:38	B1A0778	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 17:38	B1A0778	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	01/26/21 17:38	B1A0778	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	01/26/21 17:38	B1A0778	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	01/26/21 17:38	B1A0778	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	01/26/21 17:38	B1A0778	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 17:38	B1A0778	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	01/26/21 17:38	B1A0778	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	01/26/21 17:38	B1A0778	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	01/26/21 17:38	B1A0778	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	01/26/21 17:38	B1A0778	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 109%</i>	<i>Limits: 84-137</i>		<i>01/26/21 17:38</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 105%</i>	<i>Limits: 74-140</i>		<i>01/26/21 17:38</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 99%</i>	<i>Limits: 90-105</i>		<i>01/26/21 17:38</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 98%</i>	<i>Limits: 74-109</i>		<i>01/26/21 17:38</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 99%</i>	<i>Limits: 86-128</i>		<i>01/26/21 17:38</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 103%</i>	<i>Limits: 90-128</i>		<i>01/26/21 17:38</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants**Project:** Milw Die Cast**Work Order:** 21A0717**Client Sample ID:** MW-10**Report Date:** 02/10/2021**Collection Date:** 01/20/2021 08:55**Matrix:** Groundwater**Lab ID:** 21A0717-21 (Continued)

Analyses	Result	EMT		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Reporting Limit	Qual							
Semivolatile Organic Compounds by GC/MS										
Method: SW8270D / SW3510										
1,2,4-Trichlorobenzene	< 1.05	2.10		ug/L	0.294	1.05	01/26/21 15:40	B1A0681	CP1	1
1,2-Dichlorobenzene	< 1.05	2.10		ug/L	0.315	1.05	01/26/21 15:40	B1A0681	CP1	1
1,3-Dichlorobenzene	< 1.05	2.10		ug/L	0.325	1.05	01/26/21 15:40	B1A0681	CP1	1
1,4-Dichlorobenzene	< 1.05	2.10		ug/L	0.294	1.05	01/26/21 15:40	B1A0681	CP1	1
2,4,5-Trichlorophenol	< 0.524	1.05		ug/L	0.136	0.524	01/26/21 15:40	B1A0681	CP1	1
2,4,6-Trichlorophenol	< 0.524	1.05		ug/L	0.256	0.524	01/26/21 15:40	B1A0681	CP1	1
2,4-Dichlorophenol	< 0.524	1.05		ug/L	0.0826	0.524	01/26/21 15:40	B1A0681	CP1	1
2,4-Dimethylphenol	< 1.05	2.10		ug/L	0.123	1.05	01/26/21 15:40	B1A0681	CP1	1
2,4-Dinitrophenol	< 10.5	31.5		ug/L	3.47	10.5	01/26/21 15:40	B1A0681	CP1	1
2,4-Dinitrotoluene	< 1.05	2.10		ug/L	0.264	1.05	01/26/21 15:40	B1A0681	CP1	1
2,6-Dinitrotoluene	< 0.524	1.05		ug/L	0.241	0.524	01/26/21 15:40	B1A0681	CP1	1
2-Chloronaphthalene	< 0.315	0.629		ug/L	0.111	0.315	01/26/21 15:40	B1A0681	CP1	1
2-Chlorophenol	< 0.524	1.05		ug/L	0.161	0.524	01/26/21 15:40	B1A0681	CP1	1
2-Methylnaphthalene	< 2.10	4.20		ug/L	0.671	2.10	01/26/21 15:40	B1A0681	CP1	1
2-Methylphenol	< 0.524	1.05		ug/L	0.192	0.524	01/26/21 15:40	B1A0681	CP1	1
2-Nitroaniline	< 10.5	31.5		ug/L	2.69	10.5	01/26/21 15:40	B1A0681	CP1	1
2-Nitrophenol	< 0.524	1.05		ug/L	0.220	0.524	01/26/21 15:40	B1A0681	CP1	1
3,3'-Dichlorobenzidine	< 10.5	21.0		ug/L	3.32	10.5	01/26/21 15:40	B1A0681	CP1	1
3 & 4-Methylphenol	< 0.524	1.05		ug/L	0.188	0.524	01/26/21 15:40	B1A0681	CP1	1
3-Nitroaniline	< 1.05	2.10		ug/L	0.377	1.05	01/26/21 15:40	B1A0681	CP1	1
4,6-Dinitro-2-methylphenol	< 5.24	15.7		ug/L	2.57	5.24	01/26/21 15:40	B1A0681	CP1	1
4-Bromophenyl-phenylether	< 0.524	1.05		ug/L	0.168	0.524	01/26/21 15:40	B1A0681	CP1	1
4-Chloro-3-methylphenol	< 0.210	0.524		ug/L	0.0748	0.210	01/26/21 15:40	B1A0681	CP1	1
4-Chloroaniline	< 0.315	0.629		ug/L	0.112	0.315	01/26/21 15:40	B1A0681	CP1	1
4-Chlorophenyl-phenylether	< 0.524	1.05		ug/L	0.153	0.524	01/26/21 15:40	B1A0681	CP1	1
4-Nitroaniline	< 10.5	31.5		ug/L	3.96	10.5	01/26/21 15:40	B1A0681	CP1	1
4-Nitrophenol	< 5.24	15.7		ug/L	1.51	5.24	01/26/21 15:40	B1A0681	CP1	1
Acenaphthene	< 0.315	0.629		ug/L	0.109	0.315	01/26/21 15:40	B1A0681	CP1	1
Acenaphthylene	< 0.315	0.629		ug/L	0.136	0.315	01/26/21 15:40	B1A0681	CP1	1
Anthracene	< 0.315	0.629		ug/L	0.117	0.315	01/26/21 15:40	B1A0681	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.315	1.05		ug/L	0.0804	0.315	01/26/21 15:40	B1A0681	CP1	1
Benzidine	< 42.0	83.9		ug/L	17.4	42.0	01/26/21 15:40	B1A0681	CP1	1
Benzo(a)anthracene	< 0.315	0.629		ug/L	0.129	0.315	01/26/21 15:40	B1A0681	CP1	1
Benzo(a)pyrene	< 1.05	2.10		ug/L	0.394	1.05	01/26/21 15:40	B1A0681	CP1	1
Benzo(b)fluoranthene	< 1.05	2.10		ug/L	0.390	1.05	01/26/21 15:40	B1A0681	CP1	1
Benzo(g,h,i)perylene	< 1.05	2.10		ug/L	0.419	1.05	01/26/21 15:40	B1A0681	CP1	1
Benzo(k)fluoranthene	< 0.524	2.10		ug/L	0.261	0.524	01/26/21 15:40	B1A0681	CP1	1
Benzoic acid	< 25.2	42.0		ug/L	12.3	25.2	01/26/21 15:40	B1A0681	CP1	1
Benzyl alcohol	< 2.10	4.20		ug/L	0.577	2.10	01/26/21 15:40	B1A0681	CP1	1
Bis(2-chloroethoxy)methane	< 0.524	1.05		ug/L	0.142	0.524	01/26/21 15:40	B1A0681	CP1	1
Bis(2-chloroethyl)ether	< 0.524	1.05		ug/L	0.184	0.524	01/26/21 15:40	B1A0681	CP1	1
Bis(2-chloroisopropyl)ether	< 0.524	1.05		ug/L	0.135	0.524	01/26/21 15:40	B1A0681	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.5	21.0		ug/L	3.81	10.5	01/26/21 15:40	B1A0681	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-10
Report Date: 02/10/2021
Collection Date: 01/20/2021 08:55
Matrix: Groundwater
Lab ID: 21A0717-21 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS (Continued)										
Method: SW8270D / SW3510 (Continued)										
Butyl benzyl phthalate	< 0.524	1.05		ug/L	0.245	0.524	01/26/21 15:40	B1A0681	CP1	1
Carbazole	< 0.524	1.05		ug/L	0.181	0.524	01/26/21 15:40	B1A0681	CP1	1
Chrysene	< 0.315	0.629		ug/L	0.133	0.315	01/26/21 15:40	B1A0681	CP1	1
Dibenzo(a,h)anthracene	< 1.05	2.10		ug/L	0.463	1.05	01/26/21 15:40	B1A0681	CP1	1
Dibenzofuran	< 0.315	0.629		ug/L	0.129	0.315	01/26/21 15:40	B1A0681	CP1	1
Diethyl phthalate	< 3.15	6.29		ug/L	1.22	3.15	01/26/21 15:40	B1A0681	CP1	1
Dimethyl phthalate	< 0.315	0.629		ug/L	0.0926	0.315	01/26/21 15:40	B1A0681	CP1	1
Di-n-butyl phthalate	< 6.29	10.5		ug/L	3.02	6.29	01/26/21 15:40	B1A0681	CP1	1
Di-n-octyl phthalate	< 5.24	10.5		ug/L	1.98	5.24	01/26/21 15:40	B1A0681	CP1	1
Fluoranthene	< 0.524	1.05		ug/L	0.206	0.524	01/26/21 15:40	B1A0681	CP1	1
Fluorene	< 0.315	0.629		ug/L	0.130	0.315	01/26/21 15:40	B1A0681	CP1	1
Hexachlorobenzene	< 0.524	1.05		ug/L	0.173	0.524	01/26/21 15:40	B1A0681	CP1	1
Hexachlorobutadiene	< 0.524	1.05		ug/L	0.262	0.524	01/26/21 15:40	B1A0681	CP1	1
Hexachlorocyclopentadiene	< 5.24	15.7		ug/L	2.29	5.24	01/26/21 15:40	B1A0681	CP1	1
Hexachloroethane	< 0.524	1.05		ug/L	0.231	0.524	01/26/21 15:40	B1A0681	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.05	2.10		ug/L	0.527	1.05	01/26/21 15:40	B1A0681	CP1	1
Isophorone	< 0.315	0.629		ug/L	0.116	0.315	01/26/21 15:40	B1A0681	CP1	1
Naphthalene	< 2.10	4.20		ug/L	0.856	2.10	01/26/21 15:40	B1A0681	CP1	1
Nitrobenzene	< 0.315	0.629		ug/L	0.146	0.315	01/26/21 15:40	B1A0681	CP1	1
N-Nitrosodimethylamine	< 0.524	1.05		ug/L	0.163	0.524	01/26/21 15:40	B1A0681	CP1	1
N-Nitrosodi-n-propylamine	< 1.05	2.10		ug/L	0.334	1.05	01/26/21 15:40	B1A0681	CP1	1
N-Nitrosodiphenylamine	< 0.315	0.629		ug/L	0.109	0.315	01/26/21 15:40	B1A0681	CP1	1
Pentachlorophenol	< 10.5	31.5		ug/L	2.64	10.5	01/26/21 15:40	B1A0681	CP1	1
Phenanthrene	< 0.524	1.05		ug/L	0.216	0.524	01/26/21 15:40	B1A0681	CP1	1
Phenol	< 0.524	1.05		ug/L	0.179	0.524	01/26/21 15:40	B1A0681	CP1	1
Pyrene	< 0.524	1.05		ug/L	0.218	0.524	01/26/21 15:40	B1A0681	CP1	1
Surrogate: 2-Fluorophenol				Recovery: 36%	Limits: 10-88		01/26/21 15:40	B1A0681	CP1	1
Surrogate: Phenol-d5				Recovery: 29%	Limits: 10-65		01/26/21 15:40	B1A0681	CP1	1
Surrogate: Nitrobenzene-d5				Recovery: 58%	Limits: 25-128		01/26/21 15:40	B1A0681	CP1	1
Surrogate: 2-Fluorobiphenyl				Recovery: 53%	Limits: 24-114		01/26/21 15:40	B1A0681	CP1	1
Surrogate: 2,4,6-Tribromophenol				Recovery: 60%	Limits: 15-119		01/26/21 15:40	B1A0681	CP1	1
Surrogate: 4-Terphenyl-d14				Recovery: 85%	Limits: 29-129		01/26/21 15:40	B1A0681	CP1	1

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500		ug/L	0.0625	0.200	01/25/21 19:22	B1A0755	CP1	1
Surrogate: Toluene-d8				Recovery: 110%	Limits: 80-120		01/25/21 19:22	B1A0755	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-10 Filtered
Report Date: 02/10/2021
Collection Date: 01/20/2021 08:55
Matrix: Groundwater
Lab ID: 21A0717-22

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit										
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.526	1.05			ug/L	0.223	0.526	01/27/21 16:34	B1A0753	CS2	1	
Aroclor 1221	< 0.526	0.632			ug/L	0.202	0.526	01/27/21 16:34	B1A0753	CS2	1	
Aroclor 1232	< 0.526	0.632			ug/L	0.171	0.526	01/27/21 16:34	B1A0753	CS2	1	
Aroclor 1242	< 1.05	2.11			ug/L	0.369	1.05	01/27/21 16:34	B1A0753	CS2	1	
Aroclor 1248	< 0.526	0.632			ug/L	0.168	0.526	01/27/21 16:34	B1A0753	CS2	1	
Aroclor 1254	< 0.526	0.632			ug/L	0.185	0.526	01/27/21 16:34	B1A0753	CS2	1	
Aroclor 1260	< 0.316	0.421			ug/L	0.118	0.316	01/27/21 16:34	B1A0753	CS2	1	
Total PCB	< 0.526	0.632			ug/L	0.202	0.526	01/27/21 16:34	B1A0753	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 88%		Limits: 10-139		01/27/21 16:34	B1A0753	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 61%		Limits: 26-107		01/27/21 16:34	B1A0753	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-11
Report Date: 02/10/2021
Collection Date: 01/19/2021 14:15
Matrix: Groundwater
Lab ID: 21A0717-23

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	2.40	1.00		mg/L	0.400	0.800	01/26/21 04:48	B1A0740	TB2	1
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3510										
Aroclor 1016	< 0.532	1.06		ug/L	0.226	0.532	01/27/21 12:58	B1A0750	CS2	1
Aroclor 1221	< 0.532	0.638		ug/L	0.204	0.532	01/27/21 12:58	B1A0750	CS2	1
Aroclor 1232	< 0.532	0.638		ug/L	0.172	0.532	01/27/21 12:58	B1A0750	CS2	1
Aroclor 1242	< 1.06	2.13		ug/L	0.373	1.06	01/27/21 12:58	B1A0750	CS2	1
Aroclor 1248	< 0.532	0.638		ug/L	0.170	0.532	01/27/21 12:58	B1A0750	CS2	1
Aroclor 1254	< 0.532	0.638		ug/L	0.187	0.532	01/27/21 12:58	B1A0750	CS2	1
Aroclor 1260	< 0.319	0.426		ug/L	0.119	0.319	01/27/21 12:58	B1A0750	CS2	1
Total PCB	< 0.532	0.638		ug/L	0.204	0.532	01/27/21 12:58	B1A0750	CS2	1
Surrogate: Decachlorobiphenyl				Recovery: 85%	Limits: 10-139		01/27/21 12:58	B1A0750	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				Recovery: 58%	Limits: 26-107		01/27/21 12:58	B1A0750	CS2	1
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.706	2.00	01/26/21 18:04	B1A0778	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00		ug/L	0.719	2.00	01/26/21 18:04	B1A0778	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.713	2.00	01/26/21 18:04	B1A0778	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00		ug/L	0.198	0.600	01/26/21 18:04	B1A0778	WZZ	1
1,1-Dichloroethane	< 2.00	4.00		ug/L	0.691	2.00	01/26/21 18:04	B1A0778	WZZ	1
1,1-Dichloroethene	< 4.00	8.00		ug/L	1.10	4.00	01/26/21 18:04	B1A0778	WZZ	1
1,1-Dichloropropene	< 1.00	2.00		ug/L	0.462	1.00	01/26/21 18:04	B1A0778	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00		ug/L	0.199	0.600	01/26/21 18:04	B1A0778	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00		ug/L	0.598	2.00	01/26/21 18:04	B1A0778	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00		ug/L	0.753	2.00	01/26/21 18:04	B1A0778	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00		ug/L	1.22	4.00	01/26/21 18:04	B1A0778	WZZ	1
1,2-Dibromoethane	< 1.00	2.00		ug/L	0.420	1.00	01/26/21 18:04	B1A0778	WZZ	1
1,2-Dichloroethane	< 2.00	4.00		ug/L	0.731	2.00	01/26/21 18:04	B1A0778	WZZ	1
1,2-Dichloropropane	< 2.00	4.00		ug/L	0.557	2.00	01/26/21 18:04	B1A0778	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00		ug/L	0.351	1.00	01/26/21 18:04	B1A0778	WZZ	1
1,3-Dichloropropane	< 1.00	2.00		ug/L	0.345	1.00	01/26/21 18:04	B1A0778	WZZ	1
2,2-Dichloropropane	< 4.00	8.00		ug/L	1.03	4.00	01/26/21 18:04	B1A0778	WZZ	1
2-Butanone	< 14.0	28.0		ug/L	4.79	14.0	01/26/21 18:04	B1A0778	WZZ	1
2-Chlorotoluene	< 1.00	2.00		ug/L	0.384	1.00	01/26/21 18:04	B1A0778	WZZ	1
2-Hexanone	< 14.0	28.0		ug/L	4.74	14.0	01/26/21 18:04	B1A0778	WZZ	1
4-Isopropyltoluene	< 2.00	4.00		ug/L	0.930	2.00	01/26/21 18:04	B1A0778	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0		ug/L	4.40	14.0	01/26/21 18:04	B1A0778	WZZ	1
Acetone	< 28.0	70.0		ug/L	9.21	28.0	01/26/21 18:04	B1A0778	WZZ	1
Benzene	< 1.00	2.00		ug/L	0.362	1.00	01/26/21 18:04	B1A0778	WZZ	1
Bromobenzene	< 1.00	2.00		ug/L	0.354	1.00	01/26/21 18:04	B1A0778	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-11
Report Date: 02/10/2021
Collection Date: 01/19/2021 14:15
Matrix: Groundwater
Lab ID: 21A0717-23 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	01/26/21 18:04	B1A0778	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	01/26/21 18:04	B1A0778	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	01/26/21 18:04	B1A0778	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	01/26/21 18:04	B1A0778	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	01/26/21 18:04	B1A0778	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	01/26/21 18:04	B1A0778	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	01/26/21 18:04	B1A0778	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	01/26/21 18:04	B1A0778	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	01/26/21 18:04	B1A0778	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	01/26/21 18:04	B1A0778	WZZ	1
cis-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.652	2.00	01/26/21 18:04	B1A0778	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	01/26/21 18:04	B1A0778	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	01/26/21 18:04	B1A0778	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	01/26/21 18:04	B1A0778	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	01/26/21 18:04	B1A0778	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	01/26/21 18:04	B1A0778	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	01/26/21 18:04	B1A0778	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	01/26/21 18:04	B1A0778	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	01/26/21 18:04	B1A0778	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	01/26/21 18:04	B1A0778	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	01/26/21 18:04	B1A0778	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	01/26/21 18:04	B1A0778	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	01/26/21 18:04	B1A0778	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	01/26/21 18:04	B1A0778	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	01/26/21 18:04	B1A0778	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 18:04	B1A0778	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	01/26/21 18:04	B1A0778	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	01/26/21 18:04	B1A0778	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	01/26/21 18:04	B1A0778	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	01/26/21 18:04	B1A0778	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 18:04	B1A0778	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	01/26/21 18:04	B1A0778	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	01/26/21 18:04	B1A0778	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	01/26/21 18:04	B1A0778	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	01/26/21 18:04	B1A0778	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 107%</i>	<i>Limits: 84-137</i>		<i>01/26/21 18:04</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 105%</i>	<i>Limits: 74-140</i>		<i>01/26/21 18:04</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 97%</i>	<i>Limits: 90-105</i>		<i>01/26/21 18:04</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 98%</i>	<i>Limits: 74-109</i>		<i>01/26/21 18:04</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 102%</i>	<i>Limits: 86-128</i>		<i>01/26/21 18:04</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 103%</i>	<i>Limits: 90-128</i>		<i>01/26/21 18:04</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants**Project:** Milw Die Cast**Work Order:** 21A0717**Client Sample ID:** MW-11**Report Date:** 02/10/2021**Collection Date:** 01/19/2021 14:15**Matrix:** Groundwater**Lab ID:** 21A0717-23 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Semivolatile Organic Compounds by GC/MS											
Method: SW8270D / SW3510											
1,2,4-Trichlorobenzene	< 1.07	2.14			ug/L	0.299	1.07	01/26/21 13:35	B1A0681	CP1	1
1,2-Dichlorobenzene	< 1.07	2.14			ug/L	0.320	1.07	01/26/21 13:35	B1A0681	CP1	1
1,3-Dichlorobenzene	< 1.07	2.14			ug/L	0.331	1.07	01/26/21 13:35	B1A0681	CP1	1
1,4-Dichlorobenzene	< 1.07	2.14			ug/L	0.299	1.07	01/26/21 13:35	B1A0681	CP1	1
2,4,5-Trichlorophenol	< 0.534	1.07			ug/L	0.138	0.534	01/26/21 13:35	B1A0681	CP1	1
2,4,6-Trichlorophenol	< 0.534	1.07			ug/L	0.260	0.534	01/26/21 13:35	B1A0681	CP1	1
2,4-Dichlorophenol	< 0.534	1.07			ug/L	0.0842	0.534	01/26/21 13:35	B1A0681	CP1	1
2,4-Dimethylphenol	< 1.07	2.14			ug/L	0.125	1.07	01/26/21 13:35	B1A0681	CP1	1
2,4-Dinitrophenol	< 10.7	32.0			ug/L	3.54	10.7	01/26/21 13:35	B1A0681	CP1	1
2,4-Dinitrotoluene	< 1.07	2.14			ug/L	0.269	1.07	01/26/21 13:35	B1A0681	CP1	1
2,6-Dinitrotoluene	< 0.534	1.07			ug/L	0.245	0.534	01/26/21 13:35	B1A0681	CP1	1
2-Chloronaphthalene	< 0.320	0.641			ug/L	0.113	0.320	01/26/21 13:35	B1A0681	CP1	1
2-Chlorophenol	< 0.534	1.07			ug/L	0.164	0.534	01/26/21 13:35	B1A0681	CP1	1
2-Methylnaphthalene	< 2.14	4.27			ug/L	0.684	2.14	01/26/21 13:35	B1A0681	CP1	1
2-Methylphenol	< 0.534	1.07			ug/L	0.195	0.534	01/26/21 13:35	B1A0681	CP1	1
2-Nitroaniline	< 10.7	32.0			ug/L	2.74	10.7	01/26/21 13:35	B1A0681	CP1	1
2-Nitrophenol	< 0.534	1.07			ug/L	0.224	0.534	01/26/21 13:35	B1A0681	CP1	1
3,3'-Dichlorobenzidine	< 10.7	21.4			ug/L	3.38	10.7	01/26/21 13:35	B1A0681	CP1	1
3 & 4-Methylphenol	< 0.534	1.07			ug/L	0.191	0.534	01/26/21 13:35	B1A0681	CP1	1
3-Nitroaniline	< 1.07	2.14			ug/L	0.384	1.07	01/26/21 13:35	B1A0681	CP1	1
4,6-Dinitro-2-methylphenol	< 5.34	16.0			ug/L	2.62	5.34	01/26/21 13:35	B1A0681	CP1	1
4-Bromophenyl-phenylether	< 0.534	1.07			ug/L	0.171	0.534	01/26/21 13:35	B1A0681	CP1	1
4-Chloro-3-methylphenol	< 0.214	0.534			ug/L	0.0762	0.214	01/26/21 13:35	B1A0681	CP1	1
4-Chloroaniline	< 0.320	0.641			ug/L	0.114	0.320	01/26/21 13:35	B1A0681	CP1	1
4-Chlorophenyl-phenylether	< 0.534	1.07			ug/L	0.156	0.534	01/26/21 13:35	B1A0681	CP1	1
4-Nitroaniline	< 10.7	32.0			ug/L	4.03	10.7	01/26/21 13:35	B1A0681	CP1	1
4-Nitrophenol	< 5.34	16.0			ug/L	1.54	5.34	01/26/21 13:35	B1A0681	CP1	1
Acenaphthene	< 0.320	0.641			ug/L	0.111	0.320	01/26/21 13:35	B1A0681	CP1	1
Acenaphthylene	< 0.320	0.641			ug/L	0.139	0.320	01/26/21 13:35	B1A0681	CP1	1
Anthracene	< 0.320	0.641			ug/L	0.119	0.320	01/26/21 13:35	B1A0681	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.320	1.07			ug/L	0.0819	0.320	01/26/21 13:35	B1A0681	CP1	1
Benzidine	< 42.7	85.5			ug/L	17.7	42.7	01/26/21 13:35	B1A0681	CP1	1
Benzo(a)anthracene	< 0.320	0.641			ug/L	0.132	0.320	01/26/21 13:35	B1A0681	CP1	1
Benzo(a)pyrene	< 1.07	2.14			ug/L	0.401	1.07	01/26/21 13:35	B1A0681	CP1	1
Benzo(b)fluoranthene	< 1.07	2.14			ug/L	0.398	1.07	01/26/21 13:35	B1A0681	CP1	1
Benzo(g,h,i)perylene	< 1.07	2.14			ug/L	0.427	1.07	01/26/21 13:35	B1A0681	CP1	1
Benzo(k)fluoranthene	< 0.534	2.14			ug/L	0.266	0.534	01/26/21 13:35	B1A0681	CP1	1
Benzoic acid	< 25.6	42.7			ug/L	12.5	25.6	01/26/21 13:35	B1A0681	CP1	1
Benzyl alcohol	< 2.14	4.27			ug/L	0.587	2.14	01/26/21 13:35	B1A0681	CP1	1
Bis(2-chloroethoxy)methane	< 0.534	1.07			ug/L	0.145	0.534	01/26/21 13:35	B1A0681	CP1	1
Bis(2-chloroethyl)ether	< 0.534	1.07			ug/L	0.188	0.534	01/26/21 13:35	B1A0681	CP1	1
Bis(2-chloroisopropyl)ether	< 0.534	1.07			ug/L	0.137	0.534	01/26/21 13:35	B1A0681	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.7	21.4			ug/L	3.88	10.7	01/26/21 13:35	B1A0681	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-11
Report Date: 02/10/2021
Collection Date: 01/19/2021 14:15
Matrix: Groundwater
Lab ID: 21A0717-23 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS (Continued)										
Method: SW8270D / SW3510 (Continued)										
Butyl benzyl phthalate	< 0.534	1.07		ug/L	0.250	0.534	01/26/21 13:35	B1A0681	CP1	1
Carbazole	< 0.534	1.07		ug/L	0.185	0.534	01/26/21 13:35	B1A0681	CP1	1
Chrysene	< 0.320	0.641		ug/L	0.135	0.320	01/26/21 13:35	B1A0681	CP1	1
Dibenzo(a,h)anthracene	< 1.07	2.14		ug/L	0.472	1.07	01/26/21 13:35	B1A0681	CP1	1
Dibenzofuran	< 0.320	0.641		ug/L	0.131	0.320	01/26/21 13:35	B1A0681	CP1	1
Diethyl phthalate	< 3.20	6.41		ug/L	1.24	3.20	01/26/21 13:35	B1A0681	CP1	1
Dimethyl phthalate	< 0.320	0.641		ug/L	0.0943	0.320	01/26/21 13:35	B1A0681	CP1	1
Di-n-butyl phthalate	< 6.41	10.7		ug/L	3.08	6.41	01/26/21 13:35	B1A0681	CP1	1
Di-n-octyl phthalate	< 5.34	10.7		ug/L	2.02	5.34	01/26/21 13:35	B1A0681	CP1	1
Fluoranthene	< 0.534	1.07		ug/L	0.210	0.534	01/26/21 13:35	B1A0681	CP1	1
Fluorene	< 0.320	0.641		ug/L	0.132	0.320	01/26/21 13:35	B1A0681	CP1	1
Hexachlorobenzene	< 0.534	1.07		ug/L	0.176	0.534	01/26/21 13:35	B1A0681	CP1	1
Hexachlorobutadiene	< 0.534	1.07		ug/L	0.267	0.534	01/26/21 13:35	B1A0681	CP1	1
Hexachlorocyclopentadiene	< 5.34	16.0		ug/L	2.34	5.34	01/26/21 13:35	B1A0681	CP1	1
Hexachloroethane	< 0.534	1.07		ug/L	0.235	0.534	01/26/21 13:35	B1A0681	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.07	2.14		ug/L	0.537	1.07	01/26/21 13:35	B1A0681	CP1	1
Isophorone	< 0.320	0.641		ug/L	0.118	0.320	01/26/21 13:35	B1A0681	CP1	1
Naphthalene	< 2.14	4.27		ug/L	0.872	2.14	01/26/21 13:35	B1A0681	CP1	1
Nitrobenzene	< 0.320	0.641		ug/L	0.149	0.320	01/26/21 13:35	B1A0681	CP1	1
N-Nitrosodimethylamine	< 0.534	1.07		ug/L	0.166	0.534	01/26/21 13:35	B1A0681	CP1	1
N-Nitrosodi-n-propylamine	< 1.07	2.14		ug/L	0.341	1.07	01/26/21 13:35	B1A0681	CP1	1
N-Nitrosodiphenylamine	< 0.320	0.641		ug/L	0.111	0.320	01/26/21 13:35	B1A0681	CP1	1
Pentachlorophenol	< 10.7	32.0		ug/L	2.69	10.7	01/26/21 13:35	B1A0681	CP1	1
Phenanthrene	< 0.534	1.07		ug/L	0.220	0.534	01/26/21 13:35	B1A0681	CP1	1
Phenol	< 0.534	1.07		ug/L	0.182	0.534	01/26/21 13:35	B1A0681	CP1	1
Pyrene	< 0.534	1.07		ug/L	0.222	0.534	01/26/21 13:35	B1A0681	CP1	1
Surrogate: 2-Fluorophenol				Recovery: 40%	Limits: 10-88		01/26/21 13:35	B1A0681	CP1	1
Surrogate: Phenol-d5				Recovery: 32%	Limits: 10-65		01/26/21 13:35	B1A0681	CP1	1
Surrogate: Nitrobenzene-d5				Recovery: 58%	Limits: 25-128		01/26/21 13:35	B1A0681	CP1	1
Surrogate: 2-Fluorobiphenyl				Recovery: 52%	Limits: 24-114		01/26/21 13:35	B1A0681	CP1	1
Surrogate: 2,4,6-Tribromophenol				Recovery: 54%	Limits: 15-119		01/26/21 13:35	B1A0681	CP1	1
Surrogate: 4-Terphenyl-d14				Recovery: 72%	Limits: 29-129		01/26/21 13:35	B1A0681	CP1	1

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500		ug/L	0.0625	0.200	01/25/21 19:46	B1A0755	CP1	1
Surrogate: Toluene-d8				Recovery: 108%	Limits: 80-120		01/25/21 19:46	B1A0755	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-11 Filtered
Report Date: 02/10/2021
Collection Date: 01/19/2021 14:15
Matrix: Groundwater
Lab ID: 21A0717-24

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit										
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.515	1.03			ug/L	0.218	0.515	01/27/21 13:15	B1A0750	CS2	1	
Aroclor 1221	< 0.515	0.618			ug/L	0.197	0.515	01/27/21 13:15	B1A0750	CS2	1	
Aroclor 1232	< 0.515	0.618			ug/L	0.167	0.515	01/27/21 13:15	B1A0750	CS2	1	
Aroclor 1242	< 1.03	2.06			ug/L	0.361	1.03	01/27/21 13:15	B1A0750	CS2	1	
Aroclor 1248	< 0.515	0.618			ug/L	0.165	0.515	01/27/21 13:15	B1A0750	CS2	1	
Aroclor 1254	< 0.515	0.618			ug/L	0.181	0.515	01/27/21 13:15	B1A0750	CS2	1	
Aroclor 1260	< 0.309	0.412			ug/L	0.116	0.309	01/27/21 13:15	B1A0750	CS2	1	
Total PCB	< 0.515	0.618			ug/L	0.197	0.515	01/27/21 13:15	B1A0750	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 85%		Limits: 10-139		01/27/21 13:15	B1A0750	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 56%		Limits: 26-107		01/27/21 13:15	B1A0750	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-12
Report Date: 02/10/2021
Collection Date: 01/18/2021 11:20
Matrix: Groundwater
Lab ID: 21A0717-25

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	1.08	1.00		mg/L	0.400	0.800	01/26/21 05:10	B1A0740	TB2	1
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3510										
Aroclor 1016	< 0.519	1.04		ug/L	0.220	0.519	01/25/21 10:30	B1A0660	CS2	1
Aroclor 1221	< 0.519	0.623		ug/L	0.199	0.519	01/25/21 10:30	B1A0660	CS2	1
Aroclor 1232	< 0.519	0.623		ug/L	0.168	0.519	01/25/21 10:30	B1A0660	CS2	1
Aroclor 1242	< 1.04	2.08		ug/L	0.364	1.04	01/25/21 10:30	B1A0660	CS2	1
Aroclor 1248	< 0.519	0.623		ug/L	0.166	0.519	01/25/21 10:30	B1A0660	CS2	1
Aroclor 1254	< 0.519	0.623		ug/L	0.183	0.519	01/25/21 10:30	B1A0660	CS2	1
Aroclor 1260	< 0.312	0.416		ug/L	0.117	0.312	01/25/21 10:30	B1A0660	CS2	1
Total PCB	< 0.519	0.623		ug/L	0.199	0.519	01/25/21 10:30	B1A0660	CS2	1
Surrogate: Decachlorobiphenyl				Recovery: 83%	Limits: 10-139		01/25/21 10:30	B1A0660	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				Recovery: 52%	Limits: 26-107		01/25/21 10:30	B1A0660	CS2	1
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.706	2.00	01/26/21 18:30	B1A0778	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00		ug/L	0.719	2.00	01/26/21 18:30	B1A0778	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.713	2.00	01/26/21 18:30	B1A0778	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00		ug/L	0.198	0.600	01/26/21 18:30	B1A0778	WZZ	1
1,1-Dichloroethane	< 2.00	4.00		ug/L	0.691	2.00	01/26/21 18:30	B1A0778	WZZ	1
1,1-Dichloroethene	< 4.00	8.00		ug/L	1.10	4.00	01/26/21 18:30	B1A0778	WZZ	1
1,1-Dichloropropene	< 1.00	2.00		ug/L	0.462	1.00	01/26/21 18:30	B1A0778	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00		ug/L	0.199	0.600	01/26/21 18:30	B1A0778	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00		ug/L	0.598	2.00	01/26/21 18:30	B1A0778	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00		ug/L	0.753	2.00	01/26/21 18:30	B1A0778	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00		ug/L	1.22	4.00	01/26/21 18:30	B1A0778	WZZ	1
1,2-Dibromoethane	< 1.00	2.00		ug/L	0.420	1.00	01/26/21 18:30	B1A0778	WZZ	1
1,2-Dichloroethane	< 2.00	4.00		ug/L	0.731	2.00	01/26/21 18:30	B1A0778	WZZ	1
1,2-Dichloropropane	< 2.00	4.00		ug/L	0.557	2.00	01/26/21 18:30	B1A0778	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00		ug/L	0.351	1.00	01/26/21 18:30	B1A0778	WZZ	1
1,3-Dichloropropane	< 1.00	2.00		ug/L	0.345	1.00	01/26/21 18:30	B1A0778	WZZ	1
2,2-Dichloropropane	< 4.00	8.00		ug/L	1.03	4.00	01/26/21 18:30	B1A0778	WZZ	1
2-Butanone	< 14.0	28.0		ug/L	4.79	14.0	01/26/21 18:30	B1A0778	WZZ	1
2-Chlorotoluene	< 1.00	2.00		ug/L	0.384	1.00	01/26/21 18:30	B1A0778	WZZ	1
2-Hexanone	< 14.0	28.0		ug/L	4.74	14.0	01/26/21 18:30	B1A0778	WZZ	1
4-Isopropyltoluene	< 2.00	4.00		ug/L	0.930	2.00	01/26/21 18:30	B1A0778	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0		ug/L	4.40	14.0	01/26/21 18:30	B1A0778	WZZ	1
Acetone	< 28.0	70.0		ug/L	9.21	28.0	01/26/21 18:30	B1A0778	WZZ	1
Benzene	< 1.00	2.00		ug/L	0.362	1.00	01/26/21 18:30	B1A0778	WZZ	1
Bromobenzene	< 1.00	2.00		ug/L	0.354	1.00	01/26/21 18:30	B1A0778	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-12
Report Date: 02/10/2021
Collection Date: 01/18/2021 11:20
Matrix: Groundwater
Lab ID: 21A0717-25 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	01/26/21 18:30	B1A0778	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	01/26/21 18:30	B1A0778	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	01/26/21 18:30	B1A0778	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	01/26/21 18:30	B1A0778	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	01/26/21 18:30	B1A0778	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	01/26/21 18:30	B1A0778	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	01/26/21 18:30	B1A0778	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	01/26/21 18:30	B1A0778	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	01/26/21 18:30	B1A0778	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	01/26/21 18:30	B1A0778	WZZ	1
cis-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.652	2.00	01/26/21 18:30	B1A0778	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	01/26/21 18:30	B1A0778	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	01/26/21 18:30	B1A0778	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	01/26/21 18:30	B1A0778	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	01/26/21 18:30	B1A0778	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	01/26/21 18:30	B1A0778	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	01/26/21 18:30	B1A0778	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	01/26/21 18:30	B1A0778	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	01/26/21 18:30	B1A0778	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	01/26/21 18:30	B1A0778	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	01/26/21 18:30	B1A0778	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	01/26/21 18:30	B1A0778	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	01/26/21 18:30	B1A0778	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	01/26/21 18:30	B1A0778	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	01/26/21 18:30	B1A0778	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 18:30	B1A0778	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	01/26/21 18:30	B1A0778	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	01/26/21 18:30	B1A0778	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	01/26/21 18:30	B1A0778	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	01/26/21 18:30	B1A0778	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 18:30	B1A0778	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	01/26/21 18:30	B1A0778	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	01/26/21 18:30	B1A0778	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	01/26/21 18:30	B1A0778	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	01/26/21 18:30	B1A0778	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 109%</i>	<i>Limits: 84-137</i>		<i>01/26/21 18:30</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 107%</i>	<i>Limits: 74-140</i>		<i>01/26/21 18:30</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 99%</i>	<i>Limits: 90-105</i>		<i>01/26/21 18:30</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 96%</i>	<i>Limits: 74-109</i>		<i>01/26/21 18:30</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 95%</i>	<i>Limits: 86-128</i>		<i>01/26/21 18:30</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 99%</i>	<i>Limits: 90-128</i>		<i>01/26/21 18:30</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-12
Report Date: 02/10/2021
Collection Date: 01/18/2021 11:20
Matrix: Groundwater
Lab ID: 21A0717-25 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Semivolatile Organic Compounds by GC/MS											
Method: SW8270D / SW3510											
1,2,4-Trichlorobenzene	< 1.06	2.12			ug/L	0.297	1.06	01/26/21 09:05	B1A0659	CP1	1
1,2-Dichlorobenzene	< 1.06	2.12			ug/L	0.318	1.06	01/26/21 09:05	B1A0659	CP1	1
1,3-Dichlorobenzene	< 1.06	2.12			ug/L	0.329	1.06	01/26/21 09:05	B1A0659	CP1	1
1,4-Dichlorobenzene	< 1.06	2.12			ug/L	0.297	1.06	01/26/21 09:05	B1A0659	CP1	1
2,4,5-Trichlorophenol	< 0.531	1.06			ug/L	0.137	0.531	01/26/21 09:05	B1A0659	CP1	1
2,4,6-Trichlorophenol	< 0.531	1.06			ug/L	0.259	0.531	01/26/21 09:05	B1A0659	CP1	1
2,4-Dichlorophenol	< 0.531	1.06			ug/L	0.0836	0.531	01/26/21 09:05	B1A0659	CP1	1
2,4-Dimethylphenol	< 1.06	2.12			ug/L	0.125	1.06	01/26/21 09:05	B1A0659	CP1	1
2,4-Dinitrophenol	< 10.6	31.8			ug/L	3.51	10.6	01/26/21 09:05	B1A0659	CP1	1
2,4-Dinitrotoluene	< 1.06	2.12			ug/L	0.267	1.06	01/26/21 09:05	B1A0659	CP1	1
2,6-Dinitrotoluene	< 0.531	1.06			ug/L	0.244	0.531	01/26/21 09:05	B1A0659	CP1	1
2-Chloronaphthalene	< 0.318	0.637			ug/L	0.112	0.318	01/26/21 09:05	B1A0659	CP1	1
2-Chlorophenol	< 0.531	1.06			ug/L	0.163	0.531	01/26/21 09:05	B1A0659	CP1	1
2-Methylnaphthalene	< 2.12	4.25			ug/L	0.679	2.12	01/26/21 09:05	B1A0659	CP1	1
2-Methylphenol	< 0.531	1.06			ug/L	0.194	0.531	01/26/21 09:05	B1A0659	CP1	1
2-Nitroaniline	< 10.6	31.8			ug/L	2.72	10.6	01/26/21 09:05	B1A0659	CP1	1
2-Nitrophenol	< 0.531	1.06			ug/L	0.222	0.531	01/26/21 09:05	B1A0659	CP1	1
3,3'-Dichlorobenzidine	< 10.6	21.2			ug/L	3.36	10.6	01/26/21 09:05	B1A0659	CP1	1
3 & 4-Methylphenol	< 0.531	1.06			ug/L	0.190	0.531	01/26/21 09:05	B1A0659	CP1	1
3-Nitroaniline	< 1.06	2.12			ug/L	0.382	1.06	01/26/21 09:05	B1A0659	CP1	1
4,6-Dinitro-2-methylphenol	< 5.31	15.9			ug/L	2.60	5.31	01/26/21 09:05	B1A0659	CP1	1
4-Bromophenyl-phenylether	< 0.531	1.06			ug/L	0.170	0.531	01/26/21 09:05	B1A0659	CP1	1
4-Chloro-3-methylphenol	< 0.212	0.531			ug/L	0.0757	0.212	01/26/21 09:05	B1A0659	CP1	1
4-Chloroaniline	< 0.318	0.637			ug/L	0.113	0.318	01/26/21 09:05	B1A0659	CP1	1
4-Chlorophenyl-phenylether	< 0.531	1.06			ug/L	0.155	0.531	01/26/21 09:05	B1A0659	CP1	1
4-Nitroaniline	< 10.6	31.8			ug/L	4.00	10.6	01/26/21 09:05	B1A0659	CP1	1
4-Nitrophenol	< 5.31	15.9			ug/L	1.53	5.31	01/26/21 09:05	B1A0659	CP1	1
Acenaphthene	< 0.318	0.637			ug/L	0.110	0.318	01/26/21 09:05	B1A0659	CP1	1
Acenaphthylene	< 0.318	0.637			ug/L	0.138	0.318	01/26/21 09:05	B1A0659	CP1	1
Anthracene	< 0.318	0.637			ug/L	0.118	0.318	01/26/21 09:05	B1A0659	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.318	1.06			ug/L	0.0814	0.318	01/26/21 09:05	B1A0659	CP1	1
Benzidine	< 42.5	84.9			ug/L	17.6	42.5	01/26/21 09:05	B1A0659	CP1	1
Benzo(a)anthracene	< 0.318	0.637			ug/L	0.131	0.318	01/26/21 09:05	B1A0659	CP1	1
Benzo(a)pyrene	< 1.06	2.12			ug/L	0.399	1.06	01/26/21 09:05	B1A0659	CP1	1
Benzo(b)fluoranthene	< 1.06	2.12			ug/L	0.395	1.06	01/26/21 09:05	B1A0659	CP1	1
Benzo(g,h,i)perylene	< 1.06	2.12			ug/L	0.424	1.06	01/26/21 09:05	B1A0659	CP1	1
Benzo(k)fluoranthene	< 0.531	2.12			ug/L	0.264	0.531	01/26/21 09:05	B1A0659	CP1	1
Benzoic acid	< 25.5	42.5	J2		ug/L	12.4	25.5	01/26/21 09:05	B1A0659	CP1	1
Benzyl alcohol	< 2.12	4.25			ug/L	0.584	2.12	01/26/21 09:05	B1A0659	CP1	1
Bis(2-chloroethoxy)methane	< 0.531	1.06			ug/L	0.144	0.531	01/26/21 09:05	B1A0659	CP1	1
Bis(2-chloroethyl)ether	< 0.531	1.06			ug/L	0.187	0.531	01/26/21 09:05	B1A0659	CP1	1
Bis(2-chloroisopropyl)ether	< 0.531	1.06			ug/L	0.136	0.531	01/26/21 09:05	B1A0659	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.6	21.2			ug/L	3.85	10.6	01/26/21 09:05	B1A0659	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-12
Report Date: 02/10/2021
Collection Date: 01/18/2021 11:20
Matrix: Groundwater
Lab ID: 21A0717-25 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS (Continued)										
Method: SW8270D / SW3510 (Continued)										
Butyl benzyl phthalate	< 0.531	1.06		ug/L	0.248	0.531	01/26/21 09:05	B1A0659	CP1	1
Carbazole	< 0.531	1.06		ug/L	0.183	0.531	01/26/21 09:05	B1A0659	CP1	1
Chrysene	< 0.318	0.637		ug/L	0.134	0.318	01/26/21 09:05	B1A0659	CP1	1
Dibenzo(a,h)anthracene	< 1.06	2.12		ug/L	0.469	1.06	01/26/21 09:05	B1A0659	CP1	1
Dibenzofuran	< 0.318	0.637		ug/L	0.130	0.318	01/26/21 09:05	B1A0659	CP1	1
Diethyl phthalate	< 3.18	6.37		ug/L	1.24	3.18	01/26/21 09:05	B1A0659	CP1	1
Dimethyl phthalate	< 0.318	0.637		ug/L	0.0937	0.318	01/26/21 09:05	B1A0659	CP1	1
Di-n-butyl phthalate	< 6.37	10.6		ug/L	3.06	6.37	01/26/21 09:05	B1A0659	CP1	1
Di-n-octyl phthalate	< 5.31	10.6		ug/L	2.00	5.31	01/26/21 09:05	B1A0659	CP1	1
Fluoranthene	< 0.531	1.06		ug/L	0.208	0.531	01/26/21 09:05	B1A0659	CP1	1
Fluorene	< 0.318	0.637		ug/L	0.131	0.318	01/26/21 09:05	B1A0659	CP1	1
Hexachlorobenzene	< 0.531	1.06		ug/L	0.175	0.531	01/26/21 09:05	B1A0659	CP1	1
Hexachlorobutadiene	< 0.531	1.06		ug/L	0.265	0.531	01/26/21 09:05	B1A0659	CP1	1
Hexachlorocyclopentadiene	< 5.31	15.9		ug/L	2.32	5.31	01/26/21 09:05	B1A0659	CP1	1
Hexachloroethane	< 0.531	1.06		ug/L	0.233	0.531	01/26/21 09:05	B1A0659	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.06	2.12		ug/L	0.533	1.06	01/26/21 09:05	B1A0659	CP1	1
Isophorone	< 0.318	0.637		ug/L	0.117	0.318	01/26/21 09:05	B1A0659	CP1	1
Naphthalene	< 2.12	4.25		ug/L	0.866	2.12	01/26/21 09:05	B1A0659	CP1	1
Nitrobenzene	< 0.318	0.637		ug/L	0.148	0.318	01/26/21 09:05	B1A0659	CP1	1
N-Nitrosodimethylamine	< 0.531	1.06		ug/L	0.165	0.531	01/26/21 09:05	B1A0659	CP1	1
N-Nitrosodi-n-propylamine	< 1.06	2.12		ug/L	0.338	1.06	01/26/21 09:05	B1A0659	CP1	1
N-Nitrosodiphenylamine	< 0.318	0.637		ug/L	0.110	0.318	01/26/21 09:05	B1A0659	CP1	1
Pentachlorophenol	< 10.6	31.8		ug/L	2.68	10.6	01/26/21 09:05	B1A0659	CP1	1
Phenanthrene	< 0.531	1.06		ug/L	0.219	0.531	01/26/21 09:05	B1A0659	CP1	1
Phenol	< 0.531	1.06		ug/L	0.181	0.531	01/26/21 09:05	B1A0659	CP1	1
Pyrene	< 0.531	1.06		ug/L	0.221	0.531	01/26/21 09:05	B1A0659	CP1	1
Surrogate: 2-Fluorophenol							01/26/21 09:05	B1A0659	CP1	1
Surrogate: Phenol-d5							01/26/21 09:05	B1A0659	CP1	1
Surrogate: Nitrobenzene-d5							01/26/21 09:05	B1A0659	CP1	1
Surrogate: 2-Fluorobiphenyl							01/26/21 09:05	B1A0659	CP1	1
Surrogate: 2,4,6-Tribromophenol							01/26/21 09:05	B1A0659	CP1	1
Surrogate: 4-Terphenyl-d14							01/26/21 09:05	B1A0659	CP1	1

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500		ug/L	0.0625	0.200	01/25/21 20:11	B1A0755	CP1	1
Surrogate: Toluene-d8							01/25/21 20:11	B1A0755	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-12 Filtered
Report Date: 02/10/2021
Collection Date: 01/18/2021 11:20
Matrix: Groundwater
Lab ID: 21A0717-26

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Limit									
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.517	1.03			ug/L	0.219	0.517	01/25/21 10:49	B1A0660	CS2	1	
Aroclor 1221	< 0.517	0.621			ug/L	0.198	0.517	01/25/21 10:49	B1A0660	CS2	1	
Aroclor 1232	< 0.517	0.621			ug/L	0.168	0.517	01/25/21 10:49	B1A0660	CS2	1	
Aroclor 1242	< 1.03	2.07			ug/L	0.362	1.03	01/25/21 10:49	B1A0660	CS2	1	
Aroclor 1248	< 0.517	0.621			ug/L	0.165	0.517	01/25/21 10:49	B1A0660	CS2	1	
Aroclor 1254	< 0.517	0.621			ug/L	0.182	0.517	01/25/21 10:49	B1A0660	CS2	1	
Aroclor 1260	< 0.310	0.414			ug/L	0.116	0.310	01/25/21 10:49	B1A0660	CS2	1	
Total PCB	< 0.517	0.621			ug/L	0.198	0.517	01/25/21 10:49	B1A0660	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 94%		Limits: 10-139		01/25/21 10:49	B1A0660	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 52%		Limits: 26-107		01/25/21 10:49	B1A0660	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-13
Report Date: 02/10/2021
Collection Date: 01/18/2021 14:55
Matrix: Groundwater
Lab ID: 21A0717-27

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	1.66	1.00		mg/L	0.400	0.800	01/26/21 07:33	B1A0740	TB2	1
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3510										
Aroclor 1016	< 0.508	1.02		ug/L	0.216	0.508	01/25/21 11:24	B1A0660	CS2	1
Aroclor 1221	< 0.508	0.610		ug/L	0.195	0.508	01/25/21 11:24	B1A0660	CS2	1
Aroclor 1232	< 0.508	0.610		ug/L	0.165	0.508	01/25/21 11:24	B1A0660	CS2	1
Aroclor 1242	< 1.02	2.03		ug/L	0.356	1.02	01/25/21 11:24	B1A0660	CS2	1
Aroclor 1248	< 0.508	0.610		ug/L	0.162	0.508	01/25/21 11:24	B1A0660	CS2	1
Aroclor 1254	< 0.508	0.610		ug/L	0.179	0.508	01/25/21 11:24	B1A0660	CS2	1
Aroclor 1260	< 0.305	0.406		ug/L	0.114	0.305	01/25/21 11:24	B1A0660	CS2	1
Total PCB	< 0.508	0.610		ug/L	0.195	0.508	01/25/21 11:24	B1A0660	CS2	1
Surrogate: Decachlorobiphenyl				Recovery: 97%	Limits: 10-139		01/25/21 11:24	B1A0660	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				Recovery: 46%	Limits: 26-107		01/25/21 11:24	B1A0660	CS2	1
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.706	2.00	01/26/21 18:55	B1A0778	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00		ug/L	0.719	2.00	01/26/21 18:55	B1A0778	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.713	2.00	01/26/21 18:55	B1A0778	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00		ug/L	0.198	0.600	01/26/21 18:55	B1A0778	WZZ	1
1,1-Dichloroethane	< 2.00	4.00		ug/L	0.691	2.00	01/26/21 18:55	B1A0778	WZZ	1
1,1-Dichloroethene	< 4.00	8.00		ug/L	1.10	4.00	01/26/21 18:55	B1A0778	WZZ	1
1,1-Dichloropropene	< 1.00	2.00		ug/L	0.462	1.00	01/26/21 18:55	B1A0778	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00		ug/L	0.199	0.600	01/26/21 18:55	B1A0778	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00		ug/L	0.598	2.00	01/26/21 18:55	B1A0778	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00		ug/L	0.753	2.00	01/26/21 18:55	B1A0778	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00		ug/L	1.22	4.00	01/26/21 18:55	B1A0778	WZZ	1
1,2-Dibromoethane	< 1.00	2.00		ug/L	0.420	1.00	01/26/21 18:55	B1A0778	WZZ	1
1,2-Dichloroethane	< 2.00	4.00		ug/L	0.731	2.00	01/26/21 18:55	B1A0778	WZZ	1
1,2-Dichloropropane	< 2.00	4.00		ug/L	0.557	2.00	01/26/21 18:55	B1A0778	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00		ug/L	0.351	1.00	01/26/21 18:55	B1A0778	WZZ	1
1,3-Dichloropropane	< 1.00	2.00		ug/L	0.345	1.00	01/26/21 18:55	B1A0778	WZZ	1
2,2-Dichloropropane	< 4.00	8.00		ug/L	1.03	4.00	01/26/21 18:55	B1A0778	WZZ	1
2-Butanone	< 14.0	28.0		ug/L	4.79	14.0	01/26/21 18:55	B1A0778	WZZ	1
2-Chlorotoluene	< 1.00	2.00		ug/L	0.384	1.00	01/26/21 18:55	B1A0778	WZZ	1
2-Hexanone	< 14.0	28.0		ug/L	4.74	14.0	01/26/21 18:55	B1A0778	WZZ	1
4-Isopropyltoluene	< 2.00	4.00		ug/L	0.930	2.00	01/26/21 18:55	B1A0778	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0		ug/L	4.40	14.0	01/26/21 18:55	B1A0778	WZZ	1
Acetone	< 28.0	70.0		ug/L	9.21	28.0	01/26/21 18:55	B1A0778	WZZ	1
Benzene	< 1.00	2.00		ug/L	0.362	1.00	01/26/21 18:55	B1A0778	WZZ	1
Bromobenzene	< 1.00	2.00		ug/L	0.354	1.00	01/26/21 18:55	B1A0778	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-13
Report Date: 02/10/2021
Collection Date: 01/18/2021 14:55
Matrix: Groundwater
Lab ID: 21A0717-27 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	01/26/21 18:55	B1A0778	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	01/26/21 18:55	B1A0778	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	01/26/21 18:55	B1A0778	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	01/26/21 18:55	B1A0778	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	01/26/21 18:55	B1A0778	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	01/26/21 18:55	B1A0778	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	01/26/21 18:55	B1A0778	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	01/26/21 18:55	B1A0778	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	01/26/21 18:55	B1A0778	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	01/26/21 18:55	B1A0778	WZZ	1
cis-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.652	2.00	01/26/21 18:55	B1A0778	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	01/26/21 18:55	B1A0778	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	01/26/21 18:55	B1A0778	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	01/26/21 18:55	B1A0778	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	01/26/21 18:55	B1A0778	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	01/26/21 18:55	B1A0778	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	01/26/21 18:55	B1A0778	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	01/26/21 18:55	B1A0778	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	01/26/21 18:55	B1A0778	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	01/26/21 18:55	B1A0778	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	01/26/21 18:55	B1A0778	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	01/26/21 18:55	B1A0778	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	01/26/21 18:55	B1A0778	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	01/26/21 18:55	B1A0778	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	01/26/21 18:55	B1A0778	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 18:55	B1A0778	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	01/26/21 18:55	B1A0778	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	01/26/21 18:55	B1A0778	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	01/26/21 18:55	B1A0778	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	01/26/21 18:55	B1A0778	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 18:55	B1A0778	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	01/26/21 18:55	B1A0778	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	01/26/21 18:55	B1A0778	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	01/26/21 18:55	B1A0778	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	01/26/21 18:55	B1A0778	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 108%</i>	<i>Limits: 84-137</i>		<i>01/26/21 18:55</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 102%</i>	<i>Limits: 74-140</i>		<i>01/26/21 18:55</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 99%</i>	<i>Limits: 90-105</i>		<i>01/26/21 18:55</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 97%</i>	<i>Limits: 74-109</i>		<i>01/26/21 18:55</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 103%</i>	<i>Limits: 86-128</i>		<i>01/26/21 18:55</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 101%</i>	<i>Limits: 90-128</i>		<i>01/26/21 18:55</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants**Project:** Milw Die Cast**Work Order:** 21A0717**Client Sample ID:** MW-13**Report Date:** 02/10/2021**Collection Date:** 01/18/2021 14:55**Matrix:** Groundwater**Lab ID:** 21A0717-27 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time		Batch	Analyst	DF
		Limit						Analyzed				
Semivolatile Organic Compounds by GC/MS												
Method: SW8270D / SW3510												
1,2,4-Trichlorobenzene	< 1.02	2.05			ug/L	0.286	1.02	01/26/21	13:56	B1A0659	CP1	1
1,2-Dichlorobenzene	< 1.02	2.05			ug/L	0.307	1.02	01/26/21	13:56	B1A0659	CP1	1
1,3-Dichlorobenzene	< 1.02	2.05			ug/L	0.317	1.02	01/26/21	13:56	B1A0659	CP1	1
1,4-Dichlorobenzene	< 1.02	2.05			ug/L	0.286	1.02	01/26/21	13:56	B1A0659	CP1	1
2,4,5-Trichlorophenol	< 0.511	1.02			ug/L	0.132	0.511	01/26/21	13:56	B1A0659	CP1	1
2,4,6-Trichlorophenol	< 0.511	1.02			ug/L	0.249	0.511	01/26/21	13:56	B1A0659	CP1	1
2,4-Dichlorophenol	< 0.511	1.02			ug/L	0.0806	0.511	01/26/21	13:56	B1A0659	CP1	1
2,4-Dimethylphenol	< 1.02	2.05			ug/L	0.120	1.02	01/26/21	13:56	B1A0659	CP1	1
2,4-Dinitrophenol	< 10.2	30.7			ug/L	3.38	10.2	01/26/21	13:56	B1A0659	CP1	1
2,4-Dinitrotoluene	< 1.02	2.05			ug/L	0.258	1.02	01/26/21	13:56	B1A0659	CP1	1
2,6-Dinitrotoluene	< 0.511	1.02			ug/L	0.235	0.511	01/26/21	13:56	B1A0659	CP1	1
2-Chloronaphthalene	< 0.307	0.614			ug/L	0.108	0.307	01/26/21	13:56	B1A0659	CP1	1
2-Chlorophenol	< 0.511	1.02			ug/L	0.157	0.511	01/26/21	13:56	B1A0659	CP1	1
2-Methylnaphthalene	< 2.05	4.09			ug/L	0.655	2.05	01/26/21	13:56	B1A0659	CP1	1
2-Methylphenol	< 0.511	1.02			ug/L	0.187	0.511	01/26/21	13:56	B1A0659	CP1	1
2-Nitroaniline	< 10.2	30.7			ug/L	2.62	10.2	01/26/21	13:56	B1A0659	CP1	1
2-Nitrophenol	< 0.511	1.02			ug/L	0.214	0.511	01/26/21	13:56	B1A0659	CP1	1
3,3'-Dichlorobenzidine	< 10.2	20.5			ug/L	3.24	10.2	01/26/21	13:56	B1A0659	CP1	1
3 & 4-Methylphenol	< 0.511	1.02			ug/L	0.183	0.511	01/26/21	13:56	B1A0659	CP1	1
3-Nitroaniline	< 1.02	2.05			ug/L	0.368	1.02	01/26/21	13:56	B1A0659	CP1	1
4,6-Dinitro-2-methylphenol	< 5.11	15.3			ug/L	2.51	5.11	01/26/21	13:56	B1A0659	CP1	1
4-Bromophenyl-phenylether	< 0.511	1.02			ug/L	0.164	0.511	01/26/21	13:56	B1A0659	CP1	1
4-Chloro-3-methylphenol	< 0.205	0.511			ug/L	0.0729	0.205	01/26/21	13:56	B1A0659	CP1	1
4-Chloroaniline	< 0.307	0.614			ug/L	0.109	0.307	01/26/21	13:56	B1A0659	CP1	1
4-Chlorophenyl-phenylether	< 0.511	1.02			ug/L	0.149	0.511	01/26/21	13:56	B1A0659	CP1	1
4-Nitroaniline	< 10.2	30.7			ug/L	3.86	10.2	01/26/21	13:56	B1A0659	CP1	1
4-Nitrophenol	< 5.11	15.3			ug/L	1.47	5.11	01/26/21	13:56	B1A0659	CP1	1
Acenaphthene	< 0.307	0.614			ug/L	0.106	0.307	01/26/21	13:56	B1A0659	CP1	1
Acenaphthylene	< 0.307	0.614			ug/L	0.133	0.307	01/26/21	13:56	B1A0659	CP1	1
Anthracene	< 0.307	0.614			ug/L	0.114	0.307	01/26/21	13:56	B1A0659	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.307	1.02			ug/L	0.0784	0.307	01/26/21	13:56	B1A0659	CP1	1
Benzidine	< 40.9	81.8			ug/L	16.9	40.9	01/26/21	13:56	B1A0659	CP1	1
Benzo(a)anthracene	< 0.307	0.614			ug/L	0.126	0.307	01/26/21	13:56	B1A0659	CP1	1
Benzo(a)pyrene	< 1.02	2.05			ug/L	0.384	1.02	01/26/21	13:56	B1A0659	CP1	1
Benzo(b)fluoranthene	< 1.02	2.05			ug/L	0.381	1.02	01/26/21	13:56	B1A0659	CP1	1
Benzo(g,h,i)perylene	< 1.02	2.05			ug/L	0.408	1.02	01/26/21	13:56	B1A0659	CP1	1
Benzo(k)fluoranthene	< 0.511	2.05			ug/L	0.254	0.511	01/26/21	13:56	B1A0659	CP1	1
Benzoic acid	< 24.5	40.9			ug/L	12.0	24.5	01/26/21	13:56	B1A0659	CP1	1
Benzyl alcohol	< 2.05	4.09			ug/L	0.562	2.05	01/26/21	13:56	B1A0659	CP1	1
Bis(2-chloroethoxy)methane	< 0.511	1.02			ug/L	0.138	0.511	01/26/21	13:56	B1A0659	CP1	1
Bis(2-chloroethyl)ether	< 0.511	1.02			ug/L	0.180	0.511	01/26/21	13:56	B1A0659	CP1	1
Bis(2-chloroisopropyl)ether	< 0.511	1.02			ug/L	0.131	0.511	01/26/21	13:56	B1A0659	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.2	20.5			ug/L	3.71	10.2	01/26/21	13:56	B1A0659	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants**Project:** Milw Die Cast**Work Order:** 21A0717**Client Sample ID:** MW-13**Report Date:** 02/10/2021**Collection Date:** 01/18/2021 14:55**Matrix:** Groundwater**Lab ID:** 21A0717-27 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Semivolatile Organic Compounds by GC/MS (Continued)											
Method: SW8270D / SW3510 (Continued)											
Butyl benzyl phthalate	< 0.511	1.02			ug/L	0.239	0.511	01/26/21 13:56	B1A0659	CP1	1
Carbazole	< 0.511	1.02			ug/L	0.177	0.511	01/26/21 13:56	B1A0659	CP1	1
Chrysene	< 0.307	0.614			ug/L	0.130	0.307	01/26/21 13:56	B1A0659	CP1	1
Dibenzo(a,h)anthracene	< 1.02	2.05			ug/L	0.452	1.02	01/26/21 13:56	B1A0659	CP1	1
Dibenzofuran	< 0.307	0.614			ug/L	0.125	0.307	01/26/21 13:56	B1A0659	CP1	1
Diethyl phthalate	< 3.07	6.14			ug/L	1.19	3.07	01/26/21 13:56	B1A0659	CP1	1
Dimethyl phthalate	< 0.307	0.614			ug/L	0.0903	0.307	01/26/21 13:56	B1A0659	CP1	1
Di-n-butyl phthalate	< 6.14	10.2			ug/L	2.95	6.14	01/26/21 13:56	B1A0659	CP1	1
Di-n-octyl phthalate	< 5.11	10.2			ug/L	1.93	5.11	01/26/21 13:56	B1A0659	CP1	1
Fluoranthene	< 0.511	1.02			ug/L	0.201	0.511	01/26/21 13:56	B1A0659	CP1	1
Fluorene	< 0.307	0.614			ug/L	0.127	0.307	01/26/21 13:56	B1A0659	CP1	1
Hexachlorobenzene	< 0.511	1.02			ug/L	0.169	0.511	01/26/21 13:56	B1A0659	CP1	1
Hexachlorobutadiene	< 0.511	1.02			ug/L	0.256	0.511	01/26/21 13:56	B1A0659	CP1	1
Hexachlorocyclopentadiene	< 5.11	15.3			ug/L	2.24	5.11	01/26/21 13:56	B1A0659	CP1	1
Hexachloroethane	< 0.511	1.02			ug/L	0.225	0.511	01/26/21 13:56	B1A0659	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.02	2.05			ug/L	0.514	1.02	01/26/21 13:56	B1A0659	CP1	1
Isophorone	< 0.307	0.614			ug/L	0.113	0.307	01/26/21 13:56	B1A0659	CP1	1
Naphthalene	< 2.05	4.09			ug/L	0.835	2.05	01/26/21 13:56	B1A0659	CP1	1
Nitrobenzene	< 0.307	0.614			ug/L	0.143	0.307	01/26/21 13:56	B1A0659	CP1	1
N-Nitrosodimethylamine	< 0.511	1.02			ug/L	0.159	0.511	01/26/21 13:56	B1A0659	CP1	1
N-Nitrosodi-n-propylamine	< 1.02	2.05			ug/L	0.326	1.02	01/26/21 13:56	B1A0659	CP1	1
N-Nitrosodiphenylamine	< 0.307	0.614			ug/L	0.106	0.307	01/26/21 13:56	B1A0659	CP1	1
Pentachlorophenol	< 10.2	30.7			ug/L	2.58	10.2	01/26/21 13:56	B1A0659	CP1	1
Phenanthrene	< 0.511	1.02			ug/L	0.211	0.511	01/26/21 13:56	B1A0659	CP1	1
Phenol	< 0.511	1.02			ug/L	0.174	0.511	01/26/21 13:56	B1A0659	CP1	1
Pyrene	< 0.511	1.02			ug/L	0.213	0.511	01/26/21 13:56	B1A0659	CP1	1
<i>Surrogate: 2-Fluorophenol</i>					<i>Recovery: 43%</i>	<i>Limits: 10-88</i>		<i>01/26/21 13:56</i>	<i>B1A0659</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Phenol-d5</i>					<i>Recovery: 37%</i>	<i>Limits: 10-65</i>		<i>01/26/21 13:56</i>	<i>B1A0659</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Nitrobenzene-d5</i>					<i>Recovery: 75%</i>	<i>Limits: 25-128</i>		<i>01/26/21 13:56</i>	<i>B1A0659</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2-Fluorobiphenyl</i>					<i>Recovery: 71%</i>	<i>Limits: 24-114</i>		<i>01/26/21 13:56</i>	<i>B1A0659</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>					<i>Recovery: 74%</i>	<i>Limits: 15-119</i>		<i>01/26/21 13:56</i>	<i>B1A0659</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 4-Terphenyl-d14</i>					<i>Recovery: 96%</i>	<i>Limits: 29-129</i>		<i>01/26/21 13:56</i>	<i>B1A0659</i>	<i>CP1</i>	<i>1</i>

Subcontracted Analyses**Method: SW8260-SIM Modified / SW5030**

1,4-Dioxane	< 0.200	0.500			ug/L	0.0625	0.200	01/25/21 20:35	B1A0755	CP1	1
<i>Surrogate: Toluene-d8</i>					<i>Recovery: 118%</i>	<i>Limits: 80-120</i>		<i>01/25/21 20:35</i>	<i>B1A0755</i>	<i>CP1</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-13 Filtered
Report Date: 02/10/2021
Collection Date: 01/18/2021 14:55
Matrix: Groundwater
Lab ID: 21A0717-28

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit										
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.510	1.02			ug/L	0.217	0.510	01/25/21 11:42	B1A0660	CS2	1	
Aroclor 1221	< 0.510	0.612			ug/L	0.195	0.510	01/25/21 11:42	B1A0660	CS2	1	
Aroclor 1232	< 0.510	0.612			ug/L	0.165	0.510	01/25/21 11:42	B1A0660	CS2	1	
Aroclor 1242	< 1.02	2.04			ug/L	0.358	1.02	01/25/21 11:42	B1A0660	CS2	1	
Aroclor 1248	< 0.510	0.612			ug/L	0.163	0.510	01/25/21 11:42	B1A0660	CS2	1	
Aroclor 1254	< 0.510	0.612			ug/L	0.179	0.510	01/25/21 11:42	B1A0660	CS2	1	
Aroclor 1260	< 0.306	0.408			ug/L	0.115	0.306	01/25/21 11:42	B1A0660	CS2	1	
Total PCB	< 0.510	0.612			ug/L	0.195	0.510	01/25/21 11:42	B1A0660	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					<i>Recovery: 101%</i>		<i>Limits: 10-139</i>		<i>01/25/21 11:42</i>	<i>B1A0660</i>	<i>CS2</i>	<i>1</i>
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					<i>Recovery: 50%</i>		<i>Limits: 26-107</i>		<i>01/25/21 11:42</i>	<i>B1A0660</i>	<i>CS2</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-14
Report Date: 02/10/2021
Collection Date: 01/19/2021 08:30
Matrix: Groundwater
Lab ID: 21A0717-29

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	2.04	1.00		mg/L	0.400	0.800	01/26/21 07:58	B1A0740	TB2	1
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3510										
Aroclor 1016	< 0.529	1.06		ug/L	0.224	0.529	01/27/21 13:32	B1A0750	CS2	1
Aroclor 1221	< 0.529	0.635		ug/L	0.203	0.529	01/27/21 13:32	B1A0750	CS2	1
Aroclor 1232	< 0.529	0.635		ug/L	0.171	0.529	01/27/21 13:32	B1A0750	CS2	1
Aroclor 1242	< 1.06	2.12		ug/L	0.371	1.06	01/27/21 13:32	B1A0750	CS2	1
Aroclor 1248	< 0.529	0.635		ug/L	0.169	0.529	01/27/21 13:32	B1A0750	CS2	1
Aroclor 1254	< 0.529	0.635		ug/L	0.186	0.529	01/27/21 13:32	B1A0750	CS2	1
Aroclor 1260	< 0.317	0.423		ug/L	0.119	0.317	01/27/21 13:32	B1A0750	CS2	1
Total PCB	< 0.529	0.635		ug/L	0.203	0.529	01/27/21 13:32	B1A0750	CS2	1
Surrogate: Decachlorobiphenyl				Recovery: 76%	Limits: 10-139		01/27/21 13:32	B1A0750	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				Recovery: 57%	Limits: 26-107		01/27/21 13:32	B1A0750	CS2	1
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.706	2.00	01/26/21 19:21	B1A0778	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00		ug/L	0.719	2.00	01/26/21 19:21	B1A0778	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.713	2.00	01/26/21 19:21	B1A0778	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00		ug/L	0.198	0.600	01/26/21 19:21	B1A0778	WZZ	1
1,1-Dichloroethane	< 2.00	4.00		ug/L	0.691	2.00	01/26/21 19:21	B1A0778	WZZ	1
1,1-Dichloroethene	< 4.00	8.00		ug/L	1.10	4.00	01/26/21 19:21	B1A0778	WZZ	1
1,1-Dichloropropene	< 1.00	2.00		ug/L	0.462	1.00	01/26/21 19:21	B1A0778	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00		ug/L	0.199	0.600	01/26/21 19:21	B1A0778	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00		ug/L	0.598	2.00	01/26/21 19:21	B1A0778	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00		ug/L	0.753	2.00	01/26/21 19:21	B1A0778	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00		ug/L	1.22	4.00	01/26/21 19:21	B1A0778	WZZ	1
1,2-Dibromoethane	< 1.00	2.00		ug/L	0.420	1.00	01/26/21 19:21	B1A0778	WZZ	1
1,2-Dichloroethane	< 2.00	4.00		ug/L	0.731	2.00	01/26/21 19:21	B1A0778	WZZ	1
1,2-Dichloropropane	< 2.00	4.00		ug/L	0.557	2.00	01/26/21 19:21	B1A0778	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00		ug/L	0.351	1.00	01/26/21 19:21	B1A0778	WZZ	1
1,3-Dichloropropane	< 1.00	2.00		ug/L	0.345	1.00	01/26/21 19:21	B1A0778	WZZ	1
2,2-Dichloropropane	< 4.00	8.00		ug/L	1.03	4.00	01/26/21 19:21	B1A0778	WZZ	1
2-Butanone	< 14.0	28.0		ug/L	4.79	14.0	01/26/21 19:21	B1A0778	WZZ	1
2-Chlorotoluene	< 1.00	2.00		ug/L	0.384	1.00	01/26/21 19:21	B1A0778	WZZ	1
2-Hexanone	< 14.0	28.0		ug/L	4.74	14.0	01/26/21 19:21	B1A0778	WZZ	1
4-Isopropyltoluene	< 2.00	4.00		ug/L	0.930	2.00	01/26/21 19:21	B1A0778	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0		ug/L	4.40	14.0	01/26/21 19:21	B1A0778	WZZ	1
Acetone	< 28.0	70.0		ug/L	9.21	28.0	01/26/21 19:21	B1A0778	WZZ	1
Benzene	< 1.00	2.00		ug/L	0.362	1.00	01/26/21 19:21	B1A0778	WZZ	1
Bromobenzene	< 1.00	2.00		ug/L	0.354	1.00	01/26/21 19:21	B1A0778	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-14
Report Date: 02/10/2021
Collection Date: 01/19/2021 08:30
Matrix: Groundwater
Lab ID: 21A0717-29 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	01/26/21 19:21	B1A0778	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	01/26/21 19:21	B1A0778	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	01/26/21 19:21	B1A0778	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	01/26/21 19:21	B1A0778	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	01/26/21 19:21	B1A0778	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	01/26/21 19:21	B1A0778	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	01/26/21 19:21	B1A0778	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	01/26/21 19:21	B1A0778	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	01/26/21 19:21	B1A0778	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	01/26/21 19:21	B1A0778	WZZ	1
cis-1,2-Dichloroethene	20.3	4.00		ug/L	0.652	2.00	01/26/21 19:21	B1A0778	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	01/26/21 19:21	B1A0778	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	01/26/21 19:21	B1A0778	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	01/26/21 19:21	B1A0778	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	01/26/21 19:21	B1A0778	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	01/26/21 19:21	B1A0778	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	01/26/21 19:21	B1A0778	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	01/26/21 19:21	B1A0778	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	01/26/21 19:21	B1A0778	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	01/26/21 19:21	B1A0778	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	01/26/21 19:21	B1A0778	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	01/26/21 19:21	B1A0778	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	01/26/21 19:21	B1A0778	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	01/26/21 19:21	B1A0778	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	01/26/21 19:21	B1A0778	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 19:21	B1A0778	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	01/26/21 19:21	B1A0778	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	01/26/21 19:21	B1A0778	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	01/26/21 19:21	B1A0778	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	01/26/21 19:21	B1A0778	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 19:21	B1A0778	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	01/26/21 19:21	B1A0778	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	01/26/21 19:21	B1A0778	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	01/26/21 19:21	B1A0778	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	01/26/21 19:21	B1A0778	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 109%</i>	<i>Limits: 84-137</i>		<i>01/26/21 19:21</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 104%</i>	<i>Limits: 74-140</i>		<i>01/26/21 19:21</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 101%</i>	<i>Limits: 90-105</i>		<i>01/26/21 19:21</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 97%</i>	<i>Limits: 74-109</i>		<i>01/26/21 19:21</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 105%</i>	<i>Limits: 86-128</i>		<i>01/26/21 19:21</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 98%</i>	<i>Limits: 90-128</i>		<i>01/26/21 19:21</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-14
Report Date: 02/10/2021
Collection Date: 01/19/2021 08:30
Matrix: Groundwater
Lab ID: 21A0717-29 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time	Batch	Analyst	DF
		Limit	Limit					Analyzed			
Semivolatile Organic Compounds by GC/MS											
Method: SW8270D / SW3510											
1,2,4-Trichlorobenzene	< 1.07	2.13			ug/L	0.298	1.07	01/26/21 14:17	B1A0681	CP1	1
1,2-Dichlorobenzene	< 1.07	2.13			ug/L	0.320	1.07	01/26/21 14:17	B1A0681	CP1	1
1,3-Dichlorobenzene	< 1.07	2.13			ug/L	0.330	1.07	01/26/21 14:17	B1A0681	CP1	1
1,4-Dichlorobenzene	< 1.07	2.13			ug/L	0.298	1.07	01/26/21 14:17	B1A0681	CP1	1
2,4,5-Trichlorophenol	< 0.533	1.07			ug/L	0.138	0.533	01/26/21 14:17	B1A0681	CP1	1
2,4,6-Trichlorophenol	< 0.533	1.07			ug/L	0.260	0.533	01/26/21 14:17	B1A0681	CP1	1
2,4-Dichlorophenol	< 0.533	1.07			ug/L	0.0839	0.533	01/26/21 14:17	B1A0681	CP1	1
2,4-Dimethylphenol	< 1.07	2.13			ug/L	0.125	1.07	01/26/21 14:17	B1A0681	CP1	1
2,4-Dinitrophenol	< 10.7	32.0			ug/L	3.53	10.7	01/26/21 14:17	B1A0681	CP1	1
2,4-Dinitrotoluene	< 1.07	2.13			ug/L	0.268	1.07	01/26/21 14:17	B1A0681	CP1	1
2,6-Dinitrotoluene	< 0.533	1.07			ug/L	0.245	0.533	01/26/21 14:17	B1A0681	CP1	1
2-Chloronaphthalene	< 0.320	0.639			ug/L	0.113	0.320	01/26/21 14:17	B1A0681	CP1	1
2-Chlorophenol	< 0.533	1.07			ug/L	0.163	0.533	01/26/21 14:17	B1A0681	CP1	1
2-Methylnaphthalene	< 2.13	4.26			ug/L	0.682	2.13	01/26/21 14:17	B1A0681	CP1	1
2-Methylphenol	< 0.533	1.07			ug/L	0.195	0.533	01/26/21 14:17	B1A0681	CP1	1
2-Nitroaniline	< 10.7	32.0			ug/L	2.73	10.7	01/26/21 14:17	B1A0681	CP1	1
2-Nitrophenol	< 0.533	1.07			ug/L	0.223	0.533	01/26/21 14:17	B1A0681	CP1	1
3,3'-Dichlorobenzidine	< 10.7	21.3			ug/L	3.37	10.7	01/26/21 14:17	B1A0681	CP1	1
3 & 4-Methylphenol	< 0.533	1.07			ug/L	0.191	0.533	01/26/21 14:17	B1A0681	CP1	1
3-Nitroaniline	< 1.07	2.13			ug/L	0.383	1.07	01/26/21 14:17	B1A0681	CP1	1
4,6-Dinitro-2-methylphenol	< 5.33	16.0			ug/L	2.61	5.33	01/26/21 14:17	B1A0681	CP1	1
4-Bromophenyl-phenylether	< 0.533	1.07			ug/L	0.171	0.533	01/26/21 14:17	B1A0681	CP1	1
4-Chloro-3-methylphenol	< 0.213	0.533			ug/L	0.0759	0.213	01/26/21 14:17	B1A0681	CP1	1
4-Chloroaniline	< 0.320	0.639			ug/L	0.114	0.320	01/26/21 14:17	B1A0681	CP1	1
4-Chlorophenyl-phenylether	< 0.533	1.07			ug/L	0.155	0.533	01/26/21 14:17	B1A0681	CP1	1
4-Nitroaniline	< 10.7	32.0			ug/L	4.02	10.7	01/26/21 14:17	B1A0681	CP1	1
4-Nitrophenol	< 5.33	16.0			ug/L	1.53	5.33	01/26/21 14:17	B1A0681	CP1	1
Acenaphthene	< 0.320	0.639			ug/L	0.111	0.320	01/26/21 14:17	B1A0681	CP1	1
Acenaphthylene	< 0.320	0.639			ug/L	0.138	0.320	01/26/21 14:17	B1A0681	CP1	1
Anthracene	< 0.320	0.639			ug/L	0.119	0.320	01/26/21 14:17	B1A0681	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.320	1.07			ug/L	0.0817	0.320	01/26/21 14:17	B1A0681	CP1	1
Benzidine	< 42.6	85.2			ug/L	17.6	42.6	01/26/21 14:17	B1A0681	CP1	1
Benzo(a)anthracene	< 0.320	0.639			ug/L	0.131	0.320	01/26/21 14:17	B1A0681	CP1	1
Benzo(a)pyrene	< 1.07	2.13			ug/L	0.400	1.07	01/26/21 14:17	B1A0681	CP1	1
Benzo(b)fluoranthene	< 1.07	2.13			ug/L	0.397	1.07	01/26/21 14:17	B1A0681	CP1	1
Benzo(g,h,i)perylene	< 1.07	2.13			ug/L	0.425	1.07	01/26/21 14:17	B1A0681	CP1	1
Benzo(k)fluoranthene	< 0.533	2.13			ug/L	0.265	0.533	01/26/21 14:17	B1A0681	CP1	1
Benzoic acid	< 25.6	42.6			ug/L	12.5	25.6	01/26/21 14:17	B1A0681	CP1	1
Benzyl alcohol	< 2.13	4.26			ug/L	0.586	2.13	01/26/21 14:17	B1A0681	CP1	1
Bis(2-chloroethoxy)methane	< 0.533	1.07			ug/L	0.144	0.533	01/26/21 14:17	B1A0681	CP1	1
Bis(2-chloroethyl)ether	< 0.533	1.07			ug/L	0.187	0.533	01/26/21 14:17	B1A0681	CP1	1
Bis(2-chloroisopropyl)ether	< 0.533	1.07			ug/L	0.137	0.533	01/26/21 14:17	B1A0681	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.7	21.3			ug/L	3.87	10.7	01/26/21 14:17	B1A0681	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-14
Report Date: 02/10/2021
Collection Date: 01/19/2021 08:30
Matrix: Groundwater
Lab ID: 21A0717-29 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS (Continued)										
Method: SW8270D / SW3510 (Continued)										
Butyl benzyl phthalate	< 0.533	1.07		ug/L	0.249	0.533	01/26/21 14:17	B1A0681	CP1	1
Carbazole	< 0.533	1.07		ug/L	0.184	0.533	01/26/21 14:17	B1A0681	CP1	1
Chrysene	< 0.320	0.639		ug/L	0.135	0.320	01/26/21 14:17	B1A0681	CP1	1
Dibenzo(a,h)anthracene	< 1.07	2.13		ug/L	0.471	1.07	01/26/21 14:17	B1A0681	CP1	1
Dibenzofuran	< 0.320	0.639		ug/L	0.131	0.320	01/26/21 14:17	B1A0681	CP1	1
Diethyl phthalate	< 3.20	6.39		ug/L	1.24	3.20	01/26/21 14:17	B1A0681	CP1	1
Dimethyl phthalate	< 0.320	0.639		ug/L	0.0940	0.320	01/26/21 14:17	B1A0681	CP1	1
Di-n-butyl phthalate	< 6.39	10.7		ug/L	3.07	6.39	01/26/21 14:17	B1A0681	CP1	1
Di-n-octyl phthalate	< 5.33	10.7		ug/L	2.01	5.33	01/26/21 14:17	B1A0681	CP1	1
Fluoranthene	< 0.533	1.07		ug/L	0.209	0.533	01/26/21 14:17	B1A0681	CP1	1
Fluorene	< 0.320	0.639		ug/L	0.132	0.320	01/26/21 14:17	B1A0681	CP1	1
Hexachlorobenzene	< 0.533	1.07		ug/L	0.176	0.533	01/26/21 14:17	B1A0681	CP1	1
Hexachlorobutadiene	< 0.533	1.07		ug/L	0.266	0.533	01/26/21 14:17	B1A0681	CP1	1
Hexachlorocyclopentadiene	< 5.33	16.0		ug/L	2.33	5.33	01/26/21 14:17	B1A0681	CP1	1
Hexachloroethane	< 0.533	1.07		ug/L	0.234	0.533	01/26/21 14:17	B1A0681	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.07	2.13		ug/L	0.535	1.07	01/26/21 14:17	B1A0681	CP1	1
Isophorone	< 0.320	0.639		ug/L	0.117	0.320	01/26/21 14:17	B1A0681	CP1	1
Naphthalene	< 2.13	4.26		ug/L	0.869	2.13	01/26/21 14:17	B1A0681	CP1	1
Nitrobenzene	< 0.320	0.639		ug/L	0.149	0.320	01/26/21 14:17	B1A0681	CP1	1
N-Nitrosodimethylamine	< 0.533	1.07		ug/L	0.166	0.533	01/26/21 14:17	B1A0681	CP1	1
N-Nitrosodi-n-propylamine	< 1.07	2.13		ug/L	0.340	1.07	01/26/21 14:17	B1A0681	CP1	1
N-Nitrosodiphenylamine	< 0.320	0.639		ug/L	0.111	0.320	01/26/21 14:17	B1A0681	CP1	1
Pentachlorophenol	< 10.7	32.0		ug/L	2.69	10.7	01/26/21 14:17	B1A0681	CP1	1
Phenanthrene	< 0.533	1.07		ug/L	0.219	0.533	01/26/21 14:17	B1A0681	CP1	1
Phenol	< 0.533	1.07		ug/L	0.182	0.533	01/26/21 14:17	B1A0681	CP1	1
Pyrene	< 0.533	1.07		ug/L	0.222	0.533	01/26/21 14:17	B1A0681	CP1	1
Surrogate: 2-Fluorophenol				Recovery: 27%	Limits: 10-88		01/26/21 14:17	B1A0681	CP1	1
Surrogate: Phenol-d5				Recovery: 21%	Limits: 10-65		01/26/21 14:17	B1A0681	CP1	1
Surrogate: Nitrobenzene-d5				Recovery: 52%	Limits: 25-128		01/26/21 14:17	B1A0681	CP1	1
Surrogate: 2-Fluorobiphenyl				Recovery: 48%	Limits: 24-114		01/26/21 14:17	B1A0681	CP1	1
Surrogate: 2,4,6-Tribromophenol				Recovery: 54%	Limits: 15-119		01/26/21 14:17	B1A0681	CP1	1
Surrogate: 4-Terphenyl-d14				Recovery: 84%	Limits: 29-129		01/26/21 14:17	B1A0681	CP1	1

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500		ug/L	0.0625	0.200	01/25/21 21:00	B1A0755	CP1	1
Surrogate: Toluene-d8				S	Recovery: 178%	Limits: 80-120	01/25/21 21:00	B1A0755	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: MW-14 Filtered
Report Date: 02/10/2021
Collection Date: 01/19/2021 08:30
Matrix: Groundwater
Lab ID: 21A0717-30

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual								
Polychlorinated Biphenyls (PCBs) by GC/ECD											
Method: SW8082A / SW3510											
Aroclor 1016	< 0.523	1.05		ug/L	0.222	0.523	01/27/21 13:49	B1A0750	CS2	1	
Aroclor 1221	< 0.523	0.628		ug/L	0.200	0.523	01/27/21 13:49	B1A0750	CS2	1	
Aroclor 1232	< 0.523	0.628		ug/L	0.170	0.523	01/27/21 13:49	B1A0750	CS2	1	
Aroclor 1242	< 1.05	2.09		ug/L	0.367	1.05	01/27/21 13:49	B1A0750	CS2	1	
Aroclor 1248	< 0.523	0.628		ug/L	0.167	0.523	01/27/21 13:49	B1A0750	CS2	1	
Aroclor 1254	< 0.523	0.628		ug/L	0.184	0.523	01/27/21 13:49	B1A0750	CS2	1	
Aroclor 1260	< 0.314	0.419		ug/L	0.117	0.314	01/27/21 13:49	B1A0750	CS2	1	
Total PCB	< 0.523	0.628		ug/L	0.200	0.523	01/27/21 13:49	B1A0750	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>				Recovery: 85%		Limits: 10-139		01/27/21 13:49	B1A0750	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>				Recovery: 56%		Limits: 26-107		01/27/21 13:49	B1A0750	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: PZ-1
Report Date: 02/10/2021
Collection Date: 01/20/2021 15:40
Matrix: Groundwater
Lab ID: 21A0717-31

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	8.57	1.00		mg/L	0.400	0.800	01/26/21 08:26	B1A0740	TB2	1
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3510										
Aroclor 1016	< 0.518	1.04		ug/L	0.220	0.518	01/27/21 16:51	B1A0753	CS2	1
Aroclor 1221	< 0.518	0.621		ug/L	0.198	0.518	01/27/21 16:51	B1A0753	CS2	1
Aroclor 1232	< 0.518	0.621		ug/L	0.168	0.518	01/27/21 16:51	B1A0753	CS2	1
Aroclor 1242	< 1.04	2.07		ug/L	0.363	1.04	01/27/21 16:51	B1A0753	CS2	1
Aroclor 1248	< 0.518	0.621		ug/L	0.166	0.518	01/27/21 16:51	B1A0753	CS2	1
Aroclor 1254	< 0.518	0.621		ug/L	0.182	0.518	01/27/21 16:51	B1A0753	CS2	1
Aroclor 1260	< 0.311	0.414		ug/L	0.116	0.311	01/27/21 16:51	B1A0753	CS2	1
Total PCB	< 0.518	0.621		ug/L	0.198	0.518	01/27/21 16:51	B1A0753	CS2	1
Surrogate: Decachlorobiphenyl				Recovery: 89%	Limits: 10-139		01/27/21 16:51	B1A0753	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				Recovery: 51%	Limits: 26-107		01/27/21 16:51	B1A0753	CS2	1
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.706	2.00	01/26/21 20:37	B1A0778	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00		ug/L	0.719	2.00	01/26/21 20:37	B1A0778	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.713	2.00	01/26/21 20:37	B1A0778	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00		ug/L	0.198	0.600	01/26/21 20:37	B1A0778	WZZ	1
1,1-Dichloroethane	< 2.00	4.00		ug/L	0.691	2.00	01/26/21 20:37	B1A0778	WZZ	1
1,1-Dichloroethene	< 4.00	8.00		ug/L	1.10	4.00	01/26/21 20:37	B1A0778	WZZ	1
1,1-Dichloropropene	< 1.00	2.00		ug/L	0.462	1.00	01/26/21 20:37	B1A0778	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00		ug/L	0.199	0.600	01/26/21 20:37	B1A0778	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00		ug/L	0.598	2.00	01/26/21 20:37	B1A0778	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00		ug/L	0.753	2.00	01/26/21 20:37	B1A0778	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00		ug/L	1.22	4.00	01/26/21 20:37	B1A0778	WZZ	1
1,2-Dibromoethane	< 1.00	2.00		ug/L	0.420	1.00	01/26/21 20:37	B1A0778	WZZ	1
1,2-Dichloroethane	< 2.00	4.00		ug/L	0.731	2.00	01/26/21 20:37	B1A0778	WZZ	1
1,2-Dichloropropane	< 2.00	4.00		ug/L	0.557	2.00	01/26/21 20:37	B1A0778	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00		ug/L	0.351	1.00	01/26/21 20:37	B1A0778	WZZ	1
1,3-Dichloropropane	< 1.00	2.00		ug/L	0.345	1.00	01/26/21 20:37	B1A0778	WZZ	1
2,2-Dichloropropane	< 4.00	8.00		ug/L	1.03	4.00	01/26/21 20:37	B1A0778	WZZ	1
2-Butanone	< 14.0	28.0		ug/L	4.79	14.0	01/26/21 20:37	B1A0778	WZZ	1
2-Chlorotoluene	< 1.00	2.00		ug/L	0.384	1.00	01/26/21 20:37	B1A0778	WZZ	1
2-Hexanone	< 14.0	28.0		ug/L	4.74	14.0	01/26/21 20:37	B1A0778	WZZ	1
4-Isopropyltoluene	< 2.00	4.00		ug/L	0.930	2.00	01/26/21 20:37	B1A0778	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0		ug/L	4.40	14.0	01/26/21 20:37	B1A0778	WZZ	1
Acetone	< 28.0	70.0		ug/L	9.21	28.0	01/26/21 20:37	B1A0778	WZZ	1
Benzene	< 1.00	2.00		ug/L	0.362	1.00	01/26/21 20:37	B1A0778	WZZ	1
Bromobenzene	< 1.00	2.00		ug/L	0.354	1.00	01/26/21 20:37	B1A0778	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: PZ-1
Report Date: 02/10/2021
Collection Date: 01/20/2021 15:40
Matrix: Groundwater
Lab ID: 21A0717-31 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	01/26/21 20:37	B1A0778	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	01/26/21 20:37	B1A0778	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	01/26/21 20:37	B1A0778	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	01/26/21 20:37	B1A0778	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	01/26/21 20:37	B1A0778	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	01/26/21 20:37	B1A0778	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	01/26/21 20:37	B1A0778	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	01/26/21 20:37	B1A0778	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	01/26/21 20:37	B1A0778	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	01/26/21 20:37	B1A0778	WZZ	1
cis-1,2-Dichloroethene	896	40.0		ug/L	6.52	20.0	01/28/21 17:00	B1A0926	WZZ	10
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	01/26/21 20:37	B1A0778	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	01/26/21 20:37	B1A0778	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	01/26/21 20:37	B1A0778	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	01/26/21 20:37	B1A0778	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	01/26/21 20:37	B1A0778	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	01/26/21 20:37	B1A0778	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	01/26/21 20:37	B1A0778	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	01/26/21 20:37	B1A0778	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	01/26/21 20:37	B1A0778	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	01/26/21 20:37	B1A0778	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	01/26/21 20:37	B1A0778	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	01/26/21 20:37	B1A0778	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	01/26/21 20:37	B1A0778	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	01/26/21 20:37	B1A0778	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 20:37	B1A0778	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	01/26/21 20:37	B1A0778	WZZ	1
Tetrachloroethene	192	4.00		ug/L	0.646	2.00	01/26/21 20:37	B1A0778	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	01/26/21 20:37	B1A0778	WZZ	1
trans-1,2-Dichloroethene	4.07	4.00		ug/L	0.566	2.00	01/26/21 20:37	B1A0778	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 20:37	B1A0778	WZZ	1
Trichloroethene	110	4.00		ug/L	0.939	2.00	01/26/21 20:37	B1A0778	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	01/26/21 20:37	B1A0778	WZZ	1
Vinyl chloride	8.32	4.00		ug/L	0.582	2.00	01/26/21 20:37	B1A0778	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	01/26/21 20:37	B1A0778	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 103%</i>	<i>Limits: 84-137</i>		<i>01/26/21 20:37</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 100%</i>	<i>Limits: 74-140</i>		<i>01/26/21 20:37</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 100%</i>	<i>Limits: 90-105</i>		<i>01/26/21 20:37</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 100%</i>	<i>Limits: 74-109</i>		<i>01/26/21 20:37</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 100%</i>	<i>Limits: 86-128</i>		<i>01/26/21 20:37</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 98%</i>	<i>Limits: 90-128</i>		<i>01/26/21 20:37</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: PZ-1
Report Date: 02/10/2021
Collection Date: 01/20/2021 15:40
Matrix: Groundwater
Lab ID: 21A0717-31 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time		Batch	Analyst	DF
		Limit						Analyzed				
Semivolatile Organic Compounds by GC/MS												
Method: SW8270D / SW3510												
1,2,4-Trichlorobenzene	< 1.07	2.13			ug/L	0.299	1.07	01/26/21 16:01		B1A0681	CP1	1
1,2-Dichlorobenzene	< 1.07	2.13			ug/L	0.320	1.07	01/26/21 16:01		B1A0681	CP1	1
1,3-Dichlorobenzene	< 1.07	2.13			ug/L	0.331	1.07	01/26/21 16:01		B1A0681	CP1	1
1,4-Dichlorobenzene	< 1.07	2.13			ug/L	0.299	1.07	01/26/21 16:01		B1A0681	CP1	1
2,4,5-Trichlorophenol	< 0.534	1.07			ug/L	0.138	0.534	01/26/21 16:01		B1A0681	CP1	1
2,4,6-Trichlorophenol	< 0.534	1.07			ug/L	0.260	0.534	01/26/21 16:01		B1A0681	CP1	1
2,4-Dichlorophenol	< 0.534	1.07			ug/L	0.0841	0.534	01/26/21 16:01		B1A0681	CP1	1
2,4-Dimethylphenol	< 1.07	2.13			ug/L	0.125	1.07	01/26/21 16:01		B1A0681	CP1	1
2,4-Dinitrophenol	< 10.7	32.0			ug/L	3.53	10.7	01/26/21 16:01		B1A0681	CP1	1
2,4-Dinitrotoluene	< 1.07	2.13			ug/L	0.269	1.07	01/26/21 16:01		B1A0681	CP1	1
2,6-Dinitrotoluene	< 0.534	1.07			ug/L	0.245	0.534	01/26/21 16:01		B1A0681	CP1	1
2-Chloronaphthalene	< 0.320	0.640			ug/L	0.113	0.320	01/26/21 16:01		B1A0681	CP1	1
2-Chlorophenol	< 0.534	1.07			ug/L	0.164	0.534	01/26/21 16:01		B1A0681	CP1	1
2-Methylnaphthalene	< 2.13	4.27			ug/L	0.683	2.13	01/26/21 16:01		B1A0681	CP1	1
2-Methylphenol	< 0.534	1.07			ug/L	0.195	0.534	01/26/21 16:01		B1A0681	CP1	1
2-Nitroaniline	< 10.7	32.0			ug/L	2.73	10.7	01/26/21 16:01		B1A0681	CP1	1
2-Nitrophenol	< 0.534	1.07			ug/L	0.223	0.534	01/26/21 16:01		B1A0681	CP1	1
3,3'-Dichlorobenzidine	< 10.7	21.3			ug/L	3.38	10.7	01/26/21 16:01		B1A0681	CP1	1
3 & 4-Methylphenol	< 0.534	1.07			ug/L	0.191	0.534	01/26/21 16:01		B1A0681	CP1	1
3-Nitroaniline	< 1.07	2.13			ug/L	0.384	1.07	01/26/21 16:01		B1A0681	CP1	1
4,6-Dinitro-2-methylphenol	< 5.34	16.0			ug/L	2.62	5.34	01/26/21 16:01		B1A0681	CP1	1
4-Bromophenyl-phenylether	< 0.534	1.07			ug/L	0.171	0.534	01/26/21 16:01		B1A0681	CP1	1
4-Chloro-3-methylphenol	< 0.213	0.534			ug/L	0.0761	0.213	01/26/21 16:01		B1A0681	CP1	1
4-Chloroaniline	< 0.320	0.640			ug/L	0.114	0.320	01/26/21 16:01		B1A0681	CP1	1
4-Chlorophenyl-phenylether	< 0.534	1.07			ug/L	0.155	0.534	01/26/21 16:01		B1A0681	CP1	1
4-Nitroaniline	< 10.7	32.0			ug/L	4.03	10.7	01/26/21 16:01		B1A0681	CP1	1
4-Nitrophenol	< 5.34	16.0			ug/L	1.53	5.34	01/26/21 16:01		B1A0681	CP1	1
Acenaphthene	< 0.320	0.640			ug/L	0.111	0.320	01/26/21 16:01		B1A0681	CP1	1
Acenaphthylene	< 0.320	0.640			ug/L	0.139	0.320	01/26/21 16:01		B1A0681	CP1	1
Anthracene	< 0.320	0.640			ug/L	0.119	0.320	01/26/21 16:01		B1A0681	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.320	1.07			ug/L	0.0818	0.320	01/26/21 16:01		B1A0681	CP1	1
Benzidine	< 42.7	85.4			ug/L	17.7	42.7	01/26/21 16:01		B1A0681	CP1	1
Benzo(a)anthracene	< 0.320	0.640			ug/L	0.132	0.320	01/26/21 16:01		B1A0681	CP1	1
Benzo(a)pyrene	< 1.07	2.13			ug/L	0.401	1.07	01/26/21 16:01		B1A0681	CP1	1
Benzo(b)fluoranthene	< 1.07	2.13			ug/L	0.397	1.07	01/26/21 16:01		B1A0681	CP1	1
Benzo(g,h,i)perylene	< 1.07	2.13			ug/L	0.426	1.07	01/26/21 16:01		B1A0681	CP1	1
Benzo(k)fluoranthene	< 0.534	2.13			ug/L	0.265	0.534	01/26/21 16:01		B1A0681	CP1	1
Benzoic acid	< 25.6	42.7			ug/L	12.5	25.6	01/26/21 16:01		B1A0681	CP1	1
Benzyl alcohol	< 2.13	4.27			ug/L	0.587	2.13	01/26/21 16:01		B1A0681	CP1	1
Bis(2-chloroethoxy)methane	< 0.534	1.07			ug/L	0.144	0.534	01/26/21 16:01		B1A0681	CP1	1
Bis(2-chloroethyl)ether	< 0.534	1.07			ug/L	0.188	0.534	01/26/21 16:01		B1A0681	CP1	1
Bis(2-chloroisopropyl)ether	< 0.534	1.07			ug/L	0.137	0.534	01/26/21 16:01		B1A0681	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.7	21.3			ug/L	3.87	10.7	01/26/21 16:01		B1A0681	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: PZ-1
Report Date: 02/10/2021
Collection Date: 01/20/2021 15:40
Matrix: Groundwater
Lab ID: 21A0717-31 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Semivolatile Organic Compounds by GC/MS (Continued)											
Method: SW8270D / SW3510 (Continued)											
Butyl benzyl phthalate	< 0.534	1.07			ug/L	0.250	0.534	01/26/21 16:01	B1A0681	CP1	1
Carbazole	< 0.534	1.07			ug/L	0.184	0.534	01/26/21 16:01	B1A0681	CP1	1
Chrysene	< 0.320	0.640			ug/L	0.135	0.320	01/26/21 16:01	B1A0681	CP1	1
Dibenzo(a,h)anthracene	< 1.07	2.13			ug/L	0.471	1.07	01/26/21 16:01	B1A0681	CP1	1
Dibenzofuran	< 0.320	0.640			ug/L	0.131	0.320	01/26/21 16:01	B1A0681	CP1	1
Diethyl phthalate	< 3.20	6.40			ug/L	1.24	3.20	01/26/21 16:01	B1A0681	CP1	1
Dimethyl phthalate	< 0.320	0.640			ug/L	0.0942	0.320	01/26/21 16:01	B1A0681	CP1	1
Di-n-butyl phthalate	< 6.40	10.7			ug/L	3.07	6.40	01/26/21 16:01	B1A0681	CP1	1
Di-n-octyl phthalate	< 5.34	10.7			ug/L	2.02	5.34	01/26/21 16:01	B1A0681	CP1	1
Fluoranthene	< 0.534	1.07			ug/L	0.210	0.534	01/26/21 16:01	B1A0681	CP1	1
Fluorene	< 0.320	0.640			ug/L	0.132	0.320	01/26/21 16:01	B1A0681	CP1	1
Hexachlorobenzene	< 0.534	1.07			ug/L	0.176	0.534	01/26/21 16:01	B1A0681	CP1	1
Hexachlorobutadiene	< 0.534	1.07			ug/L	0.267	0.534	01/26/21 16:01	B1A0681	CP1	1
Hexachlorocyclopentadiene	< 5.34	16.0			ug/L	2.33	5.34	01/26/21 16:01	B1A0681	CP1	1
Hexachloroethane	< 0.534	1.07			ug/L	0.235	0.534	01/26/21 16:01	B1A0681	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.07	2.13			ug/L	0.536	1.07	01/26/21 16:01	B1A0681	CP1	1
Isophorone	< 0.320	0.640			ug/L	0.118	0.320	01/26/21 16:01	B1A0681	CP1	1
Naphthalene	< 2.13	4.27			ug/L	0.871	2.13	01/26/21 16:01	B1A0681	CP1	1
Nitrobenzene	< 0.320	0.640			ug/L	0.149	0.320	01/26/21 16:01	B1A0681	CP1	1
N-Nitrosodimethylamine	< 0.534	1.07			ug/L	0.166	0.534	01/26/21 16:01	B1A0681	CP1	1
N-Nitrosodi-n-propylamine	< 1.07	2.13			ug/L	0.340	1.07	01/26/21 16:01	B1A0681	CP1	1
N-Nitrosodiphenylamine	< 0.320	0.640			ug/L	0.111	0.320	01/26/21 16:01	B1A0681	CP1	1
Pentachlorophenol	< 10.7	32.0			ug/L	2.69	10.7	01/26/21 16:01	B1A0681	CP1	1
Phenanthrene	< 0.534	1.07			ug/L	0.220	0.534	01/26/21 16:01	B1A0681	CP1	1
Phenol	< 0.534	1.07			ug/L	0.182	0.534	01/26/21 16:01	B1A0681	CP1	1
Pyrene	< 0.534	1.07			ug/L	0.222	0.534	01/26/21 16:01	B1A0681	CP1	1
<i>Surrogate: 2-Fluorophenol</i>					<i>Recovery: 41%</i>	<i>Limits: 10-88</i>		<i>01/26/21 16:01</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Phenol-d5</i>					<i>Recovery: 32%</i>	<i>Limits: 10-65</i>		<i>01/26/21 16:01</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Nitrobenzene-d5</i>					<i>Recovery: 66%</i>	<i>Limits: 25-128</i>		<i>01/26/21 16:01</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2-Fluorobiphenyl</i>					<i>Recovery: 57%</i>	<i>Limits: 24-114</i>		<i>01/26/21 16:01</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>					<i>Recovery: 61%</i>	<i>Limits: 15-119</i>		<i>01/26/21 16:01</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 4-Terphenyl-d14</i>					<i>Recovery: 78%</i>	<i>Limits: 29-129</i>		<i>01/26/21 16:01</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>

Subcontracted Analyses**Method: SW8260-SIM Modified / SW5030**

1,4-Dioxane	< 0.200	0.500			ug/L	0.0625	0.200	01/25/21 21:24	B1A0755	CP1	1
<i>Surrogate: Toluene-d8</i>					<i>Recovery: 112%</i>	<i>Limits: 80-120</i>		<i>01/25/21 21:24</i>	<i>B1A0755</i>	<i>CP1</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: PZ-1 Filtered
Report Date: 02/10/2021
Collection Date: 01/20/2021 15:40
Matrix: Groundwater
Lab ID: 21A0717-32

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Limit									
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.528	1.06			ug/L	0.224	0.528	01/27/21 17:08	B1A0753	CS2	1	
Aroclor 1221	< 0.528	0.634			ug/L	0.202	0.528	01/27/21 17:08	B1A0753	CS2	1	
Aroclor 1232	< 0.528	0.634			ug/L	0.171	0.528	01/27/21 17:08	B1A0753	CS2	1	
Aroclor 1242	< 1.06	2.11			ug/L	0.370	1.06	01/27/21 17:08	B1A0753	CS2	1	
Aroclor 1248	< 0.528	0.634			ug/L	0.169	0.528	01/27/21 17:08	B1A0753	CS2	1	
Aroclor 1254	< 0.528	0.634			ug/L	0.186	0.528	01/27/21 17:08	B1A0753	CS2	1	
Aroclor 1260	< 0.317	0.423			ug/L	0.119	0.317	01/27/21 17:08	B1A0753	CS2	1	
Total PCB	< 0.528	0.634			ug/L	0.202	0.528	01/27/21 17:08	B1A0753	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 83%		Limits: 10-139		01/27/21 17:08	B1A0753	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 51%		Limits: 26-107		01/27/21 17:08	B1A0753	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: PZ-1 DUP
Report Date: 02/10/2021
Collection Date: 01/20/2021 15:40
Matrix: Groundwater
Lab ID: 21A0717-33

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	9.04	1.00		mg/L	0.400	0.800	01/26/21 08:56	B1A0740	TB2	1
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3510										
Aroclor 1016	< 0.525	1.05		ug/L	0.223	0.525	01/27/21 17:25	B1A0753	CS2	1
Aroclor 1221	< 0.525	0.630		ug/L	0.201	0.525	01/27/21 17:25	B1A0753	CS2	1
Aroclor 1232	< 0.525	0.630		ug/L	0.170	0.525	01/27/21 17:25	B1A0753	CS2	1
Aroclor 1242	< 1.05	2.10		ug/L	0.368	1.05	01/27/21 17:25	B1A0753	CS2	1
Aroclor 1248	< 0.525	0.630		ug/L	0.168	0.525	01/27/21 17:25	B1A0753	CS2	1
Aroclor 1254	< 0.525	0.630		ug/L	0.185	0.525	01/27/21 17:25	B1A0753	CS2	1
Aroclor 1260	< 0.315	0.420		ug/L	0.118	0.315	01/27/21 17:25	B1A0753	CS2	1
Total PCB	< 0.525	0.630		ug/L	0.201	0.525	01/27/21 17:25	B1A0753	CS2	1
Surrogate: Decachlorobiphenyl				Recovery: 79%	Limits: 10-139		01/27/21 17:25	B1A0753	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				Recovery: 55%	Limits: 26-107		01/27/21 17:25	B1A0753	CS2	1
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.706	2.00	01/26/21 21:03	B1A0778	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00		ug/L	0.719	2.00	01/26/21 21:03	B1A0778	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.713	2.00	01/26/21 21:03	B1A0778	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00		ug/L	0.198	0.600	01/26/21 21:03	B1A0778	WZZ	1
1,1-Dichloroethane	< 2.00	4.00		ug/L	0.691	2.00	01/26/21 21:03	B1A0778	WZZ	1
1,1-Dichloroethene	< 4.00	8.00		ug/L	1.10	4.00	01/26/21 21:03	B1A0778	WZZ	1
1,1-Dichloropropene	< 1.00	2.00		ug/L	0.462	1.00	01/26/21 21:03	B1A0778	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00		ug/L	0.199	0.600	01/26/21 21:03	B1A0778	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00		ug/L	0.598	2.00	01/26/21 21:03	B1A0778	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00		ug/L	0.753	2.00	01/26/21 21:03	B1A0778	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00		ug/L	1.22	4.00	01/26/21 21:03	B1A0778	WZZ	1
1,2-Dibromoethane	< 1.00	2.00		ug/L	0.420	1.00	01/26/21 21:03	B1A0778	WZZ	1
1,2-Dichloroethane	< 2.00	4.00		ug/L	0.731	2.00	01/26/21 21:03	B1A0778	WZZ	1
1,2-Dichloropropane	< 2.00	4.00		ug/L	0.557	2.00	01/26/21 21:03	B1A0778	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00		ug/L	0.351	1.00	01/26/21 21:03	B1A0778	WZZ	1
1,3-Dichloropropane	< 1.00	2.00		ug/L	0.345	1.00	01/26/21 21:03	B1A0778	WZZ	1
2,2-Dichloropropane	< 4.00	8.00		ug/L	1.03	4.00	01/26/21 21:03	B1A0778	WZZ	1
2-Butanone	< 14.0	28.0		ug/L	4.79	14.0	01/26/21 21:03	B1A0778	WZZ	1
2-Chlorotoluene	< 1.00	2.00		ug/L	0.384	1.00	01/26/21 21:03	B1A0778	WZZ	1
2-Hexanone	< 14.0	28.0		ug/L	4.74	14.0	01/26/21 21:03	B1A0778	WZZ	1
4-Isopropyltoluene	< 2.00	4.00		ug/L	0.930	2.00	01/26/21 21:03	B1A0778	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0		ug/L	4.40	14.0	01/26/21 21:03	B1A0778	WZZ	1
Acetone	< 28.0	70.0		ug/L	9.21	28.0	01/26/21 21:03	B1A0778	WZZ	1
Benzene	< 1.00	2.00		ug/L	0.362	1.00	01/26/21 21:03	B1A0778	WZZ	1
Bromobenzene	< 1.00	2.00		ug/L	0.354	1.00	01/26/21 21:03	B1A0778	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: PZ-1 DUP
Report Date: 02/10/2021
Collection Date: 01/20/2021 15:40
Matrix: Groundwater
Lab ID: 21A0717-33 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	01/26/21 21:03	B1A0778	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	01/26/21 21:03	B1A0778	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	01/26/21 21:03	B1A0778	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	01/26/21 21:03	B1A0778	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	01/26/21 21:03	B1A0778	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	01/26/21 21:03	B1A0778	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	01/26/21 21:03	B1A0778	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	01/26/21 21:03	B1A0778	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	01/26/21 21:03	B1A0778	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	01/26/21 21:03	B1A0778	WZZ	1
cis-1,2-Dichloroethene	837	40.0		ug/L	6.52	20.0	01/28/21 17:29	B1A0926	WZZ	10
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	01/26/21 21:03	B1A0778	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	01/26/21 21:03	B1A0778	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	01/26/21 21:03	B1A0778	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	01/26/21 21:03	B1A0778	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	01/26/21 21:03	B1A0778	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	01/26/21 21:03	B1A0778	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	01/26/21 21:03	B1A0778	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	01/26/21 21:03	B1A0778	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	01/26/21 21:03	B1A0778	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	01/26/21 21:03	B1A0778	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	01/26/21 21:03	B1A0778	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	01/26/21 21:03	B1A0778	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	01/26/21 21:03	B1A0778	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	01/26/21 21:03	B1A0778	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 21:03	B1A0778	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	01/26/21 21:03	B1A0778	WZZ	1
Tetrachloroethene	188	4.00		ug/L	0.646	2.00	01/26/21 21:03	B1A0778	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	01/26/21 21:03	B1A0778	WZZ	1
trans-1,2-Dichloroethene	4.29	4.00		ug/L	0.566	2.00	01/26/21 21:03	B1A0778	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 21:03	B1A0778	WZZ	1
Trichloroethene	108	4.00		ug/L	0.939	2.00	01/26/21 21:03	B1A0778	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	01/26/21 21:03	B1A0778	WZZ	1
Vinyl chloride	8.27	4.00		ug/L	0.582	2.00	01/26/21 21:03	B1A0778	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	01/26/21 21:03	B1A0778	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 108%</i>	<i>Limits: 84-137</i>		<i>01/26/21 21:03</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 102%</i>	<i>Limits: 74-140</i>		<i>01/26/21 21:03</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 99%</i>	<i>Limits: 90-105</i>		<i>01/26/21 21:03</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 96%</i>	<i>Limits: 74-109</i>		<i>01/26/21 21:03</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 106%</i>	<i>Limits: 86-128</i>		<i>01/26/21 21:03</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 105%</i>	<i>Limits: 90-128</i>		<i>01/26/21 21:03</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants**Project:** Milw Die Cast**Work Order:** 21A0717**Client Sample ID:** PZ-1 DUP**Report Date:** 02/10/2021**Collection Date:** 01/20/2021 15:40**Matrix:** Groundwater**Lab ID:** 21A0717-33 (Continued)

Analyses	Result	EMT		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Reporting Limit	Qual							
Semivolatile Organic Compounds by GC/MS										
Method: SW8270D / SW3510										
1,2,4-Trichlorobenzene	< 1.06	2.12		ug/L	0.296	1.06	01/26/21 16:21	B1A0681	CP1	1
1,2-Dichlorobenzene	< 1.06	2.12		ug/L	0.318	1.06	01/26/21 16:21	B1A0681	CP1	1
1,3-Dichlorobenzene	< 1.06	2.12		ug/L	0.328	1.06	01/26/21 16:21	B1A0681	CP1	1
1,4-Dichlorobenzene	< 1.06	2.12		ug/L	0.296	1.06	01/26/21 16:21	B1A0681	CP1	1
2,4,5-Trichlorophenol	< 0.529	1.06		ug/L	0.137	0.529	01/26/21 16:21	B1A0681	CP1	1
2,4,6-Trichlorophenol	< 0.529	1.06		ug/L	0.258	0.529	01/26/21 16:21	B1A0681	CP1	1
2,4-Dichlorophenol	< 0.529	1.06		ug/L	0.0834	0.529	01/26/21 16:21	B1A0681	CP1	1
2,4-Dimethylphenol	< 1.06	2.12		ug/L	0.124	1.06	01/26/21 16:21	B1A0681	CP1	1
2,4-Dinitrophenol	< 10.6	31.8		ug/L	3.50	10.6	01/26/21 16:21	B1A0681	CP1	1
2,4-Dinitrotoluene	< 1.06	2.12		ug/L	0.267	1.06	01/26/21 16:21	B1A0681	CP1	1
2,6-Dinitrotoluene	< 0.529	1.06		ug/L	0.243	0.529	01/26/21 16:21	B1A0681	CP1	1
2-Chloronaphthalene	< 0.318	0.635		ug/L	0.112	0.318	01/26/21 16:21	B1A0681	CP1	1
2-Chlorophenol	< 0.529	1.06		ug/L	0.162	0.529	01/26/21 16:21	B1A0681	CP1	1
2-Methylnaphthalene	< 2.12	4.23		ug/L	0.677	2.12	01/26/21 16:21	B1A0681	CP1	1
2-Methylphenol	< 0.529	1.06		ug/L	0.194	0.529	01/26/21 16:21	B1A0681	CP1	1
2-Nitroaniline	< 10.6	31.8		ug/L	2.71	10.6	01/26/21 16:21	B1A0681	CP1	1
2-Nitrophenol	< 0.529	1.06		ug/L	0.222	0.529	01/26/21 16:21	B1A0681	CP1	1
3,3'-Dichlorobenzidine	< 10.6	21.2		ug/L	3.35	10.6	01/26/21 16:21	B1A0681	CP1	1
3 & 4-Methylphenol	< 0.529	1.06		ug/L	0.190	0.529	01/26/21 16:21	B1A0681	CP1	1
3-Nitroaniline	< 1.06	2.12		ug/L	0.381	1.06	01/26/21 16:21	B1A0681	CP1	1
4,6-Dinitro-2-methylphenol	< 5.29	15.9		ug/L	2.59	5.29	01/26/21 16:21	B1A0681	CP1	1
4-Bromophenyl-phenylether	< 0.529	1.06		ug/L	0.169	0.529	01/26/21 16:21	B1A0681	CP1	1
4-Chloro-3-methylphenol	< 0.212	0.529		ug/L	0.0755	0.212	01/26/21 16:21	B1A0681	CP1	1
4-Chloroaniline	< 0.318	0.635		ug/L	0.113	0.318	01/26/21 16:21	B1A0681	CP1	1
4-Chlorophenyl-phenylether	< 0.529	1.06		ug/L	0.154	0.529	01/26/21 16:21	B1A0681	CP1	1
4-Nitroaniline	< 10.6	31.8		ug/L	3.99	10.6	01/26/21 16:21	B1A0681	CP1	1
4-Nitrophenol	< 5.29	15.9		ug/L	1.52	5.29	01/26/21 16:21	B1A0681	CP1	1
Acenaphthene	< 0.318	0.635		ug/L	0.110	0.318	01/26/21 16:21	B1A0681	CP1	1
Acenaphthylene	< 0.318	0.635		ug/L	0.138	0.318	01/26/21 16:21	B1A0681	CP1	1
Anthracene	< 0.318	0.635		ug/L	0.118	0.318	01/26/21 16:21	B1A0681	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.318	1.06		ug/L	0.0812	0.318	01/26/21 16:21	B1A0681	CP1	1
Benzidine	< 42.3	84.7		ug/L	17.5	42.3	01/26/21 16:21	B1A0681	CP1	1
Benzo(a)anthracene	0.222	0.635	J	ug/L	0.131	0.318	01/26/21 16:21	B1A0681	CP1	1
Benzo(a)pyrene	< 1.06	2.12		ug/L	0.398	1.06	01/26/21 16:21	B1A0681	CP1	1
Benzo(b)fluoranthene	< 1.06	2.12		ug/L	0.394	1.06	01/26/21 16:21	B1A0681	CP1	1
Benzo(g,h,i)perylene	< 1.06	2.12		ug/L	0.423	1.06	01/26/21 16:21	B1A0681	CP1	1
Benzo(k)fluoranthene	< 0.529	2.12		ug/L	0.263	0.529	01/26/21 16:21	B1A0681	CP1	1
Benzoic acid	< 25.4	42.3		ug/L	12.4	25.4	01/26/21 16:21	B1A0681	CP1	1
Benzyl alcohol	< 2.12	4.23		ug/L	0.582	2.12	01/26/21 16:21	B1A0681	CP1	1
Bis(2-chloroethoxy)methane	< 0.529	1.06		ug/L	0.143	0.529	01/26/21 16:21	B1A0681	CP1	1
Bis(2-chloroethyl)ether	< 0.529	1.06		ug/L	0.186	0.529	01/26/21 16:21	B1A0681	CP1	1
Bis(2-chloroisopropyl)ether	< 0.529	1.06		ug/L	0.136	0.529	01/26/21 16:21	B1A0681	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.6	21.2		ug/L	3.84	10.6	01/26/21 16:21	B1A0681	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: PZ-1 DUP
Report Date: 02/10/2021
Collection Date: 01/20/2021 15:40
Matrix: Groundwater
Lab ID: 21A0717-33 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Semivolatile Organic Compounds by GC/MS (Continued)											
Method: SW8270D / SW3510 (Continued)											
Butyl benzyl phthalate	< 0.529	1.06			ug/L	0.248	0.529	01/26/21 16:21	B1A0681	CP1	1
Carbazole	< 0.529	1.06			ug/L	0.183	0.529	01/26/21 16:21	B1A0681	CP1	1
Chrysene	0.159	0.635	J		ug/L	0.134	0.318	01/26/21 16:21	B1A0681	CP1	1
Dibenzo(a,h)anthracene	< 1.06	2.12			ug/L	0.468	1.06	01/26/21 16:21	B1A0681	CP1	1
Dibenzofuran	< 0.318	0.635			ug/L	0.130	0.318	01/26/21 16:21	B1A0681	CP1	1
Diethyl phthalate	< 3.18	6.35			ug/L	1.23	3.18	01/26/21 16:21	B1A0681	CP1	1
Dimethyl phthalate	< 0.318	0.635			ug/L	0.0935	0.318	01/26/21 16:21	B1A0681	CP1	1
Di-n-butyl phthalate	< 6.35	10.6			ug/L	3.05	6.35	01/26/21 16:21	B1A0681	CP1	1
Di-n-octyl phthalate	< 5.29	10.6			ug/L	2.00	5.29	01/26/21 16:21	B1A0681	CP1	1
Fluoranthene	< 0.529	1.06			ug/L	0.208	0.529	01/26/21 16:21	B1A0681	CP1	1
Fluorene	< 0.318	0.635			ug/L	0.131	0.318	01/26/21 16:21	B1A0681	CP1	1
Hexachlorobenzene	< 0.529	1.06			ug/L	0.175	0.529	01/26/21 16:21	B1A0681	CP1	1
Hexachlorobutadiene	< 0.529	1.06			ug/L	0.265	0.529	01/26/21 16:21	B1A0681	CP1	1
Hexachlorocyclopentadiene	< 5.29	15.9			ug/L	2.31	5.29	01/26/21 16:21	B1A0681	CP1	1
Hexachloroethane	< 0.529	1.06			ug/L	0.233	0.529	01/26/21 16:21	B1A0681	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.06	2.12			ug/L	0.532	1.06	01/26/21 16:21	B1A0681	CP1	1
Isophorone	< 0.318	0.635			ug/L	0.117	0.318	01/26/21 16:21	B1A0681	CP1	1
Naphthalene	< 2.12	4.23			ug/L	0.864	2.12	01/26/21 16:21	B1A0681	CP1	1
Nitrobenzene	< 0.318	0.635			ug/L	0.148	0.318	01/26/21 16:21	B1A0681	CP1	1
N-Nitrosodimethylamine	< 0.529	1.06			ug/L	0.165	0.529	01/26/21 16:21	B1A0681	CP1	1
N-Nitrosodi-n-propylamine	< 1.06	2.12			ug/L	0.338	1.06	01/26/21 16:21	B1A0681	CP1	1
N-Nitrosodiphenylamine	< 0.318	0.635			ug/L	0.110	0.318	01/26/21 16:21	B1A0681	CP1	1
Pentachlorophenol	< 10.6	31.8			ug/L	2.67	10.6	01/26/21 16:21	B1A0681	CP1	1
Phenanthrene	< 0.529	1.06			ug/L	0.218	0.529	01/26/21 16:21	B1A0681	CP1	1
Phenol	< 0.529	1.06			ug/L	0.181	0.529	01/26/21 16:21	B1A0681	CP1	1
Pyrene	< 0.529	1.06			ug/L	0.220	0.529	01/26/21 16:21	B1A0681	CP1	1
<i>Surrogate: 2-Fluorophenol</i>					<i>Recovery: 46%</i>	<i>Limits: 10-88</i>		<i>01/26/21 16:21</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Phenol-d5</i>					<i>Recovery: 36%</i>	<i>Limits: 10-65</i>		<i>01/26/21 16:21</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Nitrobenzene-d5</i>					<i>Recovery: 71%</i>	<i>Limits: 25-128</i>		<i>01/26/21 16:21</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2-Fluorobiphenyl</i>					<i>Recovery: 60%</i>	<i>Limits: 24-114</i>		<i>01/26/21 16:21</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>					<i>Recovery: 67%</i>	<i>Limits: 15-119</i>		<i>01/26/21 16:21</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 4-Terphenyl-d14</i>					<i>Recovery: 84%</i>	<i>Limits: 29-129</i>		<i>01/26/21 16:21</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>

Subcontracted Analyses**Method: SW8260-SIM Modified / SW5030**

1,4-Dioxane	< 0.200	0.500			ug/L	0.0625	0.200	01/25/21 21:48	B1A0755	CP1	1
<i>Surrogate: Toluene-d8</i>					<i>Recovery: 98%</i>	<i>Limits: 80-120</i>		<i>01/25/21 21:48</i>	<i>B1A0755</i>	<i>CP1</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants**Client Sample ID:** PZ-1 DUP Filtered**Project:** Milw Die Cast**Report Date:** 02/10/2021**Work Order:** 21A0717**Collection Date:** 01/20/2021 15:40**Matrix:** Groundwater**Lab ID:** 21A0717-34

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Limit									
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.525	1.05			ug/L	0.223	0.525	01/27/21 17:42	B1A0753	CS2	1	
Aroclor 1221	< 0.525	0.629			ug/L	0.201	0.525	01/27/21 17:42	B1A0753	CS2	1	
Aroclor 1232	< 0.525	0.629			ug/L	0.170	0.525	01/27/21 17:42	B1A0753	CS2	1	
Aroclor 1242	< 1.05	2.10			ug/L	0.368	1.05	01/27/21 17:42	B1A0753	CS2	1	
Aroclor 1248	< 0.525	0.629			ug/L	0.168	0.525	01/27/21 17:42	B1A0753	CS2	1	
Aroclor 1254	< 0.525	0.629			ug/L	0.184	0.525	01/27/21 17:42	B1A0753	CS2	1	
Aroclor 1260	< 0.315	0.420			ug/L	0.118	0.315	01/27/21 17:42	B1A0753	CS2	1	
Total PCB	< 0.525	0.629			ug/L	0.201	0.525	01/27/21 17:42	B1A0753	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 94%		Limits: 10-139		01/27/21 17:42	B1A0753	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 60%		Limits: 26-107		01/27/21 17:42	B1A0753	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: PZ-2
Report Date: 02/10/2021
Collection Date: 01/19/2021 09:30
Matrix: Groundwater
Lab ID: 21A0717-35

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	2.27	1.00		mg/L	0.400	0.800	02/02/21 18:18	B1B0049	GSB	1
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3510										
Aroclor 1016	< 0.522	1.04		ug/L	0.222	0.522	01/27/21 14:06	B1A0750	CS2	1
Aroclor 1221	< 0.522	0.626		ug/L	0.200	0.522	01/27/21 14:06	B1A0750	CS2	1
Aroclor 1232	< 0.522	0.626		ug/L	0.169	0.522	01/27/21 14:06	B1A0750	CS2	1
Aroclor 1242	< 1.04	2.09		ug/L	0.366	1.04	01/27/21 14:06	B1A0750	CS2	1
Aroclor 1248	< 0.522	0.626		ug/L	0.167	0.522	01/27/21 14:06	B1A0750	CS2	1
Aroclor 1254	< 0.522	0.626		ug/L	0.183	0.522	01/27/21 14:06	B1A0750	CS2	1
Aroclor 1260	< 0.313	0.418		ug/L	0.117	0.313	01/27/21 14:06	B1A0750	CS2	1
Total PCB	< 0.522	0.626		ug/L	0.200	0.522	01/27/21 14:06	B1A0750	CS2	1
Surrogate: Decachlorobiphenyl				Recovery: 88%	Limits: 10-139		01/27/21 14:06	B1A0750	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				Recovery: 66%	Limits: 26-107		01/27/21 14:06	B1A0750	CS2	1
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.706	2.00	01/26/21 19:46	B1A0778	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00		ug/L	0.719	2.00	01/26/21 19:46	B1A0778	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.713	2.00	01/26/21 19:46	B1A0778	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00		ug/L	0.198	0.600	01/26/21 19:46	B1A0778	WZZ	1
1,1-Dichloroethane	< 2.00	4.00		ug/L	0.691	2.00	01/26/21 19:46	B1A0778	WZZ	1
1,1-Dichloroethene	< 4.00	8.00		ug/L	1.10	4.00	01/26/21 19:46	B1A0778	WZZ	1
1,1-Dichloropropene	< 1.00	2.00		ug/L	0.462	1.00	01/26/21 19:46	B1A0778	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00		ug/L	0.199	0.600	01/26/21 19:46	B1A0778	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00		ug/L	0.598	2.00	01/26/21 19:46	B1A0778	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00		ug/L	0.753	2.00	01/26/21 19:46	B1A0778	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00		ug/L	1.22	4.00	01/26/21 19:46	B1A0778	WZZ	1
1,2-Dibromoethane	< 1.00	2.00		ug/L	0.420	1.00	01/26/21 19:46	B1A0778	WZZ	1
1,2-Dichloroethane	< 2.00	4.00		ug/L	0.731	2.00	01/26/21 19:46	B1A0778	WZZ	1
1,2-Dichloropropane	< 2.00	4.00		ug/L	0.557	2.00	01/26/21 19:46	B1A0778	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00		ug/L	0.351	1.00	01/26/21 19:46	B1A0778	WZZ	1
1,3-Dichloropropane	< 1.00	2.00		ug/L	0.345	1.00	01/26/21 19:46	B1A0778	WZZ	1
2,2-Dichloropropane	< 4.00	8.00		ug/L	1.03	4.00	01/26/21 19:46	B1A0778	WZZ	1
2-Butanone	< 14.0	28.0		ug/L	4.79	14.0	01/26/21 19:46	B1A0778	WZZ	1
2-Chlorotoluene	< 1.00	2.00		ug/L	0.384	1.00	01/26/21 19:46	B1A0778	WZZ	1
2-Hexanone	< 14.0	28.0		ug/L	4.74	14.0	01/26/21 19:46	B1A0778	WZZ	1
4-Isopropyltoluene	< 2.00	4.00		ug/L	0.930	2.00	01/26/21 19:46	B1A0778	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0		ug/L	4.40	14.0	01/26/21 19:46	B1A0778	WZZ	1
Acetone	< 28.0	70.0		ug/L	9.21	28.0	01/26/21 19:46	B1A0778	WZZ	1
Benzene	< 1.00	2.00		ug/L	0.362	1.00	01/26/21 19:46	B1A0778	WZZ	1
Bromobenzene	< 1.00	2.00		ug/L	0.354	1.00	01/26/21 19:46	B1A0778	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: PZ-2
Report Date: 02/10/2021
Collection Date: 01/19/2021 09:30
Matrix: Groundwater
Lab ID: 21A0717-35 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	01/26/21 19:46	B1A0778	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	01/26/21 19:46	B1A0778	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	01/26/21 19:46	B1A0778	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	01/26/21 19:46	B1A0778	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	01/26/21 19:46	B1A0778	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	01/26/21 19:46	B1A0778	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	01/26/21 19:46	B1A0778	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	01/26/21 19:46	B1A0778	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	01/26/21 19:46	B1A0778	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	01/26/21 19:46	B1A0778	WZZ	1
cis-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.652	2.00	01/26/21 19:46	B1A0778	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	01/26/21 19:46	B1A0778	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	01/26/21 19:46	B1A0778	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	01/26/21 19:46	B1A0778	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	01/26/21 19:46	B1A0778	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	01/26/21 19:46	B1A0778	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	01/26/21 19:46	B1A0778	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	01/26/21 19:46	B1A0778	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	01/26/21 19:46	B1A0778	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	01/26/21 19:46	B1A0778	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	01/26/21 19:46	B1A0778	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	01/26/21 19:46	B1A0778	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	01/26/21 19:46	B1A0778	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	01/26/21 19:46	B1A0778	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	01/26/21 19:46	B1A0778	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 19:46	B1A0778	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	01/26/21 19:46	B1A0778	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	01/26/21 19:46	B1A0778	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	01/26/21 19:46	B1A0778	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	01/26/21 19:46	B1A0778	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 19:46	B1A0778	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	01/26/21 19:46	B1A0778	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	01/26/21 19:46	B1A0778	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	01/26/21 19:46	B1A0778	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	01/26/21 19:46	B1A0778	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 109%</i>	<i>Limits: 84-137</i>		<i>01/26/21 19:46</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 102%</i>	<i>Limits: 74-140</i>		<i>01/26/21 19:46</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 100%</i>	<i>Limits: 90-105</i>		<i>01/26/21 19:46</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 99%</i>	<i>Limits: 74-109</i>		<i>01/26/21 19:46</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 106%</i>	<i>Limits: 86-128</i>		<i>01/26/21 19:46</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 106%</i>	<i>Limits: 90-128</i>		<i>01/26/21 19:46</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: PZ-2
Report Date: 02/10/2021
Collection Date: 01/19/2021 09:30
Matrix: Groundwater
Lab ID: 21A0717-35 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time	Batch	Analyst	DF
		Limit						Analyzed			
Semivolatile Organic Compounds by GC/MS											
Method: SW8270D / SW3510											
1,2,4-Trichlorobenzene	< 1.04	2.07			ug/L	0.290	1.04	01/26/21 14:37	B1A0681	CP1	1
1,2-Dichlorobenzene	< 1.04	2.07			ug/L	0.311	1.04	01/26/21 14:37	B1A0681	CP1	1
1,3-Dichlorobenzene	< 1.04	2.07			ug/L	0.322	1.04	01/26/21 14:37	B1A0681	CP1	1
1,4-Dichlorobenzene	< 1.04	2.07			ug/L	0.290	1.04	01/26/21 14:37	B1A0681	CP1	1
2,4,5-Trichlorophenol	< 0.519	1.04			ug/L	0.134	0.519	01/26/21 14:37	B1A0681	CP1	1
2,4,6-Trichlorophenol	< 0.519	1.04			ug/L	0.253	0.519	01/26/21 14:37	B1A0681	CP1	1
2,4-Dichlorophenol	< 0.519	1.04			ug/L	0.0817	0.519	01/26/21 14:37	B1A0681	CP1	1
2,4-Dimethylphenol	< 1.04	2.07			ug/L	0.122	1.04	01/26/21 14:37	B1A0681	CP1	1
2,4-Dinitrophenol	< 10.4	31.1			ug/L	3.43	10.4	01/26/21 14:37	B1A0681	CP1	1
2,4-Dinitrotoluene	< 1.04	2.07			ug/L	0.261	1.04	01/26/21 14:37	B1A0681	CP1	1
2,6-Dinitrotoluene	< 0.519	1.04			ug/L	0.238	0.519	01/26/21 14:37	B1A0681	CP1	1
2-Chloronaphthalene	< 0.311	0.622			ug/L	0.110	0.311	01/26/21 14:37	B1A0681	CP1	1
2-Chlorophenol	< 0.519	1.04			ug/L	0.159	0.519	01/26/21 14:37	B1A0681	CP1	1
2-Methylnaphthalene	< 2.07	4.15			ug/L	0.664	2.07	01/26/21 14:37	B1A0681	CP1	1
2-Methylphenol	< 0.519	1.04			ug/L	0.190	0.519	01/26/21 14:37	B1A0681	CP1	1
2-Nitroaniline	< 10.4	31.1			ug/L	2.66	10.4	01/26/21 14:37	B1A0681	CP1	1
2-Nitrophenol	< 0.519	1.04			ug/L	0.217	0.519	01/26/21 14:37	B1A0681	CP1	1
3,3'-Dichlorobenzidine	< 10.4	20.7			ug/L	3.28	10.4	01/26/21 14:37	B1A0681	CP1	1
3 & 4-Methylphenol	< 0.519	1.04			ug/L	0.186	0.519	01/26/21 14:37	B1A0681	CP1	1
3-Nitroaniline	< 1.04	2.07			ug/L	0.373	1.04	01/26/21 14:37	B1A0681	CP1	1
4,6-Dinitro-2-methylphenol	< 5.19	15.6			ug/L	2.54	5.19	01/26/21 14:37	B1A0681	CP1	1
4-Bromophenyl-phenylether	< 0.519	1.04			ug/L	0.166	0.519	01/26/21 14:37	B1A0681	CP1	1
4-Chloro-3-methylphenol	< 0.207	0.519			ug/L	0.0740	0.207	01/26/21 14:37	B1A0681	CP1	1
4-Chloroaniline	< 0.311	0.622			ug/L	0.111	0.311	01/26/21 14:37	B1A0681	CP1	1
4-Chlorophenyl-phenylether	< 0.519	1.04			ug/L	0.151	0.519	01/26/21 14:37	B1A0681	CP1	1
4-Nitroaniline	< 10.4	31.1			ug/L	3.91	10.4	01/26/21 14:37	B1A0681	CP1	1
4-Nitrophenol	< 5.19	15.6			ug/L	1.49	5.19	01/26/21 14:37	B1A0681	CP1	1
Acenaphthene	< 0.311	0.622			ug/L	0.108	0.311	01/26/21 14:37	B1A0681	CP1	1
Acenaphthylene	< 0.311	0.622			ug/L	0.135	0.311	01/26/21 14:37	B1A0681	CP1	1
Anthracene	< 0.311	0.622			ug/L	0.116	0.311	01/26/21 14:37	B1A0681	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.311	1.04			ug/L	0.0796	0.311	01/26/21 14:37	B1A0681	CP1	1
Benzidine	< 41.5	83.0			ug/L	17.2	41.5	01/26/21 14:37	B1A0681	CP1	1
Benzo(a)anthracene	< 0.311	0.622			ug/L	0.128	0.311	01/26/21 14:37	B1A0681	CP1	1
Benzo(a)pyrene	< 1.04	2.07			ug/L	0.390	1.04	01/26/21 14:37	B1A0681	CP1	1
Benzo(b)fluoranthene	< 1.04	2.07			ug/L	0.386	1.04	01/26/21 14:37	B1A0681	CP1	1
Benzo(g,h,i)perylene	< 1.04	2.07			ug/L	0.414	1.04	01/26/21 14:37	B1A0681	CP1	1
Benzo(k)fluoranthene	< 0.519	2.07			ug/L	0.258	0.519	01/26/21 14:37	B1A0681	CP1	1
Benzoic acid	< 24.9	41.5			ug/L	12.2	24.9	01/26/21 14:37	B1A0681	CP1	1
Benzyl alcohol	< 2.07	4.15			ug/L	0.570	2.07	01/26/21 14:37	B1A0681	CP1	1
Bis(2-chloroethoxy)methane	< 0.519	1.04			ug/L	0.140	0.519	01/26/21 14:37	B1A0681	CP1	1
Bis(2-chloroethyl)ether	< 0.519	1.04			ug/L	0.182	0.519	01/26/21 14:37	B1A0681	CP1	1
Bis(2-chloroisopropyl)ether	< 0.519	1.04			ug/L	0.133	0.519	01/26/21 14:37	B1A0681	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.4	20.7			ug/L	3.77	10.4	01/26/21 14:37	B1A0681	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: PZ-2
Report Date: 02/10/2021
Collection Date: 01/19/2021 09:30
Matrix: Groundwater
Lab ID: 21A0717-35 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS (Continued)										
Method: SW8270D / SW3510 (Continued)										
Butyl benzyl phthalate	< 0.519	1.04		ug/L	0.243	0.519	01/26/21 14:37	B1A0681	CP1	1
Carbazole	< 0.519	1.04		ug/L	0.179	0.519	01/26/21 14:37	B1A0681	CP1	1
Chrysene	< 0.311	0.622		ug/L	0.131	0.311	01/26/21 14:37	B1A0681	CP1	1
Dibenzo(a,h)anthracene	< 1.04	2.07		ug/L	0.458	1.04	01/26/21 14:37	B1A0681	CP1	1
Dibenzofuran	< 0.311	0.622		ug/L	0.127	0.311	01/26/21 14:37	B1A0681	CP1	1
Diethyl phthalate	< 3.11	6.22		ug/L	1.21	3.11	01/26/21 14:37	B1A0681	CP1	1
Dimethyl phthalate	< 0.311	0.622		ug/L	0.0916	0.311	01/26/21 14:37	B1A0681	CP1	1
Di-n-butyl phthalate	< 6.22	10.4		ug/L	2.99	6.22	01/26/21 14:37	B1A0681	CP1	1
Di-n-octyl phthalate	< 5.19	10.4		ug/L	1.96	5.19	01/26/21 14:37	B1A0681	CP1	1
Fluoranthene	< 0.519	1.04		ug/L	0.204	0.519	01/26/21 14:37	B1A0681	CP1	1
Fluorene	< 0.311	0.622		ug/L	0.128	0.311	01/26/21 14:37	B1A0681	CP1	1
Hexachlorobenzene	< 0.519	1.04		ug/L	0.171	0.519	01/26/21 14:37	B1A0681	CP1	1
Hexachlorobutadiene	< 0.519	1.04		ug/L	0.259	0.519	01/26/21 14:37	B1A0681	CP1	1
Hexachlorocyclopentadiene	< 5.19	15.6		ug/L	2.27	5.19	01/26/21 14:37	B1A0681	CP1	1
Hexachloroethane	< 0.519	1.04		ug/L	0.228	0.519	01/26/21 14:37	B1A0681	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.04	2.07		ug/L	0.521	1.04	01/26/21 14:37	B1A0681	CP1	1
Isophorone	< 0.311	0.622		ug/L	0.114	0.311	01/26/21 14:37	B1A0681	CP1	1
Naphthalene	< 2.07	4.15		ug/L	0.846	2.07	01/26/21 14:37	B1A0681	CP1	1
Nitrobenzene	< 0.311	0.622		ug/L	0.145	0.311	01/26/21 14:37	B1A0681	CP1	1
N-Nitrosodimethylamine	< 0.519	1.04		ug/L	0.162	0.519	01/26/21 14:37	B1A0681	CP1	1
N-Nitrosodi-n-propylamine	< 1.04	2.07		ug/L	0.331	1.04	01/26/21 14:37	B1A0681	CP1	1
N-Nitrosodiphenylamine	< 0.311	0.622		ug/L	0.108	0.311	01/26/21 14:37	B1A0681	CP1	1
Pentachlorophenol	< 10.4	31.1		ug/L	2.62	10.4	01/26/21 14:37	B1A0681	CP1	1
Phenanthrene	< 0.519	1.04		ug/L	0.214	0.519	01/26/21 14:37	B1A0681	CP1	1
Phenol	< 0.519	1.04		ug/L	0.177	0.519	01/26/21 14:37	B1A0681	CP1	1
Pyrene	< 0.519	1.04		ug/L	0.216	0.519	01/26/21 14:37	B1A0681	CP1	1
<i>Surrogate: 2-Fluorophenol</i>				<i>Recovery: 40%</i>	<i>Limits: 10-88</i>		<i>01/26/21 14:37</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Phenol-d5</i>				<i>Recovery: 31%</i>	<i>Limits: 10-65</i>		<i>01/26/21 14:37</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Nitrobenzene-d5</i>				<i>Recovery: 63%</i>	<i>Limits: 25-128</i>		<i>01/26/21 14:37</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2-Fluorobiphenyl</i>				<i>Recovery: 56%</i>	<i>Limits: 24-114</i>		<i>01/26/21 14:37</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>				<i>Recovery: 60%</i>	<i>Limits: 15-119</i>		<i>01/26/21 14:37</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 4-Terphenyl-d14</i>				<i>Recovery: 78%</i>	<i>Limits: 29-129</i>		<i>01/26/21 14:37</i>	<i>B1A0681</i>	<i>CP1</i>	<i>1</i>

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500		ug/L	0.0625	0.200	01/25/21 22:13	B1A0755	CP1	1
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 103%</i>	<i>Limits: 80-120</i>		<i>01/25/21 22:13</i>	<i>B1A0755</i>	<i>CP1</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: PZ-2 Filtered
Report Date: 02/10/2021
Collection Date: 01/19/2021 09:30
Matrix: Groundwater
Lab ID: 21A0717-36

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Limit									
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.520	1.04			ug/L	0.221	0.520	01/27/21 14:23	B1A0750	CS2	1	
Aroclor 1221	< 0.520	0.624			ug/L	0.199	0.520	01/27/21 14:23	B1A0750	CS2	1	
Aroclor 1232	< 0.520	0.624			ug/L	0.169	0.520	01/27/21 14:23	B1A0750	CS2	1	
Aroclor 1242	< 1.04	2.08			ug/L	0.365	1.04	01/27/21 14:23	B1A0750	CS2	1	
Aroclor 1248	< 0.520	0.624			ug/L	0.166	0.520	01/27/21 14:23	B1A0750	CS2	1	
Aroclor 1254	< 0.520	0.624			ug/L	0.183	0.520	01/27/21 14:23	B1A0750	CS2	1	
Aroclor 1260	< 0.312	0.416			ug/L	0.117	0.312	01/27/21 14:23	B1A0750	CS2	1	
Total PCB	< 0.520	0.624			ug/L	0.199	0.520	01/27/21 14:23	B1A0750	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 76%		Limits: 10-139		01/27/21 14:23	B1A0750	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 64%		Limits: 26-107		01/27/21 14:23	B1A0750	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: PZ-10
Report Date: 02/10/2021
Collection Date: 01/20/2021 09:30
Matrix: Groundwater
Lab ID: 21A0717-37

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	1.24	1.00		mg/L	0.400	0.800	02/02/21 20:44	B1B0049	GSB	1
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3510										
Aroclor 1016	< 0.560	1.12		ug/L	0.238	0.560	01/27/21 17:59	B1A0753	CS2	1
Aroclor 1221	< 0.560	0.672		ug/L	0.215	0.560	01/27/21 17:59	B1A0753	CS2	1
Aroclor 1232	< 0.560	0.672		ug/L	0.182	0.560	01/27/21 17:59	B1A0753	CS2	1
Aroclor 1242	< 1.12	2.24		ug/L	0.393	1.12	01/27/21 17:59	B1A0753	CS2	1
Aroclor 1248	< 0.560	0.672		ug/L	0.179	0.560	01/27/21 17:59	B1A0753	CS2	1
Aroclor 1254	< 0.560	0.672		ug/L	0.197	0.560	01/27/21 17:59	B1A0753	CS2	1
Aroclor 1260	< 0.336	0.448		ug/L	0.126	0.336	01/27/21 17:59	B1A0753	CS2	1
Total PCB	< 0.560	0.672		ug/L	0.215	0.560	01/27/21 17:59	B1A0753	CS2	1
Surrogate: Decachlorobiphenyl				Recovery: 69%	Limits: 10-139		01/27/21 17:59	B1A0753	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				Recovery: 58%	Limits: 26-107		01/27/21 17:59	B1A0753	CS2	1
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.706	2.00	01/26/21 20:12	B1A0778	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00		ug/L	0.719	2.00	01/26/21 20:12	B1A0778	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.713	2.00	01/26/21 20:12	B1A0778	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00		ug/L	0.198	0.600	01/26/21 20:12	B1A0778	WZZ	1
1,1-Dichloroethane	< 2.00	4.00		ug/L	0.691	2.00	01/26/21 20:12	B1A0778	WZZ	1
1,1-Dichloroethene	< 4.00	8.00		ug/L	1.10	4.00	01/26/21 20:12	B1A0778	WZZ	1
1,1-Dichloropropene	< 1.00	2.00		ug/L	0.462	1.00	01/26/21 20:12	B1A0778	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00		ug/L	0.199	0.600	01/26/21 20:12	B1A0778	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00		ug/L	0.598	2.00	01/26/21 20:12	B1A0778	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00		ug/L	0.753	2.00	01/26/21 20:12	B1A0778	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00		ug/L	1.22	4.00	01/26/21 20:12	B1A0778	WZZ	1
1,2-Dibromoethane	< 1.00	2.00		ug/L	0.420	1.00	01/26/21 20:12	B1A0778	WZZ	1
1,2-Dichloroethane	< 2.00	4.00		ug/L	0.731	2.00	01/26/21 20:12	B1A0778	WZZ	1
1,2-Dichloropropane	< 2.00	4.00		ug/L	0.557	2.00	01/26/21 20:12	B1A0778	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00		ug/L	0.351	1.00	01/26/21 20:12	B1A0778	WZZ	1
1,3-Dichloropropane	< 1.00	2.00		ug/L	0.345	1.00	01/26/21 20:12	B1A0778	WZZ	1
2,2-Dichloropropane	< 4.00	8.00		ug/L	1.03	4.00	01/26/21 20:12	B1A0778	WZZ	1
2-Butanone	< 14.0	28.0		ug/L	4.79	14.0	01/26/21 20:12	B1A0778	WZZ	1
2-Chlorotoluene	< 1.00	2.00		ug/L	0.384	1.00	01/26/21 20:12	B1A0778	WZZ	1
2-Hexanone	< 14.0	28.0		ug/L	4.74	14.0	01/26/21 20:12	B1A0778	WZZ	1
4-Isopropyltoluene	< 2.00	4.00		ug/L	0.930	2.00	01/26/21 20:12	B1A0778	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0		ug/L	4.40	14.0	01/26/21 20:12	B1A0778	WZZ	1
Acetone	< 28.0	70.0		ug/L	9.21	28.0	01/26/21 20:12	B1A0778	WZZ	1
Benzene	< 1.00	2.00		ug/L	0.362	1.00	01/26/21 20:12	B1A0778	WZZ	1
Bromobenzene	< 1.00	2.00		ug/L	0.354	1.00	01/26/21 20:12	B1A0778	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: PZ-10
Report Date: 02/10/2021
Collection Date: 01/20/2021 09:30
Matrix: Groundwater
Lab ID: 21A0717-37 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	01/26/21 20:12	B1A0778	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	01/26/21 20:12	B1A0778	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	01/26/21 20:12	B1A0778	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	01/26/21 20:12	B1A0778	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	01/26/21 20:12	B1A0778	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	01/26/21 20:12	B1A0778	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	01/26/21 20:12	B1A0778	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	01/26/21 20:12	B1A0778	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	01/26/21 20:12	B1A0778	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	01/26/21 20:12	B1A0778	WZZ	1
cis-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.652	2.00	01/26/21 20:12	B1A0778	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	01/26/21 20:12	B1A0778	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	01/26/21 20:12	B1A0778	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	01/26/21 20:12	B1A0778	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	01/26/21 20:12	B1A0778	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	01/26/21 20:12	B1A0778	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	01/26/21 20:12	B1A0778	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	01/26/21 20:12	B1A0778	WZZ	1
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	01/26/21 20:12	B1A0778	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	01/26/21 20:12	B1A0778	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	01/26/21 20:12	B1A0778	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	01/26/21 20:12	B1A0778	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	01/26/21 20:12	B1A0778	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	01/26/21 20:12	B1A0778	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	01/26/21 20:12	B1A0778	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 20:12	B1A0778	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	01/26/21 20:12	B1A0778	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	01/26/21 20:12	B1A0778	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	01/26/21 20:12	B1A0778	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	01/26/21 20:12	B1A0778	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	01/26/21 20:12	B1A0778	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	01/26/21 20:12	B1A0778	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	01/26/21 20:12	B1A0778	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	01/26/21 20:12	B1A0778	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	01/26/21 20:12	B1A0778	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 108%</i>	<i>Limits: 84-137</i>		<i>01/26/21 20:12</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 105%</i>	<i>Limits: 74-140</i>		<i>01/26/21 20:12</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 99%</i>	<i>Limits: 90-105</i>		<i>01/26/21 20:12</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 100%</i>	<i>Limits: 74-109</i>		<i>01/26/21 20:12</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 98%</i>	<i>Limits: 86-128</i>		<i>01/26/21 20:12</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 96%</i>	<i>Limits: 90-128</i>		<i>01/26/21 20:12</i>	<i>B1A0778</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: PZ-10
Report Date: 02/10/2021
Collection Date: 01/20/2021 09:30
Matrix: Groundwater
Lab ID: 21A0717-37 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit								
Semivolatile Organic Compounds by GC/MS											
Method: SW8270D / SW3510											
1,2,4-Trichlorobenzene	< 1.02	2.04			ug/L	0.286	1.02	01/26/21 16:42	B1A0681	CP1	1
1,2-Dichlorobenzene	< 1.02	2.04			ug/L	0.307	1.02	01/26/21 16:42	B1A0681	CP1	1
1,3-Dichlorobenzene	< 1.02	2.04			ug/L	0.317	1.02	01/26/21 16:42	B1A0681	CP1	1
1,4-Dichlorobenzene	< 1.02	2.04			ug/L	0.286	1.02	01/26/21 16:42	B1A0681	CP1	1
2,4,5-Trichlorophenol	< 0.511	1.02			ug/L	0.132	0.511	01/26/21 16:42	B1A0681	CP1	1
2,4,6-Trichlorophenol	< 0.511	1.02			ug/L	0.249	0.511	01/26/21 16:42	B1A0681	CP1	1
2,4-Dichlorophenol	< 0.511	1.02			ug/L	0.0805	0.511	01/26/21 16:42	B1A0681	CP1	1
2,4-Dimethylphenol	< 1.02	2.04			ug/L	0.120	1.02	01/26/21 16:42	B1A0681	CP1	1
2,4-Dinitrophenol	< 10.2	30.7			ug/L	3.38	10.2	01/26/21 16:42	B1A0681	CP1	1
2,4-Dinitrotoluene	< 1.02	2.04			ug/L	0.258	1.02	01/26/21 16:42	B1A0681	CP1	1
2,6-Dinitrotoluene	< 0.511	1.02			ug/L	0.235	0.511	01/26/21 16:42	B1A0681	CP1	1
2-Chloronaphthalene	< 0.307	0.613			ug/L	0.108	0.307	01/26/21 16:42	B1A0681	CP1	1
2-Chlorophenol	< 0.511	1.02			ug/L	0.157	0.511	01/26/21 16:42	B1A0681	CP1	1
2-Methylnaphthalene	< 2.04	4.09			ug/L	0.654	2.04	01/26/21 16:42	B1A0681	CP1	1
2-Methylphenol	< 0.511	1.02			ug/L	0.187	0.511	01/26/21 16:42	B1A0681	CP1	1
2-Nitroaniline	< 10.2	30.7			ug/L	2.62	10.2	01/26/21 16:42	B1A0681	CP1	1
2-Nitrophenol	< 0.511	1.02			ug/L	0.214	0.511	01/26/21 16:42	B1A0681	CP1	1
3,3'-Dichlorobenzidine	< 10.2	20.4			ug/L	3.23	10.2	01/26/21 16:42	B1A0681	CP1	1
3 & 4-Methylphenol	< 0.511	1.02			ug/L	0.183	0.511	01/26/21 16:42	B1A0681	CP1	1
3-Nitroaniline	< 1.02	2.04			ug/L	0.368	1.02	01/26/21 16:42	B1A0681	CP1	1
4,6-Dinitro-2-methylphenol	< 5.11	15.3			ug/L	2.50	5.11	01/26/21 16:42	B1A0681	CP1	1
4-Bromophenyl-phenylether	< 0.511	1.02			ug/L	0.164	0.511	01/26/21 16:42	B1A0681	CP1	1
4-Chloro-3-methylphenol	< 0.204	0.511			ug/L	0.0729	0.204	01/26/21 16:42	B1A0681	CP1	1
4-Chloroaniline	< 0.307	0.613			ug/L	0.109	0.307	01/26/21 16:42	B1A0681	CP1	1
4-Chlorophenyl-phenylether	< 0.511	1.02			ug/L	0.149	0.511	01/26/21 16:42	B1A0681	CP1	1
4-Nitroaniline	< 10.2	30.7			ug/L	3.86	10.2	01/26/21 16:42	B1A0681	CP1	1
4-Nitrophenol	< 5.11	15.3			ug/L	1.47	5.11	01/26/21 16:42	B1A0681	CP1	1
Acenaphthene	< 0.307	0.613			ug/L	0.106	0.307	01/26/21 16:42	B1A0681	CP1	1
Acenaphthylene	< 0.307	0.613			ug/L	0.133	0.307	01/26/21 16:42	B1A0681	CP1	1
Anthracene	< 0.307	0.613			ug/L	0.114	0.307	01/26/21 16:42	B1A0681	CP1	1
Azobenzene as 1,2-Diphenylhydrazine	< 0.307	1.02			ug/L	0.0784	0.307	01/26/21 16:42	B1A0681	CP1	1
Benzidine	< 40.9	81.8			ug/L	16.9	40.9	01/26/21 16:42	B1A0681	CP1	1
Benzo(a)anthracene	< 0.307	0.613			ug/L	0.126	0.307	01/26/21 16:42	B1A0681	CP1	1
Benzo(a)pyrene	< 1.02	2.04			ug/L	0.384	1.02	01/26/21 16:42	B1A0681	CP1	1
Benzo(b)fluoranthene	< 1.02	2.04			ug/L	0.380	1.02	01/26/21 16:42	B1A0681	CP1	1
Benzo(g,h,i)perylene	< 1.02	2.04			ug/L	0.408	1.02	01/26/21 16:42	B1A0681	CP1	1
Benzo(k)fluoranthene	< 0.511	2.04			ug/L	0.254	0.511	01/26/21 16:42	B1A0681	CP1	1
Benzoic acid	< 24.5	40.9			ug/L	12.0	24.5	01/26/21 16:42	B1A0681	CP1	1
Benzyl alcohol	< 2.04	4.09			ug/L	0.562	2.04	01/26/21 16:42	B1A0681	CP1	1
Bis(2-chloroethoxy)methane	< 0.511	1.02			ug/L	0.138	0.511	01/26/21 16:42	B1A0681	CP1	1
Bis(2-chloroethyl)ether	< 0.511	1.02			ug/L	0.180	0.511	01/26/21 16:42	B1A0681	CP1	1
Bis(2-chloroisopropyl)ether	< 0.511	1.02			ug/L	0.131	0.511	01/26/21 16:42	B1A0681	CP1	1
Bis(2-ethylhexyl)phthalate	< 10.2	20.4			ug/L	3.71	10.2	01/26/21 16:42	B1A0681	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: PZ-10
Report Date: 02/10/2021
Collection Date: 01/20/2021 09:30
Matrix: Groundwater
Lab ID: 21A0717-37 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Semivolatile Organic Compounds by GC/MS (Continued)										
Method: SW8270D / SW3510 (Continued)										
Butyl benzyl phthalate	< 0.511	1.02		ug/L	0.239	0.511	01/26/21 16:42	B1A0681	CP1	1
Carbazole	< 0.511	1.02		ug/L	0.177	0.511	01/26/21 16:42	B1A0681	CP1	1
Chrysene	< 0.307	0.613		ug/L	0.129	0.307	01/26/21 16:42	B1A0681	CP1	1
Dibenzo(a,h)anthracene	< 1.02	2.04		ug/L	0.452	1.02	01/26/21 16:42	B1A0681	CP1	1
Dibenzofuran	< 0.307	0.613		ug/L	0.125	0.307	01/26/21 16:42	B1A0681	CP1	1
Diethyl phthalate	< 3.07	6.13		ug/L	1.19	3.07	01/26/21 16:42	B1A0681	CP1	1
Dimethyl phthalate	< 0.307	0.613		ug/L	0.0902	0.307	01/26/21 16:42	B1A0681	CP1	1
Di-n-butyl phthalate	< 6.13	10.2		ug/L	2.94	6.13	01/26/21 16:42	B1A0681	CP1	1
Di-n-octyl phthalate	< 5.11	10.2		ug/L	1.93	5.11	01/26/21 16:42	B1A0681	CP1	1
Fluoranthene	< 0.511	1.02		ug/L	0.201	0.511	01/26/21 16:42	B1A0681	CP1	1
Fluorene	< 0.307	0.613		ug/L	0.127	0.307	01/26/21 16:42	B1A0681	CP1	1
Hexachlorobenzene	< 0.511	1.02		ug/L	0.169	0.511	01/26/21 16:42	B1A0681	CP1	1
Hexachlorobutadiene	< 0.511	1.02		ug/L	0.255	0.511	01/26/21 16:42	B1A0681	CP1	1
Hexachlorocyclopentadiene	< 5.11	15.3		ug/L	2.24	5.11	01/26/21 16:42	B1A0681	CP1	1
Hexachloroethane	< 0.511	1.02		ug/L	0.225	0.511	01/26/21 16:42	B1A0681	CP1	1
Indeno(1,2,3-cd)pyrene	< 1.02	2.04		ug/L	0.514	1.02	01/26/21 16:42	B1A0681	CP1	1
Isophorone	< 0.307	0.613		ug/L	0.113	0.307	01/26/21 16:42	B1A0681	CP1	1
Naphthalene	< 2.04	4.09		ug/L	0.834	2.04	01/26/21 16:42	B1A0681	CP1	1
Nitrobenzene	< 0.307	0.613		ug/L	0.143	0.307	01/26/21 16:42	B1A0681	CP1	1
N-Nitrosodimethylamine	< 0.511	1.02		ug/L	0.159	0.511	01/26/21 16:42	B1A0681	CP1	1
N-Nitrosodi-n-propylamine	< 1.02	2.04		ug/L	0.326	1.02	01/26/21 16:42	B1A0681	CP1	1
N-Nitrosodiphenylamine	< 0.307	0.613		ug/L	0.106	0.307	01/26/21 16:42	B1A0681	CP1	1
Pentachlorophenol	< 10.2	30.7		ug/L	2.58	10.2	01/26/21 16:42	B1A0681	CP1	1
Phenanthrene	< 0.511	1.02		ug/L	0.211	0.511	01/26/21 16:42	B1A0681	CP1	1
Phenol	< 0.511	1.02		ug/L	0.174	0.511	01/26/21 16:42	B1A0681	CP1	1
Pyrene	< 0.511	1.02		ug/L	0.213	0.511	01/26/21 16:42	B1A0681	CP1	1
Surrogate: 2-Fluorophenol				Recovery: 36%	Limits: 10-88		01/26/21 16:42	B1A0681	CP1	1
Surrogate: Phenol-d5				Recovery: 26%	Limits: 10-65		01/26/21 16:42	B1A0681	CP1	1
Surrogate: Nitrobenzene-d5				Recovery: 62%	Limits: 25-128		01/26/21 16:42	B1A0681	CP1	1
Surrogate: 2-Fluorobiphenyl				Recovery: 54%	Limits: 24-114		01/26/21 16:42	B1A0681	CP1	1
Surrogate: 2,4,6-Tribromophenol				Recovery: 58%	Limits: 15-119		01/26/21 16:42	B1A0681	CP1	1
Surrogate: 4-Terphenyl-d14				Recovery: 71%	Limits: 29-129		01/26/21 16:42	B1A0681	CP1	1

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500		ug/L	0.0625	0.200	01/25/21 22:37	B1A0755	CP1	1
Surrogate: Toluene-d8				S	Recovery: 129%	Limits: 80-120	01/25/21 22:37	B1A0755	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: PZ-10 Filtered
Report Date: 02/10/2021
Collection Date: 01/20/2021 09:30
Matrix: Groundwater
Lab ID: 21A0717-38

Analyses	Result	EMT Reporting		Qual	Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Limit									
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3510												
Aroclor 1016	< 0.559	1.12			ug/L	0.237	0.559	01/27/21 18:16	B1A0753	CS2	1	
Aroclor 1221	< 0.559	0.671			ug/L	0.214	0.559	01/27/21 18:16	B1A0753	CS2	1	
Aroclor 1232	< 0.559	0.671			ug/L	0.181	0.559	01/27/21 18:16	B1A0753	CS2	1	
Aroclor 1242	< 1.12	2.24			ug/L	0.392	1.12	01/27/21 18:16	B1A0753	CS2	1	
Aroclor 1248	< 0.559	0.671			ug/L	0.179	0.559	01/27/21 18:16	B1A0753	CS2	1	
Aroclor 1254	< 0.559	0.671			ug/L	0.197	0.559	01/27/21 18:16	B1A0753	CS2	1	
Aroclor 1260	< 0.336	0.448			ug/L	0.126	0.336	01/27/21 18:16	B1A0753	CS2	1	
Total PCB	< 0.559	0.671			ug/L	0.214	0.559	01/27/21 18:16	B1A0753	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 98%		Limits: 10-139		01/27/21 18:16	B1A0753	CS2	1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 83%		Limits: 26-107		01/27/21 18:16	B1A0753	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: TB-011221
Report Date: 02/10/2021
Collection Date: 01/12/2021 00:00
Matrix: Water
Lab ID: 21A0717-39

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.706	2.00	01/25/21 18:02	B1A0768	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00		ug/L	0.719	2.00	01/25/21 18:02	B1A0768	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.713	2.00	01/25/21 18:02	B1A0768	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00		ug/L	0.198	0.600	01/25/21 18:02	B1A0768	WZZ	1
1,1-Dichloroethane	< 2.00	4.00		ug/L	0.691	2.00	01/25/21 18:02	B1A0768	WZZ	1
1,1-Dichloroethene	< 4.00	8.00		ug/L	1.10	4.00	01/25/21 18:02	B1A0768	WZZ	1
1,1-Dichloropropene	< 1.00	2.00		ug/L	0.462	1.00	01/25/21 18:02	B1A0768	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00		ug/L	0.199	0.600	01/25/21 18:02	B1A0768	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00		ug/L	0.598	2.00	01/25/21 18:02	B1A0768	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00		ug/L	0.753	2.00	01/25/21 18:02	B1A0768	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00		ug/L	1.22	4.00	01/25/21 18:02	B1A0768	WZZ	1
1,2-Dibromoethane	< 1.00	2.00		ug/L	0.420	1.00	01/25/21 18:02	B1A0768	WZZ	1
1,2-Dichloroethane	< 2.00	4.00		ug/L	0.731	2.00	01/25/21 18:02	B1A0768	WZZ	1
1,2-Dichloropropane	< 2.00	4.00		ug/L	0.557	2.00	01/25/21 18:02	B1A0768	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00		ug/L	0.351	1.00	01/25/21 18:02	B1A0768	WZZ	1
1,3-Dichloropropane	< 1.00	2.00		ug/L	0.345	1.00	01/25/21 18:02	B1A0768	WZZ	1
2,2-Dichloropropane	< 4.00	8.00		ug/L	1.03	4.00	01/25/21 18:02	B1A0768	WZZ	1
2-Butanone	< 14.0	28.0		ug/L	4.79	14.0	01/25/21 18:02	B1A0768	WZZ	1
2-Chlorotoluene	< 1.00	2.00		ug/L	0.384	1.00	01/25/21 18:02	B1A0768	WZZ	1
2-Hexanone	< 14.0	28.0		ug/L	4.74	14.0	01/25/21 18:02	B1A0768	WZZ	1
4-Isopropyltoluene	< 2.00	4.00		ug/L	0.930	2.00	01/25/21 18:02	B1A0768	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0		ug/L	4.40	14.0	01/25/21 18:02	B1A0768	WZZ	1
Acetone	< 28.0	70.0		ug/L	9.21	28.0	01/25/21 18:02	B1A0768	WZZ	1
Benzene	< 1.00	2.00		ug/L	0.362	1.00	01/25/21 18:02	B1A0768	WZZ	1
Bromobenzene	< 1.00	2.00		ug/L	0.354	1.00	01/25/21 18:02	B1A0768	WZZ	1
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	01/25/21 18:02	B1A0768	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	01/25/21 18:02	B1A0768	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	01/25/21 18:02	B1A0768	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	01/25/21 18:02	B1A0768	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	01/25/21 18:02	B1A0768	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	01/25/21 18:02	B1A0768	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	01/25/21 18:02	B1A0768	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	01/25/21 18:02	B1A0768	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	01/25/21 18:02	B1A0768	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	01/25/21 18:02	B1A0768	WZZ	1
cis-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.652	2.00	01/25/21 18:02	B1A0768	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	01/25/21 18:02	B1A0768	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	01/25/21 18:02	B1A0768	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	01/25/21 18:02	B1A0768	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	01/25/21 18:02	B1A0768	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	01/25/21 18:02	B1A0768	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	01/25/21 18:02	B1A0768	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	01/25/21 18:02	B1A0768	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: TB-011221
Report Date: 02/10/2021
Collection Date: 01/12/2021 00:00
Matrix: Water
Lab ID: 21A0717-39 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	01/25/21 18:02	B1A0768	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	01/25/21 18:02	B1A0768	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	01/25/21 18:02	B1A0768	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	01/25/21 18:02	B1A0768	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	01/25/21 18:02	B1A0768	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	01/25/21 18:02	B1A0768	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	01/25/21 18:02	B1A0768	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	01/25/21 18:02	B1A0768	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	01/25/21 18:02	B1A0768	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	01/25/21 18:02	B1A0768	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	01/25/21 18:02	B1A0768	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	01/25/21 18:02	B1A0768	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	01/25/21 18:02	B1A0768	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	01/25/21 18:02	B1A0768	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	01/25/21 18:02	B1A0768	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	01/25/21 18:02	B1A0768	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	01/25/21 18:02	B1A0768	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 107%</i>	<i>Limits: 84-137</i>		<i>01/25/21 18:02</i>	<i>B1A0768</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 103%</i>	<i>Limits: 74-140</i>		<i>01/25/21 18:02</i>	<i>B1A0768</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 100%</i>	<i>Limits: 90-105</i>		<i>01/25/21 18:02</i>	<i>B1A0768</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 99%</i>	<i>Limits: 74-109</i>		<i>01/25/21 18:02</i>	<i>B1A0768</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 103%</i>	<i>Limits: 86-128</i>		<i>01/25/21 18:02</i>	<i>B1A0768</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 98%</i>	<i>Limits: 90-128</i>		<i>01/25/21 18:02</i>	<i>B1A0768</i>	<i>WZZ</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: EB-1
Report Date: 02/10/2021
Collection Date: 01/21/2021 16:00
Matrix: Water
Lab ID: 21A0717-40

Analyses	Result	EMT		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Reporting Limit	Qual							
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.706	2.00	01/25/21 18:27	B1A0768	WZZ	1
1,1,1-Trichloroethane	< 2.00	4.00		ug/L	0.719	2.00	01/25/21 18:27	B1A0768	WZZ	1
1,1,2,2-Tetrachloroethane	< 2.00	4.00		ug/L	0.713	2.00	01/25/21 18:27	B1A0768	WZZ	1
1,1,2-Trichloroethane	< 0.600	2.00		ug/L	0.198	0.600	01/25/21 18:27	B1A0768	WZZ	1
1,1-Dichloroethane	< 2.00	4.00		ug/L	0.691	2.00	01/25/21 18:27	B1A0768	WZZ	1
1,1-Dichloroethene	< 4.00	8.00		ug/L	1.10	4.00	01/25/21 18:27	B1A0768	WZZ	1
1,1-Dichloropropene	< 1.00	2.00		ug/L	0.462	1.00	01/25/21 18:27	B1A0768	WZZ	1
1,2,3-Trichlorobenzene	< 0.600	2.00		ug/L	0.199	0.600	01/25/21 18:27	B1A0768	WZZ	1
1,2,3-Trichloropropane	< 2.00	4.00		ug/L	0.598	2.00	01/25/21 18:27	B1A0768	WZZ	1
1,2,4-Trimethylbenzene	< 2.00	4.00		ug/L	0.753	2.00	01/25/21 18:27	B1A0768	WZZ	1
1,2-Dibromo-3-chloropropane	< 4.00	8.00		ug/L	1.22	4.00	01/25/21 18:27	B1A0768	WZZ	1
1,2-Dibromoethane	< 1.00	2.00		ug/L	0.420	1.00	01/25/21 18:27	B1A0768	WZZ	1
1,2-Dichloroethane	< 2.00	4.00		ug/L	0.731	2.00	01/25/21 18:27	B1A0768	WZZ	1
1,2-Dichloropropane	< 2.00	4.00		ug/L	0.557	2.00	01/25/21 18:27	B1A0768	WZZ	1
1,3,5-Trimethylbenzene	< 1.00	2.00		ug/L	0.351	1.00	01/25/21 18:27	B1A0768	WZZ	1
1,3-Dichloropropane	< 1.00	2.00		ug/L	0.345	1.00	01/25/21 18:27	B1A0768	WZZ	1
2,2-Dichloropropane	< 4.00	8.00		ug/L	1.03	4.00	01/25/21 18:27	B1A0768	WZZ	1
2-Butanone	< 14.0	28.0		ug/L	4.79	14.0	01/25/21 18:27	B1A0768	WZZ	1
2-Chlorotoluene	< 1.00	2.00		ug/L	0.384	1.00	01/25/21 18:27	B1A0768	WZZ	1
2-Hexanone	< 14.0	28.0		ug/L	4.74	14.0	01/25/21 18:27	B1A0768	WZZ	1
4-Isopropyltoluene	< 2.00	4.00		ug/L	0.930	2.00	01/25/21 18:27	B1A0768	WZZ	1
4-Methyl-2-pentanone	< 14.0	28.0		ug/L	4.40	14.0	01/25/21 18:27	B1A0768	WZZ	1
Acetone	< 28.0	70.0		ug/L	9.21	28.0	01/25/21 18:27	B1A0768	WZZ	1
Benzene	< 1.00	2.00		ug/L	0.362	1.00	01/25/21 18:27	B1A0768	WZZ	1
Bromobenzene	< 1.00	2.00		ug/L	0.354	1.00	01/25/21 18:27	B1A0768	WZZ	1
Bromochloromethane	< 2.00	4.00		ug/L	0.861	2.00	01/25/21 18:27	B1A0768	WZZ	1
Bromodichloromethane	< 1.00	2.00		ug/L	0.458	1.00	01/25/21 18:27	B1A0768	WZZ	1
Bromoform	< 2.00	4.00		ug/L	0.570	2.00	01/25/21 18:27	B1A0768	WZZ	1
Bromomethane	< 4.00	8.00		ug/L	1.61	4.00	01/25/21 18:27	B1A0768	WZZ	1
Carbon disulfide	< 2.00	4.00		ug/L	0.739	2.00	01/25/21 18:27	B1A0768	WZZ	1
Carbon tetrachloride	< 2.00	4.00		ug/L	0.710	2.00	01/25/21 18:27	B1A0768	WZZ	1
Chlorobenzene	< 0.600	2.00		ug/L	0.170	0.600	01/25/21 18:27	B1A0768	WZZ	1
Chloroethane	< 2.00	4.00		ug/L	0.621	2.00	01/25/21 18:27	B1A0768	WZZ	1
Chloroform	< 4.00	8.00		ug/L	1.06	4.00	01/25/21 18:27	B1A0768	WZZ	1
Chloromethane	< 4.00	8.00		ug/L	1.30	4.00	01/25/21 18:27	B1A0768	WZZ	1
cis-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.652	2.00	01/25/21 18:27	B1A0768	WZZ	1
cis-1,3-Dichloropropene	< 2.00	4.00		ug/L	0.408	2.00	01/25/21 18:27	B1A0768	WZZ	1
Cyclohexane	< 1.00	2.00		ug/L	0.325	1.00	01/25/21 18:27	B1A0768	WZZ	1
Dibromochloromethane	< 2.00	4.00		ug/L	0.632	2.00	01/25/21 18:27	B1A0768	WZZ	1
Dibromomethane	< 1.00	2.00		ug/L	0.390	1.00	01/25/21 18:27	B1A0768	WZZ	1
Dichlorodifluoromethane	< 0.600	2.00		ug/L	0.186	0.600	01/25/21 18:27	B1A0768	WZZ	1
Ethylbenzene	< 1.00	2.00		ug/L	0.268	1.00	01/25/21 18:27	B1A0768	WZZ	1
Isopropylbenzene	< 1.00	2.00		ug/L	0.312	1.00	01/25/21 18:27	B1A0768	WZZ	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21A0717

Client Sample ID: EB-1
Report Date: 02/10/2021
Collection Date: 01/21/2021 16:00
Matrix: Water
Lab ID: 21A0717-40 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	LOD	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
m,p-Xylene	< 4.00	8.00		ug/L	1.58	4.00	01/25/21 18:27	B1A0768	WZZ	1
Methyl tert-butyl ether	< 2.00	4.00		ug/L	0.838	2.00	01/25/21 18:27	B1A0768	WZZ	1
Methylene chloride	< 4.00	8.00		ug/L	1.02	4.00	01/25/21 18:27	B1A0768	WZZ	1
n-Butylbenzene	< 1.00	2.00		ug/L	0.295	1.00	01/25/21 18:27	B1A0768	WZZ	1
n-Propylbenzene	< 1.00	2.00		ug/L	0.289	1.00	01/25/21 18:27	B1A0768	WZZ	1
o-Xylene	< 1.00	2.00		ug/L	0.324	1.00	01/25/21 18:27	B1A0768	WZZ	1
sec-Butylbenzene	< 0.600	2.00		ug/L	0.223	0.600	01/25/21 18:27	B1A0768	WZZ	1
Styrene	< 4.00	8.00		ug/L	1.17	4.00	01/25/21 18:27	B1A0768	WZZ	1
tert-Butylbenzene	< 2.00	4.00		ug/L	0.800	2.00	01/25/21 18:27	B1A0768	WZZ	1
Tetrachloroethene	< 2.00	4.00		ug/L	0.646	2.00	01/25/21 18:27	B1A0768	WZZ	1
Toluene	< 2.00	4.00		ug/L	0.510	2.00	01/25/21 18:27	B1A0768	WZZ	1
trans-1,2-Dichloroethene	< 2.00	4.00		ug/L	0.566	2.00	01/25/21 18:27	B1A0768	WZZ	1
trans-1,3-Dichloropropene	< 4.00	8.00		ug/L	1.17	4.00	01/25/21 18:27	B1A0768	WZZ	1
Trichloroethene	< 2.00	4.00		ug/L	0.939	2.00	01/25/21 18:27	B1A0768	WZZ	1
Trichlorofluoromethane	< 2.00	4.00		ug/L	0.503	2.00	01/25/21 18:27	B1A0768	WZZ	1
Vinyl chloride	< 2.00	4.00		ug/L	0.582	2.00	01/25/21 18:27	B1A0768	WZZ	1
Xylenes, Total	< 6.00	12.0		ug/L	1.62	6.00	01/25/21 18:27	B1A0768	WZZ	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 105%</i>	<i>Limits: 84-137</i>		<i>01/25/21 18:27</i>	<i>B1A0768</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 106%</i>	<i>Limits: 74-140</i>		<i>01/25/21 18:27</i>	<i>B1A0768</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 98%</i>	<i>Limits: 90-105</i>		<i>01/25/21 18:27</i>	<i>B1A0768</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 99%</i>	<i>Limits: 74-109</i>		<i>01/25/21 18:27</i>	<i>B1A0768</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 97%</i>	<i>Limits: 86-128</i>		<i>01/25/21 18:27</i>	<i>B1A0768</i>	<i>WZZ</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 103%</i>	<i>Limits: 90-128</i>		<i>01/25/21 18:27</i>	<i>B1A0768</i>	<i>WZZ</i>	<i>1</i>

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500		ug/L	0.0625	0.200	01/25/21 23:01	B1A0755	CP1	1
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 111%</i>	<i>Limits: 80-120</i>		<i>01/25/21 23:01</i>	<i>B1A0755</i>	<i>CP1</i>	<i>1</i>

Dates Report

Client: Geosyntec Consultants

Report Date: 02/10/2021

Project: Milw Die Cast

Work Order: 21A0717

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
21A0717-01	MW-1	01/21/21	Groundwater	Semivolatile Organic Compounds by GC/MS		01/25/21 09:30	01/26/21 11:10	B1A0681	S1A0306
				Carbon, Organic Total (TOC)		01/25/21 16:40	01/25/21 21:12	B1A0740	S1A0294
				Polychlorinated Biphenyls by GC/ECD		01/27/21 09:23	01/27/21 16:17	B1A0753	S1A0359
				Volatile Organic Compounds by GC/MS-SIM		01/25/21 07:00	01/25/21 15:43	B1A0755	S1A0302
				Volatile Organic Compounds by GC/MS		01/26/21 11:00	01/26/21 21:29	B1A0778	S1A0347
				Volatile Organic Compounds by GC/MS		01/28/21 13:00	01/28/21 17:57	B1A0926	S1A0389
21A0717-02	MW-1 Filtered			Polychlorinated Biphenyls by GC/ECD		01/27/21 09:23	01/27/21 16:34	B1A0753	S1A0359
21A0717-03	MW-2	01/20/21		Semivolatile Organic Compounds by GC/MS		01/25/21 09:30	01/26/21 11:31	B1A0681	S1A0306
				Carbon, Organic Total (TOC)		01/25/21 16:40	01/25/21 21:38	B1A0740	S1A0294
				Polychlorinated Biphenyls by GC/ECD		01/26/21 11:05	01/27/21 12:24	B1A0750	S1A0354
				Volatile Organic Compounds by GC/MS-SIM		01/25/21 07:00	01/25/21 16:07	B1A0755	S1A0302
				Volatile Organic Compounds by GC/MS		01/25/21 14:00	01/25/21 18:53	B1A0768	S1A0312
21A0717-04	MW-2 Filtered			Polychlorinated Biphenyls by GC/ECD		01/27/21 09:23	01/27/21 16:51	B1A0753	S1A0359
21A0717-05	MW-3	01/18/21		Semivolatile Organic Compounds by GC/MS		01/23/21 09:04	01/26/21 11:51	B1A0659	S1A0306
				Polychlorinated Biphenyls by GC/ECD		01/23/21 09:04	01/25/21 10:12	B1A0660	S1A0305
				Carbon, Organic Total (TOC)		01/25/21 16:40	01/25/21 22:03	B1A0740	S1A0294
				Volatile Organic Compounds by GC/MS-SIM		01/25/21 07:00	01/25/21 16:31	B1A0755	S1A0302
				Volatile Organic Compounds by GC/MS		01/25/21 14:00	01/25/21 19:19	B1A0768	S1A0312
				Polychlorinated Biphenyls by GC/ECD		01/23/21 09:04	01/25/21 10:30	B1A0660	S1A0305
21A0717-06	MW-3 Filtered			Polychlorinated Biphenyls by GC/ECD		01/23/21 09:04	01/25/21 10:30	B1A0660	S1A0305
21A0717-07	MW-4	01/20/21		Semivolatile Organic Compounds by GC/MS		01/25/21 09:30	01/26/21 12:12	B1A0681	S1A0306
				Carbon, Organic Total (TOC)		01/25/21 16:40	01/25/21 22:22	B1A0740	S1A0294
				Polychlorinated Biphenyls by GC/ECD		01/27/21 09:23	01/27/21 17:08	B1A0753	S1A0359
				Volatile Organic Compounds by GC/MS-SIM		01/25/21 07:00	01/25/21 16:56	B1A0755	S1A0302
				Volatile Organic Compounds by GC/MS		01/26/21 11:00	01/26/21 14:39	B1A0778	S1A0347
21A0717-08	MW-4 Filtered			Polychlorinated Biphenyls by GC/ECD		01/27/21 09:23	01/27/21 17:25	B1A0753	S1A0359
21A0717-09	MW-5	01/21/21		Semivolatile Organic Compounds by GC/MS		01/25/21 09:30	01/26/21 12:33	B1A0681	S1A0306
				Carbon, Organic Total (TOC)		01/25/21 16:40	01/25/21 22:47	B1A0740	S1A0294
				Polychlorinated Biphenyls by GC/ECD		01/27/21 09:23	01/27/21 17:42	B1A0753	S1A0359
				Volatile Organic Compounds by GC/MS-SIM		01/25/21 07:00	01/25/21 17:20	B1A0755	S1A0302
				Volatile Organic Compounds by GC/MS		01/26/21 11:00	01/26/21 15:05	B1A0778	S1A0347
21A0717-10	MW-5 Filtered			Polychlorinated Biphenyls by GC/ECD		01/27/21 09:23	01/27/21 17:59	B1A0753	S1A0359
21A0717-11	MW-6	01/20/21		Semivolatile Organic Compounds by GC/MS		01/25/21 13:02	01/26/21 14:58	B1A0681	S1A0306
				Carbon, Organic Total (TOC)		01/25/21 16:40	01/26/21 01:19	B1A0740	S1A0294

Dates Report

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Work Order:** 21A0717

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
21A0717-11	MW-6	01/20/21	Groundwater	Polychlorinated Biphenyls by GC/ECD		01/27/21 09:23	01/27/21 18:16	B1A0753	S1A0359
				Volatile Organic Compounds by GC/MS-SIM		01/25/21 07:00	01/25/21 17:44	B1A0755	S1A0302
				Volatile Organic Compounds by GC/MS		01/26/21 11:00	01/26/21 15:30	B1A0778	S1A0347
				Volatile Organic Compounds by GC/MS-SIM		01/29/21 07:29	01/29/21 17:05	B1B0005	S1B0001
21A0717-12	MW-6 Filtered			Polychlorinated Biphenyls by GC/ECD		01/27/21 09:23	01/27/21 18:33	B1A0753	S1A0359
21A0717-13	MW-6 DUP			Semivolatile Organic Compounds by GC/MS		01/25/21 13:02	01/26/21 15:19	B1A0681	S1A0306
				Carbon, Organic Total (TOC)		01/25/21 16:40	01/26/21 01:45	B1A0740	S1A0294
				Polychlorinated Biphenyls by GC/ECD		01/27/21 09:23	01/27/21 18:50	B1A0753	S1A0359
				Volatile Organic Compounds by GC/MS-SIM		01/25/21 07:00	01/25/21 18:09	B1A0755	S1A0302
				Volatile Organic Compounds by GC/MS		01/26/21 11:00	01/26/21 15:56	B1A0778	S1A0347
				Volatile Organic Compounds by GC/MS-SIM		01/29/21 07:29	01/29/21 17:33	B1B0005	S1B0001
21A0717-14	MW-6 DUP Filtered			Polychlorinated Biphenyls by GC/ECD		01/27/21 09:23	01/27/21 15:43	B1A0753	S1A0359
21A0717-15	MW-7	01/19/21		Semivolatile Organic Compounds by GC/MS		01/25/21 09:30	01/26/21 12:54	B1A0681	S1A0306
				Carbon, Organic Total (TOC)		01/25/21 16:40	01/26/21 02:11	B1A0740	S1A0294
				Polychlorinated Biphenyls by GC/ECD		01/26/21 10:02	01/27/21 12:41	B1A0750	S1A0354
				Volatile Organic Compounds by GC/MS-SIM		01/25/21 07:00	01/25/21 18:33	B1A0755	S1A0302
				Volatile Organic Compounds by GC/MS		01/26/21 11:00	01/26/21 16:22	B1A0778	S1A0347
				Volatile Organic Compounds by GC/MS		01/28/21 13:00	01/28/21 16:32	B1A0926	S1A0389
21A0717-16	MW-7 Filtered			Polychlorinated Biphenyls by GC/ECD		01/26/21 10:02	01/27/21 12:58	B1A0750	S1A0354
21A0717-17	MW-8	01/19/21		Semivolatile Organic Compounds by GC/MS		01/25/21 09:30	01/26/21 13:14	B1A0681	S1A0306
				Carbon, Organic Total (TOC)		01/25/21 16:40	01/26/21 02:32	B1A0740	S1A0294
				Polychlorinated Biphenyls by GC/ECD		01/26/21 10:02	01/27/21 13:15	B1A0750	S1A0354
				Volatile Organic Compounds by GC/MS-SIM		01/25/21 07:00	01/25/21 18:58	B1A0755	S1A0302
				Volatile Organic Compounds by GC/MS		01/26/21 11:00	01/26/21 16:47	B1A0778	S1A0347
21A0717-18	MW-8 Filtered			Polychlorinated Biphenyls by GC/ECD		01/26/21 10:02	01/27/21 13:32	B1A0750	S1A0354
21A0717-19	MW-9	01/19/21		Semivolatile Organic Compounds by GC/MS		01/25/21 09:30	01/26/21 10:07	B1A0681	S1A0306
				Polychlorinated Biphenyls by GC/ECD		01/26/21 10:02	01/27/21 13:49	B1A0750	S1A0354
				Volatile Organic Compounds by GC/MS-SIM		01/25/21 07:00	01/25/21 15:18	B1A0755	S1A0302
				Volatile Organic Compounds by GC/MS		01/26/21 11:00	01/26/21 17:13	B1A0778	S1A0347
				Carbon, Organic Total (TOC)		02/02/21 12:26	02/02/21 16:56	B1B0049	S1B0022
21A0717-20	MW-9 Filtered	01/19/21		Polychlorinated Biphenyls by GC/ECD		01/26/21 10:02	01/27/21 16:00	B1A0753	S1A0359
21A0717-21	MW-10	01/20/21		Semivolatile Organic Compounds by GC/MS		01/25/21 13:02	01/26/21 15:40	B1A0681	S1A0306
				Carbon, Organic Total (TOC)		01/25/21 16:40	01/26/21 04:22	B1A0740	S1A0294

Dates Report

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Work Order:** 21A0717

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
21A0717-21	MW-10	01/20/21	Groundwater	Polychlorinated Biphenyls by GC/ECD		01/27/21 09:23	01/27/21 16:17	B1A0753	S1A0359
				Volatile Organic Compounds by GC/MS-SIM		01/25/21 07:00	01/25/21 19:22	B1A0755	S1A0302
				Volatile Organic Compounds by GC/MS		01/26/21 11:00	01/26/21 17:38	B1A0778	S1A0347
21A0717-22	MW-10 Filtered			Polychlorinated Biphenyls by GC/ECD		01/27/21 09:23	01/27/21 16:34	B1A0753	S1A0359
21A0717-23	MW-11	01/19/21		Semivolatile Organic Compounds by GC/MS		01/25/21 09:30	01/26/21 13:35	B1A0681	S1A0306
				Carbon, Organic Total (TOC)		01/25/21 16:40	01/26/21 04:48	B1A0740	S1A0294
				Polychlorinated Biphenyls by GC/ECD		01/26/21 10:02	01/27/21 12:58	B1A0750	S1A0354
				Volatile Organic Compounds by GC/MS-SIM		01/25/21 07:00	01/25/21 19:46	B1A0755	S1A0302
				Volatile Organic Compounds by GC/MS		01/26/21 11:00	01/26/21 18:04	B1A0778	S1A0347
21A0717-24	MW-11 Filtered			Polychlorinated Biphenyls by GC/ECD		01/26/21 10:02	01/27/21 13:15	B1A0750	S1A0354
21A0717-25	MW-12	01/18/21		Semivolatile Organic Compounds by GC/MS		01/23/21 09:04	01/26/21 09:05	B1A0659	S1A0306
				Polychlorinated Biphenyls by GC/ECD		01/23/21 09:04	01/25/21 10:30	B1A0660	S1A0305
				Carbon, Organic Total (TOC)		01/25/21 16:40	01/26/21 05:10	B1A0740	S1A0294
				Volatile Organic Compounds by GC/MS-SIM		01/25/21 07:00	01/25/21 20:11	B1A0755	S1A0302
				Volatile Organic Compounds by GC/MS		01/26/21 11:00	01/26/21 18:30	B1A0778	S1A0347
21A0717-26	MW-12 Filtered			Polychlorinated Biphenyls by GC/ECD		01/23/21 09:04	01/25/21 10:49	B1A0660	S1A0305
21A0717-27	MW-13	01/18/21		Semivolatile Organic Compounds by GC/MS		01/23/21 09:04	01/26/21 13:56	B1A0659	S1A0306
				Polychlorinated Biphenyls by GC/ECD		01/23/21 09:04	01/25/21 11:24	B1A0660	S1A0305
				Carbon, Organic Total (TOC)		01/25/21 16:40	01/26/21 07:33	B1A0740	S1A0294
				Volatile Organic Compounds by GC/MS-SIM		01/25/21 07:00	01/25/21 20:35	B1A0755	S1A0302
				Volatile Organic Compounds by GC/MS		01/26/21 11:00	01/26/21 18:55	B1A0778	S1A0347
21A0717-28	MW-13 Filtered			Polychlorinated Biphenyls by GC/ECD		01/23/21 09:04	01/25/21 11:42	B1A0660	S1A0305
21A0717-29	MW-14	01/19/21		Semivolatile Organic Compounds by GC/MS		01/25/21 09:30	01/26/21 14:17	B1A0681	S1A0306
				Carbon, Organic Total (TOC)		01/25/21 16:40	01/26/21 07:58	B1A0740	S1A0294
				Polychlorinated Biphenyls by GC/ECD		01/26/21 10:02	01/27/21 13:32	B1A0750	S1A0354
				Volatile Organic Compounds by GC/MS-SIM		01/25/21 07:00	01/25/21 21:00	B1A0755	S1A0302
				Volatile Organic Compounds by GC/MS		01/26/21 11:00	01/26/21 19:21	B1A0778	S1A0347
21A0717-30	MW-14 Filtered			Polychlorinated Biphenyls by GC/ECD		01/26/21 10:02	01/27/21 13:49	B1A0750	S1A0354
21A0717-31	PZ-1	01/20/21		Semivolatile Organic Compounds by GC/MS		01/25/21 13:02	01/26/21 16:01	B1A0681	S1A0306
				Carbon, Organic Total (TOC)		01/25/21 16:40	01/26/21 08:26	B1A0740	S1A0294
				Polychlorinated Biphenyls by GC/ECD		01/27/21 09:23	01/27/21 16:51	B1A0753	S1A0359
				Volatile Organic Compounds by GC/MS-SIM		01/25/21 07:00	01/25/21 21:24	B1A0755	S1A0302
				Volatile Organic Compounds by GC/MS		01/26/21 11:00	01/26/21 20:37	B1A0778	S1A0347

Dates Report

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Work Order:** 21A0717

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
21A0717-31	PZ-1	01/20/21	Groundwater	Volatile Organic Compounds by GC/MS		01/28/21 13:00	01/28/21 17:00	B1A0926	S1A0389
21A0717-32	PZ-1 Filtered			Polychlorinated Biphenyls by GC/ECD		01/27/21 09:23	01/27/21 17:08	B1A0753	S1A0359
21A0717-33	PZ-1 DUP			Semivolatile Organic Compounds by GC/MS		01/25/21 13:02	01/26/21 16:21	B1A0681	S1A0306
				Carbon, Organic Total (TOC)		01/25/21 16:40	01/26/21 08:56	B1A0740	S1A0294
				Polychlorinated Biphenyls by GC/ECD		01/27/21 09:23	01/27/21 17:25	B1A0753	S1A0359
				Volatile Organic Compounds by GC/MS-SIM		01/25/21 07:00	01/25/21 21:48	B1A0755	S1A0302
				Volatile Organic Compounds by GC/MS		01/26/21 11:00	01/26/21 21:03	B1A0778	S1A0347
				Volatile Organic Compounds by GC/MS		01/28/21 13:00	01/28/21 17:29	B1A0926	S1A0389
21A0717-34	PZ-1 DUP Filtered			Polychlorinated Biphenyls by GC/ECD		01/27/21 09:23	01/27/21 17:42	B1A0753	S1A0359
21A0717-35	PZ-2	01/19/21		Semivolatile Organic Compounds by GC/MS		01/25/21 09:30	01/26/21 14:37	B1A0681	S1A0306
				Polychlorinated Biphenyls by GC/ECD		01/26/21 10:02	01/27/21 14:06	B1A0750	S1A0354
				Volatile Organic Compounds by GC/MS-SIM		01/25/21 07:00	01/25/21 22:13	B1A0755	S1A0302
				Volatile Organic Compounds by GC/MS		01/26/21 11:00	01/26/21 19:46	B1A0778	S1A0347
				Carbon, Organic Total (TOC)		02/02/21 12:26	02/02/21 18:18	B1B0049	S1B0022
21A0717-36	PZ-2 Filtered			Polychlorinated Biphenyls by GC/ECD		01/26/21 10:02	01/27/21 14:23	B1A0750	S1A0354
21A0717-37	PZ-10	01/20/21		Semivolatile Organic Compounds by GC/MS		01/25/21 13:02	01/26/21 16:42	B1A0681	S1A0306
				Polychlorinated Biphenyls by GC/ECD		01/27/21 09:23	01/27/21 17:59	B1A0753	S1A0359
				Volatile Organic Compounds by GC/MS-SIM		01/25/21 07:00	01/25/21 22:37	B1A0755	S1A0302
				Volatile Organic Compounds by GC/MS		01/26/21 11:00	01/26/21 20:12	B1A0778	S1A0347
				Carbon, Organic Total (TOC)		02/02/21 12:26	02/02/21 20:44	B1B0049	S1B0022
21A0717-38	PZ-10 Filtered			Polychlorinated Biphenyls by GC/ECD		01/27/21 09:23	01/27/21 18:16	B1A0753	S1A0359
21A0717-39	TB-011221	01/12/21	Water	Volatile Organic Compounds by GC/MS		01/25/21 14:00	01/25/21 18:02	B1A0768	S1A0312
21A0717-40	EB-1	01/21/21		Volatile Organic Compounds by GC/MS-SIM		01/25/21 07:00	01/25/21 23:01	B1A0755	S1A0302
				Volatile Organic Compounds by GC/MS		01/25/21 14:00	01/25/21 18:27	B1A0768	S1A0312

Quality Control

Client: Geosyntec Consultants
Project: Milw Die Cast

Report Date: 02/10/2021
Matrix: Water

Work Order: 21A0717

Wet Chemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
Batch: B1A0740											
Blank (B1A0740-BLK1) <i>Prepared: 01/25/2021 16:40 Analyzed: 01/25/2021 16:50</i>											
Organic Carbon, Total	< 0.400	1.00	mg/L								1
Blank (B1A0740-BLK2) <i>Prepared: 01/25/2021 16:40 Analyzed: 01/25/2021 17:13</i>											
Organic Carbon, Total	0.531	1.00	mg/L							J	1
Blank (B1A0740-BLK3) <i>Prepared: 01/25/2021 16:40 Analyzed: 01/25/2021 23:09</i>											
Organic Carbon, Total	< 0.400	1.00	mg/L								1
Blank (B1A0740-BLK4) <i>Prepared: 01/25/2021 16:40 Analyzed: 01/25/2021 23:31</i>											
Organic Carbon, Total	0.413	1.00	mg/L							J	1
Blank (B1A0740-BLK5) <i>Prepared: 01/25/2021 16:40 Analyzed: 01/26/2021 05:32</i>											
Organic Carbon, Total	< 0.400	1.00	mg/L								1
Blank (B1A0740-BLK6) <i>Prepared: 01/25/2021 16:40 Analyzed: 01/26/2021 05:53</i>											
Organic Carbon, Total	< 0.400	1.00	mg/L								1
Blank (B1A0740-BLK7) <i>Prepared: 01/25/2021 16:40 Analyzed: 01/26/2021 09:18</i>											
Organic Carbon, Total	< 0.400	1.00	mg/L								1
Blank (B1A0740-BLK8) <i>Prepared: 01/25/2021 16:40 Analyzed: 01/26/2021 09:37</i>											
Organic Carbon, Total	< 0.400	1.00	mg/L								1
LCS (B1A0740-BS1) <i>Prepared: 01/25/2021 16:40 Analyzed: 01/25/2021 18:09</i>											
Organic Carbon, Total	9.59	1.00	mg/L	10.00		95.9	90-110				1
MRL Check (B1A0740-MRL1) <i>Prepared: 01/25/2021 16:40 Analyzed: 01/25/2021 17:39</i>											
Organic Carbon, Total	1.40	1.00	mg/L	1.000		140	50-150				1
Matrix Spike (B1A0740-MS1) Source: 21A0660-01 <i>Prepared: 01/25/2021 16:40 Analyzed: 01/25/2021 19:32</i>											
Organic Carbon, Total	53.6	5.00	mg/L	50.00	ND	107	80-120				5
Matrix Spike (B1A0740-MS2) Source: 21A0717-19 <i>Prepared: 01/25/2021 16:40 Analyzed: 01/26/2021 03:37</i>											
Organic Carbon, Total	53.6	5.00	mg/L	50.00	4.37	98.5	80-120				5
Matrix Spike Dup (B1A0740-MSD1) Source: 21A0660-01 <i>Prepared: 01/25/2021 16:40 Analyzed: 01/25/2021 19:59</i>											
Organic Carbon, Total	54.4	5.00	mg/L	50.00	ND	109	80-120	1.67	15		5

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Wet Chemistry**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0740 (Continued)**Matrix Spike Dup (B1A0740-MSD2)****Source:** 21A0717-19

Prepared: 01/25/2021 16:40 Analyzed: 01/26/2021 03:57

Organic Carbon, Total	55.0	5.00	mg/L	50.00	4.37	101	80-120	2.58	15		5
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Batch: B1B0049**Blank (B1B0049-BLK1)**

Prepared: 02/02/2021 12:26 Analyzed: 02/02/2021 12:38

Organic Carbon, Total	< 0.400	1.00	mg/L								1
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Blank (B1B0049-BLK2)

Prepared: 02/02/2021 12:26 Analyzed: 02/02/2021 13:00

Organic Carbon, Total	< 0.400	1.00	mg/L								1
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Blank (B1B0049-BLK3)

Prepared: 02/02/2021 12:26 Analyzed: 02/02/2021 18:41

Organic Carbon, Total	0.413	1.00	mg/L							J	1
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Blank (B1B0049-BLK4)

Prepared: 02/02/2021 12:26 Analyzed: 02/02/2021 19:03

Organic Carbon, Total	0.430	1.00	mg/L							J	1
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Blank (B1B0049-BLK5)

Prepared: 02/02/2021 12:26 Analyzed: 02/02/2021 21:05

Organic Carbon, Total	< 0.400	1.00	mg/L								1
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Blank (B1B0049-BLK6)

Prepared: 02/02/2021 12:26 Analyzed: 02/02/2021 21:29

Organic Carbon, Total	0.430	1.00	mg/L							J	1
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LCS (B1B0049-BS1)

Prepared: 02/02/2021 12:26 Analyzed: 02/02/2021 13:49

Organic Carbon, Total	10.0	1.00	mg/L	10.00		100	90-110				1
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LCS (B1B0049-BS2)

Prepared: 02/02/2021 12:26 Analyzed: 02/02/2021 14:11

Organic Carbon, Total	24.9	1.00	mg/L	25.00		99.6	90-110				1
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MRL Check (B1B0049-MRL1)

Prepared: 02/02/2021 12:26 Analyzed: 02/02/2021 13:24

Organic Carbon, Total	1.16	1.00	mg/L	1.000		116	50-150				1
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Matrix Spike (B1B0049-MS1)**Source:** 21A0717-19RE1

Prepared: 02/02/2021 12:26 Analyzed: 02/02/2021 17:21

Organic Carbon, Total	53.0	5.00	mg/L	50.00	4.20	97.6	80-120				5
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Matrix Spike Dup (B1B0049-MSD1)**Source:** 21A0717-19RE1

Prepared: 02/02/2021 12:26 Analyzed: 02/02/2021 17:52

Organic Carbon, Total	53.6	5.00	mg/L	50.00	4.20	98.7	80-120	1.03	15		5
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Quality Control

(Continued)

Client: Geosyntec Consultants

Report Date: 02/10/2021

Project: Milw Die Cast

Matrix: Water

Work Order: 21A0717

Polychlorinated Biphenyls (PCBs) by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0660 - SW3510**Blank (B1A0660-BLK1)**

Prepared: 01/23/2021 09:04 Analyzed: 01/25/2021 09:53

Aroclor 1016	< 0.212	1.00	ug/L								1
Aroclor 1221	< 0.192	0.600	ug/L								1
Aroclor 1232	< 0.162	0.600	ug/L								1
Aroclor 1242	< 0.350	2.00	ug/L								1
Aroclor 1248	< 0.160	0.600	ug/L								1
Aroclor 1254	< 0.176	0.600	ug/L								1
Aroclor 1260	< 0.112	0.400	ug/L								1
Total PCB	< 0.192	0.600	ug/L								1
Surrogate: Decachlorobiphenyl	0.173		ug/L	0.2000		86	10-139				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.105		ug/L	0.2000		53	26-107				1

LCS (B1A0660-BS1)

Prepared: 01/23/2021 09:04 Analyzed: 01/25/2021 10:12

Aroclor 1016	0.250	1.00	ug/L	0.4000		62	50-106			J	1
Aroclor 1260	0.315	0.400	ug/L	0.4000		79	60-125			J	1
Surrogate: Decachlorobiphenyl	0.166		ug/L	0.2000		83	10-139				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.115		ug/L	0.2000		57	26-107				1

Matrix Spike (B1A0660-MS1)

Source: 21A0717-25

Prepared: 01/23/2021 09:04 Analyzed: 01/25/2021 10:49

Aroclor 1016	4.27	16.9	ug/L	6.745	ND	63	16-142			J	1
Aroclor 1260	5.57	6.75	ug/L	6.745	ND	83	53-112			J	1
Surrogate: Decachlorobiphenyl	2.98		ug/L	3.373		88	10-139				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	1.92		ug/L	3.373		57	26-107				1

Matrix Spike Dup (B1A0660-MSD1)

Source: 21A0717-25

Prepared: 01/23/2021 09:04 Analyzed: 01/25/2021 11:24

Aroclor 1016	5.05	18.1	ug/L	7.246	ND	70	16-142	17	20	J	1
Aroclor 1260	6.49	7.25	ug/L	7.246	ND	90	53-112	15	23	J	1
Surrogate: Decachlorobiphenyl	3.23		ug/L	3.623		89	10-139				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	2.29		ug/L	3.623		63	26-107				1

Batch: B1A0750 - SW3510**Blank (B1A0750-BLK1)**

Prepared: 01/26/2021 10:02 Analyzed: 01/27/2021 12:24

Aroclor 1016	< 0.212	1.00	ug/L								1
Aroclor 1221	< 0.192	0.600	ug/L								1
Aroclor 1232	< 0.162	0.600	ug/L								1
Aroclor 1242	< 0.350	2.00	ug/L								1
Aroclor 1248	< 0.160	0.600	ug/L								1
Aroclor 1254	< 0.176	0.600	ug/L								1
Aroclor 1260	< 0.112	0.400	ug/L								1
Total PCB	< 0.192	0.600	ug/L								1
Surrogate: Decachlorobiphenyl	0.185		ug/L	0.2000		93	10-139				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Polychlorinated Biphenyls (PCBs) by GC/ECD**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0750 - SW3510 (Continued)**Blank (B1A0750-BLK1) (Continued)**

Prepared: 01/26/2021 10:02 Analyzed: 01/27/2021 12:24

Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.113		ug/L	0.2000		57	26-107				1
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LCS (B1A0750-BS1)

Prepared: 01/26/2021 10:02 Analyzed: 01/27/2021 12:41

Aroclor 1016	0.350	1.00	ug/L	0.4000		88	50-106			J	1
Aroclor 1260	0.373	0.400	ug/L	0.4000		93	60-125			J	1
Surrogate: Decachlorobiphenyl	0.178		ug/L	0.2000		89	10-139				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.110		ug/L	0.2000		55	26-107				1

Matrix Spike (B1A0750-MS1)**Source: 21A0717-19**

Prepared: 01/26/2021 10:02 Analyzed: 01/27/2021 14:06

Aroclor 1016 [2C]	0.397	1.15	ug/L	0.4588	ND	87	16-142			J	1
Aroclor 1260 [2C]	0.429	0.459	ug/L	0.4588	ND	93	53-112			J	1
Surrogate: Decachlorobiphenyl [2C]	0.217		ug/L	0.2294		95	10-139				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]	0.143		ug/L	0.2294		62	26-107				1

Matrix Spike Dup (B1A0750-MSD1)**Source: 21A0717-19**

Prepared: 01/26/2021 12:30 Analyzed: 01/27/2021 14:23

Aroclor 1016 [2C]	0.382	1.02	ug/L	0.4069	ND	94	16-142	4	20	J	1
Aroclor 1260 [2C]	0.382	0.407	ug/L	0.4069	ND	94	53-112	12	30	J	1
Surrogate: Decachlorobiphenyl [2C]	0.204		ug/L	0.2035		100	10-139				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]	0.151		ug/L	0.2035		74	26-107				1

Batch: B1A0753 - SW3510**Blank (B1A0753-BLK1)**

Prepared: 01/26/2021 12:30 Analyzed: 01/27/2021 15:43

Aroclor 1016	< 0.212	1.00	ug/L								1
Aroclor 1221	< 0.192	0.600	ug/L								1
Aroclor 1232	< 0.162	0.600	ug/L								1
Aroclor 1242	< 0.350	2.00	ug/L								1
Aroclor 1248	< 0.160	0.600	ug/L								1
Aroclor 1254	< 0.176	0.600	ug/L								1
Aroclor 1260	< 0.112	0.400	ug/L								1
Total PCB	< 0.192	0.600	ug/L								1
Surrogate: Decachlorobiphenyl	0.196		ug/L	0.2000		98	10-139				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.137		ug/L	0.2000		68	26-107				1

LCS (B1A0753-BS1)

Prepared: 01/26/2021 12:30 Analyzed: 01/27/2021 16:00

Aroclor 1016	0.326	1.00	ug/L	0.4000		81	50-106			J	1
Aroclor 1260	0.352	0.400	ug/L	0.4000		88	60-125			J	1
Surrogate: Decachlorobiphenyl	0.193		ug/L	0.2000		96	10-139				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.126		ug/L	0.2000		63	26-107				1

Quality Control

(Continued)

Client: Geosyntec Consultants

Report Date: 02/10/2021

Project: Milw Die Cast

Matrix: Water

Work Order: 21A0717

Polychlorinated Biphenyls (PCBs) by GC/ECD

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0753 - SW3510 (Continued)**Matrix Spike (B1A0753-MS1)**

Source: 21A0717-20

Prepared: 01/26/2021 12:30 Analyzed: 01/27/2021 18:33

Aroclor 1016 [2C]	0.453	1.01	ug/L	0.4048	ND	112	16-142			J	1
Aroclor 1260 [2C]	0.388	0.405	ug/L	0.4048	ND	96	53-112			J	1
Surrogate: Decachlorobiphenyl [2C]	0.198		ug/L	0.2024		98	10-139				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]	0.131		ug/L	0.2024		65	26-107				1

Matrix Spike Dup (B1A0753-MSD1)

Source: 21A0717-20

Prepared: 01/26/2021 12:30 Analyzed: 01/27/2021 18:50

Aroclor 1016 [2C]	0.393	1.05	ug/L	0.4184	ND	94	16-142	14	20	J	1
Aroclor 1260 [2C]	0.353	0.418	ug/L	0.4184	ND	84	53-112	9	30	J	1
Surrogate: Decachlorobiphenyl [2C]	0.196		ug/L	0.2092		94	10-139				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]	0.129		ug/L	0.2092		62	26-107				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Volatile Organic Compounds by GC/MS**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0768 - SW5030**Blank (B1A0768-BLK1)**

Prepared: 01/25/2021 14:00 Analyzed: 01/25/2021 17:36

1,1,1,2-Tetrachloroethane	< 4.00	4.00	ug/L								1
1,1,1-Trichloroethane	< 4.00	4.00	ug/L								1
1,1,2,2-Tetrachloroethane	< 4.00	4.00	ug/L								1
1,1,2-Trichloroethane	< 2.00	2.00	ug/L								1
1,1-Dichloroethane	< 4.00	4.00	ug/L								1
1,1-Dichloroethene	< 8.00	8.00	ug/L								1
1,1-Dichloropropene	< 2.00	2.00	ug/L								1
1,2,3-Trichlorobenzene	< 2.00	2.00	ug/L								1
1,2,3-Trichloropropane	< 4.00	4.00	ug/L								1
1,2,4-Trimethylbenzene	< 4.00	4.00	ug/L								1
1,2-Dibromo-3-chloropropane	< 8.00	8.00	ug/L								1
1,2-Dibromoethane	< 2.00	2.00	ug/L								1
1,2-Dichloroethane	< 4.00	4.00	ug/L								1
1,2-Dichloropropane	< 4.00	4.00	ug/L								1
1,3,5-Trimethylbenzene	< 2.00	2.00	ug/L								1
1,3-Dichloropropane	< 2.00	2.00	ug/L								1
2,2-Dichloropropane	< 8.00	8.00	ug/L								1
2-Butanone	< 28.0	28.0	ug/L								1
2-Chlorotoluene	< 2.00	2.00	ug/L								1
2-Hexanone	< 28.0	28.0	ug/L								1
4-Isopropyltoluene	< 4.00	4.00	ug/L								1
4-Methyl-2-pentanone	< 28.0	28.0	ug/L								1
Acetone	< 70.0	70.0	ug/L								1
Benzene	< 2.00	2.00	ug/L								1
Bromobenzene	< 2.00	2.00	ug/L								1
Bromochloromethane	< 4.00	4.00	ug/L								1
Bromodichloromethane	< 2.00	2.00	ug/L								1
Bromoform	< 4.00	4.00	ug/L								1
Bromomethane	< 8.00	8.00	ug/L								1
Carbon disulfide	< 4.00	4.00	ug/L								1
Carbon tetrachloride	< 4.00	4.00	ug/L								1
Chlorobenzene	< 2.00	2.00	ug/L								1
Chloroethane	< 4.00	4.00	ug/L								1
Chloroform	< 8.00	8.00	ug/L								1
Chloromethane	< 8.00	8.00	ug/L								1
cis-1,2-Dichloroethene	< 4.00	4.00	ug/L								1
cis-1,3-Dichloropropene	< 4.00	4.00	ug/L								1
Cyclohexane	< 2.00	2.00	ug/L								1
Dibromochloromethane	< 4.00	4.00	ug/L								1
Dibromomethane	< 2.00	2.00	ug/L								1
Dichlorodifluoromethane	< 2.00	2.00	ug/L								1
Ethylbenzene	< 2.00	2.00	ug/L								1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0768 - SW5030 (Continued)**Blank (B1A0768-BLK1) (Continued)**

Prepared: 01/25/2021 14:00 Analyzed: 01/25/2021 17:36

Isopropylbenzene	< 2.00	2.00	ug/L								1
m,p-Xylene	< 8.00	8.00	ug/L								1
Methyl tert-butyl ether	< 4.00	4.00	ug/L								1
Methylene chloride	< 8.00	8.00	ug/L								1
n-Butylbenzene	< 2.00	2.00	ug/L								1
n-Propylbenzene	< 2.00	2.00	ug/L								1
o-Xylene	< 2.00	2.00	ug/L								1
sec-Butylbenzene	< 2.00	2.00	ug/L								1
Styrene	< 8.00	8.00	ug/L								1
tert-Butylbenzene	< 4.00	4.00	ug/L								1
Tetrachloroethene	< 4.00	4.00	ug/L								1
Toluene	< 4.00	4.00	ug/L								1
trans-1,2-Dichloroethene	< 4.00	4.00	ug/L								1
trans-1,3-Dichloropropene	< 8.00	8.00	ug/L								1
Trichloroethene	< 4.00	4.00	ug/L								1
Trichlorofluoromethane	< 4.00	4.00	ug/L								1
Vinyl chloride	< 4.00	4.00	ug/L								1
Xylenes, Total	< 12.0	12.0	ug/L								1
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Surrogate: Dibromofluoromethane	20.9		ug/L	20.00		105	84-137				1
Surrogate: 1,2-Dichloroethane-d4	20.3		ug/L	20.00		102	74-140				1
Surrogate: Fluorobenzene	19.7		ug/L	20.00		99	90-105				1
Surrogate: Toluene-d8	19.4		ug/L	20.00		97	74-109				1
Surrogate: 4-Bromofluorobenzene	10.8		ug/L	10.00		108	86-128				1
Surrogate: 1,2-Dichlorobenzene-d4	20.2		ug/L	20.00		101	90-128				1

LCS (B1A0768-BS1)

Prepared: 01/25/2021 14:00 Analyzed: 01/25/2021 15:41

1,1,1,2-Tetrachloroethane	46.9	4.00	ug/L	50.00		94	84-122				1
1,1,1-Trichloroethane	48.0	4.00	ug/L	50.00		96	74-131				1
1,1,2,2-Tetrachloroethane	45.5	4.00	ug/L	50.00		91	71-121				1
1,1,2-Trichloroethane	48.5	2.00	ug/L	50.00		97	83-139				1
1,1-Dichloroethane	48.0	4.00	ug/L	50.00		96	77-125				1
1,1-Dichloroethene	47.1	8.00	ug/L	50.00		94	71-131				1
1,1-Dichloropropene	50.0	2.00	ug/L	50.00		100	79-125				1
1,2,3-Trichlorobenzene	47.8	2.00	ug/L	50.00		96	69-129				1
1,2,3-Trichloropropane	47.8	4.00	ug/L	50.00		96	73-122				1
1,2,4-Trimethylbenzene	47.9	4.00	ug/L	50.00		96	76-124				1
1,2-Dibromo-3-chloropropane	48.2	8.00	ug/L	50.00		96	72-124				1
1,2-Dibromoethane	47.2	2.00	ug/L	50.00		94	77-121				1
1,2-Dichloroethane	47.9	4.00	ug/L	50.00		96	73-128				1
1,2-Dichloropropane	48.4	4.00	ug/L	50.00		97	78-122				1
1,3,5-Trimethylbenzene	48.1	2.00	ug/L	50.00		96	75-124				1
1,3-Dichloropropane	50.1	2.00	ug/L	50.00		100	82-130				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0768 - SW5030 (Continued)**LCS (B1A0768-BS1)** (Continued)

Prepared: 01/25/2021 14:00 Analyzed: 01/25/2021 15:41

2,2-Dichloropropane	51.0	8.00	ug/L	50.00		102	60-139				1
2-Butanone	188	28.0	ug/L	175.0		107	71-119				1
2-Chlorotoluene	50.9	2.00	ug/L	50.00		102	79-122				1
2-Hexanone	182	28.0	ug/L	175.0		104	57-139				1
4-Isopropyltoluene	49.7	4.00	ug/L	50.00		99	77-127				1
4-Methyl-2-pentanone	168	28.0	ug/L	175.0		96	67-130				1
Acetone	191	70.0	ug/L	175.0		109	39-160				1
Benzene	48.3	2.00	ug/L	50.00		97	79-120				1
Bromobenzene	50.5	2.00	ug/L	50.00		101	80-132				1
Bromochloromethane	50.7	4.00	ug/L	50.00		101	78-123				1
Bromodichloromethane	47.9	2.00	ug/L	50.00		96	84-139				1
Bromoform	49.4	4.00	ug/L	50.00		99	66-130				1
Bromomethane	49.1	8.00	ug/L	50.00		98	56-150				1
Carbon disulfide	47.1	4.00	ug/L	50.00		94	80-124				1
Carbon tetrachloride	47.3	4.00	ug/L	50.00		95	75-125				1
Chlorobenzene	50.2	2.00	ug/L	50.00		100	82-118				1
Chloroethane	43.3	4.00	ug/L	50.00		87	60-138				1
Chloroform	47.7	8.00	ug/L	50.00		95	79-124				1
Chloromethane	52.4	8.00	ug/L	50.00		105	50-139				1
cis-1,2-Dichloroethene	48.6	4.00	ug/L	50.00		97	78-123				1
cis-1,3-Dichloropropene	49.4	4.00	ug/L	50.00		99	75-124				1
Cyclohexane	49.0	2.00	ug/L	50.00		98	71-130				1
Dibromochloromethane	47.8	4.00	ug/L	50.00		96	83-140				1
Dibromomethane	47.1	2.00	ug/L	50.00		94	79-138				1
Dichlorodifluoromethane	47.6	2.00	ug/L	50.00		95	66-150				1
Ethylbenzene	46.6	2.00	ug/L	50.00		93	79-137				1
Isopropylbenzene	47.1	2.00	ug/L	50.00		94	72-131				1
m,p-Xylene	94.5	8.00	ug/L	100.0		95	80-136				1
Methyl tert-butyl ether	48.6	4.00	ug/L	50.00		97	71-124				1
Methylene chloride	48.6	8.00	ug/L	50.00		97	74-124				1
n-Butylbenzene	50.0	2.00	ug/L	50.00		100	75-128				1
n-Propylbenzene	49.0	2.00	ug/L	50.00		98	76-126				1
o-Xylene	48.1	2.00	ug/L	50.00		96	78-122				1
sec-Butylbenzene	47.0	2.00	ug/L	50.00		94	77-126				1
Styrene	49.7	8.00	ug/L	50.00		99	78-123				1
tert-Butylbenzene	48.2	4.00	ug/L	50.00		96	78-124				1
Tetrachloroethene	49.7	4.00	ug/L	50.00		99	74-129				1
Toluene	45.9	4.00	ug/L	50.00		92	80-133				1
trans-1,2-Dichloroethene	48.9	4.00	ug/L	50.00		98	75-124				1
trans-1,3-Dichloropropene	46.7	8.00	ug/L	50.00		93	73-127				1
Trichloroethene	49.6	4.00	ug/L	50.00		99	84-129				1
Trichlorofluoromethane	45.5	4.00	ug/L	50.00		91	73-134				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0768 - SW5030 (Continued)**LCS (B1A0768-BS1) (Continued)**

Prepared: 01/25/2021 14:00 Analyzed: 01/25/2021 15:41

Vinyl chloride	48.6	4.00	ug/L	50.00		97	58-137				1
Xylenes, Total	143	12.0	ug/L	150.0		95	80-132				1
Surrogate: Dibromofluoromethane	20.0		ug/L	20.00		100	84-137				1
Surrogate: 1,2-Dichloroethane-d4	19.2		ug/L	20.00		96	74-140				1
Surrogate: Fluorobenzene	19.6		ug/L	20.00		98	90-105				1
Surrogate: Toluene-d8	19.6		ug/L	20.00		98	74-109				1
Surrogate: 4-Bromofluorobenzene	9.28		ug/L	10.00		93	86-128				1
Surrogate: 1,2-Dichlorobenzene-d4	19.1		ug/L	20.00		95	90-128				1

Matrix Spike (B1A0768-MS1)**Source: 21A0717-19**

Prepared: 01/25/2021 14:00 Analyzed: 01/25/2021 16:19

1,1,1,2-Tetrachloroethane	45.1	4.00	ug/L	50.00	ND	90	70-130				1
1,1,1-Trichloroethane	48.2	4.00	ug/L	50.00	ND	96	70-130				1
1,1,2,2-Tetrachloroethane	44.5	4.00	ug/L	50.00	ND	89	70-130				1
1,1,2-Trichloroethane	48.5	2.00	ug/L	50.00	ND	97	70-130				1
1,1-Dichloroethane	47.3	4.00	ug/L	50.00	ND	95	70-130				1
1,1-Dichloroethene	48.6	8.00	ug/L	50.00	ND	97	70-130				1
1,1-Dichloropropene	51.6	2.00	ug/L	50.00	ND	103	70-130				1
1,2,3-Trichlorobenzene	46.8	2.00	ug/L	50.00	ND	94	70-130				1
1,2,3-Trichloropropane	45.5	4.00	ug/L	50.00	ND	91	70-130				1
1,2,4-Trimethylbenzene	46.6	4.00	ug/L	50.00	ND	93	70-130				1
1,2-Dibromo-3-chloropropane	42.1	8.00	ug/L	50.00	ND	84	70-130				1
1,2-Dibromoethane	46.2	2.00	ug/L	50.00	ND	92	70-130				1
1,2-Dichloroethane	46.8	4.00	ug/L	50.00	ND	94	70-130				1
1,2-Dichloropropane	48.1	4.00	ug/L	50.00	ND	96	70-130				1
1,3,5-Trimethylbenzene	46.0	2.00	ug/L	50.00	ND	92	70-130				1
1,3-Dichloropropane	48.3	2.00	ug/L	50.00	ND	97	70-130				1
2,2-Dichloropropane	52.2	8.00	ug/L	50.00	ND	104	70-130				1
2-Butanone	177	28.0	ug/L	175.0	ND	101	70-130				1
2-Chlorotoluene	48.1	2.00	ug/L	50.00	ND	96	70-130				1
2-Hexanone	167	28.0	ug/L	175.0	ND	95	70-130				1
4-Isopropyltoluene	48.8	4.00	ug/L	50.00	ND	98	70-130				1
4-Methyl-2-pentanone	163	28.0	ug/L	175.0	ND	93	70-130				1
Acetone	161	70.0	ug/L	175.0	ND	92	70-130				1
Benzene	47.3	2.00	ug/L	50.00	ND	95	70-130				1
Bromobenzene	48.1	2.00	ug/L	50.00	ND	96	70-130				1
Bromochloromethane	50.4	4.00	ug/L	50.00	ND	101	70-130				1
Bromodichloromethane	47.0	2.00	ug/L	50.00	ND	94	70-130				1
Bromoform	47.1	4.00	ug/L	50.00	ND	94	70-130				1
Bromomethane	52.3	8.00	ug/L	50.00	ND	105	70-130				1
Carbon disulfide	49.1	4.00	ug/L	50.00	ND	98	70-130				1
Carbon tetrachloride	47.1	4.00	ug/L	50.00	ND	94	70-130				1
Chlorobenzene	47.9	2.00	ug/L	50.00	ND	96	70-130				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0768 - SW5030 (Continued)**Matrix Spike (B1A0768-MS1) (Continued)****Source: 21A0717-19**

Prepared: 01/25/2021 14:00 Analyzed: 01/25/2021 16:19

Chloroethane	43.3	4.00	ug/L	50.00	ND	87	70-130				1
Chloroform	47.9	8.00	ug/L	50.00	ND	96	70-130				1
Chloromethane	52.4	8.00	ug/L	50.00	ND	105	70-130				1
cis-1,2-Dichloroethene	48.5	4.00	ug/L	50.00	ND	97	70-130				1
cis-1,3-Dichloropropene	47.7	4.00	ug/L	50.00	ND	95	70-130				1
Cyclohexane	51.1	2.00	ug/L	50.00	ND	102	70-130				1
Dibromochloromethane	47.6	4.00	ug/L	50.00	ND	95	70-130				1
Dibromomethane	47.0	2.00	ug/L	50.00	ND	94	70-130				1
Dichlorodifluoromethane	49.6	2.00	ug/L	50.00	ND	99	70-130				1
Ethylbenzene	45.2	2.00	ug/L	50.00	ND	90	70-130				1
Isopropylbenzene	45.5	2.00	ug/L	50.00	ND	91	70-130				1
m,p-Xylene	92.1	8.00	ug/L	100.0	ND	92	70-130				1
Methyl tert-butyl ether	48.4	4.00	ug/L	50.00	ND	97	70-130				1
Methylene chloride	48.6	8.00	ug/L	50.00	ND	97	70-130				1
n-Butylbenzene	49.3	2.00	ug/L	50.00	ND	99	70-130				1
n-Propylbenzene	47.4	2.00	ug/L	50.00	ND	95	70-130				1
o-Xylene	46.6	2.00	ug/L	50.00	ND	93	70-130				1
sec-Butylbenzene	45.5	2.00	ug/L	50.00	ND	91	70-130				1
Styrene	48.3	8.00	ug/L	50.00	ND	97	70-130				1
tert-Butylbenzene	46.2	4.00	ug/L	50.00	ND	92	70-130				1
Tetrachloroethene	44.7	4.00	ug/L	50.00	ND	89	70-130				1
Toluene	44.7	4.00	ug/L	50.00	ND	89	70-130				1
trans-1,2-Dichloroethene	48.6	4.00	ug/L	50.00	ND	97	70-130				1
trans-1,3-Dichloropropene	47.1	8.00	ug/L	50.00	ND	94	70-130				1
Trichloroethene	48.8	4.00	ug/L	50.00	ND	98	70-130				1
Trichlorofluoromethane	47.7	4.00	ug/L	50.00	ND	95	70-130				1
Vinyl chloride	48.8	4.00	ug/L	50.00	ND	98	70-130				1
Xylenes, Total	139	12.0	ug/L	150.0	ND	92	70-130				1
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Surrogate: Dibromofluoromethane	20.6		ug/L	20.00		103	84-137				1
Surrogate: 1,2-Dichloroethane-d4	19.3		ug/L	20.00		97	74-140				1
Surrogate: Fluorobenzene	19.7		ug/L	20.00		98	90-105				1
Surrogate: Toluene-d8	19.2		ug/L	20.00		96	74-109				1
Surrogate: 4-Bromofluorobenzene	9.93		ug/L	10.00		99	86-128				1
Surrogate: 1,2-Dichlorobenzene-d4	18.8		ug/L	20.00		94	90-128				1

Matrix Spike Dup (B1A0768-MSD1)**Source: 21A0717-19**

Prepared: 01/25/2021 14:00 Analyzed: 01/25/2021 16:45

1,1,1,2-Tetrachloroethane	48.2	4.00	ug/L	50.00	ND	96	70-130	7	20		1
1,1,1-Trichloroethane	50.1	4.00	ug/L	50.00	ND	100	70-130	4	20		1
1,1,2,2-Tetrachloroethane	49.3	4.00	ug/L	50.00	ND	99	70-130	10	20		1
1,1,2-Trichloroethane	49.9	2.00	ug/L	50.00	ND	100	70-130	3	20		1
1,1-Dichloroethane	49.9	4.00	ug/L	50.00	ND	100	70-130	5	20		1
1,1-Dichloroethene	50.9	8.00	ug/L	50.00	ND	102	70-130	5	20		1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0768 - SW5030 (Continued)**Matrix Spike Dup (B1A0768-MSD1)** (Continued)**Source: 21A0717-19**

Prepared: 01/25/2021 14:00 Analyzed: 01/25/2021 16:45

1,1-Dichloropropene	53.2	2.00	ug/L	50.00	ND	106	70-130	3	20		1
1,2,3-Trichlorobenzene	48.0	2.00	ug/L	50.00	ND	96	70-130	2	20		1
1,2,3-Trichloropropane	50.1	4.00	ug/L	50.00	ND	100	70-130	10	20		1
1,2,4-Trimethylbenzene	50.1	4.00	ug/L	50.00	ND	100	70-130	7	20		1
1,2-Dibromo-3-chloropropane	49.2	8.00	ug/L	50.00	ND	98	70-130	16	20		1
1,2-Dibromoethane	48.2	2.00	ug/L	50.00	ND	96	70-130	4	20		1
1,2-Dichloroethane	48.5	4.00	ug/L	50.00	ND	97	70-130	4	20		1
1,2-Dichloropropane	49.7	4.00	ug/L	50.00	ND	99	70-130	3	20		1
1,3,5-Trimethylbenzene	50.0	2.00	ug/L	50.00	ND	100	70-130	8	20		1
1,3-Dichloropropane	50.6	2.00	ug/L	50.00	ND	101	70-130	5	20		1
2,2-Dichloropropane	53.0	8.00	ug/L	50.00	ND	106	70-130	2	20		1
2-Butanone	185	28.0	ug/L	175.0	ND	106	70-130	4	20		1
2-Chlorotoluene	52.9	2.00	ug/L	50.00	ND	106	70-130	9	20		1
2-Hexanone	177	28.0	ug/L	175.0	ND	101	70-130	6	20		1
4-Isopropyltoluene	51.6	4.00	ug/L	50.00	ND	103	70-130	5	20		1
4-Methyl-2-pentanone	174	28.0	ug/L	175.0	ND	100	70-130	7	20		1
Acetone	165	70.0	ug/L	175.0	ND	95	70-130	3	20		1
Benzene	49.3	2.00	ug/L	50.00	ND	99	70-130	4	20		1
Bromobenzene	52.6	2.00	ug/L	50.00	ND	105	70-130	9	20		1
Bromochloromethane	52.1	4.00	ug/L	50.00	ND	104	70-130	3	20		1
Bromodichloromethane	48.0	2.00	ug/L	50.00	ND	96	70-130	2	20		1
Bromoform	48.1	4.00	ug/L	50.00	ND	96	70-130	2	20		1
Bromomethane	50.0	8.00	ug/L	50.00	ND	100	70-130	5	20		1
Carbon disulfide	50.8	4.00	ug/L	50.00	ND	102	70-130	3	20		1
Carbon tetrachloride	49.3	4.00	ug/L	50.00	ND	99	70-130	5	20		1
Chlorobenzene	50.8	2.00	ug/L	50.00	ND	102	70-130	6	20		1
Chloroethane	46.6	4.00	ug/L	50.00	ND	93	70-130	7	20		1
Chloroform	48.9	8.00	ug/L	50.00	ND	98	70-130	2	20		1
Chloromethane	55.4	8.00	ug/L	50.00	ND	111	70-130	6	20		1
cis-1,2-Dichloroethene	49.4	4.00	ug/L	50.00	ND	99	70-130	2	20		1
cis-1,3-Dichloropropene	49.3	4.00	ug/L	50.00	ND	99	70-130	3	20		1
Cyclohexane	52.8	2.00	ug/L	50.00	ND	106	70-130	3	20		1
Dibromochloromethane	48.4	4.00	ug/L	50.00	ND	97	70-130	2	20		1
Dibromomethane	47.1	2.00	ug/L	50.00	ND	94	70-130	0.1	20		1
Dichlorodifluoromethane	51.0	2.00	ug/L	50.00	ND	102	70-130	3	20		1
Ethylbenzene	46.9	2.00	ug/L	50.00	ND	94	70-130	4	20		1
Isopropylbenzene	49.4	2.00	ug/L	50.00	ND	99	70-130	8	20		1
m,p-Xylene	96.0	8.00	ug/L	100.0	ND	96	70-130	4	20		1
Methyl tert-butyl ether	49.4	4.00	ug/L	50.00	ND	99	70-130	2	20		1
Methylene chloride	50.6	8.00	ug/L	50.00	ND	101	70-130	4	20		1
n-Butylbenzene	52.5	2.00	ug/L	50.00	ND	105	70-130	6	20		1
n-Propylbenzene	52.1	2.00	ug/L	50.00	ND	104	70-130	9	20		1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0768 - SW5030 (Continued)**Matrix Spike Dup (B1A0768-MSD1) (Continued)****Source: 21A0717-19**

Prepared: 01/25/2021 14:00 Analyzed: 01/25/2021 16:45

o-Xylene	49.9	2.00	ug/L	50.00	ND	100	70-130	7	20		1
sec-Butylbenzene	49.2	2.00	ug/L	50.00	ND	98	70-130	8	20		1
Styrene	50.2	8.00	ug/L	50.00	ND	100	70-130	4	20		1
tert-Butylbenzene	50.5	4.00	ug/L	50.00	ND	101	70-130	9	20		1
Tetrachloroethene	47.6	4.00	ug/L	50.00	ND	95	70-130	6	20		1
Toluene	46.7	4.00	ug/L	50.00	ND	93	70-130	4	20		1
trans-1,2-Dichloroethene	51.0	4.00	ug/L	50.00	ND	102	70-130	5	20		1
trans-1,3-Dichloropropene	47.8	8.00	ug/L	50.00	ND	96	70-130	1	20		1
Trichloroethene	51.1	4.00	ug/L	50.00	ND	102	70-130	4	20		1
Trichlorofluoromethane	48.5	4.00	ug/L	50.00	ND	97	70-130	2	20		1
Vinyl chloride	52.1	4.00	ug/L	50.00	ND	104	70-130	7	20		1
Xylenes, Total	146	12.0	ug/L	150.0	ND	97	70-130	5	20		1
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Surrogate: Dibromofluoromethane	20.3		ug/L	20.00		101	84-137				1
Surrogate: 1,2-Dichloroethane-d4	19.8		ug/L	20.00		99	74-140				1
Surrogate: Fluorobenzene	19.7		ug/L	20.00		99	90-105				1
Surrogate: Toluene-d8	19.3		ug/L	20.00		97	74-109				1
Surrogate: 4-Bromofluorobenzene	9.97		ug/L	10.00		100	86-128				1
Surrogate: 1,2-Dichlorobenzene-d4	19.5		ug/L	20.00		97	90-128				1

Batch: B1A0778 - SW5030**Blank (B1A0778-BLK1)**

Prepared: 01/26/2021 11:00 Analyzed: 01/26/2021 14:14

1,1,1,2-Tetrachloroethane	< 4.00	4.00	ug/L								1
1,1,1-Trichloroethane	< 4.00	4.00	ug/L								1
1,1,2,2-Tetrachloroethane	< 4.00	4.00	ug/L								1
1,1,2-Trichloroethane	< 2.00	2.00	ug/L								1
1,1-Dichloroethane	< 4.00	4.00	ug/L								1
1,1-Dichloroethene	< 8.00	8.00	ug/L								1
1,1-Dichloropropene	< 2.00	2.00	ug/L								1
1,2,3-Trichlorobenzene	< 2.00	2.00	ug/L								1
1,2,3-Trichloropropane	< 4.00	4.00	ug/L								1
1,2,4-Trimethylbenzene	< 4.00	4.00	ug/L								1
1,2-Dibromo-3-chloropropane	< 8.00	8.00	ug/L								1
1,2-Dibromoethane	< 2.00	2.00	ug/L								1
1,2-Dichloroethane	< 4.00	4.00	ug/L								1
1,2-Dichloropropane	< 4.00	4.00	ug/L								1
1,3,5-Trimethylbenzene	< 2.00	2.00	ug/L								1
1,3-Dichloropropane	< 2.00	2.00	ug/L								1
2,2-Dichloropropane	< 8.00	8.00	ug/L								1
2-Butanone	< 28.0	28.0	ug/L								1
2-Chlorotoluene	< 2.00	2.00	ug/L								1
2-Hexanone	< 28.0	28.0	ug/L								1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0778 - SW5030 (Continued)**Blank (B1A0778-BLK1)** (Continued)

Prepared: 01/26/2021 11:00 Analyzed: 01/26/2021 14:14

4-Isopropyltoluene	< 4.00	4.00	ug/L								1
4-Methyl-2-pentanone	< 28.0	28.0	ug/L								1
Acetone	< 70.0	70.0	ug/L								1
Benzene	< 2.00	2.00	ug/L								1
Bromobenzene	< 2.00	2.00	ug/L								1
Bromochloromethane	< 4.00	4.00	ug/L								1
Bromodichloromethane	< 2.00	2.00	ug/L								1
Bromoform	< 4.00	4.00	ug/L								1
Bromomethane	< 8.00	8.00	ug/L								1
Carbon disulfide	< 4.00	4.00	ug/L								1
Carbon tetrachloride	< 4.00	4.00	ug/L								1
Chlorobenzene	< 2.00	2.00	ug/L								1
Chloroethane	< 4.00	4.00	ug/L								1
Chloroform	< 8.00	8.00	ug/L								1
Chloromethane	< 8.00	8.00	ug/L								1
cis-1,2-Dichloroethene	< 4.00	4.00	ug/L								1
cis-1,3-Dichloropropene	< 4.00	4.00	ug/L								1
Cyclohexane	< 2.00	2.00	ug/L								1
Dibromochloromethane	< 4.00	4.00	ug/L								1
Dibromomethane	< 2.00	2.00	ug/L								1
Dichlorodifluoromethane	< 2.00	2.00	ug/L								1
Ethylbenzene	< 2.00	2.00	ug/L								1
Isopropylbenzene	< 2.00	2.00	ug/L								1
m,p-Xylene	< 8.00	8.00	ug/L								1
Methyl tert-butyl ether	< 4.00	4.00	ug/L								1
Methylene chloride	< 8.00	8.00	ug/L								1
n-Butylbenzene	< 2.00	2.00	ug/L								1
n-Propylbenzene	< 2.00	2.00	ug/L								1
o-Xylene	< 2.00	2.00	ug/L								1
sec-Butylbenzene	< 2.00	2.00	ug/L								1
Styrene	< 8.00	8.00	ug/L								1
tert-Butylbenzene	< 4.00	4.00	ug/L								1
Tetrachloroethene	< 4.00	4.00	ug/L								1
Toluene	< 4.00	4.00	ug/L								1
trans-1,2-Dichloroethene	< 4.00	4.00	ug/L								1
trans-1,3-Dichloropropene	< 8.00	8.00	ug/L								1
Trichloroethene	< 4.00	4.00	ug/L								1
Trichlorofluoromethane	< 4.00	4.00	ug/L								1
Vinyl chloride	< 4.00	4.00	ug/L								1
Xylenes, Total	< 12.0	12.0	ug/L								1
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Surrogate: Dibromofluoromethane	21.1		ug/L	20.00		105	84-137				1
Surrogate: 1,2-Dichloroethane-d4	20.7		ug/L	20.00		104	74-140				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0778 - SW5030 (Continued)**Blank (B1A0778-BLK1) (Continued)**

Prepared: 01/26/2021 11:00 Analyzed: 01/26/2021 14:14

Surrogate: Fluorobenzene	19.5		ug/L	20.00		97	90-105				1
Surrogate: Toluene-d8	19.3		ug/L	20.00		97	74-109				1
Surrogate: 4-Bromofluorobenzene	10.4		ug/L	10.00		104	86-128				1
Surrogate: 1,2-Dichlorobenzene-d4	20.5		ug/L	20.00		103	90-128				1

LCS (B1A0778-BS1)

Prepared: 01/26/2021 11:00 Analyzed: 01/26/2021 12:14

1,1,1,2-Tetrachloroethane	47.7	4.00	ug/L	50.00		95	84-122				1
1,1,1-Trichloroethane	50.1	4.00	ug/L	50.00		100	74-131				1
1,1,2,2-Tetrachloroethane	48.6	4.00	ug/L	50.00		97	71-121				1
1,1,2-Trichloroethane	50.9	2.00	ug/L	50.00		102	83-139				1
1,1-Dichloroethane	50.3	4.00	ug/L	50.00		101	77-125				1
1,1-Dichloroethene	49.1	8.00	ug/L	50.00		98	71-131				1
1,1-Dichloropropene	51.9	2.00	ug/L	50.00		104	79-125				1
1,2,3-Trichlorobenzene	49.9	2.00	ug/L	50.00		100	69-129				1
1,2,3-Trichloropropane	50.4	4.00	ug/L	50.00		101	73-122				1
1,2,4-Trimethylbenzene	49.7	4.00	ug/L	50.00		99	76-124				1
1,2-Dibromo-3-chloropropane	51.9	8.00	ug/L	50.00		104	72-124				1
1,2-Dibromoethane	49.4	2.00	ug/L	50.00		99	77-121				1
1,2-Dichloroethane	49.9	4.00	ug/L	50.00		100	73-128				1
1,2-Dichloropropane	49.3	4.00	ug/L	50.00		99	78-122				1
1,3,5-Trimethylbenzene	50.2	2.00	ug/L	50.00		100	75-124				1
1,3-Dichloropropane	51.3	2.00	ug/L	50.00		103	82-130				1
2,2-Dichloropropane	52.9	8.00	ug/L	50.00		106	60-139				1
2-Butanone	190	28.0	ug/L	175.0		109	71-119				1
2-Chlorotoluene	51.4	2.00	ug/L	50.00		103	79-122				1
2-Hexanone	185	28.0	ug/L	175.0		106	57-139				1
4-Isopropyltoluene	50.7	4.00	ug/L	50.00		101	77-127				1
4-Methyl-2-pentanone	175	28.0	ug/L	175.0		100	67-130				1
Acetone	178	70.0	ug/L	175.0		102	39-160				1
Benzene	48.7	2.00	ug/L	50.00		97	79-120				1
Bromobenzene	52.4	2.00	ug/L	50.00		105	80-132				1
Bromochloromethane	54.3	4.00	ug/L	50.00		109	78-123				1
Bromodichloromethane	47.7	2.00	ug/L	50.00		95	84-139				1
Bromoform	50.2	4.00	ug/L	50.00		100	66-130				1
Bromomethane	52.3	8.00	ug/L	50.00		105	56-150				1
Carbon disulfide	50.0	4.00	ug/L	50.00		100	80-124				1
Carbon tetrachloride	47.6	4.00	ug/L	50.00		95	75-125				1
Chlorobenzene	49.8	2.00	ug/L	50.00		100	82-118				1
Chloroethane	45.4	4.00	ug/L	50.00		91	60-138				1
Chloroform	50.5	8.00	ug/L	50.00		101	79-124				1
Chloromethane	56.1	8.00	ug/L	50.00		112	50-139				1
cis-1,2-Dichloroethene	51.9	4.00	ug/L	50.00		104	78-123				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0778 - SW5030 (Continued)**LCS (B1A0778-BS1) (Continued)**

Prepared: 01/26/2021 11:00 Analyzed: 01/26/2021 12:14

cis-1,3-Dichloropropene	50.1	4.00	ug/L	50.00		100	75-124				1
Cyclohexane	50.2	2.00	ug/L	50.00		100	71-130				1
Dibromochloromethane	48.9	4.00	ug/L	50.00		98	83-140				1
Dibromomethane	48.9	2.00	ug/L	50.00		98	79-138				1
Dichlorodifluoromethane	48.0	2.00	ug/L	50.00		96	66-150				1
Ethylbenzene	45.9	2.00	ug/L	50.00		92	79-137				1
Isopropylbenzene	48.4	2.00	ug/L	50.00		97	72-131				1
m,p-Xylene	94.3	8.00	ug/L	100.0		94	80-136				1
Methyl tert-butyl ether	51.6	4.00	ug/L	50.00		103	71-124				1
Methylene chloride	51.2	8.00	ug/L	50.00		102	74-124				1
n-Butylbenzene	51.1	2.00	ug/L	50.00		102	75-128				1
n-Propylbenzene	50.8	2.00	ug/L	50.00		102	76-126				1
o-Xylene	50.1	2.00	ug/L	50.00		100	78-122				1
sec-Butylbenzene	47.9	2.00	ug/L	50.00		96	77-126				1
Styrene	50.7	8.00	ug/L	50.00		101	78-123				1
tert-Butylbenzene	49.6	4.00	ug/L	50.00		99	78-124				1
Tetrachloroethene	50.2	4.00	ug/L	50.00		100	74-129				1
Toluene	46.1	4.00	ug/L	50.00		92	80-133				1
trans-1,2-Dichloroethene	51.2	4.00	ug/L	50.00		102	75-124				1
trans-1,3-Dichloropropene	47.9	8.00	ug/L	50.00		96	73-127				1
Trichloroethene	50.7	4.00	ug/L	50.00		101	84-129				1
Trichlorofluoromethane	47.9	4.00	ug/L	50.00		96	73-134				1
Vinyl chloride	51.4	4.00	ug/L	50.00		103	58-137				1
Xylenes, Total	144	12.0	ug/L	150.0		96	80-132				1
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Surrogate: Dibromofluoromethane	21.4		ug/L	20.00		107	84-137				1
Surrogate: 1,2-Dichloroethane-d4	20.4		ug/L	20.00		102	74-140				1
Surrogate: Fluorobenzene	20.1		ug/L	20.00		101	90-105				1
Surrogate: Toluene-d8	19.6		ug/L	20.00		98	74-109				1
Surrogate: 4-Bromofluorobenzene	10.6		ug/L	10.00		106	86-128				1
Surrogate: 1,2-Dichlorobenzene-d4	20.1		ug/L	20.00		100	90-128				1

Matrix Spike (B1A0778-MS1)**Source: 21A0717-19RE1**

Prepared: 01/26/2021 11:00 Analyzed: 01/26/2021 12:57

1,1,1,2-Tetrachloroethane	48.6	4.00	ug/L	50.00	ND	97	70-130				1
1,1,1-Trichloroethane	50.4	4.00	ug/L	50.00	ND	101	70-130				1
1,1,1,2-Tetrachloroethane	46.0	4.00	ug/L	50.00	ND	92	70-130				1
1,1,2-Trichloroethane	49.4	2.00	ug/L	50.00	ND	99	70-130				1
1,1-Dichloroethane	49.4	4.00	ug/L	50.00	ND	99	70-130				1
1,1-Dichloroethene	51.0	8.00	ug/L	50.00	ND	102	70-130				1
1,1-Dichloropropene	54.4	2.00	ug/L	50.00	ND	109	70-130				1
1,2,3-Trichlorobenzene	47.9	2.00	ug/L	50.00	ND	96	70-130				1
1,2,3-Trichloropropane	46.2	4.00	ug/L	50.00	ND	92	70-130				1
1,2,4-Trimethylbenzene	49.7	4.00	ug/L	50.00	ND	99	70-130				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0778 - SW5030 (Continued)**Matrix Spike (B1A0778-MS1) (Continued)****Source: 21A0717-19RE1**

Prepared: 01/26/2021 11:00 Analyzed: 01/26/2021 12:57

1,2-Dibromo-3-chloropropane	43.8	8.00	ug/L	50.00	ND	88	70-130				1
1,2-Dibromoethane	48.8	2.00	ug/L	50.00	ND	98	70-130				1
1,2-Dichloroethane	49.0	4.00	ug/L	50.00	ND	98	70-130				1
1,2-Dichloropropane	49.6	4.00	ug/L	50.00	ND	99	70-130				1
1,3,5-Trimethylbenzene	49.6	2.00	ug/L	50.00	ND	99	70-130				1
1,3-Dichloropropane	51.7	2.00	ug/L	50.00	ND	103	70-130				1
2,2-Dichloropropane	54.9	8.00	ug/L	50.00	ND	110	70-130				1
2-Butanone	171	28.0	ug/L	175.0	ND	98	70-130				1
2-Chlorotoluene	52.1	2.00	ug/L	50.00	ND	104	70-130				1
2-Hexanone	165	28.0	ug/L	175.0	ND	94	70-130				1
4-Isopropyltoluene	52.4	4.00	ug/L	50.00	ND	105	70-130				1
4-Methyl-2-pentanone	156	28.0	ug/L	175.0	ND	89	70-130				1
Acetone	157	70.0	ug/L	175.0	ND	90	70-130				1
Benzene	49.3	2.00	ug/L	50.00	ND	99	70-130				1
Bromobenzene	51.6	2.00	ug/L	50.00	ND	103	70-130				1
Bromochloromethane	52.0	4.00	ug/L	50.00	ND	104	70-130				1
Bromodichloromethane	47.8	2.00	ug/L	50.00	ND	96	70-130				1
Bromoform	49.5	4.00	ug/L	50.00	ND	99	70-130				1
Bromomethane	55.5	8.00	ug/L	50.00	ND	111	70-130				1
Carbon disulfide	51.5	4.00	ug/L	50.00	ND	103	70-130				1
Carbon tetrachloride	49.5	4.00	ug/L	50.00	ND	99	70-130				1
Chlorobenzene	51.4	2.00	ug/L	50.00	ND	103	70-130				1
Chloroethane	46.4	4.00	ug/L	50.00	ND	93	70-130				1
Chloroform	49.3	8.00	ug/L	50.00	ND	99	70-130				1
Chloromethane	56.2	8.00	ug/L	50.00	ND	112	70-130				1
cis-1,2-Dichloroethene	50.4	4.00	ug/L	50.00	ND	101	70-130				1
cis-1,3-Dichloropropene	49.3	4.00	ug/L	50.00	ND	99	70-130				1
Cyclohexane	52.2	2.00	ug/L	50.00	ND	104	70-130				1
Dibromochloromethane	50.5	4.00	ug/L	50.00	ND	101	70-130				1
Dibromomethane	48.1	2.00	ug/L	50.00	ND	96	70-130				1
Dichlorodifluoromethane	50.8	2.00	ug/L	50.00	ND	102	70-130				1
Ethylbenzene	49.5	2.00	ug/L	50.00	ND	99	70-130				1
Isopropylbenzene	48.5	2.00	ug/L	50.00	ND	97	70-130				1
m,p-Xylene	100	8.00	ug/L	100.0	ND	100	70-130				1
Methyl tert-butyl ether	49.7	4.00	ug/L	50.00	ND	99	70-130				1
Methylene chloride	50.6	8.00	ug/L	50.00	ND	101	70-130				1
n-Butylbenzene	54.5	2.00	ug/L	50.00	ND	109	70-130				1
n-Propylbenzene	51.3	2.00	ug/L	50.00	ND	103	70-130				1
o-Xylene	49.7	2.00	ug/L	50.00	ND	99	70-130				1
sec-Butylbenzene	49.3	2.00	ug/L	50.00	ND	99	70-130				1
Styrene	52.5	8.00	ug/L	50.00	ND	105	70-130				1
tert-Butylbenzene	50.8	4.00	ug/L	50.00	ND	102	70-130				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0778 - SW5030 (Continued)**Matrix Spike (B1A0778-MS1) (Continued)****Source:** 21A0717-19RE1

Prepared: 01/26/2021 11:00 Analyzed: 01/26/2021 12:57

Tetrachloroethene	50.9	4.00	ug/L	50.00	ND	102	70-130				1
Toluene	47.8	4.00	ug/L	50.00	ND	96	70-130				1
trans-1,2-Dichloroethene	52.2	4.00	ug/L	50.00	ND	104	70-130				1
trans-1,3-Dichloropropene	47.3	8.00	ug/L	50.00	ND	95	70-130				1
Trichloroethene	50.8	4.00	ug/L	50.00	ND	102	70-130				1
Trichlorofluoromethane	49.6	4.00	ug/L	50.00	ND	99	70-130				1
Vinyl chloride	53.0	4.00	ug/L	50.00	ND	106	70-130				1
Xylenes, Total	150	12.0	ug/L	150.0	ND	100	70-130				1
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Surrogate: Dibromofluoromethane	20.6		ug/L	20.00		103	84-137				1
Surrogate: 1,2-Dichloroethane-d4	20.2		ug/L	20.00		101	74-140				1
Surrogate: Fluorobenzene	19.6		ug/L	20.00		98	90-105				1
Surrogate: Toluene-d8	19.5		ug/L	20.00		97	74-109				1
Surrogate: 4-Bromofluorobenzene	10.1		ug/L	10.00		101	86-128				1
Surrogate: 1,2-Dichlorobenzene-d4	19.4		ug/L	20.00		97	90-128				1

Matrix Spike Dup (B1A0778-MSD1)**Source:** 21A0717-19RE1

Prepared: 01/26/2021 11:00 Analyzed: 01/26/2021 13:22

1,1,1,2-Tetrachloroethane	47.1	4.00	ug/L	50.00	ND	94	70-130	3	20		1
1,1,1-Trichloroethane	52.0	4.00	ug/L	50.00	ND	104	70-130	3	20		1
1,1,2,2-Tetrachloroethane	47.7	4.00	ug/L	50.00	ND	95	70-130	4	20		1
1,1,2-Trichloroethane	49.9	2.00	ug/L	50.00	ND	100	70-130	1	20		1
1,1-Dichloroethane	50.6	4.00	ug/L	50.00	ND	101	70-130	2	20		1
1,1-Dichloroethene	51.2	8.00	ug/L	50.00	ND	102	70-130	0.5	20		1
1,1-Dichloropropene	54.2	2.00	ug/L	50.00	ND	108	70-130	0.4	20		1
1,2,3-Trichlorobenzene	49.6	2.00	ug/L	50.00	ND	99	70-130	3	20		1
1,2,3-Trichloropropane	49.6	4.00	ug/L	50.00	ND	99	70-130	7	20		1
1,2,4-Trimethylbenzene	52.2	4.00	ug/L	50.00	ND	104	70-130	5	20		1
1,2-Dibromo-3-chloropropane	45.6	8.00	ug/L	50.00	ND	91	70-130	4	20		1
1,2-Dibromoethane	48.3	2.00	ug/L	50.00	ND	97	70-130	1	20		1
1,2-Dichloroethane	49.8	4.00	ug/L	50.00	ND	100	70-130	1	20		1
1,2-Dichloropropane	50.3	4.00	ug/L	50.00	ND	101	70-130	2	20		1
1,3,5-Trimethylbenzene	49.8	2.00	ug/L	50.00	ND	100	70-130	0.4	20		1
1,3-Dichloropropane	50.0	2.00	ug/L	50.00	ND	100	70-130	3	20		1
2,2-Dichloropropane	54.9	8.00	ug/L	50.00	ND	110	70-130	0.1	20		1
2-Butanone	184	28.0	ug/L	175.0	ND	105	70-130	8	20		1
2-Chlorotoluene	53.4	2.00	ug/L	50.00	ND	107	70-130	3	20		1
2-Hexanone	171	28.0	ug/L	175.0	ND	98	70-130	3	20		1
4-Isopropyltoluene	53.6	4.00	ug/L	50.00	ND	107	70-130	2	20		1
4-Methyl-2-pentanone	170	28.0	ug/L	175.0	ND	97	70-130	8	20		1
Acetone	167	70.0	ug/L	175.0	ND	95	70-130	6	20		1
Benzene	50.0	2.00	ug/L	50.00	ND	100	70-130	1	20		1
Bromobenzene	52.0	2.00	ug/L	50.00	ND	104	70-130	0.7	20		1
Bromochloromethane	53.7	4.00	ug/L	50.00	ND	107	70-130	3	20		1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0778 - SW5030 (Continued)**Matrix Spike Dup (B1A0778-MSD1) (Continued)****Source: 21A0717-19RE1**

Prepared: 01/26/2021 11:00 Analyzed: 01/26/2021 13:22

Bromodichloromethane	49.2	2.00	ug/L	50.00	ND	98	70-130	3	20		1
Bromoform	49.3	4.00	ug/L	50.00	ND	99	70-130	0.3	20		1
Bromomethane	51.2	8.00	ug/L	50.00	ND	102	70-130	8	20		1
Carbon disulfide	52.7	4.00	ug/L	50.00	ND	105	70-130	2	20		1
Carbon tetrachloride	49.6	4.00	ug/L	50.00	ND	99	70-130	0.1	20		1
Chlorobenzene	49.8	2.00	ug/L	50.00	ND	100	70-130	3	20		1
Chloroethane	46.3	4.00	ug/L	50.00	ND	93	70-130	0.2	20		1
Chloroform	50.5	8.00	ug/L	50.00	ND	101	70-130	2	20		1
Chloromethane	57.2	8.00	ug/L	50.00	ND	114	70-130	2	20		1
cis-1,2-Dichloroethene	51.4	4.00	ug/L	50.00	ND	103	70-130	2	20		1
cis-1,3-Dichloropropene	50.2	4.00	ug/L	50.00	ND	100	70-130	2	20		1
Cyclohexane	53.1	2.00	ug/L	50.00	ND	106	70-130	2	20		1
Dibromochloromethane	48.1	4.00	ug/L	50.00	ND	96	70-130	5	20		1
Dibromomethane	47.7	2.00	ug/L	50.00	ND	95	70-130	0.7	20		1
Dichlorodifluoromethane	49.4	2.00	ug/L	50.00	ND	99	70-130	3	20		1
Ethylbenzene	47.2	2.00	ug/L	50.00	ND	94	70-130	5	20		1
Isopropylbenzene	50.1	2.00	ug/L	50.00	ND	100	70-130	3	20		1
m,p-Xylene	95.6	8.00	ug/L	100.0	ND	96	70-130	4	20		1
Methyl tert-butyl ether	50.8	4.00	ug/L	50.00	ND	102	70-130	2	20		1
Methylene chloride	52.5	8.00	ug/L	50.00	ND	105	70-130	4	20		1
n-Butylbenzene	53.6	2.00	ug/L	50.00	ND	107	70-130	1	20		1
n-Propylbenzene	52.1	2.00	ug/L	50.00	ND	104	70-130	2	20		1
o-Xylene	51.3	2.00	ug/L	50.00	ND	103	70-130	3	20		1
sec-Butylbenzene	50.4	2.00	ug/L	50.00	ND	101	70-130	2	20		1
Styrene	51.2	8.00	ug/L	50.00	ND	102	70-130	2	20		1
tert-Butylbenzene	50.3	4.00	ug/L	50.00	ND	101	70-130	0.9	20		1
Tetrachloroethene	48.4	4.00	ug/L	50.00	ND	97	70-130	5	20		1
Toluene	46.6	4.00	ug/L	50.00	ND	93	70-130	3	20		1
trans-1,2-Dichloroethene	52.3	4.00	ug/L	50.00	ND	105	70-130	0.2	20		1
trans-1,3-Dichloropropene	47.8	8.00	ug/L	50.00	ND	96	70-130	1	20		1
Trichloroethene	51.4	4.00	ug/L	50.00	ND	103	70-130	1	20		1
Trichlorofluoromethane	50.7	4.00	ug/L	50.00	ND	101	70-130	2	20		1
Vinyl chloride	52.8	4.00	ug/L	50.00	ND	106	70-130	0.5	20		1
Xylenes, Total	147	12.0	ug/L	150.0	ND	98	70-130	2	20		1
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Surrogate: Dibromofluoromethane	20.3		ug/L	20.00		102	84-137				1
Surrogate: 1,2-Dichloroethane-d4	20.3		ug/L	20.00		101	74-140				1
Surrogate: Fluorobenzene	20.2		ug/L	20.00		101	90-105				1
Surrogate: Toluene-d8	19.5		ug/L	20.00		97	74-109				1
Surrogate: 4-Bromofluorobenzene	9.91		ug/L	10.00		99	86-128				1
Surrogate: 1,2-Dichlorobenzene-d4	20.0		ug/L	20.00		100	90-128				1

Batch: B1A0926 - SW5030**Blank (B1A0926-BLK1)**

Prepared: 01/28/2021 13:00 Analyzed: 01/28/2021 15:38

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0926 - SW5030 (Continued)**Blank (B1A0926-BLK1) (Continued)**

Prepared: 01/28/2021 13:00 Analyzed: 01/28/2021 15:38

cis-1,2-Dichloroethene	< 4.00	4.00	ug/L								1
Tetrachloroethene	< 4.00	4.00	ug/L								1
Trichloroethene	< 4.00	4.00	ug/L								1
Vinyl chloride	< 4.00	4.00	ug/L								1
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Surrogate: Dibromofluoromethane	21.6		ug/L	20.00		108	84-137				1
Surrogate: 1,2-Dichloroethane-d4	20.3		ug/L	20.00		102	74-140				1
Surrogate: Fluorobenzene	19.5		ug/L	20.00		98	90-105				1
Surrogate: Toluene-d8	19.6		ug/L	20.00		98	74-109				1
Surrogate: 4-Bromofluorobenzene	10.2		ug/L	10.00		102	86-128				1
Surrogate: 1,2-Dichlorobenzene-d4	21.0		ug/L	20.00		105	90-128				1

LCS (B1A0926-BS1)

Prepared: 01/28/2021 13:00 Analyzed: 01/28/2021 14:11

cis-1,2-Dichloroethene	49.1	4.00	ug/L	50.00		98	78-123				1
Tetrachloroethene	51.8	4.00	ug/L	50.00		104	74-129				1
Trichloroethene	51.1	4.00	ug/L	50.00		102	84-129				1
Vinyl chloride	51.0	4.00	ug/L	50.00		102	58-137				1
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Surrogate: Dibromofluoromethane	20.5		ug/L	20.00		103	84-137				1
Surrogate: 1,2-Dichloroethane-d4	19.5		ug/L	20.00		98	74-140				1
Surrogate: Fluorobenzene	20.1		ug/L	20.00		100	90-105				1
Surrogate: Toluene-d8	19.6		ug/L	20.00		98	74-109				1
Surrogate: 4-Bromofluorobenzene	9.94		ug/L	10.00		99	86-128				1
Surrogate: 1,2-Dichlorobenzene-d4	20.6		ug/L	20.00		103	90-128				1

LCS Dup (B1A0926-BSD1)

Prepared: 01/28/2021 13:00 Analyzed: 01/28/2021 14:37

cis-1,2-Dichloroethene	49.7	4.00	ug/L	50.00		99	78-123	1	20		1
Tetrachloroethene	53.5	4.00	ug/L	50.00		107	74-129	3	20		1
Trichloroethene	51.2	4.00	ug/L	50.00		102	84-129	0.3	20		1
Vinyl chloride	51.1	4.00	ug/L	50.00		102	58-137	0.4	20		1
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Surrogate: Dibromofluoromethane	19.9		ug/L	20.00		99	84-137				1
Surrogate: 1,2-Dichloroethane-d4	19.2		ug/L	20.00		96	74-140				1
Surrogate: Fluorobenzene	19.6		ug/L	20.00		98	90-105				1
Surrogate: Toluene-d8	19.5		ug/L	20.00		97	74-109				1
Surrogate: 4-Bromofluorobenzene	9.33		ug/L	10.00		93	86-128				1
Surrogate: 1,2-Dichlorobenzene-d4	19.5		ug/L	20.00		98	90-128				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Semivolatile Organic Compounds by GC/MS**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0659 - SW3510**Blank (B1A0659-BLK1)**

Prepared: 01/23/2021 09:04 Analyzed: 01/26/2021 07:41

1,2,4-Trichlorobenzene	< 0.280	2.00	ug/L								1
1,2-Dichlorobenzene	< 0.300	2.00	ug/L								1
1,3-Dichlorobenzene	< 0.310	2.00	ug/L								1
1,4-Dichlorobenzene	< 0.280	2.00	ug/L								1
2,4,5-Trichlorophenol	< 0.129	1.00	ug/L								1
2,4,6-Trichlorophenol	< 0.244	1.00	ug/L								1
2,4-Dichlorophenol	< 0.0788	1.00	ug/L								1
2,4-Dimethylphenol	< 0.117	2.00	ug/L								1
2,4-Dinitrophenol	< 3.31	30.0	ug/L								1
2,4-Dinitrotoluene	< 0.252	2.00	ug/L								1
2,6-Dinitrotoluene	< 0.230	1.00	ug/L								1
2-Chloronaphthalene	< 0.106	0.600	ug/L								1
2-Chlorophenol	< 0.153	1.00	ug/L								1
2-Methylnaphthalene	< 0.640	4.00	ug/L								1
2-Methylphenol	< 0.183	1.00	ug/L								1
2-Nitroaniline	< 2.56	30.0	ug/L								1
2-Nitrophenol	< 0.209	1.00	ug/L								1
3,3'-Dichlorobenzidine	< 3.16	20.0	ug/L								1
3 & 4-Methylphenol	< 0.179	1.00	ug/L								1
3-Nitroaniline	< 0.360	2.00	ug/L								1
4,6-Dinitro-2-methylphenol	< 2.45	15.0	ug/L								1
4-Bromophenyl-phenylether	< 0.160	1.00	ug/L								1
4-Chloro-3-methylphenol	< 0.0713	0.500	ug/L								1
4-Chloroaniline	< 0.107	0.600	ug/L								1
4-Chlorophenyl-phenylether	< 0.146	1.00	ug/L								1
4-Nitroaniline	< 3.77	30.0	ug/L								1
4-Nitrophenol	< 1.44	15.0	ug/L								1
Acenaphthene	< 0.104	0.600	ug/L								1
Acenaphthylene	< 0.130	0.600	ug/L								1
Anthracene	< 0.112	0.600	ug/L								1
Azobenzene as 1,2-Diphenylhydrazine	< 0.0767	1.00	ug/L								1
Benzidine	< 16.6	80.0	ug/L								1
Benzo(a)anthracene	< 0.123	0.600	ug/L								1
Benzo(a)pyrene	< 0.376	2.00	ug/L								1
Benzo(b)fluoranthene	< 0.372	2.00	ug/L								1
Benzo(g,h,i)perylene	< 0.399	2.00	ug/L								1
Benzo(k)fluoranthene	< 0.249	2.00	ug/L								1
Benzoic acid	< 11.7	40.0	ug/L								1
Benzyl alcohol	< 0.550	4.00	ug/L								1
Bis(2-chloroethoxy)methane	< 0.135	1.00	ug/L								1
Bis(2-chloroethyl)ether	< 0.176	1.00	ug/L								1
Bis(2-chloroisopropyl)ether	< 0.128	1.00	ug/L								1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0659 - SW3510 (Continued)**Blank (B1A0659-BLK1) (Continued)**

Prepared: 01/23/2021 09:04 Analyzed: 01/26/2021 07:41

Bis(2-ethylhexyl)phthalate	< 3.63	20.0	ug/L								1
Butyl benzyl phthalate	< 0.234	1.00	ug/L								1
Carbazole	< 0.173	1.00	ug/L								1
Chrysene	< 0.127	0.600	ug/L								1
Dibenzo(a,h)anthracene	< 0.442	2.00	ug/L								1
Dibenzofuran	< 0.123	0.600	ug/L								1
Diethyl phthalate	< 1.16	6.00	ug/L								1
Dimethyl phthalate	< 0.0883	0.600	ug/L								1
Di-n-butyl phthalate	< 2.88	10.0	ug/L								1
Di-n-octyl phthalate	< 1.89	10.0	ug/L								1
Fluoranthene	< 0.196	1.00	ug/L								1
Fluorene	< 0.124	0.600	ug/L								1
Hexachlorobenzene	< 0.165	1.00	ug/L								1
Hexachlorobutadiene	< 0.250	1.00	ug/L								1
Hexachlorocyclopentadiene	< 2.19	15.0	ug/L								1
Hexachloroethane	< 0.220	1.00	ug/L								1
Indeno(1,2,3-cd)pyrene	< 0.502	2.00	ug/L								1
Isophorone	< 0.110	0.600	ug/L								1
Naphthalene	< 0.816	4.00	ug/L								1
Nitrobenzene	< 0.140	0.600	ug/L								1
N-Nitrosodimethylamine	< 0.156	1.00	ug/L								1
N-Nitrosodi-n-propylamine	< 0.319	2.00	ug/L								1
N-Nitrosodiphenylamine	< 0.104	0.600	ug/L								1
Pentachlorophenol	< 2.52	30.0	ug/L								1
Phenanthrene	< 0.206	1.00	ug/L								1
Phenol	< 0.171	1.00	ug/L								1
Pyrene	< 0.208	1.00	ug/L								1
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Surrogate: 2-Fluorophenol	37.7		ug/L	66.67		57	10-88				1
Surrogate: Phenol-d5	26.6		ug/L	66.67		40	10-65				1
Surrogate: Nitrobenzene-d5	50.9		ug/L	66.67		76	25-128				1
Surrogate: 2-Fluorobiphenyl	46.1		ug/L	66.67		69	24-114				1
Surrogate: 2,4,6-Tribromophenol	52.6		ug/L	66.67		79	15-119				1
Surrogate: 4-Terphenyl-d14	70.5		ug/L	66.67		106	29-129				1

LCS (B1A0659-BS1)

Prepared: 01/23/2021 09:04 Analyzed: 01/26/2021 08:23

1,2,4-Trichlorobenzene	37.0	2.00	ug/L	50.00		74	35-101				1
1,2-Dichlorobenzene	34.1	2.00	ug/L	50.00		68	33-97				1
1,3-Dichlorobenzene	33.7	2.00	ug/L	50.00		67	32-96				1
1,4-Dichlorobenzene	33.9	2.00	ug/L	50.00		68	31-97				1
2,4,5-Trichlorophenol	41.8	1.00	ug/L	50.00		84	38-126				1
2,4,6-Trichlorophenol	41.0	1.00	ug/L	50.00		82	38-124				1
2,4-Dichlorophenol	40.3	1.00	ug/L	50.00		81	42-117				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0659 - SW3510 (Continued)**LCS (B1A0659-BS1)** (Continued)

Prepared: 01/23/2021 09:04 Analyzed: 01/26/2021 08:23

2,4-Dimethylphenol	28.0	2.00	ug/L	50.00		56	11-112				1
2,4-Dinitrophenol	38.0	30.0	ug/L	50.00		76	5-113				1
2,4-Dinitrotoluene	40.7	2.00	ug/L	50.00		81	39-124				1
2,6-Dinitrotoluene	41.8	1.00	ug/L	50.00		84	43-125				1
2-Chloronaphthalene	39.4	0.600	ug/L	50.00		79	38-113				1
2-Chlorophenol	39.2	1.00	ug/L	50.00		78	36-109				1
2-Methylnaphthalene	39.8	4.00	ug/L	50.00		80	42-112				1
2-Methylphenol	36.9	1.00	ug/L	50.00		74	34-105				1
2-Nitroaniline	40.7	30.0	ug/L	50.00		81	35-127				1
2-Nitrophenol	38.5	1.00	ug/L	50.00		77	37-118				1
3,3'-Dichlorobenzidine	68.9	20.0	ug/L	80.00		86	39-125				1
3 & 4-Methylphenol	36.4	1.00	ug/L	50.00		73	34-102				1
3-Nitroaniline	41.4	2.00	ug/L	50.00		83	39-122				1
4,6-Dinitro-2-methylphenol	40.9	15.0	ug/L	50.00		82	29-131				1
4-Bromophenyl-phenylether	44.6	1.00	ug/L	50.00		89	43-127				1
4-Chloro-3-methylphenol	41.8	0.500	ug/L	50.00		84	43-119				1
4-Chloroaniline	40.8	0.600	ug/L	50.00		82	40-116				1
4-Chlorophenyl-phenylether	42.8	1.00	ug/L	50.00		86	41-118				1
4-Nitroaniline	42.1	30.0	ug/L	50.00		84	41-128				1
4-Nitrophenol	21.1	15.0	ug/L	50.00		42	13-68				1
Acenaphthene	41.6	0.600	ug/L	50.00		83	40-115				1
Acenaphthylene	42.4	0.600	ug/L	50.00		85	38-116				1
Anthracene	44.7	0.600	ug/L	50.00		89	41-124				1
Azobenzene as 1,2-Diphenylhydrazine	44.2	1.00	ug/L	50.00		88	41-127				1
Benzidine	57.8	80.0	ug/L	80.00		72	15-122			J	1
Benzo(a)anthracene	43.2	0.600	ug/L	50.00		86	44-131				1
Benzo(a)pyrene	41.2	2.00	ug/L	50.00		82	46-131				1
Benzo(b)fluoranthene	42.5	2.00	ug/L	50.00		85	45-132				1
Benzo(g,h,i)perylene	40.7	2.00	ug/L	50.00		81	41-131				1
Benzo(k)fluoranthene	42.4	2.00	ug/L	50.00		85	47-132				1
Benzoic acid	36.9	40.0	ug/L	160.0		23	5-95			J	1
Benzyl alcohol	36.8	4.00	ug/L	50.00		74	43-107				1
Bis(2-chloroethoxy)methane	40.1	1.00	ug/L	50.00		80	40-114				1
Bis(2-chloroethyl)ether	39.1	1.00	ug/L	50.00		78	37-109				1
Bis(2-chloroisopropyl)ether	38.6	1.00	ug/L	50.00		77	34-112				1
Bis(2-ethylhexyl)phthalate	43.6	20.0	ug/L	50.00		87	40-135				1
Butyl benzyl phthalate	43.2	1.00	ug/L	50.00		86	38-133				1
Carbazole	44.9	1.00	ug/L	50.00		90	47-129				1
Chrysene	42.9	0.600	ug/L	50.00		86	44-125				1
Dibenzo(a,h)anthracene	37.5	2.00	ug/L	50.00		75	13-126				1
Dibenzofuran	41.9	0.600	ug/L	50.00		84	41-112				1
Diethyl phthalate	42.4	6.00	ug/L	50.00		85	43-125				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0659 - SW3510 (Continued)**LCS (B1A0659-BS1)** (Continued)

Prepared: 01/23/2021 09:04 Analyzed: 01/26/2021 08:23

Dimethyl phthalate	42.9	0.600	ug/L	50.00		86	43-117				1
Di-n-butyl phthalate	43.9	10.0	ug/L	50.00		88	43-132				1
Di-n-octyl phthalate	40.9	10.0	ug/L	50.00		82	36-133				1
Fluoranthene	43.8	1.00	ug/L	50.00		88	47-129				1
Fluorene	42.5	0.600	ug/L	50.00		85	43-116				1
Hexachlorobenzene	43.7	1.00	ug/L	50.00		87	44-112				1
Hexachlorobutadiene	35.9	1.00	ug/L	50.00		72	32-100				1
Hexachlorocyclopentadiene	27.3	15.0	ug/L	50.00		55	18-95				1
Hexachloroethane	32.6	1.00	ug/L	50.00		65	29-98				1
Indeno(1,2,3-cd)pyrene	40.9	2.00	ug/L	50.00		82	35-134				1
Isophorone	41.1	0.600	ug/L	50.00		82	39-113				1
Naphthalene	37.3	4.00	ug/L	50.00		75	33-109				1
Nitrobenzene	40.6	0.600	ug/L	50.00		81	42-111				1
N-Nitrosodimethylamine	30.5	1.00	ug/L	50.00		61	28-87				1
N-Nitrosodi-n-propylamine	41.4	2.00	ug/L	50.00		83	37-115				1
N-Nitrosodiphenylamine	44.2	0.600	ug/L	50.00		88	45-124				1
Pentachlorophenol	42.1	30.0	ug/L	50.00		84	29-120				1
Phenanthrene	43.9	1.00	ug/L	50.00		88	43-114				1
Phenol	22.0	1.00	ug/L	50.00		44	16-71				1
Pyrene	45.9	1.00	ug/L	50.00		92	43-128				1
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Surrogate: 2-Fluorophenol	39.4		ug/L	66.67		59	10-88				1
Surrogate: Phenol-d5	28.1		ug/L	66.67		42	10-65				1
Surrogate: Nitrobenzene-d5	54.8		ug/L	66.67		82	25-128				1
Surrogate: 2-Fluorobiphenyl	52.6		ug/L	66.67		79	24-114				1
Surrogate: 2,4,6-Tribromophenol	58.1		ug/L	66.67		87	15-119				1
Surrogate: 4-Terphenyl-d14	65.8		ug/L	66.67		99	29-129				1

Matrix Spike (B1A0659-MS1)**Source: 21A0717-25**

Prepared: 01/23/2021 09:04 Analyzed: 01/26/2021 09:26

1,2,4-Trichlorobenzene	283	17.2	ug/L	428.8	ND	66	34-96				1
1,2-Dichlorobenzene	248	17.2	ug/L	428.8	ND	58	32-91				1
1,3-Dichlorobenzene	237	17.2	ug/L	428.8	ND	55	29-90				1
1,4-Dichlorobenzene	242	17.2	ug/L	428.8	ND	56	31-88				1
2,4,5-Trichlorophenol	372	8.58	ug/L	428.8	ND	87	54-120				1
2,4,6-Trichlorophenol	359	8.58	ug/L	428.8	ND	84	51-117				1
2,4-Dichlorophenol	348	8.58	ug/L	428.8	ND	81	33-134				1
2,4-Dimethylphenol	213	17.2	ug/L	428.8	ND	50	17-132				1
2,4-Dinitrophenol	280	257	ug/L	428.8	ND	65	1-123				1
2,4-Dinitrotoluene	380	17.2	ug/L	428.8	ND	89	49-124				1
2,6-Dinitrotoluene	381	8.58	ug/L	428.8	ND	89	57-121				1
2-Chloronaphthalene	338	5.15	ug/L	428.8	ND	79	50-101				1
2-Chlorophenol	324	8.58	ug/L	428.8	ND	76	37-107				1
2-Methylnaphthalene	331	34.3	ug/L	428.8	ND	77	35-121				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0659 - SW3510 (Continued)**Matrix Spike (B1A0659-MS1)** (Continued)**Source: 21A0717-25**

Prepared: 01/23/2021 09:04 Analyzed: 01/26/2021 09:26

2-Methylphenol	313	8.58	ug/L	428.8	ND	73	32-107				1
2-Nitroaniline	368	257	ug/L	428.8	ND	86	45-123				1
2-Nitrophenol	327	8.58	ug/L	428.8	ND	76	38-120				1
3,3'-Dichlorobenzidine	633	172	ug/L	686.1	ND	92	33-137				1
3 & 4-Methylphenol	316	8.58	ug/L	428.8	ND	74	20-115				1
3-Nitroaniline	377	17.2	ug/L	428.8	ND	88	39-125				1
4,6-Dinitro-2-methylphenol	356	129	ug/L	428.8	ND	83	11-132				1
4-Bromophenyl-phenylether	412	8.58	ug/L	428.8	ND	96	56-116				1
4-Chloro-3-methylphenol	367	4.29	ug/L	428.8	ND	86	28-144				1
4-Chloroaniline	358	5.15	ug/L	428.8	ND	84	48-110				1
4-Chlorophenyl-phenylether	380	8.58	ug/L	428.8	ND	89	55-106				1
4-Nitroaniline	384	257	ug/L	428.8	ND	90	51-123				1
4-Nitrophenol	162	129	ug/L	428.8	ND	38	10-81				1
Acenaphthene	358	5.15	ug/L	428.8	ND	83	27-133				1
Acenaphthylene	367	5.15	ug/L	428.8	ND	86	47-113				1
Anthracene	409	5.15	ug/L	428.8	ND	95	61-115				1
Azobenzene as 1,2-Diphenylhydrazine	397	8.58	ug/L	428.8	ND	93	55-119				1
Benzidine	492	686	ug/L	686.1	ND	72	10-132			J	1
Benzo(a)anthracene	397	5.15	ug/L	428.8	ND	93	60-125				1
Benzo(a)pyrene	380	17.2	ug/L	428.8	ND	89	66-125				1
Benzo(b)fluoranthene	397	17.2	ug/L	428.8	ND	93	65-128				1
Benzo(g,h,i)perylene	388	17.2	ug/L	428.8	ND	91	62-123				1
Benzo(k)fluoranthene	400	17.2	ug/L	428.8	ND	93	64-122				1
Benzoic acid	154	343	ug/L	1372	ND	11	7-82			J	1
Benzyl alcohol	323	34.3	ug/L	428.8	ND	75	36-110				1
Bis(2-chloroethoxy)methane	344	8.58	ug/L	428.8	ND	80	44-112				1
Bis(2-chloroethyl)ether	313	8.58	ug/L	428.8	ND	73	38-104				1
Bis(2-chloroisopropyl)ether	312	8.58	ug/L	428.8	ND	73	35-104				1
Bis(2-ethylhexyl)phthalate	397	172	ug/L	428.8	ND	93	52-139				1
Butyl benzyl phthalate	391	8.58	ug/L	428.8	ND	91	55-132				1
Carbazole	418	8.58	ug/L	428.8	ND	98	62-128				1
Chrysene	391	5.15	ug/L	428.8	ND	91	62-116				1
Dibenzo(a,h)anthracene	360	17.2	ug/L	428.8	ND	84	46-143				1
Dibenzofuran	365	5.15	ug/L	428.8	ND	85	53-110				1
Diethyl phthalate	391	51.5	ug/L	428.8	ND	91	58-117				1
Dimethyl phthalate	389	5.15	ug/L	428.8	ND	91	61-106				1
Di-n-butyl phthalate	408	85.8	ug/L	428.8	ND	95	60-132				1
Di-n-octyl phthalate	376	85.8	ug/L	428.8	ND	88	48-135				1
Fluoranthene	405	8.58	ug/L	428.8	ND	94	63-122				1
Fluorene	378	5.15	ug/L	428.8	ND	88	46-125				1
Hexachlorobenzene	393	8.58	ug/L	428.8	ND	92	51-110				1
Hexachlorobutadiene	267	8.58	ug/L	428.8	ND	62	29-94				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0659 - SW3510 (Continued)**Matrix Spike (B1A0659-MS1) (Continued)****Source: 21A0717-25**

Prepared: 01/23/2021 09:04 Analyzed: 01/26/2021 09:26

Hexachlorocyclopentadiene	207	129	ug/L	428.8	ND	48	9-94				1
Hexachloroethane	232	8.58	ug/L	428.8	ND	54	25-89				1
Indeno(1,2,3-cd)pyrene	371	17.2	ug/L	428.8	ND	86	49-137				1
Isophorone	356	5.15	ug/L	428.8	ND	83	43-110				1
Naphthalene	297	34.3	ug/L	428.8	ND	69	20-163				1
Nitrobenzene	336	5.15	ug/L	428.8	ND	78	39-113				1
N-Nitrosodimethylamine	249	8.58	ug/L	428.8	ND	58	18-90				1
N-Nitrosodi-n-propylamine	351	17.2	ug/L	428.8	ND	82	37-116				1
N-Nitrosodiphenylamine	405	5.15	ug/L	428.8	ND	95	62-114				1
Pentachlorophenol	308	257	ug/L	428.8	ND	72	12-122				1
Phenanthrene	405	8.58	ug/L	428.8	ND	95	41-129				1
Phenol	192	8.58	ug/L	428.8	ND	45	10-68				1
Pyrene	414	8.58	ug/L	428.8	ND	97	59-124				1
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Surrogate: 2-Fluorophenol	324		ug/L	571.8		57	10-88				1
Surrogate: Phenol-d5	245		ug/L	571.8		43	10-65				1
Surrogate: Nitrobenzene-d5	450		ug/L	571.8		79	25-128				1
Surrogate: 2-Fluorobiphenyl	451		ug/L	571.8		79	24-114				1
Surrogate: 2,4,6-Tribromophenol	537		ug/L	571.8		94	15-119				1
Surrogate: 4-Terphenyl-d14	598		ug/L	571.8		105	29-129				1

Matrix Spike Dup (B1A0659-MSD1)**Source: 21A0717-25**

Prepared: 01/23/2021 09:04 Analyzed: 01/26/2021 09:47

1,2,4-Trichlorobenzene	317	17.3	ug/L	432.5	ND	73	34-96	11	27		1
1,2-Dichlorobenzene	284	17.3	ug/L	432.5	ND	66	32-91	14	29		1
1,3-Dichlorobenzene	277	17.3	ug/L	432.5	ND	64	29-90	16	33		1
1,4-Dichlorobenzene	280	17.3	ug/L	432.5	ND	65	31-88	14	32		1
2,4,5-Trichlorophenol	382	8.65	ug/L	432.5	ND	88	54-120	3	22		1
2,4,6-Trichlorophenol	373	8.65	ug/L	432.5	ND	86	51-117	4	33		1
2,4-Dichlorophenol	365	8.65	ug/L	432.5	ND	84	33-134	5	21		1
2,4-Dimethylphenol	205	17.3	ug/L	432.5	ND	47	17-132	4	23		1
2,4-Dinitrophenol	322	260	ug/L	432.5	ND	75	1-123	14	43		1
2,4-Dinitrotoluene	379	17.3	ug/L	432.5	ND	88	49-124	0.09	23		1
2,6-Dinitrotoluene	383	8.65	ug/L	432.5	ND	88	57-121	0.5	21		1
2-Chloronaphthalene	350	5.19	ug/L	432.5	ND	81	50-101	4	26		1
2-Chlorophenol	333	8.65	ug/L	432.5	ND	77	37-107	3	28		1
2-Methylnaphthalene	349	34.6	ug/L	432.5	ND	81	35-121	5	27		1
2-Methylphenol	313	8.65	ug/L	432.5	ND	72	32-107	0.009	32		1
2-Nitroaniline	350	260	ug/L	432.5	ND	81	45-123	5	19		1
2-Nitrophenol	349	8.65	ug/L	432.5	ND	81	38-120	7	30		1
3,3'-Dichlorobenzidine	612	173	ug/L	692.0	ND	88	33-137	3	29		1
3 & 4-Methylphenol	313	8.65	ug/L	432.5	ND	72	20-115	0.8	32		1
3-Nitroaniline	354	17.3	ug/L	432.5	ND	82	39-125	6	19		1
4,6-Dinitro-2-methylphenol	368	130	ug/L	432.5	ND	85	11-132	3	53		1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0659 - SW3510 (Continued)**Matrix Spike Dup (B1A0659-MSD1) (Continued)****Source: 21A0717-25**

Prepared: 01/23/2021 09:04 Analyzed: 01/26/2021 09:47

4-Bromophenyl-phenylether	409	8.65	ug/L	432.5	ND	95	56-116	0.6	18		1
4-Chloro-3-methylphenol	365	4.33	ug/L	432.5	ND	84	28-144	0.7	20		1
4-Chloroaniline	361	5.19	ug/L	432.5	ND	83	48-110	0.8	21		1
4-Chlorophenyl-phenylether	386	8.65	ug/L	432.5	ND	89	55-106	2	20		1
4-Nitroaniline	374	260	ug/L	432.5	ND	86	51-123	3	20		1
4-Nitrophenol	162	130	ug/L	432.5	ND	37	10-81	0.3	65		1
Acenaphthene	368	5.19	ug/L	432.5	ND	85	27-133	3	20		1
Acenaphthylene	375	5.19	ug/L	432.5	ND	87	47-113	2	21		1
Anthracene	395	5.19	ug/L	432.5	ND	91	61-115	4	20		1
Azobenzene as 1,2-Diphenylhydrazine	369	8.65	ug/L	432.5	ND	85	55-119	7	19		1
Benzidine	453	692	ug/L	692.0	ND	65	10-132	8	30	J	1
Benzo(a)anthracene	385	5.19	ug/L	432.5	ND	89	60-125	3	20		1
Benzo(a)pyrene	371	17.3	ug/L	432.5	ND	86	66-125	3	20		1
Benzo(b)fluoranthene	386	17.3	ug/L	432.5	ND	89	65-128	3	20		1
Benzo(g,h,i)perylene	352	17.3	ug/L	432.5	ND	81	62-123	10	20		1
Benzo(k)fluoranthene	386	17.3	ug/L	432.5	ND	89	64-122	4	20		1
Benzoic acid	216	346	ug/L	1384	ND	16	7-82	33	30	P, J	1
Benzyl alcohol	314	34.6	ug/L	432.5	ND	73	36-110	3	26		1
Bis(2-chloroethoxy)methane	347	8.65	ug/L	432.5	ND	80	44-112	0.9	26		1
Bis(2-chloroethyl)ether	326	8.65	ug/L	432.5	ND	75	38-104	4	32		1
Bis(2-chloroisopropyl)ether	308	8.65	ug/L	432.5	ND	71	35-104	1	32		1
Bis(2-ethylhexyl)phthalate	378	173	ug/L	432.5	ND	87	52-139	5	19		1
Butyl benzyl phthalate	377	8.65	ug/L	432.5	ND	87	55-132	4	20		1
Carbazole	398	8.65	ug/L	432.5	ND	92	62-128	5	26		1
Chrysene	383	5.19	ug/L	432.5	ND	89	62-116	2	20		1
Dibenzo(a,h)anthracene	331	17.3	ug/L	432.5	ND	77	46-143	8	22		1
Dibenzofuran	368	5.19	ug/L	432.5	ND	85	53-110	0.8	20		1
Diethyl phthalate	380	51.9	ug/L	432.5	ND	88	58-117	3	20		1
Dimethyl phthalate	384	5.19	ug/L	432.5	ND	89	61-106	1	20		1
Di-n-butyl phthalate	382	86.5	ug/L	432.5	ND	88	60-132	7	20		1
Di-n-octyl phthalate	359	86.5	ug/L	432.5	ND	83	48-135	5	20		1
Fluoranthene	384	8.65	ug/L	432.5	ND	89	63-122	5	20		1
Fluorene	379	5.19	ug/L	432.5	ND	88	46-125	0.4	20		1
Hexachlorobenzene	394	8.65	ug/L	432.5	ND	91	51-110	0.3	20		1
Hexachlorobutadiene	312	8.65	ug/L	432.5	ND	72	29-94	15	28		1
Hexachlorocyclopentadiene	215	130	ug/L	432.5	ND	50	9-94	3	42		1
Hexachloroethane	264	8.65	ug/L	432.5	ND	61	25-89	13	32		1
Indeno(1,2,3-cd)pyrene	356	17.3	ug/L	432.5	ND	82	49-137	4	23		1
Isophorone	354	5.19	ug/L	432.5	ND	82	43-110	0.6	30		1
Naphthalene	322	34.6	ug/L	432.5	ND	74	20-163	8	25		1
Nitrobenzene	342	5.19	ug/L	432.5	ND	79	39-113	2	30		1
N-Nitrosodimethylamine	249	8.65	ug/L	432.5	ND	57	18-90	0.2	35		1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0659 - SW3510 (Continued)**Matrix Spike Dup (B1A0659-MSD1) (Continued)****Source: 21A0717-25**

Prepared: 01/23/2021 09:04 Analyzed: 01/26/2021 09:47

N-Nitrosodi-n-propylamine	345	17.3	ug/L	432.5	ND	80	37-116	2	27		1
N-Nitrosodiphenylamine	397	5.19	ug/L	432.5	ND	92	62-114	2	19		1
Pentachlorophenol	337	260	ug/L	432.5	ND	78	12-122	9	46		1
Phenanthrene	394	8.65	ug/L	432.5	ND	91	41-129	3	19		1
Phenol	192	8.65	ug/L	432.5	ND	44	10-68	0.2	37		1
Pyrene	410	8.65	ug/L	432.5	ND	95	59-124	0.9	20		1
<i>Surrogate: 2-Fluorophenol</i>	331		ug/L	576.7		57	10-88				1
<i>Surrogate: Phenol-d5</i>	244		ug/L	576.7		42	10-65				1
<i>Surrogate: Nitrobenzene-d5</i>	461		ug/L	576.7		80	25-128				1
<i>Surrogate: 2-Fluorobiphenyl</i>	463		ug/L	576.7		80	24-114				1
<i>Surrogate: 2,4,6-Tribromophenol</i>	529		ug/L	576.7		92	15-119				1
<i>Surrogate: 4-Terphenyl-d14</i>	577		ug/L	576.7		100	29-129				1

Batch: B1A0681 - SW3510**Blank (B1A0681-BLK1)**

Prepared: 01/25/2021 09:30 Analyzed: 01/26/2021 08:02

1,2,4-Trichlorobenzene	< 0.280	2.00	ug/L								1
1,2-Dichlorobenzene	< 0.300	2.00	ug/L								1
1,3-Dichlorobenzene	< 0.310	2.00	ug/L								1
1,4-Dichlorobenzene	< 0.280	2.00	ug/L								1
2,4,5-Trichlorophenol	< 0.129	1.00	ug/L								1
2,4,6-Trichlorophenol	< 0.244	1.00	ug/L								1
2,4-Dichlorophenol	< 0.0788	1.00	ug/L								1
2,4-Dimethylphenol	< 0.117	2.00	ug/L								1
2,4-Dinitrophenol	< 3.31	30.0	ug/L								1
2,4-Dinitrotoluene	< 0.252	2.00	ug/L								1
2,6-Dinitrotoluene	< 0.230	1.00	ug/L								1
2-Chloronaphthalene	< 0.106	0.600	ug/L								1
2-Chlorophenol	< 0.153	1.00	ug/L								1
2-Methylnaphthalene	< 0.640	4.00	ug/L								1
2-Methylphenol	< 0.183	1.00	ug/L								1
2-Nitroaniline	< 2.56	30.0	ug/L								1
2-Nitrophenol	< 0.209	1.00	ug/L								1
3,3'-Dichlorobenzidine	< 3.16	20.0	ug/L								1
3 & 4-Methylphenol	< 0.179	1.00	ug/L								1
3-Nitroaniline	< 0.360	2.00	ug/L								1
4,6-Dinitro-2-methylphenol	< 2.45	15.0	ug/L								1
4-Bromophenyl-phenylether	< 0.160	1.00	ug/L								1
4-Chloro-3-methylphenol	< 0.0713	0.500	ug/L								1
4-Chloroaniline	< 0.107	0.600	ug/L								1
4-Chlorophenyl-phenylether	< 0.146	1.00	ug/L								1
4-Nitroaniline	< 3.77	30.0	ug/L								1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0681 - SW3510 (Continued)**Blank (B1A0681-BLK1) (Continued)**

Prepared: 01/25/2021 09:30 Analyzed: 01/26/2021 08:02

4-Nitrophenol	< 1.44	15.0	ug/L								1
Acenaphthene	< 0.104	0.600	ug/L								1
Acenaphthylene	< 0.130	0.600	ug/L								1
Anthracene	< 0.112	0.600	ug/L								1
Azobenzene as 1,2-Diphenylhydrazine	< 0.0767	1.00	ug/L								1
Benzidine	< 16.6	80.0	ug/L								1
Benzo(a)anthracene	< 0.123	0.600	ug/L								1
Benzo(a)pyrene	< 0.376	2.00	ug/L								1
Benzo(b)fluoranthene	< 0.372	2.00	ug/L								1
Benzo(g,h,i)perylene	< 0.399	2.00	ug/L								1
Benzo(k)fluoranthene	< 0.249	2.00	ug/L								1
Benzoic acid	< 11.7	40.0	ug/L								1
Benzyl alcohol	< 0.550	4.00	ug/L								1
Bis(2-chloroethoxy)methane	< 0.135	1.00	ug/L								1
Bis(2-chloroethyl)ether	< 0.176	1.00	ug/L								1
Bis(2-chloroisopropyl)ether	< 0.128	1.00	ug/L								1
Bis(2-ethylhexyl)phthalate	< 3.63	20.0	ug/L								1
Butyl benzyl phthalate	< 0.234	1.00	ug/L								1
Carbazole	< 0.173	1.00	ug/L								1
Chrysene	< 0.127	0.600	ug/L								1
Dibenzo(a,h)anthracene	< 0.442	2.00	ug/L								1
Dibenzofuran	< 0.123	0.600	ug/L								1
Diethyl phthalate	< 1.16	6.00	ug/L								1
Dimethyl phthalate	< 0.0883	0.600	ug/L								1
Di-n-butyl phthalate	< 2.88	10.0	ug/L								1
Di-n-octyl phthalate	< 1.89	10.0	ug/L								1
Fluoranthene	< 0.196	1.00	ug/L								1
Fluorene	< 0.124	0.600	ug/L								1
Hexachlorobenzene	< 0.165	1.00	ug/L								1
Hexachlorobutadiene	< 0.250	1.00	ug/L								1
Hexachlorocyclopentadiene	< 2.19	15.0	ug/L								1
Hexachloroethane	< 0.220	1.00	ug/L								1
Indeno(1,2,3-cd)pyrene	< 0.502	2.00	ug/L								1
Isophorone	< 0.110	0.600	ug/L								1
Naphthalene	< 0.816	4.00	ug/L								1
Nitrobenzene	< 0.140	0.600	ug/L								1
N-Nitrosodimethylamine	< 0.156	1.00	ug/L								1
N-Nitrosodi-n-propylamine	< 0.319	2.00	ug/L								1
N-Nitrosodiphenylamine	< 0.104	0.600	ug/L								1
Pentachlorophenol	< 2.52	30.0	ug/L								1
Phenanthrene	< 0.206	1.00	ug/L								1
Phenol	< 0.171	1.00	ug/L								1

Quality Control

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast

Report Date: 02/10/2021
Matrix: Water

Work Order: 21A0717**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0681 - SW3510 (Continued)**Blank (B1A0681-BLK1) (Continued)**

Prepared: 01/25/2021 09:30 Analyzed: 01/26/2021 08:02

Pyrene	< 0.208	1.00	ug/L								1
Surrogate: 2-Fluorophenol	26.9		ug/L	66.67	40	10-88					1
Surrogate: Phenol-d5	19.3		ug/L	66.67	29	10-65					1
Surrogate: Nitrobenzene-d5	34.8		ug/L	66.67	52	25-128					1
Surrogate: 2-Fluorobiphenyl	30.8		ug/L	66.67	46	24-114					1
Surrogate: 2,4,6-Tribromophenol	40.9		ug/L	66.67	61	15-119					1
Surrogate: 4-Terphenyl-d14	58.4		ug/L	66.67	88	29-129					1

LCS (B1A0681-BS1)

Prepared: 01/25/2021 09:30 Analyzed: 01/26/2021 08:44

1,2,4-Trichlorobenzene	32.9	2.00	ug/L	50.00	66	35-101					1
1,2-Dichlorobenzene	29.1	2.00	ug/L	50.00	58	33-97					1
1,3-Dichlorobenzene	28.8	2.00	ug/L	50.00	58	32-96					1
1,4-Dichlorobenzene	29.0	2.00	ug/L	50.00	58	31-97					1
2,4,5-Trichlorophenol	40.4	1.00	ug/L	50.00	81	38-126					1
2,4,6-Trichlorophenol	39.4	1.00	ug/L	50.00	79	38-124					1
2,4-Dichlorophenol	38.9	1.00	ug/L	50.00	78	42-117					1
2,4-Dimethylphenol	33.9	2.00	ug/L	50.00	68	11-112					1
2,4-Dinitrophenol	40.7	30.0	ug/L	50.00	81	5-113					1
2,4-Dinitrotoluene	41.5	2.00	ug/L	50.00	83	39-124					1
2,6-Dinitrotoluene	41.6	1.00	ug/L	50.00	83	43-125					1
2-Chloronaphthalene	37.4	0.600	ug/L	50.00	75	38-113					1
2-Chlorophenol	36.6	1.00	ug/L	50.00	73	36-109					1
2-Methylnaphthalene	37.0	4.00	ug/L	50.00	74	42-112					1
2-Methylphenol	36.5	1.00	ug/L	50.00	73	34-105					1
2-Nitroaniline	40.5	30.0	ug/L	50.00	81	35-127					1
2-Nitrophenol	36.8	1.00	ug/L	50.00	74	37-118					1
3,3'-Dichlorobenzidine	68.5	20.0	ug/L	80.00	86	39-125					1
3 & 4-Methylphenol	36.2	1.00	ug/L	50.00	72	34-102					1
3-Nitroaniline	40.9	2.00	ug/L	50.00	82	39-122					1
4,6-Dinitro-2-methylphenol	41.2	15.0	ug/L	50.00	82	29-131					1
4-Bromophenyl-phenylether	43.9	1.00	ug/L	50.00	88	43-127					1
4-Chloro-3-methylphenol	40.8	0.500	ug/L	50.00	82	43-119					1
4-Chloroaniline	39.1	0.600	ug/L	50.00	78	40-116					1
4-Chlorophenyl-phenylether	41.3	1.00	ug/L	50.00	83	41-118					1
4-Nitroaniline	41.8	30.0	ug/L	50.00	84	41-128					1
4-Nitrophenol	21.2	15.0	ug/L	50.00	42	13-68					1
Acenaphthene	39.8	0.600	ug/L	50.00	80	40-115					1
Acenaphthylene	40.5	0.600	ug/L	50.00	81	38-116					1
Anthracene	43.8	0.600	ug/L	50.00	88	41-124					1
Azobenzene as 1,2-Diphenylhydrazine	42.3	1.00	ug/L	50.00	85	41-127					1
Benzidine	62.1	80.0	ug/L	80.00	78	15-122				J	1
Benzo(a)anthracene	42.6	0.600	ug/L	50.00	85	44-131					1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0681 - SW3510 (Continued)**LCS (B1A0681-BS1) (Continued)**

Prepared: 01/25/2021 09:30 Analyzed: 01/26/2021 08:44

Benzo(a)pyrene	41.5	2.00	ug/L	50.00		83	46-131				1
Benzo(b)fluoranthene	41.7	2.00	ug/L	50.00		83	45-132				1
Benzo(g,h,i)perylene	43.1	2.00	ug/L	50.00		86	41-131				1
Benzo(k)fluoranthene	42.9	2.00	ug/L	50.00		86	47-132				1
Benzoic acid	39.7	40.0	ug/L	160.0		25	5-95			J	1
Benzyl alcohol	35.5	4.00	ug/L	50.00		71	43-107				1
Bis(2-chloroethoxy)methane	38.3	1.00	ug/L	50.00		77	40-114				1
Bis(2-chloroethyl)ether	35.8	1.00	ug/L	50.00		72	37-109				1
Bis(2-chloroisopropyl)ether	36.3	1.00	ug/L	50.00		73	34-112				1
Bis(2-ethylhexyl)phthalate	42.3	20.0	ug/L	50.00		85	40-135				1
Butyl benzyl phthalate	41.9	1.00	ug/L	50.00		84	38-133				1
Carbazole	44.7	1.00	ug/L	50.00		89	47-129				1
Chrysene	41.9	0.600	ug/L	50.00		84	44-125				1
Dibenzo(a,h)anthracene	39.3	2.00	ug/L	50.00		79	13-126				1
Dibenzofuran	39.7	0.600	ug/L	50.00		79	41-112				1
Diethyl phthalate	41.4	6.00	ug/L	50.00		83	43-125				1
Dimethyl phthalate	41.7	0.600	ug/L	50.00		83	43-117				1
Di-n-butyl phthalate	43.3	10.0	ug/L	50.00		87	43-132				1
Di-n-octyl phthalate	40.0	10.0	ug/L	50.00		80	36-133				1
Fluoranthene	43.2	1.00	ug/L	50.00		86	47-129				1
Fluorene	41.3	0.600	ug/L	50.00		83	43-116				1
Hexachlorobenzene	43.0	1.00	ug/L	50.00		86	44-112				1
Hexachlorobutadiene	31.6	1.00	ug/L	50.00		63	32-100				1
Hexachlorocyclopentadiene	28.6	15.0	ug/L	50.00		57	18-95				1
Hexachloroethane	28.0	1.00	ug/L	50.00		56	29-98				1
Indeno(1,2,3-cd)pyrene	40.5	2.00	ug/L	50.00		81	35-134				1
Isophorone	39.1	0.600	ug/L	50.00		78	39-113				1
Naphthalene	34.4	4.00	ug/L	50.00		69	33-109				1
Nitrobenzene	37.9	0.600	ug/L	50.00		76	42-111				1
N-Nitrosodimethylamine	28.2	1.00	ug/L	50.00		56	28-87				1
N-Nitrosodi-n-propylamine	39.5	2.00	ug/L	50.00		79	37-115				1
N-Nitrosodiphenylamine	43.8	0.600	ug/L	50.00		88	45-124				1
Pentachlorophenol	41.7	30.0	ug/L	50.00		83	29-120				1
Phenanthrene	43.5	1.00	ug/L	50.00		87	43-114				1
Phenol	21.4	1.00	ug/L	50.00		43	16-71				1
Pyrene	44.6	1.00	ug/L	50.00		89	43-128				1
Surrogate: 2-Fluorophenol	35.9		ug/L	66.67		54	10-88				1
Surrogate: Phenol-d5	26.5		ug/L	66.67		40	10-65				1
Surrogate: Nitrobenzene-d5	49.1		ug/L	66.67		74	25-128				1
Surrogate: 2-Fluorobiphenyl	47.9		ug/L	66.67		72	24-114				1
Surrogate: 2,4,6-Tribromophenol	57.1		ug/L	66.67		86	15-119				1
Surrogate: 4-Terphenyl-d14	62.6		ug/L	66.67		94	29-129				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0681 - SW3510 (Continued)**LCS (B1A0681-BS1)** (Continued)

Prepared: 01/25/2021 09:30 Analyzed: 01/26/2021 08:44

Matrix Spike (B1A0681-MS1)**Source: 21A0717-19**

Prepared: 01/25/2021 09:30 Analyzed: 01/26/2021 10:28

1,2,4-Trichlorobenzene	32.1	2.13	ug/L	53.26	ND	60	34-96				1
1,2-Dichlorobenzene	27.8	2.13	ug/L	53.26	ND	52	32-91				1
1,3-Dichlorobenzene	26.8	2.13	ug/L	53.26	ND	50	29-90				1
1,4-Dichlorobenzene	27.4	2.13	ug/L	53.26	ND	51	31-88				1
2,4,5-Trichlorophenol	41.7	1.07	ug/L	53.26	ND	78	54-120				1
2,4,6-Trichlorophenol	38.5	1.07	ug/L	53.26	ND	72	51-117				1
2,4-Dichlorophenol	36.0	1.07	ug/L	53.26	ND	68	33-134				1
2,4-Dimethylphenol	30.0	2.13	ug/L	53.26	ND	56	17-132				1
2,4-Dinitrophenol	38.3	32.0	ug/L	53.26	ND	72	1-123				1
2,4-Dinitrotoluene	43.2	2.13	ug/L	53.26	ND	81	49-124				1
2,6-Dinitrotoluene	43.0	1.07	ug/L	53.26	ND	81	57-121				1
2-Chloronaphthalene	37.2	0.639	ug/L	53.26	ND	70	50-101				1
2-Chlorophenol	32.7	1.07	ug/L	53.26	ND	61	37-107				1
2-Methylnaphthalene	36.6	4.26	ug/L	53.26	ND	69	35-121				1
2-Methylphenol	30.3	1.07	ug/L	53.26	ND	57	32-107				1
2-Nitroaniline	41.6	32.0	ug/L	53.26	ND	78	45-123				1
2-Nitrophenol	36.2	1.07	ug/L	53.26	ND	68	38-120				1
3,3'-Dichlorobenzidine	71.0	21.3	ug/L	85.22	ND	83	33-137				1
3 & 4-Methylphenol	28.9	1.07	ug/L	53.26	ND	54	20-115				1
3-Nitroaniline	41.9	2.13	ug/L	53.26	ND	79	39-125				1
4,6-Dinitro-2-methylphenol	43.3	16.0	ug/L	53.26	ND	81	11-132				1
4-Bromophenyl-phenylether	45.6	1.07	ug/L	53.26	ND	86	56-116				1
4-Chloro-3-methylphenol	39.3	0.533	ug/L	53.26	ND	74	28-144				1
4-Chloroaniline	38.6	0.639	ug/L	53.26	ND	72	48-110				1
4-Chlorophenyl-phenylether	42.1	1.07	ug/L	53.26	ND	79	55-106				1
4-Nitroaniline	42.6	32.0	ug/L	53.26	ND	80	51-123				1
4-Nitrophenol	21.3	16.0	ug/L	53.26	ND	40	10-81				1
Acenaphthene	39.9	0.639	ug/L	53.26	ND	75	27-133				1
Acenaphthylene	41.0	0.639	ug/L	53.26	ND	77	47-113				1
Anthracene	45.5	0.639	ug/L	53.26	ND	85	61-115				1
Azobenzene as 1,2-Diphenylhydrazine	44.1	1.07	ug/L	53.26	ND	83	55-119				1
Benzidine	51.9	85.2	ug/L	85.22	ND	61	10-132			J	1
Benzo(a)anthracene	43.7	0.639	ug/L	53.26	ND	82	60-125				1
Benzo(a)pyrene	42.3	2.13	ug/L	53.26	ND	79	66-125				1
Benzo(b)fluoranthene	43.7	2.13	ug/L	53.26	ND	82	65-128				1
Benzo(g,h,i)perylene	42.0	2.13	ug/L	53.26	ND	79	62-123				1
Benzo(k)fluoranthene	43.2	2.13	ug/L	53.26	ND	81	64-122				1
Benzoic acid	28.2	42.6	ug/L	170.4	ND	17	7-82			J	1
Benzyl alcohol	34.8	4.26	ug/L	53.26	ND	65	36-110				1
Bis(2-chloroethoxy)methane	36.0	1.07	ug/L	53.26	ND	68	44-112				1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0681 - SW3510 (Continued)**Matrix Spike (B1A0681-MS1) (Continued)****Source: 21A0717-19**

Prepared: 01/25/2021 09:30 Analyzed: 01/26/2021 10:28

Bis(2-chloroethyl)ether	34.3	1.07	ug/L	53.26	ND	64	38-104				1
Bis(2-chloroisopropyl)ether	34.1	1.07	ug/L	53.26	ND	64	35-104				1
Bis(2-ethylhexyl)phthalate	44.5	21.3	ug/L	53.26	ND	84	52-139				1
Butyl benzyl phthalate	44.1	1.07	ug/L	53.26	ND	83	55-132				1
Carbazole	46.4	1.07	ug/L	53.26	ND	87	62-128				1
Chrysene	43.6	0.639	ug/L	53.26	ND	82	62-116				1
Dibenzo(a,h)anthracene	40.7	2.13	ug/L	53.26	ND	76	46-143				1
Dibenzofuran	41.1	0.639	ug/L	53.26	ND	77	53-110				1
Diethyl phthalate	43.2	6.39	ug/L	53.26	ND	81	58-117				1
Dimethyl phthalate	43.1	0.639	ug/L	53.26	ND	81	61-106				1
Di-n-butyl phthalate	45.2	10.7	ug/L	53.26	ND	85	60-132				1
Di-n-octyl phthalate	41.4	10.7	ug/L	53.26	ND	78	48-135				1
Fluoranthene	44.6	1.07	ug/L	53.26	ND	84	63-122				1
Fluorene	42.3	0.639	ug/L	53.26	ND	79	46-125				1
Hexachlorobenzene	44.2	1.07	ug/L	53.26	ND	83	51-110				1
Hexachlorobutadiene	30.9	1.07	ug/L	53.26	ND	58	29-94				1
Hexachlorocyclopentadiene	29.3	16.0	ug/L	53.26	ND	55	9-94				1
Hexachloroethane	26.0	1.07	ug/L	53.26	ND	49	25-89				1
Indeno(1,2,3-cd)pyrene	41.8	2.13	ug/L	53.26	ND	79	49-137				1
Isophorone	38.0	0.639	ug/L	53.26	ND	71	43-110				1
Naphthalene	33.5	4.26	ug/L	53.26	ND	63	20-163				1
Nitrobenzene	36.3	0.639	ug/L	53.26	ND	68	39-113				1
N-Nitrosodimethylamine	27.4	1.07	ug/L	53.26	ND	51	18-90				1
N-Nitrosodi-n-propylamine	37.8	2.13	ug/L	53.26	ND	71	37-116				1
N-Nitrosodiphenylamine	44.7	0.639	ug/L	53.26	ND	84	62-114				1
Pentachlorophenol	39.2	32.0	ug/L	53.26	ND	74	12-122				1
Phenanthrene	44.8	1.07	ug/L	53.26	ND	84	41-129				1
Phenol	18.4	1.07	ug/L	53.26	0.772	33	10-68				1
Pyrene	46.1	1.07	ug/L	53.26	ND	87	59-124				1
Surrogate: 2-Fluorophenol	29.1		ug/L	71.02		41	10-88				1
Surrogate: Phenol-d5	23.0		ug/L	71.02		32	10-65				1
Surrogate: Nitrobenzene-d5	47.7		ug/L	71.02		67	25-128				1
Surrogate: 2-Fluorobiphenyl	47.3		ug/L	71.02		67	24-114				1
Surrogate: 2,4,6-Tribromophenol	58.0		ug/L	71.02		82	15-119				1
Surrogate: 4-Terphenyl-d14	65.2		ug/L	71.02		92	29-129				1

Matrix Spike Dup (B1A0681-MSD1)**Source: 21A0717-19**

Prepared: 01/25/2021 09:30 Analyzed: 01/26/2021 10:49

1,2,4-Trichlorobenzene	29.5	2.03	ug/L	50.75	ND	58	34-96	9	27		1
1,2-Dichlorobenzene	24.7	2.03	ug/L	50.75	ND	49	32-91	12	29		1
1,3-Dichlorobenzene	23.0	2.03	ug/L	50.75	ND	45	29-90	15	33		1
1,4-Dichlorobenzene	23.9	2.03	ug/L	50.75	ND	47	31-88	14	32		1
2,4,5-Trichlorophenol	39.3	1.02	ug/L	50.75	ND	77	54-120	6	22		1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0681 - SW3510 (Continued)**Matrix Spike Dup (B1A0681-MSD1) (Continued)****Source: 21A0717-19**

Prepared: 01/25/2021 09:30 Analyzed: 01/26/2021 10:49

2,4,6-Trichlorophenol	36.2	1.02	ug/L	50.75	ND	71	51-117	6	33		1
2,4-Dichlorophenol	34.3	1.02	ug/L	50.75	ND	68	33-134	5	21		1
2,4-Dimethylphenol	27.6	2.03	ug/L	50.75	ND	54	17-132	8	23		1
2,4-Dinitrophenol	36.8	30.5	ug/L	50.75	ND	72	1-123	4	43		1
2,4-Dinitrotoluene	41.3	2.03	ug/L	50.75	ND	81	49-124	5	23		1
2,6-Dinitrotoluene	41.3	1.02	ug/L	50.75	ND	81	57-121	4	21		1
2-Chloronaphthalene	35.0	0.609	ug/L	50.75	ND	69	50-101	6	26		1
2-Chlorophenol	31.7	1.02	ug/L	50.75	ND	63	37-107	3	28		1
2-Methylnaphthalene	33.9	4.06	ug/L	50.75	ND	67	35-121	8	27		1
2-Methylphenol	28.1	1.02	ug/L	50.75	ND	55	32-107	7	32		1
2-Nitroaniline	40.0	30.5	ug/L	50.75	ND	79	45-123	4	19		1
2-Nitrophenol	35.5	1.02	ug/L	50.75	ND	70	38-120	2	30		1
3,3'-Dichlorobenzidine	67.1	20.3	ug/L	81.20	ND	83	33-137	6	29		1
3 & 4-Methylphenol	26.5	1.02	ug/L	50.75	ND	52	20-115	9	32		1
3-Nitroaniline	40.2	2.03	ug/L	50.75	ND	79	39-125	4	19		1
4,6-Dinitro-2-methylphenol	41.2	15.2	ug/L	50.75	ND	81	11-132	5	53		1
4-Bromophenyl-phenylether	43.2	1.02	ug/L	50.75	ND	85	56-116	5	18		1
4-Chloro-3-methylphenol	36.5	0.508	ug/L	50.75	ND	72	28-144	7	20		1
4-Chloroaniline	36.0	0.609	ug/L	50.75	ND	71	48-110	7	21		1
4-Chlorophenyl-phenylether	40.0	1.02	ug/L	50.75	ND	79	55-106	5	20		1
4-Nitroaniline	41.3	30.5	ug/L	50.75	ND	81	51-123	3	20		1
4-Nitrophenol	18.9	15.2	ug/L	50.75	ND	37	10-81	12	65		1
Acenaphthene	38.3	0.609	ug/L	50.75	ND	75	27-133	4	20		1
Acenaphthylene	39.0	0.609	ug/L	50.75	ND	77	47-113	5	21		1
Anthracene	42.7	0.609	ug/L	50.75	ND	84	61-115	6	20		1
Azobenzene as 1,2-Diphenylhydrazine	41.5	1.02	ug/L	50.75	ND	82	55-119	6	19		1
Benzidine	50.4	81.2	ug/L	81.20	ND	62	10-132	3	30	J	1
Benzo(a)anthracene	41.7	0.609	ug/L	50.75	ND	82	60-125	5	20		1
Benzo(a)pyrene	40.1	2.03	ug/L	50.75	ND	79	66-125	5	20		1
Benzo(b)fluoranthene	41.7	2.03	ug/L	50.75	ND	82	65-128	5	20		1
Benzo(g,h,i)perylene	39.6	2.03	ug/L	50.75	ND	78	62-123	6	20		1
Benzo(k)fluoranthene	41.2	2.03	ug/L	50.75	ND	81	64-122	5	20		1
Benzoic acid	21.9	40.6	ug/L	162.4	ND	14	7-82	25	30	J	1
Benzyl alcohol	32.1	4.06	ug/L	50.75	ND	63	36-110	8	26		1
Bis(2-chloroethoxy)methane	34.3	1.02	ug/L	50.75	ND	68	44-112	5	26		1
Bis(2-chloroethyl)ether	33.0	1.02	ug/L	50.75	ND	65	38-104	4	32		1
Bis(2-chloroisopropyl)ether	31.9	1.02	ug/L	50.75	ND	63	35-104	7	32		1
Bis(2-ethylhexyl)phthalate	41.6	20.3	ug/L	50.75	ND	82	52-139	7	19		1
Butyl benzyl phthalate	41.5	1.02	ug/L	50.75	ND	82	55-132	6	20		1
Carbazole	43.4	1.02	ug/L	50.75	ND	86	62-128	7	26		1
Chrysene	41.1	0.609	ug/L	50.75	ND	81	62-116	6	20		1
Dibenzo(a,h)anthracene	39.2	2.03	ug/L	50.75	ND	77	46-143	4	22		1

Quality Control

(Continued)

Client: Geosyntec Consultants**Report Date:** 02/10/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21A0717**Semivolatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1A0681 - SW3510 (Continued)**Matrix Spike Dup (B1A0681-MSD1) (Continued)****Source: 21A0717-19**

Prepared: 01/25/2021 09:30 Analyzed: 01/26/2021 10:49

Dibenzofuran	38.2	0.609	ug/L	50.75	ND	75	53-110	7	20		1
Diethyl phthalate	40.8	6.09	ug/L	50.75	ND	80	58-117	6	20		1
Dimethyl phthalate	41.2	0.609	ug/L	50.75	ND	81	61-106	5	20		1
Di-n-butyl phthalate	42.3	10.2	ug/L	50.75	ND	83	60-132	6	20		1
Di-n-octyl phthalate	40.0	10.2	ug/L	50.75	ND	79	48-135	4	20		1
Fluoranthene	42.4	1.02	ug/L	50.75	ND	83	63-122	5	20		1
Fluorene	40.2	0.609	ug/L	50.75	ND	79	46-125	5	20		1
Hexachlorobenzene	41.5	1.02	ug/L	50.75	ND	82	51-110	6	20		1
Hexachlorobutadiene	26.9	1.02	ug/L	50.75	ND	53	29-94	14	28		1
Hexachlorocyclopentadiene	27.2	15.2	ug/L	50.75	ND	54	9-94	7	42		1
Hexachloroethane	21.6	1.02	ug/L	50.75	ND	42	25-89	18	32		1
Indeno(1,2,3-cd)pyrene	40.7	2.03	ug/L	50.75	ND	80	49-137	3	23		1
Isophorone	35.6	0.609	ug/L	50.75	ND	70	43-110	7	30		1
Naphthalene	30.9	4.06	ug/L	50.75	ND	61	20-163	8	25		1
Nitrobenzene	34.4	0.609	ug/L	50.75	ND	68	39-113	6	30		1
N-Nitrosodimethylamine	25.8	1.02	ug/L	50.75	ND	51	18-90	6	35		1
N-Nitrosodi-n-propylamine	34.9	2.03	ug/L	50.75	ND	69	37-116	8	27		1
N-Nitrosodiphenylamine	42.7	0.609	ug/L	50.75	ND	84	62-114	5	19		1
Pentachlorophenol	36.7	30.5	ug/L	50.75	ND	72	12-122	7	46		1
Phenanthrene	42.3	1.02	ug/L	50.75	ND	83	41-129	6	19		1
Phenol	16.7	1.02	ug/L	50.75	0.772	31	10-68	10	37		1
Pyrene	43.5	1.02	ug/L	50.75	ND	86	59-124	6	20		1
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Surrogate: 2-Fluorophenol	26.5		ug/L	67.67		39	10-88				1
Surrogate: Phenol-d5	20.3		ug/L	67.67		30	10-65				1
Surrogate: Nitrobenzene-d5	45.0		ug/L	67.67		66	25-128				1
Surrogate: 2-Fluorobiphenyl	44.4		ug/L	67.67		66	24-114				1
Surrogate: 2,4,6-Tribromophenol	55.1		ug/L	67.67		81	15-119				1
Surrogate: 4-Terphenyl-d14	60.6		ug/L	67.67		90	29-129				1

Quality Control

(Continued)

Client: Geosyntec Consultants

Report Date: 02/10/2021

Project: Milw Die Cast

Matrix: Water

Work Order: 21A0717

Subcontracted Analyses

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
Batch: B1A0755 - SW5030											
Blank (B1A0755-BLK1) Prepared: 01/25/2021 07:00 Analyzed: 01/25/2021 23:50											
1,4-Dioxane	< 0.500	0.500	ug/L								1
Surrogate: Toluene-d8	4.53		ug/L	4.000		113	80-120				1
LCS (B1A0755-BS1) Prepared: 01/25/2021 07:00 Analyzed: 01/25/2021 13:16											
1,4-Dioxane	4.08		ug/L	4.000		102	59-139				1
Surrogate: Toluene-d8	3.66		ug/L	4.000		92	80-120				1
Matrix Spike (B1A0755-MS1) Source: 21A0717-19 Prepared: 01/25/2021 07:00 Analyzed: 01/25/2021 13:41											
1,4-Dioxane	4.19		ug/L	4.000	0.0200	104	70-130				1
Surrogate: Toluene-d8	8.02		ug/L	4.000		200	80-120			S	1
Matrix Spike Dup (B1A0755-MSD1) Source: 21A0717-19 Prepared: 01/25/2021 07:00 Analyzed: 01/25/2021 14:05											
1,4-Dioxane	4.30		ug/L	4.000	0.0200	107	70-130	3	20		1
Surrogate: Toluene-d8	7.01		ug/L	4.000		175	80-120			S	1
Batch: B1B0005 - SW5030											
Blank (B1B0005-BLK1) Prepared: 01/29/2021 07:29 Analyzed: 01/29/2021 14:46											
1,4-Dioxane	< 0.500	0.500	ug/L								1
Surrogate: Toluene-d8	4.07		ug/L	4.000		102	80-120				1
LCS (B1B0005-BS1) Prepared: 01/29/2021 07:29 Analyzed: 01/29/2021 13:23											
1,4-Dioxane	3.83		ug/L	4.000		96	59-139				1
Surrogate: Toluene-d8	3.84		ug/L	4.000		96	80-120				1
LCS Dup (B1B0005-BS1) Prepared: 01/29/2021 07:29 Analyzed: 01/29/2021 13:50											
1,4-Dioxane	3.72		ug/L	4.000		93	59-139	3	20		1
Surrogate: Toluene-d8	3.83		ug/L	4.000		96	80-120				1
MRL Check (B1B0005-MRL1) Prepared: 01/29/2021 07:29 Analyzed: 01/29/2021 15:14											
1,4-Dioxane	0.200		ug/L	0.2000		100	0-200				1
Surrogate: Toluene-d8	3.97		ug/L	4.000		99	80-120				1
MRL Check (B1B0005-MRL2) Prepared: 01/29/2021 07:29 Analyzed: 01/29/2021 15:42											
1,4-Dioxane	0.500		ug/L	0.5000		100	0-200				1
Surrogate: Toluene-d8	4.09		ug/L	4.000		102	80-120				1

Certified Analyses included in this Report

Analyte	CAS #	Certifications
SW8082A in Water		
Aroclor 1016	12674-11-2	AKDEC,WDNR,DoD,ILEPA
Aroclor 1016	12674-11-2	AKDEC,WDNR,DoD,ILEPA
Aroclor 1221	11104-28-2	AKDEC,WDNR,DoD,ILEPA
Aroclor 1221	11104-28-2	AKDEC,WDNR,DoD,ILEPA
Aroclor 1232	11141-16-5	AKDEC,WDNR,DoD,ILEPA
Aroclor 1232	11141-16-5	AKDEC,WDNR,DoD,ILEPA
Aroclor 1242	53469-21-9	AKDEC,WDNR,DoD,ILEPA
Aroclor 1242	53469-21-9	AKDEC,WDNR,DoD,ILEPA
Aroclor 1248	12672-29-6	AKDEC,WDNR,DoD,ILEPA
Aroclor 1248	12672-29-6	AKDEC,WDNR,DoD,ILEPA
Aroclor 1254	11097-69-1	AKDEC,WDNR,DoD,ILEPA
Aroclor 1254	11097-69-1	AKDEC,WDNR,DoD,ILEPA
Aroclor 1260	11096-82-5	AKDEC,WDNR,DoD,ILEPA
Aroclor 1260	11096-82-5	AKDEC,WDNR,DoD,ILEPA
Total PCB	1336-36-3	AKDEC,WDNR,DoD,ILEPA
Total PCB	1336-36-3	AKDEC,WDNR,DoD,ILEPA
SW8260B in Water		
1,1,1,2-Tetrachloroethane	630-20-6	WDNR,DoD,ILEPA
1,1,1-Trichloroethane	71-55-6	AKDEC,WDNR,DoD,ILEPA
1,1,2,2-Tetrachloroethane	79-34-5	AKDEC,WDNR,DoD,ILEPA
1,1,2-Trichloroethane	79-00-5	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloroethane	75-34-3	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloroethene	75-35-4	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloropropene	563-58-6	WDNR,DoD,ILEPA
1,2,3-Trichlorobenzene	87-61-6	WDNR,DoD,ILEPA
1,2,3-Trichloropropane	96-18-4	AKDEC,WDNR,DoD,ILEPA
1,2,4-Trimethylbenzene	95-63-6	WDNR,DoD,ILEPA
1,2-Dibromo-3-chloropropane	96-12-8	AKDEC,WDNR,DoD,ILEPA
1,2-Dibromoethane	106-93-4	AKDEC,WDNR,DoD,ILEPA
1,2-Dichloroethane	107-06-2	AKDEC,WDNR,DoD,ILEPA
1,2-Dichloropropane	78-87-5	AKDEC,WDNR,DoD,ILEPA
1,3,5-Trimethylbenzene	108-67-8	WDNR,DoD,ILEPA
1,3-Dichloropropane	142-28-9	WDNR,DoD,ILEPA
2,2-Dichloropropane	594-20-7	WDNR,DoD,ILEPA
2-Butanone	78-93-3	WDNR,DoD,ILEPA
2-Chlorotoluene	95-49-8	WDNR,DoD,ILEPA
2-Hexanone	591-78-6	WDNR,DoD,ILEPA
4-Isopropyltoluene	99-87-6	WDNR,DoD,ILEPA
4-Methyl-2-pentanone	108-10-1	WDNR,DoD,ILEPA
Acetone	67-64-1	WDNR,DoD,ILEPA

Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW8260B in Water (Continued)		
Benzene	71-43-2	AKDEC,WDNR,DoD,ILEPA
Bromobenzene	108-86-1	WDNR,DoD,ILEPA
Bromochloromethane	74-97-5	WDNR,DoD,ILEPA
Bromodichloromethane	75-27-4	AKDEC,WDNR,DoD,ILEPA
Bromoform	75-25-2	AKDEC,WDNR,DoD,ILEPA
Bromomethane	74-83-9	AKDEC,WDNR,DoD,ILEPA
Carbon disulfide	75-15-0	WDNR,DoD,ILEPA
Carbon tetrachloride	56-23-5	AKDEC,WDNR,DoD,ILEPA
Chlorobenzene	108-90-7	AKDEC,WDNR,DoD,ILEPA
Chloroethane	75-00-3	WDNR,DoD,ILEPA
Chloroform	67-66-3	AKDEC,WDNR,DoD,ILEPA
Chloromethane	74-87-3	AKDEC,WDNR,DoD,ILEPA
cis-1,2-Dichloroethene	156-59-2	WDNR,DoD,ILEPA
cis-1,3-Dichloropropene	10061-01-5	AKDEC,WDNR,DoD,ILEPA
Cyclohexane	110-82-7	DoD
Dibromochloromethane	124-48-1	AKDEC,WDNR,DoD,ILEPA
Dibromomethane	74-95-3	WDNR,DoD,ILEPA
Dichlorodifluoromethane	75-71-8	WDNR,DoD,ILEPA
Ethylbenzene	100-41-4	AKDEC,WDNR,DoD,ILEPA
Isopropylbenzene	98-82-8	WDNR,DoD,ILEPA
m,p-Xylene	179601-23-1	AKDEC,WDNR,DoD,ILEPA
Methyl tert-butyl ether	1634-04-4	WDNR,DoD,ILEPA
Methylene chloride	75-09-2	AKDEC,WDNR,DoD,ILEPA
n-Butylbenzene	104-51-8	WDNR,DoD,ILEPA
n-Propylbenzene	103-65-1	WDNR,DoD,ILEPA
o-Xylene	95-47-6	AKDEC,WDNR,DoD,ILEPA
sec-Butylbenzene	135-98-8	WDNR,DoD,ILEPA
Styrene	100-42-5	WDNR,DoD
tert-Butylbenzene	98-06-6	WDNR,DoD,ILEPA
Tetrachloroethene	127-18-4	AKDEC,WDNR,DoD,ILEPA
Toluene	108-88-3	AKDEC,WDNR,DoD,ILEPA
trans-1,2-Dichloroethene	156-60-5	AKDEC,WDNR,DoD,ILEPA
trans-1,3-Dichloropropene	10061-02-6	AKDEC,WDNR,DoD,ILEPA
Trichloroethene	79-01-6	AKDEC,WDNR,DoD,ILEPA
Trichlorofluoromethane	75-69-4	AKDEC,WDNR,DoD,ILEPA
Vinyl chloride	75-01-4	AKDEC,WDNR,DoD,ILEPA
Xylenes, Total	1330-20-7	AKDEC,WDNR,DoD,ILEPA
SW8260-SIM Modified in Water		
1,4-Dioxane	123-91-1	WDNR

SW8270D in Water

Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW8270D in Water (Continued)		
1,2,4-Trichlorobenzene	120-82-1	WDNR,DoD,ILEPA
1,2-Dichlorobenzene	95-50-1	WDNR,DoD,ILEPA
1,3-Dichlorobenzene	541-73-1	WDNR,DoD,ILEPA
1,4-Dichlorobenzene	106-46-7	WDNR,DoD,ILEPA
2,4,5-Trichlorophenol	95-95-4	WDNR,DoD,ILEPA
2,4,6-Trichlorophenol	88-06-2	WDNR,DoD,ILEPA
2,4-Dichlorophenol	120-83-2	WDNR,DoD,ILEPA
2,4-Dimethylphenol	105-67-9	WDNR,DoD,ILEPA
2,4-Dinitrophenol	51-28-5	WDNR,DoD,ILEPA
2,4-Dinitrotoluene	121-14-2	WDNR,DoD,ILEPA
2,6-Dinitrotoluene	606-20-2	WDNR,DoD,ILEPA
2-Chloronaphthalene	91-58-7	WDNR,DoD,ILEPA
2-Chlorophenol	95-57-8	WDNR,DoD,ILEPA
2-Methylnaphthalene	91-57-6	AKDEC,WDNR,DoD,ILEPA
2-Methylphenol	95-48-7	WDNR,DoD,ILEPA
2-Nitroaniline	88-74-4	WDNR,DoD,ILEPA
2-Nitrophenol	88-75-5	WDNR,DoD,ILEPA
3,3'-Dichlorobenzidine	91-94-1	WDNR,DoD,ILEPA
3 & 4-Methylphenol	84989-04-8	WDNR,DoD,ILEPA
3-Nitroaniline	99-09-2	WDNR,DoD,ILEPA
4,6-Dinitro-2-methylphenol	534-52-1	WDNR,DoD,ILEPA
4-Bromophenyl-phenylether	101-55-3	WDNR,DoD,ILEPA
4-Chloro-3-methylphenol	59-50-7	WDNR,DoD,ILEPA
4-Chloroaniline	106-47-8	WDNR,DoD,ILEPA
4-Chlorophenyl-phenylether	7005-72-3	WDNR,DoD,ILEPA
4-Nitroaniline	100-01-6	WDNR,DoD,ILEPA
4-Nitrophenol	100-02-7	WDNR,DoD,ILEPA
Acenaphthene	83-32-9	AKDEC,WDNR,DoD,ILEPA
Acenaphthylene	208-96-8	AKDEC,WDNR,DoD,ILEPA
Anthracene	120-12-7	AKDEC,WDNR,DoD,ILEPA
Azobenzene as 1,2-Diphenylhydrazine	103-33-3	WDNR,DoD,ILEPA
Benzidine	92-87-5	WDNR,DoD,ILEPA
Benzo(a)anthracene	56-55-3	AKDEC,WDNR,DoD,ILEPA
Benzo(a)pyrene	50-32-8	AKDEC,WDNR,DoD,ILEPA
Benzo(b)fluoranthene	205-99-2	AKDEC,WDNR,DoD,ILEPA
Benzo(g,h,i)perylene	191-24-2	AKDEC,WDNR,DoD,ILEPA
Benzo(k)fluoranthene	207-08-9	AKDEC,WDNR,DoD,ILEPA
Benzoic acid	65-85-0	WDNR,DoD,ILEPA
Benzyl alcohol	100-51-6	WDNR,DoD,ILEPA
Bis(2-chloroethoxy)methane	111-91-1	WDNR,DoD,ILEPA
Bis(2-chloroethyl)ether	111-44-4	WDNR,DoD,ILEPA

Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW8270D in Water (Continued)		
Bis(2-chloroisopropyl)ether	108-60-1	WDNR,DoD,ILEPA
Bis(2-ethylhexyl)phthalate	117-81-7	WDNR,DoD,ILEPA,ISO
Butyl benzyl phthalate	85-68-7	WDNR,DoD,ILEPA,ISO
Carbazole	86-74-8	WDNR,DoD,ILEPA
Chrysene	218-01-9	AKDEC,WDNR,DoD,ILEPA
Dibenzo(a,h)anthracene	53-70-3	AKDEC,WDNR,DoD,ILEPA
Dibenzofuran	132-64-9	WDNR,DoD,ILEPA
Diethyl phthalate	84-66-2	WDNR,DoD,ILEPA
Dimethyl phthalate	131-11-3	WDNR,DoD,ILEPA
Di-n-butyl phthalate	84-74-2	WDNR,DoD,ILEPA
Di-n-octyl phthalate	117-84-0	WDNR,DoD,ILEPA,ISO
Fluoranthene	206-44-0	AKDEC,WDNR,DoD,ILEPA
Fluorene	86-73-7	AKDEC,WDNR,DoD,ILEPA
Hexachlorobenzene	118-74-1	WDNR,DoD,ILEPA
Hexachlorobutadiene	87-68-3	WDNR,DoD,ILEPA
Hexachlorocyclopentadiene	77-47-4	WDNR,DoD,ILEPA
Hexachloroethane	67-72-1	WDNR,DoD,ILEPA
Indeno(1,2,3-cd)pyrene	193-39-5	AKDEC,WDNR,DoD,ILEPA
Isophorone	78-59-1	WDNR,DoD,ILEPA
Naphthalene	91-20-3	AKDEC,WDNR,DoD,ILEPA
Nitrobenzene	98-95-3	WDNR,DoD,ILEPA
N-Nitrosodimethylamine	62-75-9	WDNR,DoD,ILEPA
N-Nitrosodi-n-propylamine	621-64-7	DoD,ILEPA
N-Nitrosodiphenylamine	86-30-6	WDNR,DoD,ILEPA
Pentachlorophenol	87-86-5	WDNR,DoD,ILEPA
Phenanthrene	85-01-8	AKDEC,WDNR,DoD,ILEPA
Phenol	108-95-2	WDNR,DoD,ILEPA
Pyrene	129-00-0	AKDEC,WDNR,DoD,ILEPA
SW9060 in Water		
Organic Carbon, Total	7440-44-0	DoD,ILEPA,WDNR

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	17-011	05/31/2022
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L18-184-R1	03/31/2021
DoD	Department of Defense, Accredited by PJLA	L18-183-R3	03/31/2021
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	1002562020-3	07/27/2021
ISO	ISO/IEC 17025, Accredited by PJLA	L18-184-R1	03/31/2021
TX	Texas Commission of Environmental Quality	T104704554-20-5	10/31/2021
WA	Washington State Department of Ecology	C1057	01/05/2021
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2021

Qualifiers and Definitions

Item	Description
J	The reported result is an estimated value.
J2	The MS/MSD or duplicate recoveries are outside the quality control criteria due to difficult sample matrix.
P	The quality control sample %RPD is above the laboratory control limit.
S	The quality control sample recovery is outside of the laboratory control limits.
%Rec	Percent Recovery
MDL	In the state of Wisconsin MDL is equivalent to LOD; in all other applications MDL is equivalent to MDL. In the state of Wisconsin the Reporting Limit is equivalent to LOQ.



509 N. 3rd Ave.
Des Plaines, IL 60016



21A0717
PM: Nicole Ryan
Geosyntec DoD
Milw Die Cast

Chain of Custody Record

TURNAROUND TIME:
 RUSH
 _____ day turnaround
 ROUTINE

63
6735

Due Date: _____ COC #: _____

Company: Geosyntec Consultants
 Address: 10600 N. Port Washington Rd. Ste. 100
Mequon, WI 53092
 Phone #: (262) 496-6103 Fax #: ()
 P.O. #: CHW8271N.02 Proj. #: _____
 Client Contact: Jeremiah Johnson/ David Zolp
 Project ID / Location: MDGC/Milwaukee, WI

Sample Type:
 1. Waste Water 4. Sludge 7. Groundwater (filtered)
 2. Drinking Water 5. Oil 8. Other
 3. Soil 6. Groundwater

Container Type:
 P - Plastic V - VOC Vial O - Other
 G - Glass B - Tedlar Bag

Preservative:
 1. None 4. NaOH 7. Zn Ace
 2. H2SO4 5. HCl 8. Other
 3. HNO3 6. MeOH

Analyses

- VOCS - METHOD 8260B
- SVOCs - METHOD 8270D
- TOC - METHOD 9060
- PCB (UNFILTERED)
- PCB (FILTERED) - METHOD 8082A
- 1,4-DIOXANE - METHOD 8082A
- METHANE, ETHANE, ETHENE - METHOD 8015B MOD

EMT USE ONLY

EMT WORKORDER #21A0717

Sample I.D.	Sample Type	Container			Sampling					Preservation		Analyses																										
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab																											
MW-1	6	40 ML	V	11	DZ	1/21/21	1035					5		X	X					X	X																	O1A-K
MW-1	6	1 L	G	4	DZ	1/21/21	1035					1			X	X																					O1L-P	
MW-1	7	1 L	G	2	DZ	1/21/21	1035					1				X																					O2AB	
MW-2	6	40 ML	V	11	EM	1/20/21	1130					5		X	X					X	X																O3A-K	
MW-2	6	1 L	G	4	EM	1/20/21	1130					1			X	X																					O3L-P	
MW-2	7	1 L	G	2	EM	1/20/21	1130					1				X																					O4AB	
MW-3	6	40 ML	V	11	DZ	1/18/21	1155					5		X	X					X	X																O5A-K	
MW-3	6	1 L	G	4	DZ	1/18/21	1155					1			X	X																					O5L-P	
MW-3	7	1 L	G	2	DZ	1/18/21	1155					1				X																					O6AB	

Relinquished By:	Date: <u>1-22-21</u> Time: <u>13:00</u>	Received By:	Date: <u>01-22-21</u> Time: <u>13:00</u>	EMT USE ONLY	<input checked="" type="checkbox"/> SAMPLE RECEIVED ON ICE <input type="checkbox"/> TEMPERATURE (Must be recorded if sampling was greater than 6 hrs. prior to sample receipt)
Relinquished By:	Date: <u>01-22-21</u> Time: <u>14:50</u>	Received By: _____	Date: _____ Time: _____	Client Code: _____	
Relinquished By: _____	Date: _____ Time: _____	Received For Lab By: <u>Aquiesha Zabawa</u>	Date: <u>01-22-2021</u> Time: <u>1450</u>	EMT Project I.D. _____ Jar Lot No. _____	

SPECIAL INSTRUCTIONS: cooler temps: 4.7, 5.7, 5.7, 6.0, 3.3, 4.0, 5.4, 4.8, 4.2, 5.2, 4.8



509 N. 3rd Ave.
Des Plaines, IL 60016

Chain of Custody Record

1-800-246-0663
Fax: 847-967-6735

Due Date: _____ COC #: _____

TURNAROUND TIME:

RUSH
_____ day turnaround

ROUTINE

Company: <u>Geosyntec Consultants</u>		Sample Type: 1. Waste Water 4. Sludge 7. Groundwater (filtered) 2. Drinking Water 5. Oil 8. Other 3. Soil 6. Groundwater		Analyses					
Address: <u>10600 N. Port Washington Rd. Ste. 100</u> <u>Mequon, WI 53092</u>		Container Type: P - Plastic V - VOC Vial O - Other G - Glass B - Tedlar Bag							
Phone #: (262) 496-6103 Fax #: ()		Preservative: 1. None 4. NaOH 7. Zn Ace 2. H ₂ SO ₄ 5. HCl 8. Other 3. HNO ₃ 6. MeOH		<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small;"> VOCs - METHOD 8260B SYOCS - METHOD 8270D TOC - METHOD 9060 PCB (UNFILTERED) PCB (FILTERED - METHOD 8082A) 1,4-DIOXANE - METHOD 8082A METHANE METHOD 8260 SIM MOD METHANE, ETHANE, ETHENE - METHOD 8015B MOD </div> <div style="text-align: right; font-weight: bold;">EMT USE ONLY</div> </div>					
P.O. #: <u>CHW8271N.02</u> Proj. #:		Client Contact: <u>Jeremiah Johnson/ David Zolp</u>							
Project ID / Location: <u>MDQC/Milwaukee, WI</u>									

Sample I.D.	Sample Type	Container			Sampling				Preservation		VOCs - METHOD 8260B SYOCS - METHOD 8270D TOC - METHOD 9060 PCB (UNFILTERED) PCB (FILTERED - METHOD 8082A) 1,4-DIOXANE - METHOD 8082A METHANE METHOD 8260 SIM MOD METHANE, ETHANE, ETHENE - METHOD 8015B MOD						EMT WORKORDER #21A0717											
		Size	Type	No.	By	Date	Time	pH	Temp.	Field								Lab										
MW-4	6	40 ML	V	11	EM	1/20/21	1430			5		X	X														07A-K	
MW-4	6	1 L	G	4	EM	1/20/21	1430			1			X	X														07L-P
MW-4	7	1 L	G	2	EM	1/20/21	1430			1				X														08AB
MW-5	6	40 ML	V	11	DZ	1/21/21	910			5		X	X		X	X												09A-K
MW-5	6	1 L	G	2	DZ	1/21/21	910			1			X	X														09LM
MW-5	7	1 L	G	1	DZ	1/21/21	910			1				X														10A
MW-6	6	40 ML	V	11	DZ	1/20/21	1130			5		X	X		X	X												11A-K
MW-6	6	1 L	G	3	DZ	1/20/21	1130			1			X	X														11L-N
MW-6	7	1 L	G	1	DZ	1/20/21	1130			1				X														12A

Relinquished By:	Date: <u>1-20-21</u> Time: <u>13:00</u>	Received By:	Date: <u>01-22-21</u> Time: <u>13:00</u>	EMT USE ONLY	<input checked="" type="checkbox"/> SAMPLE RECEIVED ON ICE <input type="checkbox"/> TEMPERATURE (Must be recorded if sampling was greater than 6 hrs. prior to sample receipt)
Relinquished By:	Date: <u>01-22-21</u> Time: <u>14:50</u>	Received By:	Date: - - Time: :	EMT Project I.D.	
Relinquished By:	Date: - - Time: :	Received For Lab By: <u>Agnieszka Zabawa</u>	Date: <u>01-22-2021</u> Time: <u>14:50</u>	Jar Lot No.	

SPECIAL INSTRUCTIONS:

**EMT SAMPLE RETURN
POLICY ON BACK**



Chain of Custody Record

1-800-246-0663
Fax: 847-967-6735

Due Date: - - - - - COC #: _____

TURNAROUND TIME:
 RUSH
 _____ day turnaround
 ROUTINE

Company: <u>Geosyntec Consultants</u>		Sample Type:			Analyses VOCS - METHOD 8360B SVOCs - METHOD 8270D TOC - METHOD 9060 PCB (UNFILTERED - METHOD 8082A) PCB (FILTERED - METHOD 8082A) 1,4-DIOXANE METHOD 8260 SIM MOD METHANE, ETHANE, ETHENE - METHOD 8045B MOD <div style="float: right; border: 1px solid black; padding: 5px;"> EMT USE ONLY EMT WORKORDER #21A0717 </div>									
Address: <u>10600 N. Port Washington Rd. Ste. 100</u> <u>Mequon, WI 53092</u>		1. Waste Water 4. Sludge 7. Groundwater (filtered) 2. Drinking Water 5. Oil 8. Other 3. Soil 6. Groundwater												
Phone #: <u>(262) 496-6103</u> Fax #: <u>() - - - - -</u>		Container Type: P - Plastic V - VOC Vial O - Other G - Glass B - Tedlar Bag												
P.O. #: <u>CHW8271N.02</u> Proj. #: <u>- - - - -</u>		Preservative: 1. None 4. NaOH 7. Zn Ace 2. H2SO4 5. HCl 8. Other 3. HNO3 6. MeOH												
Client Contact: <u>Jeremiah Johnson/ David Zolp</u>		Project ID / Location: <u>MDCQ/Milwaukee, WI</u>												

Sample I.D.	Sample Type	Container			Sampling					Preservation		VOCS - METHOD 8360B	SVOCs - METHOD 8270D	TOC - METHOD 9060	PCB (UNFILTERED - METHOD 8082A)	PCB (FILTERED - METHOD 8082A)	1,4-DIOXANE METHOD 8260 SIM MOD	METHANE, ETHANE, ETHENE - METHOD 8045B MOD	EMT WORKORDER #21A0717
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab								
MW-6 DUP	6	40 ML	V	11	DZ	1/20/21	1130				5	X	X			X	X	13A-K	
MW-6 DUP	6	1 L	G	2	DZ	1/20/21	1130				1		X	X				13LM	
MW-6 DUP	7	1 L	G	1	DZ	1/20/21	1130				1				X			14A	
MW-7	6	40 ML	V	11	EM	1/19/21	920				5	X	X			X	X	15A-K	
MW-7	6	1 L	G	4	EM	1/19/21	920				1		X	X				15L-P	
MW-7	7	1 L	G	2	EM	1/19/21	920				1				X			16AB	
MW-8	6	40 ML	V	11	EM	1/19/21	1205				5	X	X			X	X	17A-K	
MW-8	6	1 L	G	4	EM	1/19/21	1205				1		X	X				17L-P	
MW-8	7	1 L	G	2	EM	1/19/21	1205				1				X			18AB	

Relinquished By: <u>[Signature]</u>	Date: <u>1-22-21</u> Time: <u>13:00</u>	Received By: <u>[Signature]</u>	Date: <u>01-22-21</u> Time: <u>13:00</u>	EMT USE ONLY	<input checked="" type="checkbox"/> SAMPLE RECEIVED ON ICE <input type="checkbox"/> TEMPERATURE (Must be recorded if sampling was greater than 6 hrs. prior to sample receipt) EMT SAMPLE RETURN POLICY ON BACK
Relinquished By: <u>[Signature]</u>	Date: <u>1-22-21</u> Time: <u>14:50</u>	Received By:	Date: - - - Time: :	EMT Project I.D.	
Relinquished By:	Date: - - - Time: :	Received For Lab By: <u>Agnescha Labana</u>	Date: <u>01-22-2021</u> Time: <u>1450</u>	Jar Lot No. :	

SPECIAL INSTRUCTIONS:



TURNAROUND TIME:
 RUSH
_____ day turnaround
 ROUTINE

Company: Geosyntec Consultants
Address: 10600 N. Port Washington Rd. Ste. 100
Mequon, WI 53092
Phone #: (262) 496-6103 Fax #: () -
P.O. #: CHW8271N.02 Proj. #: -
Client Contact: Jeremiah Johnson/ David Zolp
Project ID / Location: MDCC/Milwaukee, WI

Sample Type:
1. Waste Water 4. Sludge 7. Groundwater (filtered)
2. Drinking Water 5. Oil 8. Other
3. Soil 6. Groundwater

Container Type:
P - Plastic V - VOC Vial O - Other
G - Glass B - Tedlar Bag

Preservative:
1. None 4. NaOH 7. Zn Ace
2. H₂SO₄ 5. HCl 8. Other
3. HNO₃ 6. MeOH

Analyses

Sample I.D.	Sample Type	Container			Sampling				Preservation		Analyses										EMT WORKORDER #21A0717				
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab	VOCs - METHOD 8360B	SVOCs - METHOD 8270D	TOC - METHOD 9060	PCB (UNFILTERED)	PCB (FILTERED - METHOD 8082A)	1,4-DIOXANE - METHOD 8082A	METHANE METHOD 8260 SIM MOD	METHOD 8015B MOD	ETHENE -					
MW-9	6	40 ML	V	33	DZ	1/19/21	1115			5		X	X				X	X							19A-AG
MW-9	6	1 L	G	8	DZ	1/19/21	1115			1			X	X											19AH-A0
MW-9	7	1 L	G	4	DZ	1/19/21	1115			1					X										20A-D
MW-10	6	40 ML	V	11	EM	1/20/21	855			5		X	X			X	X								21A-K
MW-10	6	1 L	G	4	EM	1/20/21	855			1			X	X											20L-P
MW-10	7	1 L	G	2	EM	1/20/21	855			1					X										22AB
MW-11	6	40 ML	V	11	EM	1/19/21	1415			5		X	X			X	X								23A-K
MW-11	6	1 L	G	4	EM	1/19/21	1415			1			X	X											23L-P
MW-11	7	1 L	G	2	EM	1/19/21	1415			1					X										24AB

Relinquished By: Date: 1-22-21 Time: 13:00 Received By: Date: 01-22-21 Time: 13:00 EMT USE ONLY

Relinquished By: Date: 01-22-21 Time: 14:50 Received By: _____ Date: - - Time: : EMT Project I.D.

Relinquished By: _____ Date: - - Time: : Received For Lab By: Agnieszka Zabawa Date: 01-22-2021 Time: 14:50 Jar Lot No.

SAMPLE RECEIVED ON ICE
 TEMPERATURE (Must be recorded if sampling was greater than 6 hrs. prior to sample receipt)

EMT SAMPLE RETURN POLICY ON BACK

SPECIAL INSTRUCTIONS:



Chain of Custody Record

1-800-246-0663
Fax: 847-967-6735

Due Date: _____ COC #: _____

TURNAROUND TIME:
 RUSH
_____ day turnaround
 ROUTINE

Company: <u>Geosyntec Consultants</u> Address: <u>10600 N. Port Washington Rd. Ste. 100</u> <u>Mequon, WI 53092</u> Phone #: (262) <u>496-6103</u> Fax #: () _____ P.O. #: <u>CHW8271N.02</u> Proj. #: _____ Client Contact: <u>Jeremiah Johnson/ David Zolp</u> Project ID / Location: <u>MDCC/Milwaukee, WI</u>	Sample Type: 1. Waste Water 4. Sludge 7. Groundwater (filtered) 2. Drinking Water 5. Oil 8. Other 3. Soil 6. Groundwater _____	Analyses							
Container Type: P - Plastic V - VOC Vial O - Other G - Glass B - Tedlar Bag _____		<table border="1" style="width:100%; text-align: center;"> <tr> <td>VOCs - METHOD 8260B</td> <td>SVOCS - METHOD 8270D</td> <td>TOC - METHOD 9060</td> <td>PCB (UNFILTERED)</td> <td>PCB (FILTERED - METHOD 8082A)</td> <td>1,4-DIOXANE METHOD 8082A</td> <td>METHANE, ETHANE, ETHENE - METHOD 8015B MOD</td> </tr> </table>	VOCs - METHOD 8260B	SVOCS - METHOD 8270D	TOC - METHOD 9060	PCB (UNFILTERED)	PCB (FILTERED - METHOD 8082A)	1,4-DIOXANE METHOD 8082A	METHANE, ETHANE, ETHENE - METHOD 8015B MOD
VOCs - METHOD 8260B	SVOCS - METHOD 8270D		TOC - METHOD 9060	PCB (UNFILTERED)	PCB (FILTERED - METHOD 8082A)	1,4-DIOXANE METHOD 8082A	METHANE, ETHANE, ETHENE - METHOD 8015B MOD		
Preservative: 1. None 4. NaOH 7. Zn Ace 2. H ₂ SO ₄ 5. HCl 8. Other 3. HNO ₃ 6. MeOH _____		EMT USE ONLY EMT WORKORDER #21A0717							

Sample I.D.	Sample Type	Container			Sampling					Preservation		Analyses																					
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab																						
MW-12	6	40 ML	V	11	DZ	1/18/21	1120								X	X																	25A-K
MW-12	6	1 L	G	4	DZ	1/18/21	1120									X		X															25L-P
MW-12	7	1 L	G	2	DZ	1/18/21	1120											X															26AB
MW-13	6	40 ML	V	11	EM	1/18/21	1455								X	X			X	X													27A-K
MW-13	6	1 L	G	4	EM	1/18/21	1455									X		X															27L-M
MW-13	7	1 L	G	2	EM	1/18/21	1455											X															28 AB
MW-14	6	40 ML	V	11	DZ	1/19/21	830								X	X			X	X													29A-K
MW-14	6	1 L	G	4	DZ	1/19/21	830									X		X															ABZ 01/22 30A-29L-P
MW-14	7	1 L	G	2	DZ	1/19/21	830											X															30AB

Relinquished By: _____ Date: <u>1-22-21</u> Time: <u>13:00</u>	Received By: _____ Date: <u>01-22-21</u> Time: <u>15:00</u>	EMT USE ONLY Client Code: _____	<input checked="" type="checkbox"/> SAMPLE RECEIVED ON ICE <input type="checkbox"/> TEMPERATURE <small>(Must be recorded if sampling was greater than 6 hrs. prior to sample receipt)</small>
Relinquished By: _____ Date: <u>01-22-21</u> Time: <u>14:50</u>	Received By: _____	EMT Project I.D.: _____	
Relinquished By: _____ Date: _____ Time: _____	Received For Lab By: <u>Agnieszka Zabawa</u> Date: <u>01-22-2021</u> Time: <u>14:50</u>	Jar Lot No.: _____	
EMT SAMPLE RETURN POLICY ON BACK			

SPECIAL INSTRUCTIONS:



509 N. 3rd Ave.
Des Plaines, IL 60016

Chain of Custody Record

1-800-246-0663
Fax: 847-967-6735

Due Date: _____ COC #: _____

TURNAROUND TIME:
 RUSH
_____ day turnaround
 ROUTINE

Company: Geosyntec Consultants
Address: 10600 N. Port Washington Rd. Ste. 100
Mequon, WI 53092

Phone #: (262) 496-6103 Fax #: ()
P.O. #: CHW8271N.02 Proj. #: _____
Client Contact: Jeremiah Johnson/ David Zolp
Project ID / Location: MDCC/Milwaukee, WI

Sample Type:
1. Waste Water 4. Sludge 7. Groundwater (filtered)
2. Drinking Water 5. Oil 8. Other
3. Soil 6. Groundwater _____

Container Type:
P - Plastic V - VOC Vial O - Other
G - Glass B - Tedlar Bag _____

Preservative:
1. None 4. NaOH 7. Zn Ace
2. H₂SO₄ 5. HCl 8. Other
3. HNO₃ 6. MeOH _____

Analyses

EMT USE ONLY

EMT WORKORDER #21A0717

VOCs - METHOD 8260B
SVOCs - METHOD 8270D
TOC - METHOD 9060
PCB UNFILTERED
1,4-DIOXANE - METHOD 8082A
METHANE METHOD 8082A
METHANE, ETHANE, ETHENE - METHOD 8015B-MOD

Sample I.D.	Sample Type	Container			Sampling					Preservation		Analyses	EMT USE ONLY	EMT WORKORDER #21A0717			
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab						
PZ-1	6	40 ML	V	11	DZ	1/20/21	1540					5	X	X	X	X	31A-K
PZ-1	6	1 L	G	4	DZ	1/20/21	1540					1	X	X			31L-P
PZ-1	7	1 L	G	2	DZ	1/20/21	1540					1		X			32AB
PZ-1 DUP	6	40 ML	V	11	EM	1/20/21	1540					5	X	X	X	X	33A-K
PZ-1 DUP	6	1 L	G	4	EM	1/20/21	1540					1	X	X			33L-P
PZ-1 DUP	7	1 L	G	2	EM	1/20/21	1540					1		X			34AB
PZ-2	6	40 ML	V	11	DZ	1/19/21	930					5	X	X	X	X	35A-K
PZ-2	6	1 L	G	4	DZ	1/19/21	930					1	X	X			35L-P
PZ-2	7	1 L	G	2	DZ	1/19/21	930					1		X			36AB

Relinquished By: <i>[Signature]</i>	Date: <u>1-20-21</u>	Time: <u>13:00</u>	Received By: <i>[Signature]</i>	Date: <u>01-22-21</u>	Time: <u>13:00</u>	EMT USE ONLY	<input checked="" type="checkbox"/> SAMPLE RECEIVED ON ICE <input type="checkbox"/> TEMPERATURE (Must be recorded if sampling was greater than 6 hrs. prior to sample receipt)
Relinquished By: <i>[Signature]</i>	Date: <u>01-22-21</u>	Time: <u>14:50</u>	Received By:	Date: - -	Time: :	EMT Project I.D.	
Relinquished By:	Date: - -	Time:	Received For Lab By: <u>Aquiesha Zabawa</u>	Date: - -	Time: :	Jar Lot No.	

EMT SAMPLE RETURN POLICY ON BACK

SPECIAL INSTRUCTIONS:



**Environmental
Monitoring and
Technologies, Inc.**
www.emt.com

509 N. 3rd Ave.
Des Plaines, IL 60016

Chain of Custody Record

1-800-246-0663
Fax: 847-967-6735

Due Date: _____ COC #: _____

TURNAROUND TIME:
 RUSH
 _____ day turnaround
 ROUTINE

Company: <u>Geosyntec Consultants</u> Address: <u>10600 N. Port Washington Rd. Ste. 100</u> <u>Mequon, WI 53092</u> Phone #: (262) 496-6103 Fax #: () _____ P.O. #: <u>CHW8271N.02</u> Proj. #: _____ Client Contact: <u>Jeremiah Johnson/ David Zolp</u> Project ID / Location: <u>MDGC/Milwaukee, WI</u>						Sample Type: 1. Waste Water 4. Sludge 7. Groundwater (filtered) 2. Drinking Water 5. Oil 8. Other 3. Soil 6. Groundwater Trip BL/ Equipment BL						Analyses /VOCS - METHOD 8260B /SVOCs - METHOD 8270D /TOC - METHOD 9060 /PCB (UNFILTERED - METHOD 8082A) /1,4-DIOXANE - METHOD 8082A /METHANE METHOD 8260 SIM MOD /METHOD 8015B MOD /ETHENE -						Container Type: P - Plastic V - VOC Vial O - Other G - Glass B - Tedlar Bag					
Preservative: 1. None 4. NaOH 7. Zn Ace 2. H ₂ SO ₄ 5. HCl 8. Other 3. HNO ₃ 6. MeOH																							

Sample I.D.	Sample Type	Container			Sampling					Preservation		Analyses							EMT USE ONLY	EMT WORKORDER #21A0717							
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab	VOCS	SVOCs	TOC	PCB	1,4-DIOXANE	METHANE	METHOD 8260			METHOD 8015B	ETHENE					
PZ-10	6	40 ML	V	11	DZ	1/20/21	1330								X	X											37A-K
PZ-10	6	1 L	G	4	DZ	1/20/21	1330									X	X										37L-P
PZ-10	7	1 L	G	2	DZ	1/20/21	1330										X										38AB
TB-011221	8	40 ML	V	3	EMT	1/12/21	----								X												39A-C
EB-1	8	40 ML	V	3	DZ	1/21/21	1600								X			X									40A-C

Relinquished By:	Date: <u>1-22-21</u> Time: <u>13:00</u>	Received By:	Date: <u>01-22-21</u> Time: <u>13:00</u>	EMT USE ONLY	<input checked="" type="checkbox"/> SAMPLE RECEIVED ON ICE <input type="checkbox"/> TEMPERATURE (Must be recorded if sampling was greater than 6 hrs. prior to sample receipt)
Relinquished By:	Date: <u>01-22-21</u> Time: <u>14:50</u>	Received By:	Date: - - Time: :	EMT Project I.D.	
Relinquished By:	Date: - - Time: :	Received For Lab By: <u>Agnieszka Labawa</u>	Date: <u>01-22-2021</u> Time: <u>14:50</u>	Jar Lot No.	

SPECIAL INSTRUCTIONS:

**EMT SAMPLE RETURN
POLICY ON BACK**

Sample Receipt Checklist

Work Order: 21A0717

Printed: 1/22/2021 5:57:27PM

Client: **Geosyntec DoD**
 Project: **Milw Die Cast**

Date Due: **Friday, January 29, 2021**

1

Samples Received at: **4.7 °C**

Received By: **Agnieszka B. Zabawa**
 Logged In By: **Agnieszka B. Zabawa**

Date Received: **01/22/21 14:50**
 Date Logged In: **01/22/21 17:47**

How were samples received?	EMT
Custody Seals Present	No
Custody Seals Intact	NA
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	Yes
Vials Contain > Pea Sized Air Bubble	Yes

Client Sample Name

Vials > Pea Size Bubble

PZ-1	3
MW-13	6
MW-10	5
MW-4	7
PZ-10	5

ABZ

01/22/2021

Sample Receipt Checklist

Work Order: 21A0717

Printed: 1/22/2021 5:57:27PM

Client: Geosyntec DoD
Project: Milw Die Cast

Date Due: Friday, January 29, 2021

10

Samples Received at: 5.2 °C

Received By: Agnieszka B. Zabawa
Logged In By: Agnieszka B. ZabawaDate Received: 01/22/21 14:50
Date Logged In: 01/22/21 17:47

How were samples received?	EMT
Custody Seals Present	No
Custody Seals Intact	NA
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	Yes
Vials Contain > Pea Sized Air Bubble	No

ABZ

01/22/2021

Sample Receipt Checklist

Work Order: 21A0717

Printed: 1/22/2021 5:57:27PM

Client: Geosyntec DoD
Project: Milw Die Cast

Date Due: Friday, January 29, 2021

11

Samples Received at: 4.8 °C

Received By: Agnieszka B. Zabawa
Logged In By: Agnieszka B. Zabawa

Date Received: 01/22/21 14:50
Date Logged In: 01/22/21 17:47

How were samples received?	EMT
Custody Seals Present	No
Custody Seals Intact	NA
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	Yes
Vials Contain > Pea Sized Air Bubble	No

ABZ

01/22/2021

Sample Receipt Checklist

Work Order: 21A0717

Printed: 1/22/2021 5:57:27PM

Client: Geosyntec DoD
Project: Milw Die Cast

Date Due: Friday, January 29, 2021

2

Samples Received at: 5.7 °C

Received By: Agnieszka B. Zabawa
Logged In By: Agnieszka B. Zabawa

Date Received: 01/22/21 14:50
Date Logged In: 01/22/21 17:47

How were samples received?	EMT
Custody Seals Present	No
Custody Seals Intact	NA
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	Yes
Vials Contain > Pea Sized Air Bubble	No

ABZ

01/22/2021

Sample Receipt Checklist

Work Order: 21A0717

Printed: 1/22/2021 5:57:27PM

Client: Geosyntec DoD
Project: Milw Die Cast

Date Due: Friday, January 29, 2021

3

Samples Received at: 5.7 °C

Received By: Agnieszka B. Zabawa
Logged In By: Agnieszka B. ZabawaDate Received: 01/22/21 14:50
Date Logged In: 01/22/21 17:47

How were samples received?	EMT
Custody Seals Present	No
Custody Seals Intact	NA
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	Yes
Vials Contain > Pea Sized Air Bubble	No

ABZ

01/22/2021

Sample Receipt Checklist

Work Order: 21A0717

Printed: 1/22/2021 5:57:27PM

Client: **Geosyntec DoD**
Project: **Milw Die Cast**

Date Due: **Friday, January 29, 2021**

4

Samples Received at: **6.0 °C**

Received By: **Agnieszka B. Zabawa**
Logged In By: **Agnieszka B. Zabawa**

Date Received: **01/22/21 14:50**
Date Logged In: **01/22/21 17:47**

How were samples received?	EMT
Custody Seals Present	No
Custody Seals Intact	NA
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	Yes
Vials Contain > Pea Sized Air Bubble	No

ABZ

01/22/2021

Sample Receipt Checklist

Work Order: 21A0717

Printed: 1/22/2021 5:57:27PM

Client: Geosyntec DoD
Project: Milw Die Cast

Date Due: Friday, January 29, 2021

5

Samples Received at: 3.3 °C

Received By: Agnieszka B. Zabawa
Logged In By: Agnieszka B. ZabawaDate Received: 01/22/21 14:50
Date Logged In: 01/22/21 17:47

How were samples received?	EMT
Custody Seals Present	No
Custody Seals Intact	NA
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	Yes
Vials Contain > Pea Sized Air Bubble	No

ABZ

01/22/2021

Sample Receipt Checklist

Work Order: 21A0717

Printed: 1/22/2021 5:57:27PM

Client: **Geosyntec DoD**
Project: **Milw Die Cast**

Date Due: **Friday, January 29, 2021**

6

Samples Received at: **4.0 °C**

Received By: **Agnieszka B. Zabawa**
Logged In By: **Agnieszka B. Zabawa**

Date Received: **01/22/21 14:50**
Date Logged In: **01/22/21 17:47**

How were samples received?	EMT
Custody Seals Present	No
Custody Seals Intact	NA
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	Yes
Vials Contain > Pea Sized Air Bubble	No

ABZ

01/22/2021

Sample Receipt Checklist

Work Order: 21A0717

Printed: 1/22/2021 5:57:27PM

Client: Geosyntec DoD
Project: Milw Die Cast

Date Due: Friday, January 29, 2021

7

Samples Received at: 5.4 °C

Received By: Agnieszka B. Zabawa
Logged In By: Agnieszka B. ZabawaDate Received: 01/22/21 14:50
Date Logged In: 01/22/21 17:47

How were samples received?	EMT
Custody Seals Present	No
Custody Seals Intact	NA
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	Yes
Vials Contain > Pea Sized Air Bubble	No

ABZ

01/22/2021

Sample Receipt Checklist

Work Order: 21A0717

Printed: 1/22/2021 5:57:27PM

Client: **Geosyntec DoD**
Project: **Milw Die Cast**

Date Due: **Friday, January 29, 2021**

8

Samples Received at: **4.8 °C**

Received By: **Agnieszka B. Zabawa**
Logged In By: **Agnieszka B. Zabawa**

Date Received: **01/22/21 14:50**
Date Logged In: **01/22/21 17:47**

How were samples received?	EMT
Custody Seals Present	No
Custody Seals Intact	NA
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	Yes
Vials Contain > Pea Sized Air Bubble	No

ABZ

01/22/2021

Sample Receipt Checklist

Work Order: 21A0717

Printed: 1/22/2021 5:57:27PM

Client: **Geosyntec DoD**
Project: **Milw Die Cast**

Date Due: **Friday, January 29, 2021**

9

Samples Received at: **4.2 °C**

Received By: **Agnieszka B. Zabawa**
Logged In By: **Agnieszka B. Zabawa**

Date Received: **01/22/21 14:50**
Date Logged In: **01/22/21 17:47**

How were samples received?	EMT
Custody Seals Present	No
Custody Seals Intact	NA
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	Yes
Vials Contain > Pea Sized Air Bubble	No

ABZ

01/28/2021

February 02, 2021

Nicole Ryan
Environmental Monitoring & Technologies
8100 North Austin Avenue
Morton Grove, IL 60053

RE: Project: MILWAUKEE DIE CAST
Pace Project No.: 40221458

Dear Nicole Ryan:

Enclosed are the analytical results for sample(s) received by the laboratory on January 26, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MILWAUKEE DIE CAST

Pace Project No.: 40221458

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MILWAUKEE DIE CAST

Pace Project No.: 40221458

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40221458001	MW-1	Water	01/21/21 10:35	01/26/21 10:10
40221458002	MW-2	Water	01/20/21 11:30	01/26/21 10:10
40221458003	MW-3	Water	01/18/21 11:55	01/26/21 10:10
40221458004	MW-4	Water	01/20/21 14:30	01/26/21 10:10
40221458005	MW-5	Water	01/21/21 09:10	01/26/21 10:10
40221458006	MW-6	Water	01/20/21 11:30	01/26/21 10:10
40221458007	MW-6 DUP	Water	01/20/21 11:30	01/26/21 10:10
40221458008	MW-7	Water	01/19/21 09:20	01/26/21 10:10
40221458009	MW-8	Water	01/19/21 12:05	01/26/21 10:10
40221458010	MW-9	Water	01/19/21 11:15	01/26/21 10:10
40221458011	MW-10	Water	01/20/21 08:55	01/26/21 10:10
40221458012	MW-11	Water	01/19/21 14:15	01/26/21 10:10
40221458013	MW-12	Water	01/18/21 11:20	01/26/21 10:10
40221458014	MW-13	Water	01/18/21 14:55	01/26/21 10:10
40221458015	MW-14	Water	01/19/21 08:30	01/26/21 10:10
40221458016	PZ-1	Water	01/20/21 15:40	01/26/21 10:10
40221458017	PZ-1 DUP	Water	01/20/21 15:40	01/26/21 10:10
40221458018	PZ-2	Water	01/19/21 09:30	01/26/21 10:10
40221458019	PZ-10	Water	01/20/21 13:30	01/26/21 10:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MILWAUKEE DIE CAST
Pace Project No.: 40221458

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40221458001	MW-1	EPA 8015B Modified	ALD	3	PASI-G
40221458002	MW-2	EPA 8015B Modified	ALD	3	PASI-G
40221458003	MW-3	EPA 8015B Modified	ALD	3	PASI-G
40221458004	MW-4	EPA 8015B Modified	ALD	3	PASI-G
40221458005	MW-5	EPA 8015B Modified	ALD	3	PASI-G
40221458006	MW-6	EPA 8015B Modified	ALD	3	PASI-G
40221458007	MW-6 DUP	EPA 8015B Modified	ALD	3	PASI-G
40221458008	MW-7	EPA 8015B Modified	ALD	3	PASI-G
40221458009	MW-8	EPA 8015B Modified	ALD	3	PASI-G
40221458010	MW-9	EPA 8015B Modified	ALD	3	PASI-G
40221458011	MW-10	EPA 8015B Modified	ALD	3	PASI-G
40221458012	MW-11	EPA 8015B Modified	ALD	3	PASI-G
40221458013	MW-12	EPA 8015B Modified	ALD	3	PASI-G
40221458014	MW-13	EPA 8015B Modified	ALD	3	PASI-G
40221458015	MW-14	EPA 8015B Modified	ALD	3	PASI-G
40221458016	PZ-1	EPA 8015B Modified	ALD	3	PASI-G
40221458017	PZ-1 DUP	EPA 8015B Modified	ALD	3	PASI-G
40221458018	PZ-2	EPA 8015B Modified	ALD	3	PASI-G
40221458019	PZ-10	EPA 8015B Modified	ALD	3	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: MILWAUKEE DIE CAST
Pace Project No.: 40221458

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40221458001	MW-1					
EPA 8015B Modified	Ethane	1.3J	ug/L	5.6	02/01/21 09:41	
EPA 8015B Modified	Ethane	33.8	ug/L	5.0	02/01/21 09:41	
EPA 8015B Modified	Methane	241	ug/L	2.8	02/01/21 09:41	
40221458002	MW-2					
EPA 8015B Modified	Methane	234	ug/L	2.8	02/01/21 09:48	
40221458004	MW-4					
EPA 8015B Modified	Methane	58.1	ug/L	2.8	02/01/21 10:02	HS
40221458006	MW-6					
EPA 8015B Modified	Methane	23.9	ug/L	2.8	02/01/21 10:16	
40221458007	MW-6 DUP					
EPA 8015B Modified	Methane	20.3	ug/L	2.8	02/01/21 10:23	
40221458008	MW-7					
EPA 8015B Modified	Methane	73.3	ug/L	2.8	02/01/21 10:30	
40221458010	MW-9					
EPA 8015B Modified	Methane	1.1J	ug/L	2.8	02/01/21 10:44	
40221458014	MW-13					
EPA 8015B Modified	Methane	15.6	ug/L	2.8	02/01/21 11:33	
40221458015	MW-14					
EPA 8015B Modified	Methane	1.2J	ug/L	2.8	02/01/21 11:40	
40221458016	PZ-1					
EPA 8015B Modified	Ethane	1.4J	ug/L	5.0	02/01/21 11:47	HS
EPA 8015B Modified	Methane	4.1	ug/L	2.8	02/01/21 11:47	HS
40221458017	PZ-1 DUP					
EPA 8015B Modified	Ethane	1.5J	ug/L	5.0	02/01/21 11:54	
EPA 8015B Modified	Methane	4.1	ug/L	2.8	02/01/21 11:54	
40221458018	PZ-2					
EPA 8015B Modified	Ethane	2.1J	ug/L	5.6	02/01/21 12:00	
EPA 8015B Modified	Methane	35.8	ug/L	2.8	02/01/21 12:00	
40221458019	PZ-10					
EPA 8015B Modified	Methane	1.5J	ug/L	2.8	02/01/21 12:07	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MILWAUKEE DIE CAST

Pace Project No.: 40221458

Sample: MW-1 **Lab ID: 40221458001** Collected: 01/21/21 10:35 Received: 01/26/21 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay							
Ethane	1.3J	ug/L	5.6	1.2	1		02/01/21 09:41	74-84-0	
Ethene	33.8	ug/L	5.0	1.2	1		02/01/21 09:41	74-85-1	
Methane	241	ug/L	2.8	0.66	1		02/01/21 09:41	74-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MILWAUKEE DIE CAST
Pace Project No.: 40221458

Sample: MW-2 **Lab ID: 40221458002** Collected: 01/20/21 11:30 Received: 01/26/21 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay							
Ethane	<1.2	ug/L	5.6	1.2	1		02/01/21 09:48	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		02/01/21 09:48	74-85-1	
Methane	234	ug/L	2.8	0.66	1		02/01/21 09:48	74-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MILWAUKEE DIE CAST

Pace Project No.: 40221458

Sample: MW-3 **Lab ID: 40221458003** Collected: 01/18/21 11:55 Received: 01/26/21 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay							
Ethane	<1.2	ug/L	5.6	1.2	1		02/01/21 09:55	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		02/01/21 09:55	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		02/01/21 09:55	74-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MILWAUKEE DIE CAST

Pace Project No.: 40221458

Sample: MW-4 **Lab ID: 40221458004** Collected: 01/20/21 14:30 Received: 01/26/21 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	<1.2	ug/L	5.6	1.2	1		02/01/21 10:02	74-84-0	HS
Ethene	<1.2	ug/L	5.0	1.2	1		02/01/21 10:02	74-85-1	HS
Methane	58.1	ug/L	2.8	0.66	1		02/01/21 10:02	74-82-8	HS

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ANALYTICAL RESULTS

Project: MILWAUKEE DIE CAST

Pace Project No.: 40221458

Sample: MW-5 **Lab ID: 40221458005** Collected: 01/21/21 09:10 Received: 01/26/21 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	<1.2	ug/L	5.6	1.2	1		02/01/21 10:09	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		02/01/21 10:09	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		02/01/21 10:09	74-82-8	

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ANALYTICAL RESULTS

Project: MILWAUKEE DIE CAST

Pace Project No.: 40221458

Sample: MW-6 **Lab ID: 40221458006** Collected: 01/20/21 11:30 Received: 01/26/21 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay							
Ethane	<1.2	ug/L	5.6	1.2	1		02/01/21 10:16	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		02/01/21 10:16	74-85-1	
Methane	23.9	ug/L	2.8	0.66	1		02/01/21 10:16	74-82-8	

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ANALYTICAL RESULTS

Project: MILWAUKEE DIE CAST

Pace Project No.: 40221458

Sample: MW-6 DUP **Lab ID: 40221458007** Collected: 01/20/21 11:30 Received: 01/26/21 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	<1.2	ug/L	5.6	1.2	1		02/01/21 10:23	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		02/01/21 10:23	74-85-1	
Methane	20.3	ug/L	2.8	0.66	1		02/01/21 10:23	74-82-8	

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ANALYTICAL RESULTS

Project: MILWAUKEE DIE CAST

Pace Project No.: 40221458

Sample: MW-7 **Lab ID: 40221458008** Collected: 01/19/21 09:20 Received: 01/26/21 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay							
Ethane	<1.2	ug/L	5.6	1.2	1		02/01/21 10:30	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		02/01/21 10:30	74-85-1	
Methane	73.3	ug/L	2.8	0.66	1		02/01/21 10:30	74-82-8	

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ANALYTICAL RESULTS

Project: MILWAUKEE DIE CAST

Pace Project No.: 40221458

Sample: MW-8 **Lab ID: 40221458009** Collected: 01/19/21 12:05 Received: 01/26/21 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	<1.2	ug/L	5.6	1.2	1		02/01/21 10:37	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		02/01/21 10:37	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		02/01/21 10:37	74-82-8	

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ANALYTICAL RESULTS

Project: MILWAUKEE DIE CAST

Pace Project No.: 40221458

Sample: MW-9 **Lab ID: 40221458010** Collected: 01/19/21 11:15 Received: 01/26/21 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay							
Ethane	<1.2	ug/L	5.6	1.2	1		02/01/21 10:44	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		02/01/21 10:44	74-85-1	
Methane	1.1J	ug/L	2.8	0.66	1		02/01/21 10:44	74-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MILWAUKEE DIE CAST

Pace Project No.: 40221458

Sample: MW-10 **Lab ID: 40221458011** Collected: 01/20/21 08:55 Received: 01/26/21 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	<1.2	ug/L	5.6	1.2	1		02/01/21 11:12	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		02/01/21 11:12	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		02/01/21 11:12	74-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MILWAUKEE DIE CAST

Pace Project No.: 40221458

Sample: MW-11 **Lab ID: 40221458012** Collected: 01/19/21 14:15 Received: 01/26/21 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay							
Ethane	<1.2	ug/L	5.6	1.2	1		02/01/21 11:19	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		02/01/21 11:19	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		02/01/21 11:19	74-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MILWAUKEE DIE CAST

Pace Project No.: 40221458

Sample: MW-12 **Lab ID: 40221458013** Collected: 01/18/21 11:20 Received: 01/26/21 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay							
Ethane	<1.2	ug/L	5.6	1.2	1		02/01/21 11:26	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		02/01/21 11:26	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		02/01/21 11:26	74-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MILWAUKEE DIE CAST
Pace Project No.: 40221458

Sample: MW-13 **Lab ID: 40221458014** Collected: 01/18/21 14:55 Received: 01/26/21 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	<1.2	ug/L	5.6	1.2	1		02/01/21 11:33	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		02/01/21 11:33	74-85-1	
Methane	15.6	ug/L	2.8	0.66	1		02/01/21 11:33	74-82-8	

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ANALYTICAL RESULTS

Project: MILWAUKEE DIE CAST

Pace Project No.: 40221458

Sample: MW-14 **Lab ID: 40221458015** Collected: 01/19/21 08:30 Received: 01/26/21 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay							
Ethane	<1.2	ug/L	5.6	1.2	1		02/01/21 11:40	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		02/01/21 11:40	74-85-1	
Methane	1.2J	ug/L	2.8	0.66	1		02/01/21 11:40	74-82-8	

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ANALYTICAL RESULTS

Project: MILWAUKEE DIE CAST

Pace Project No.: 40221458

Sample: PZ-1 **Lab ID: 40221458016** Collected: 01/20/21 15:40 Received: 01/26/21 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay							
Ethane	<1.2	ug/L	5.6	1.2	1		02/01/21 11:47	74-84-0	HS
Ethene	1.4J	ug/L	5.0	1.2	1		02/01/21 11:47	74-85-1	HS
Methane	4.1	ug/L	2.8	0.66	1		02/01/21 11:47	74-82-8	HS

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ANALYTICAL RESULTS

Project: MILWAUKEE DIE CAST

Pace Project No.: 40221458

Sample: PZ-1 DUP **Lab ID: 40221458017** Collected: 01/20/21 15:40 Received: 01/26/21 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	<1.2	ug/L	5.6	1.2	1		02/01/21 11:54	74-84-0	
Ethene	1.5J	ug/L	5.0	1.2	1		02/01/21 11:54	74-85-1	
Methane	4.1	ug/L	2.8	0.66	1		02/01/21 11:54	74-82-8	

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ANALYTICAL RESULTS

Project: MILWAUKEE DIE CAST

Pace Project No.: 40221458

Sample: PZ-2 **Lab ID: 40221458018** Collected: 01/19/21 09:30 Received: 01/26/21 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	2.1J	ug/L	5.6	1.2	1		02/01/21 12:00	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		02/01/21 12:00	74-85-1	
Methane	35.8	ug/L	2.8	0.66	1		02/01/21 12:00	74-82-8	

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ANALYTICAL RESULTS

Project: MILWAUKEE DIE CAST

Pace Project No.: 40221458

Sample: PZ-10 **Lab ID: 40221458019** Collected: 01/20/21 13:30 Received: 01/26/21 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay							
Ethane	<1.2	ug/L	5.6	1.2	1		02/01/21 12:07	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		02/01/21 12:07	74-85-1	
Methane	1.5J	ug/L	2.8	0.66	1		02/01/21 12:07	74-82-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MILWAUKEE DIE CAST
Pace Project No.: 40221458

QC Batch:	376823	Analysis Method:	EPA 8015B Modified
QC Batch Method:	EPA 8015B Modified	Analysis Description:	Methane, Ethane, Ethene GCV
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40221458001, 40221458002, 40221458003, 40221458004, 40221458005, 40221458006, 40221458007, 40221458008, 40221458009, 40221458010, 40221458011, 40221458012, 40221458013, 40221458014, 40221458015, 40221458016, 40221458017, 40221458018, 40221458019

METHOD BLANK: 2176222 Matrix: Water
Associated Lab Samples: 40221458001, 40221458002, 40221458003, 40221458004, 40221458005, 40221458006, 40221458007, 40221458008, 40221458009, 40221458010, 40221458011, 40221458012, 40221458013, 40221458014, 40221458015, 40221458016, 40221458017, 40221458018, 40221458019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<1.2	5.6	02/01/21 09:12	
Ethene	ug/L	<1.2	5.0	02/01/21 09:12	
Methane	ug/L	<0.66	2.8	02/01/21 09:12	

LABORATORY CONTROL SAMPLE & LCSD: 2176223 2176224

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	53.6	51.0	49.8	95	93	80-120	2	20	
Ethene	ug/L	50	47.6	46.2	95	92	80-120	3	20	
Methane	ug/L	28.6	27.9	27.2	98	95	79-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2176225 2176226

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40221458010 Result	Spike Conc.	Spike Conc.	MS Result						
Ethane	ug/L	<1.2	53.6	53.6	47.8	49.2	89	92	79-120	3	20
Ethene	ug/L	<1.2	50	50	44.8	46.0	90	92	79-120	3	20
Methane	ug/L	1.1J	28.6	28.6	26.1	26.7	87	90	10-200	2	20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MILWAUKEE DIE CAST

Pace Project No.: 40221458

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MILWAUKEE DIE CAST

Pace Project No.: 40221458

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40221458001	MW-1	EPA 8015B Modified	376823		
40221458002	MW-2	EPA 8015B Modified	376823		
40221458003	MW-3	EPA 8015B Modified	376823		
40221458004	MW-4	EPA 8015B Modified	376823		
40221458005	MW-5	EPA 8015B Modified	376823		
40221458006	MW-6	EPA 8015B Modified	376823		
40221458007	MW-6 DUP	EPA 8015B Modified	376823		
40221458008	MW-7	EPA 8015B Modified	376823		
40221458009	MW-8	EPA 8015B Modified	376823		
40221458010	MW-9	EPA 8015B Modified	376823		
40221458011	MW-10	EPA 8015B Modified	376823		
40221458012	MW-11	EPA 8015B Modified	376823		
40221458013	MW-12	EPA 8015B Modified	376823		
40221458014	MW-13	EPA 8015B Modified	376823		
40221458015	MW-14	EPA 8015B Modified	376823		
40221458016	PZ-1	EPA 8015B Modified	376823		
40221458017	PZ-1 DUP	EPA 8015B Modified	376823		
40221458018	PZ-2	EPA 8015B Modified	376823		
40221458019	PZ-10	EPA 8015B Modified	376823		

REPORT OF LABORATORY ANALYSIS

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ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

509 N. 3rd Avenue
Des Plaines, IL 60016

40221458
Chain of Custody Record

847-967-6666
FAX: 847-967-6735
www.emt.com

Due Date: _____ COC #: 246526

TURNAROUND TIME:
 RUSH
 _____ day turnaround
 ROUTINE

Page 28 of 31

Company: EMT
 Address: 509 N 3rd Ave
Des Plaines, IL 60016
 Phone #: (847) 324-3326 Fax #: (____) _____
 P.O. #: 62105 Proj. #: _____
 Client Contact: NICKI RYAN nryan@emt.com
 Project ID / Location: Milwaukee Die Cast

Sample Type:
 1. Waste Water 4. Sludge 7. Groundwater (filtered)
 2. Drinking Water 5. Oil 8. Other
 3. Soil 6. Groundwater

Container Type:
 P - Plastic V - VOC Vial O - Other
 G - Glass B - Tedlar Bag

Preservative:
 1. None 4. NaOH 7. Zn Ace
 2. H₂SO₄ 5. HCl 8. Other
 3. HNO₃ 6. MeOH

COIS - METHANE, ETHANE, PROPANE

Analyses

EMT USE ONLY

EMT WORKORDER #

Sample I.D.	Sample Type	Container			Sampling					Preservation		Field	Lab	EMT USE ONLY	EMT WORKORDER #	
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab					
MW-1	6	40ml	V	3		1/21	10:35					5		X		001
MW-2	6	40ml	V	3		1/20	11:30					5		X		002
MW-3	6	40ml	V	3		1/18	11:55					5		X		003
MW-4	6	40ml	V	3		1/20	14:30					5		X		004
MW-5	6	40ml	V	3		1/21	9:10					5		X		005
MW-6	6	40ml	V	3		1/20	11:30					5		X		006
MW-6 DUP	6	40ml	V	3		1/20	11:30					5		X		007
MW-7	6	40ml	V	3		1/19	9:20					5		X		008
MW-8	6	40ml	V	3		1/19	12:05					5		X		009
MW-9	6	40ml	V	9		1/19	11:15					5		X		010 MS/MSD

Relinquished By: <u>[Signature]</u>	Date: <u>1-25-21</u> Time: <u>3:00 PM</u>	Received By:	Date: - -	EMT USE ONLY	<input type="checkbox"/> SAMPLE RECEIVED ON ICE
Relinquished By: <u>UPS</u>	Date: <u>1/24/21</u> Time: <u>1010</u>	Received By: <u>Nick Hackett</u>	Date: <u>1/26/21</u> Time: <u>1010</u>	Client Code:	<input checked="" type="checkbox"/> TEMPERATURE <u>10</u>
Relinquished By:	Date: - -	Received For Lab By:	Date: - -	EMT Project I.D.	<u>SR-97</u> <u>Whey - 10</u> <u>Corr - 10</u>
	Time: :		Time: :	Jar Lot No.	EMT SAMPLE RETURN POLICY ON BACK

SPECIAL INSTRUCTIONS: please run MW-9 MS/MSD



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

509 N. 3rd Avenue
Des Plaines, IL 60016

40221458
Chain of Custody Record

847-967-6666
FAX: 847-967-6735
www.emt.com

Due Date: _____ COC #: 246527

TURNAROUND TIME:
 RUSH
 _____ day turnaround
 ROUTINE

Company: EMT
 Address: 509 N 3rd Ave
Des Plaines, IL 60016
 Phone #: (847) 324-3326 Fax #: ()
 P.O. #: 62105 Proj. #: _____
 Client Contact: Nicki Ryan nryan@emt.com
 Project ID / Location: Milwaukee Die Cast

Sample Type:
 1. Waste Water 4. Sludge 7. Groundwater (filtered)
 2. Drinking Water 5. Oil 8. Other
 3. Soil 6. Groundwater _____

Container Type:
 P - Plastic V - VOC Vial O - Other
 G - Glass B - Tedlar Bag _____

Preservative:
 1. None 4. NaOH 7. Zn Ace
 2. H₂SO₄ 5. HCl 8. Other
 3. HNO₃ 6. MeOH _____

Analyses

8015 - Methane, Ethane, Ethene

EMT USE ONLY

EMT WORKORDER #

Sample I.D.	Sample Type	Container			Sampling					Preservation		Field	Lab	#	
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab				
MW-10	6	40mL	V	3		1/20	8:55					5		X	011
MW-11	6	40mL	V	3		1/19	14:15					5		X	012
MW-12	6	40mL	V	3		1/18	11:20					5		X	013
MW-13	6	40mL	V	3		1/18	14:55					5		X	014
MW-14	6	40mL	V	3		1/19	8:30					5		X	015
PZ-1	6	40mL	V	3		1/20	15:40					5		X	016
PZ-1 DUP	6	40mL	V	3		1/20	15:40					5		X	017
PZ-2	6	40mL	V	3		1/19	9:30					5		X	018
PZ-10	6	40mL	V	3		1/20	13:30					5		X	019

Relinquished By: <i>[Signature]</i>	Date: <u>1-25-21</u> Time: <u>3:00pm</u>	Received By: _____	Date: - - Time: :	EMT USE ONLY	<input checked="" type="checkbox"/> SAMPLE RECEIVED ON ICE
Relinquished By: <u>UPS</u>	Date: <u>1/26/21</u> Time: <u>10:10</u>	Received By: <i>[Signature]</i>	Date: <u>1/26/21</u> Time: <u>10:10</u>	Client Code:	<input type="checkbox"/> TEMPERATURE
Relinquished By: _____	Date: - - Time: :	Received For Lab By: _____	Date: - - Time: :	EMT Project I.D.	<u>SR-97</u> <u>uncorr-1</u> <u>corr-1</u>
				Jar Lot No.	EMT SAMPLE RETURN POLICY ON BACK

SPECIAL INSTRUCTIONS:

Sample Preservation Receipt Form

Client Name: Emt

Project # 40221458

All containers needing preservation have been checked and noted below: Yes No N/A

Initial when completed:

Date/Time:

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass						Plastic					Vials				Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)	
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU								WPFU
001																3														2.5 / 5 / 10
002																3														2.5 / 5 / 10
003																3														2.5 / 5 / 10
004																3														2.5 / 5 / 10
005																3														2.5 / 5 / 10
006																3														2.5 / 5 / 10
007																3														2.5 / 5 / 10
008																3														2.5 / 5 / 10
009																3														2.5 / 5 / 10
010																3														2.5 / 5 / 10
011																3														2.5 / 5 / 10
012																3														2.5 / 5 / 10
013																3														2.5 / 5 / 10
014																3														2.5 / 5 / 10
015																3														2.5 / 5 / 10
016																3														2.5 / 5 / 10
017																3														2.5 / 5 / 10
018																3														2.5 / 5 / 10
019																3														2.5 / 5 / 10
020																3														2.5 / 5 / 10

Handwritten notes:
 11/26/21
 VE
 11/26/21

Exceptions to preservation check: VOA Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm): Yes No N/A *If yes look in headspace column

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Sample Condition Upon Receipt Form (SCUR)

Project #: _____

Client Name: EMT

WO#: 40221458



Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____

Tracking #: 1Z073 F0R 01 9251 7595

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - 97 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: _____ /Corr: _____

Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
 Date: 1/26/21 /Initials: WJ
 Labeled By Initials: SRK

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. FCC
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. Proj. #
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC: ①	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. all sample labels inc alphanumeric id - not on coc
-Includes date/time/ID/Analysis Matrix: <u>W</u>		<u>1/26/21 WJ</u>
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: ① 019 time "09:30" 1/26/21 SRK

Memorandum

Date: March 29, 2021
To: Jeremiah Johnson
From: Jennifer Pinion
CC: J. Caprio
Subject: **Stage 2A Data Validation – Level II Data Deliverable –
Environmental Monitoring and Technologies Work Order #
21A0717 Revision 2**

SITE: Milwaukee Die Casting Company Site, Milwaukee, WI

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of seventeen water samples, two field duplicate samples, one equipment blank and one trip blank collected between January 18 and 21, 2021, during a Milwaukee Die Casting Company Site sampling event. The analyses were performed by Environmental Monitoring and Technologies (EMT), Inc, Des Plaines, Illinois. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by United States Environmental Protection Agency (US EPA) Methods 5030/8260B
- 1,4-Dioxane by US EPA Methods 5030/8260B using Selective Ion Monitoring (SIM)
- Semivolatile Organic Compounds (SVOCs) by US EPA Methods 3510/8270D
- Polychlorinated Biphenyls (PCBs) by US EPA Methods 3510/8082A
- Total Organic Carbon (TOC) by US EPA Method 9060

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the pertinent methods referenced by the data package, professional and technical judgment and the following documents:

- Updated Site Investigation Work Plan, Milwaukee Die Casting Company Site, 4132 North Holton Street. Milwaukee, Wisconsin, November 12, 2019

- US EPA National Functional Guidelines for Organic Superfund Methods Data Review, January 2017 (USEPA-540-R-2017-002)

The following samples were analyzed in the data set and validated at a Stage 2A level:

Laboratory IDs	Client IDs
21A0717-01	MW-1
21A0717-02	MW-1 Filtered
21A0717-03	MW-2
21A0717-04	MW-2 Filtered
21A0717-05	MW-3
21A0717-06	MW-3 Filtered
21A0717-07	MW-4
21A0717-08	MW-4 Filtered
21A0717-09	MW-5
21A0717-10	MW-5 Filtered
21A0717-11	MW-6
21A0717-12	MW-6 Filtered
21A0717-13	MW-6 DUP
21A0717-14	MW-6 DUP Filtered
21A0717-15	MW-7
21A0717-16	MW-7 Filtered
21A0717-17	MW-8
21A0717-18	MW-8 Filtered
21A0717-19	MW-9
21A0717-20	MW-9 Filtered

Laboratory IDs	Client IDs
21A0717-21	MW-10
21A0717-22	MW-10 Filtered
21A0717-23	MW-11
21A0717-24	MW-11 Filtered
21A0717-25	MW-12
21A0717-26	MW-12 Filtered
21A0717-27	MW-13
21A0717-28	MW-13 Filtered
21A0717-29	MW-14
21A0717-30	MW-14 Filtered
21A0717-31	PZ-1
21A0717-32	PZ-1 Filtered
21A0717-33	PZ-1 DUP
21A0717-34	PZ-1 DUP Filtered
21A0717-35	PZ-2
21A0717-36	PZ-2 Filtered
21A0717-37	PZ-10
21A0717-38	PZ-10 Filtered
21A0717-39	TB-011221
21A0717-40	EB-1

The samples were received at the laboratory at 3.3-6.0°C within the temperature criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

Collection times were not documented on the chain of custody (COC) for the trip blank, TB-011221. The trip blank was logged in with the collection time of 00:00.

For the PCB analyses, the samples were collected as both field filtered and unfiltered samples.

The COC indicates that the sample shipment included samples for dissolved gas (methane, ethane and ethylene) analysis by US EPA method 8015B; however, these results were reported in laboratory report 40221458.

The laboratory report was revised on 02/10/2021 to correct the dilution reported for the PCB results in samples MW-3 (Filtered), MW-12 (Filtered) and MW-13 (Filtered). The laboratory report was

revised again on 3/26/2021 to correct the collection times in the sample summary for samples MW-9 (filtered), PZ-10 and PZ-10 (filtered) to match the COC.

1.0 VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE

The samples were analyzed for VOCs per US EPA Methods 5030/8260 and 1,4-dioxane by US EPA Methods 5030/8260 using SIM MOD.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine the impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times and Preservation
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Trip Blank
- ✓ Surrogates
- ✓ Equipment Blank
- ⊗ Field Duplicate
- ✓ Sensitivity
- ⊗ Electronic Data Deliverable Review

1.1 Overall Assessment

1.1.1 Completeness

The VOC and 1,4-dioxane data reported in this package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for the sample set is 100%.

1.2 Holding Times and Preservation

The holding time for the VOC and 1,4-dioxane analyses of a preserved water sample is 14 days from collection to analysis. The holding times were met for the sample analyses.

The laboratory noted that headspace was present in some of the vials for samples PZ-1, MW-13, MW-10, MW-4 and PZ-10. However, additional information from the laboratory indicated that

the samples were analyzed from vials not containing headspace. Therefore, based on professional and technical judgement, no qualifications were applied to the data.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five method blanks were reported (batches B1A0768, B1A0778, B1A0926, B1A0755 and B1B0005). VOCs and 1,4-dioxane were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Three sample set specific MS/MSD pairs were reported, all using sample MW-9. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs and two LCS/LCS duplicate (LCSD) pairs were reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

Method reporting limit (MRL) standards were also reported for 1,4-dioxane. Assessment of the MRL results indicated they were within the laboratory acceptance criteria.

1.6 Trip Blank

One trip blank was submitted with the sample set, TB-011221. VOCs were not detected in the trip blank above the MDLs.

1.7 Surrogates

The surrogate recoveries were within the laboratory specified acceptance criteria, with the following exceptions.

The surrogate recoveries of toluene-d8 for the 1,4-dioxane analyses of samples MW-7, MW-14 and PZ-10 were high and outside the laboratory specified acceptance criteria. Since 1,4-dioxane was not detected in samples MW-7, MW-14 and PZ-10, no qualifications were applied to the data.

1.8 Equipment Blank

One equipment blank was collected with the sample set, EB-1. VOCs and 1,4-dioxane were not detected in the equipment blank above the MDLs.

1.9 Field Duplicate

Two field duplicate samples, MW-6 DUP and PZ-1 DUP were collected with the sample set. Acceptable precision (RPD<30%) was demonstrated between the field duplicates and the original samples, MW-6 and PZ-1, respectively, with the following exceptions.

1,1-Dichloroethane was detected at a concentration greater than the reporting limit (RL) in sample MW-6 and not detected above the limit of detection (LOD) in the field duplicate, MW-6 DUP, resulting in a non-calculable RPD. Therefore, based on professional and technical judgement, the concentration of 1,1-dichloroethane in sample MW-6 was J qualified as estimated and the non-detect result in the field duplicate was UJ qualified as estimated less than the LOD.

Sample ID	Compound	Laboratory Result (µg/L)	Laboratory Flag	RPD	Validation Result (µg/L)	Validation Qualifier*	Reason Code**
MW-6	1,1-Dichloroethane	4.33	NA	NC	4.33	J	7
MW-6 DUP	1,1-Dichloroethane	2.00	U		2.00	UJ	7

µg/L-micrograms per liter

U-not detected at a concentration greater than or equal to the LOD

NA-not applicable

NC-non-calculable

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.10 Sensitivity

The samples were assessed to the MDLs; however, the non-detects were reported as not detected at the LODs. Elevated non-detect results were not reported.

1.11 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The internal standard recoveries for the 1,4-dioxane analyses were included in the EDD but were not included in the level II report. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs per US EPA Methods 3510B/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine the impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for the data set is 100%.

2.2 Holding Times

The holding times for the SVOC analysis of water samples are seven days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches B1A0659 and B1A0681). SVOCs were not detected in the method blanks above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two sample set specific MS/MSD pairs were reported, using samples MW-12 and MW-9. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exception.

The RPD result for benzoic acid in the MS/MSD pair using sample MW-12 was high and outside the laboratory specified acceptance criteria. Since benzoic acid was not detected in sample MW-12, no qualifications were applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

The surrogate recoveries were within the laboratory specified acceptance criteria.

2.7 Equipment Blank

One equipment blank was collected with the sample set, EB-1. The equipment blank was not analyzed for SVOCs.

2.8 Field Duplicate

Two field duplicate samples, MW-6 DUP and PZ-1 DUP were collected with the sample set. Acceptable precision (RPD<30%) was demonstrated between the field duplicates and the original samples, MW-6 and PZ-1, respectively, with the following exceptions.

Benzo(a)anthracene and chrysene were not detected in sample PZ-1 and were detected at estimated concentrations greater than the MDLs and less than the RLs in the field duplicate PZ-1 DUP, resulting in non-calculable RPDs. However, since the non-detect benzo(a)anthracene and chrysene results in PZ-1 were reported as not detected at the LOD and based on professional and technical judgement, no qualifications were applied to the benzo(a)anthracene and chrysene data in the field duplicate pair.

2.9 Sensitivity

The samples were assessed to the MDLs; however, the non-detects were reported as not detected at the LODs. Elevated non-detect results were not reported.

2.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs per US EPA Methods 3510/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Assessment of Total vs. Dissolved PCBs
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this package are considered to be usable for supporting project objectives. The results are considered to be valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for the project is 100%.

3.2 Holding Times

The holding times for the PCB analysis of a water sample are one year from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches B1A0660, B1A0750 and B1A0753). PCBs were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two sample set specific MS/MSD pairs were reported for total PCBs, using samples MW-12 and MW-9. One sample set specific MS/MSD pair was reported for dissolved PCBs, using sample MW-9 Filtered. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Surrogates

The surrogate recoveries were within the laboratory specified acceptance criteria.

3.7 Equipment Blank

One equipment blank was collected with the sample set, EB-1. The equipment blank was not analyzed for PCBs.

3.8 Field Duplicate

Two field duplicate samples, MW-6 DUP and PZ-1 DUP were collected with the sample set. Acceptable precision (RPD<30%) was demonstrated between the field duplicates and the original samples, MW-6 and PZ-1, respectively.

3.9 Assessment of Total vs. Dissolved PCB

The samples were analyzed for both total and dissolved PCBs. The concentrations of total PCBs were greater than or equal to the concentrations of dissolved PCBs in the samples.

3.10 Sensitivity

The samples were assessed to the MDLs; however, the non-detects were reported as not detected at the LODs. Elevated non-detect results were not reported.

3.11 Electronic Data Deliverable Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

4.0 TOTAL ORGANIC CARBON

The samples were analyzed for TOC by US EPA method 9060.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The TOC data reported in this package are considered usable for supporting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid

analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for the sample set is 100%.

4.2 Holding Times

The holding time for the TOC analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Eight method blanks were reported in batch B1A0740 and six method blanks were reported in batch B1B0049. TOC was not detected in the method blanks above the MDL, with the following exceptions.

TOC was detected in the method blanks B1A0740-BLK2, B1A0740-BLK4, B1B0049-BLK3, B1B0049-BLK4 and B1B0049-BLK6 at estimated concentrations greater than the MDL and less than the RL. Since TOC was detected at concentrations greater than the RL in the associated samples, no qualifications were applied to the data.

4.4 Matrix Spike/Matrix Spike Duplicate

Two sample set specific MS/MSD pairs were reported, both using sample MW-9. The recovery and RPD results were within the laboratory specified acceptance criteria.

One batch MS/MSD pair was also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

4.5 Laboratory Duplicate

Laboratory duplicates were not reported with the sample set.

4.6 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

Two MRL standards were reported. The recovery results were within the laboratory specified acceptance criteria.

4.7 Equipment Blank

One equipment blank was collected with the sample set, EB-1. The equipment blank was not analyzed for TOC.

4.8 Field Duplicate

Two field duplicate samples, MW-6 DUP and PZ-1 DUP were collected with the sample set. Acceptable precision (RPD<30%) was demonstrated between the field duplicates and the original samples, MW-6 and PZ-1, respectively.

4.9 Sensitivity

The samples were assessed to the MDL; however, the non-detects were reported as not detected at the LOD. Elevated non-detect results were not reported.

4.10 Electronic Data Deliverable Review

Results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

APPENDIX 5

Soil Gas Probe Construction Forms
Probe Screen Interval Soil Sample Laboratory
Reports
Data Validation Reports

Supplemental Site Investigation Report
Milwaukee Die Casting Company Site
4132 North Holton Street
Milwaukee, Wisconsin
WDNR BRRS # 02-41-000023
WDNR FID # 241228240


Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company			License/Permit/Monitoring No.		Boring Number SG-1
Boring Drilled By (First and Last Name, Firm) --			Drilling Start Date 09/30/2020	Drilling End Date 09/30/2020	Drilling Method Hand Auger
WI Unique Well No.	DNR Well ID No.	Well Name --	Final Static WL Feet MSL	Surface Elevation 650.86 Feet MSL	Borehole Diameter inches
Local Grid Origin <input checked="" type="checkbox"/> State Plane 15654173.78 N, 1398875.46 E SW 1/4 of SW 1/4 of Section 4, T 7 N, R 22 E			Boring Location <input type="checkbox"/> Lat -- Long --		Local Grid Location ____ Feet <input type="checkbox"/> N ____ Feet <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W
Facility ID 241228240		County Milwaukee	County Code 41	Civil Town/City/Village Milwaukee	

SAMPLE					Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type	Length Attempt	Recovery (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD	
GR		84/84			0	(0') Brown CLAY TOPSOIL (TOPSOIL); moist, medium plasticity, few gravel sand and silt (FILL).	FILL										
						(2') Grades to little sand.											
						(3') Tan SAND (SP); moist, poorly graded, fine to medium grained with few gravel, silt, and clay, and trace cobbles greater than 2 inches (FILL).	FILL										
					5	(5.5') Tan SAND (SP); moist, poorly graded, medium to coarse grained with trace gravel, and trace cobbles greater than 2 inches (FILL).	FILL			0.0							Soil sample at 6.5-7 feet bgs


(7') Boring terminated.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm Geosyntec Consultants, Inc.
--------------------------------------------------------------------------------------------------	--------------------------------------------


Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company			License/Permit/Monitoring No.		Boring Number SG-2	
Boring Drilled By (First and Last Name, Firm) --			Drilling Start Date 09/14/2020		Drilling End Date 09/14/2020	
WI Unique Well No.		DNR Well ID No.	Well Name --	Final Static WL Feet MSL		Surface Elevation 650.67 Feet MSL
Local Grid Origin <input checked="" type="checkbox"/> State Plane 15654210.22 N, 1398873.57 E SW 1/4 of SW 1/4 of Section 4, T 7 N, R 22 E			Boring Location <input type="checkbox"/> Lat -- Long --		Local Grid Location ____ Feet <input type="checkbox"/> N ____ Feet <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W	
Facility ID 241228240		County Milwaukee		County Code 41		Civil Town/City/Village Milwaukee

SAMPLE				Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments	
Sample ID	Sample Type	Length Attempt	Recovery (in)							Blow Counts	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		N Value RQD
GR	84/84				0	(0') Brown CLAY (CL); moist, few cobbles and gravel (FILL).	FILL										
						(0.5') Brown CLAY and DEBRIS (FILL).	FILL										
						(1') Yellowish-brown, SILTY SAND with GRAVEL (SM); few cobbles (FILL).	FILL										
					5												
Soil sample at 6.5-7 feet bgs																	

(7') Boring terminated.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm Geosyntec Consultants, Inc.
--------------------------------------------------------------------------------------------------	--------------------------------------------


Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company			License/Permit/Monitoring No.		Boring Number SG-3
Boring Drilled By (First and Last Name, Firm) --			Drilling Start Date 09/14/2020	Drilling End Date 09/14/2020	Drilling Method Hand Auger
WI Unique Well No.	DNR Well ID No.	Well Name --	Final Static WL Feet MSL	Surface Elevation 650.75 Feet MSL	Borehole Diameter inches
Local Grid Origin <input checked="" type="checkbox"/> State Plane 15654228.16 N, 1398873.23 E SW 1/4 of SW 1/4 of Section 4, T 7 N, R 22 E			Boring Location <input type="checkbox"/> Lat -- Long --		Local Grid Location ____ Feet <input type="checkbox"/> N ____ Feet <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W
Facility ID 241228240		County Milwaukee	County Code 41	Civil Town/City/Village Milwaukee	

SAMPLE				Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD	
GR	84/84			0	(0') Brown CLAY (CL); moist, few gravel (FILL).	FILL										
					(2') Light brown, SILTY SAND (SM); moist, trace cobbles, trace debris (slag and wire) (FILL).	FILL										
				5	(6') Brown and gray CLAY (CL); with debris (FILL).	FILL									Soil sample at 6.5-7 feet bgs	


(7') Boring terminated.

I hereby certify that the information on this form is true and correct to the best of my knowledge.


Signature 	Firm Geosyntec Consultants, Inc.
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company			License/Permit/Monitoring No.		Boring Number SG-5	
Boring Drilled By (First and Last Name, Firm) --			Drilling Start Date 09/30/2020		Drilling End Date 09/30/2020	
WI Unique Well No.		DNR Well ID No.	Well Name --	Final Static WL Feet MSL		Surface Elevation 638.73 Feet MSL
Local Grid Origin <input checked="" type="checkbox"/> State Plane 15654455.99 N, 1399238.19 E SW 1/4 of SW 1/4 of Section 4, T 7 N, R 22 E			Boring Location <input type="checkbox"/> Lat -- Long --		Local Grid Location ____ Feet <input type="checkbox"/> N ____ Feet <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W	
Facility ID 241228240		County Milwaukee		County Code 41		Civil Town/City/Village Milwaukee

SAMPLE				Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type	Length Attempt	Recovery (in)							Blow Counts	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
GR		60/60			0	(0') Brown CLAY (CL); moist, medium plasticity, trace gravel and silt (FILL).	FILL									
						(3') Grades to few gravel with trace cobbles.										
						(4') GRAVEL (GP); coarse gravel (0.5-1 inch) (FILL).	FILL									
						(4.5') Brown CLAY (CL); moist, medium plasticity, trace gravel (FILL).	FILL									Soil sample at 4.5-5 feet bgs
					5	(5') Boring terminated - refusal.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm Geosyntec Consultants, Inc.
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This form is authorized by Chapters 281, 283, 289, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.


Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company			License/Permit/Monitoring No.		Boring Number SG-6
Boring Drilled By (First and Last Name, Firm) --			Drilling Start Date 09/30/2020	Drilling End Date 09/30/2020	Drilling Method Hand Auger
WI Unique Well No.	DNR Well ID No.	Well Name --	Final Static WL Feet MSL	Surface Elevation 639.35 Feet MSL	Borehole Diameter inches
Local Grid Origin <input checked="" type="checkbox"/> State Plane 15654298.40 N, 1399235.59 E SW 1/4 of SW 1/4 of Section 4, T 7 N, R 22 E			Boring Location <input type="checkbox"/> Lat -- Long --		Local Grid Location -- Feet <input type="checkbox"/> N -- Feet <input type="checkbox"/> E -- Feet <input type="checkbox"/> S -- Feet <input type="checkbox"/> W
Facility ID 241228240		County Milwaukee	County Code 41	Civil Town/City/Village Milwaukee	

SAMPLE				Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type	Length Attempt	Recovery (in)							Blow Counts	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
GR		60/60			(0') Brown CLAY (CL); moist, medium plasticity, trace cobbles (FILL).	FILL										Soil sample at 1.5-1 feet bgs

(5') Boring terminated.



I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm Geosyntec Consultants, Inc.
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This form is authorized by Chapters 281, 283, 289, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Milwaukee Die Casting Company			License/Permit/Monitoring No.		Boring Number SG-7	
Boring Drilled By (First and Last Name, Firm) --			Drilling Start Date 09/30/2020		Drilling End Date 09/30/2020	
WI Unique Well No.		DNR Well ID No.	Well Name --	Final Static WL Feet MSL		Surface Elevation 640.17 Feet MSL
Local Grid Origin <input checked="" type="checkbox"/> State Plane 15654186.45 N, 1399231.85 E SW 1/4 of SW 1/4 of Section 4, T 7 N, R 22 E			Boring Location <input type="checkbox"/> Lat -- Long --		Local Grid Location ____ Feet <input type="checkbox"/> N ____ Feet <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W	
Facility ID 241228240		County Milwaukee		County Code 41		Civil Town/City/Village Milwaukee

SAMPLE					Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments	
Sample ID	Sample Type	Length Attempt	Recovery (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD		
GR		60/60			0	(0') Brown CLAY (CL); moist, medium plasticity, trace gravel (FILL).	FILL											
						(3') Brown CLAY with SAND (CL); moist, some fine sand and trace gravel (FILL).	FILL											Soil sample at 1.5-1 feet bgs
					5	(5') Boring terminated.												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm Geosyntec Consultants, Inc.
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Analytical Report

Jeremiah Johnson
Geosyntec Consultants
10600 N. Port Washington Rd.
Mequon, WI 53092

September 22, 2020

Work Order: 20I0549

RE: Milw Die Cast

Dear Jeremiah Johnson:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,



Tim Witrzek For Nicole Ryan
Federal Project Manager
847.967.6666
nryan@emt.com

Approved for release: 9/21/2020 1:10:53PM

Approved by,



Gerald L. Bagnowski Jr.
Laboratory Special Projects Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Wisconsin Dept of Natural Resources, Cert No. 999888890

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Sample Summary

<u>Sample ID</u>	<u>Laboratory ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SG-2(6.5-7)	20I0549-01	Soil	09/14/20 13:30	09/16/20 15:30
SG-3(6.5-7)	20I0549-02	Soil	09/14/20 14:00	09/16/20 15:30
Methanol Blank	20I0549-03	Soil	09/14/20 00:00	09/16/20 15:30

Case Narrative

Client: Geosyntec Consultants

Date: 05/07/2021

Project: Milw Die Cast

Work Order: 20I0549

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 20I0549

The samples were received on 09/16/20 15:30. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was:

<u>Cooler</u>	<u>Temp C°</u>
Default Cooler	2.1

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Client Sample Results

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 20I0549

Client Sample ID: SG-2(6.5-7)
Report Date: 05/07/2021
Collection Date: 09/14/2020 13:30
Matrix: Soil
Lab ID: 20I0549-01

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	81.3	0.100		% (Percent)	0.0240	09/17/20 17:33	B0I0536	GSB	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5035										
1,1,1,2-Tetrachloroethane	< 0.535	1.07		ug/Kg dry	0.217	09/16/20 22:14	B0I0525	KS1	1	
1,1,1-Trichloroethane	< 0.535	1.07		ug/Kg dry	0.219	09/16/20 22:14	B0I0525	KS1	1	
1,1,2,2-Tetrachloroethane	< 0.535	1.07		ug/Kg dry	0.191	09/16/20 22:14	B0I0525	KS1	1	
1,1,2-Trichloroethane	< 0.535	1.07		ug/Kg dry	0.235	09/16/20 22:14	B0I0525	KS1	1	
1,1-Dichloroethane	< 1.07	2.14		ug/Kg dry	0.291	09/16/20 22:14	B0I0525	KS1	1	
1,1-Dichloroethene	< 0.535	1.07		ug/Kg dry	0.232	09/16/20 22:14	B0I0525	KS1	1	
1,1-Dichloropropene	< 1.07	2.14		ug/Kg dry	0.303	09/16/20 22:14	B0I0525	KS1	1	
1,2,3-Trichlorobenzene	< 2.14	4.28		ug/Kg dry	0.626	09/16/20 22:14	B0I0525	KS1	1	
1,2,3-Trichloropropane	< 1.07	2.14		ug/Kg dry	0.262	09/16/20 22:14	B0I0525	KS1	1	
1,2,4-Trichlorobenzene	< 2.14	4.28		ug/Kg dry	0.573	09/16/20 22:14	B0I0525	KS1	1	
1,2,4-Trimethylbenzene	< 2.14	4.28		ug/Kg dry	0.577	09/16/20 22:14	B0I0525	KS1	1	
1,2-Dibromo-3-chloropropane	< 2.14	4.28		ug/Kg dry	0.888	09/16/20 22:14	B0I0525	KS1	1	
1,2-Dibromoethane	< 0.535	1.07		ug/Kg dry	0.146	09/16/20 22:14	B0I0525	KS1	1	
1,2-Dichloroethane	< 0.535	1.07		ug/Kg dry	0.220	09/16/20 22:14	B0I0525	KS1	1	
1,2-Dichloropropane	< 0.535	1.07		ug/Kg dry	0.259	09/16/20 22:14	B0I0525	KS1	1	
1,3,5-Trimethylbenzene	< 1.07	2.14		ug/Kg dry	0.535	09/16/20 22:14	B0I0525	KS1	1	
1,3-Dichloropropane	< 0.535	1.07		ug/Kg dry	0.240	09/16/20 22:14	B0I0525	KS1	1	
2,2-Dichloropropane	< 0.535	1.07		ug/Kg dry	0.177	09/16/20 22:14	B0I0525	KS1	1	
2-Butanone	< 7.50	15.0		ug/Kg dry	3.65	09/16/20 22:14	B0I0525	KS1	1	
2-Chlorotoluene	< 1.07	2.14		ug/Kg dry	0.469	09/16/20 22:14	B0I0525	KS1	1	
2-Hexanone	< 7.50	15.0		ug/Kg dry	2.84	09/16/20 22:14	B0I0525	KS1	1	
4-Chlorotoluene	< 1.07	2.14		ug/Kg dry	0.469	09/16/20 22:14	B0I0525	KS1	1	
4-Isopropyltoluene	< 2.14	4.28		ug/Kg dry	0.627	09/16/20 22:14	B0I0525	KS1	1	
4-Methyl-2-pentanone	< 7.50	15.0		ug/Kg dry	2.18	09/16/20 22:14	B0I0525	KS1	1	
Acetone	< 15.0	37.5		ug/Kg dry	6.48	09/16/20 22:14	B0I0525	KS1	1	
Benzene	< 0.535	1.07		ug/Kg dry	0.154	09/16/20 22:14	B0I0525	KS1	1	
Bromobenzene	< 1.07	2.14		ug/Kg dry	0.301	09/16/20 22:14	B0I0525	KS1	1	
Bromochloromethane	< 1.07	2.14		ug/Kg dry	0.376	09/16/20 22:14	B0I0525	KS1	1	
Bromodichloromethane	< 0.535	1.07		ug/Kg dry	0.258	09/16/20 22:14	B0I0525	KS1	1	
Bromoform	< 1.07	2.14		ug/Kg dry	0.337	09/16/20 22:14	B0I0525	KS1	1	
Bromomethane	< 4.28	10.7		ug/Kg dry	1.29	09/16/20 22:14	B0I0525	KS1	1	
Carbon disulfide	< 1.07	2.14		ug/Kg dry	0.322	09/16/20 22:14	B0I0525	KS1	1	
Carbon tetrachloride	< 0.321	1.07	Q, S1	ug/Kg dry	0.121	09/16/20 22:14	B0I0525	KS1	1	
Chlorobenzene	< 0.535	1.07		ug/Kg dry	0.139	09/16/20 22:14	B0I0525	KS1	1	
Chloroethane	< 2.14	4.28		ug/Kg dry	0.757	09/16/20 22:14	B0I0525	KS1	1	
Chloroform	< 1.07	2.14		ug/Kg dry	0.392	09/16/20 22:14	B0I0525	KS1	1	
Chloromethane	< 2.14	4.28		ug/Kg dry	0.782	09/16/20 22:14	B0I0525	KS1	1	
cis-1,2-Dichloroethene	< 1.07	2.14		ug/Kg dry	0.305	09/16/20 22:14	B0I0525	KS1	1	
cis-1,3-Dichloropropene	< 1.07	2.14		ug/Kg dry	0.370	09/16/20 22:14	B0I0525	KS1	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 20I0549

Client Sample ID: SG-2(6.5-7)
Report Date: 05/07/2021
Collection Date: 09/14/2020 13:30
Matrix: Soil
Lab ID: 20I0549-01 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5035 (Continued)										
Dibromochloromethane	< 0.535	1.07		ug/Kg dry	0.255	09/16/20 22:14	B0I0525	KS1	1	
Dibromomethane	< 0.535	1.07	Q, S1	ug/Kg dry	0.196	09/16/20 22:14	B0I0525	KS1	1	
Dichlorodifluoromethane	< 0.535	1.07		ug/Kg dry	0.198	09/16/20 22:14	B0I0525	KS1	1	
Ethylbenzene	< 2.14	4.28		ug/Kg dry	0.554	09/16/20 22:14	B0I0525	KS1	1	
Isopropylbenzene	< 1.07	2.14		ug/Kg dry	0.532	09/16/20 22:14	B0I0525	KS1	1	
m,p-Xylene	< 2.14	4.28		ug/Kg dry	0.866	09/16/20 22:14	B0I0525	KS1	1	
Methyl tert-butyl ether	< 0.535	1.07		ug/Kg dry	0.179	09/16/20 22:14	B0I0525	KS1	1	
Methylene chloride	< 2.14	4.28		ug/Kg dry	0.902	09/16/20 22:14	B0I0525	KS1	1	
n-Butylbenzene	< 1.07	2.14		ug/Kg dry	0.519	09/16/20 22:14	B0I0525	KS1	1	
n-Propylbenzene	< 1.07	2.14		ug/Kg dry	0.512	09/16/20 22:14	B0I0525	KS1	1	
o-Xylene	< 2.14	4.28		ug/Kg dry	0.547	09/16/20 22:14	B0I0525	KS1	1	
sec-Butylbenzene	< 1.07	2.14		ug/Kg dry	0.526	09/16/20 22:14	B0I0525	KS1	1	
Styrene	< 2.14	4.28		ug/Kg dry	0.587	09/16/20 22:14	B0I0525	KS1	1	
tert-Butylbenzene	< 2.14	4.28		ug/Kg dry	0.627	09/16/20 22:14	B0I0525	KS1	1	
Tetrachloroethene	< 1.07	2.14		ug/Kg dry	0.313	09/16/20 22:14	B0I0525	KS1	1	
Toluene	1.17	1.07		ug/Kg dry	0.194	09/16/20 22:14	B0I0525	KS1	1	
trans-1,2-Dichloroethene	< 1.07	2.14		ug/Kg dry	0.496	09/16/20 22:14	B0I0525	KS1	1	
trans-1,3-Dichloropropene	< 1.07	2.14		ug/Kg dry	0.438	09/16/20 22:14	B0I0525	KS1	1	
Trichloroethene	< 0.535	1.07		ug/Kg dry	0.260	09/16/20 22:14	B0I0525	KS1	1	
Trichlorofluoromethane	< 0.535	1.07		ug/Kg dry	0.222	09/16/20 22:14	B0I0525	KS1	1	
Vinyl chloride	< 1.07	2.14		ug/Kg dry	0.383	09/16/20 22:14	B0I0525	KS1	1	
Xylenes, Total	< 3.21	6.43		ug/Kg dry	1.37	09/16/20 22:14	B0I0525	KS1	1	
1,3-Dichloropropene, Total	< 2.14	4.28		ug/Kg dry	0.794	09/16/20 22:14	B0I0525	KS1	1	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 94%</i>	<i>Limits: 86-150</i>	<i>09/16/20 22:14</i>	<i>B0I0525</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 124%</i>	<i>Limits: 89-150</i>	<i>09/16/20 22:14</i>	<i>B0I0525</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 92%</i>	<i>Limits: 88-111</i>	<i>09/16/20 22:14</i>	<i>B0I0525</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 93%</i>	<i>Limits: 66-113</i>	<i>09/16/20 22:14</i>	<i>B0I0525</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 109%</i>	<i>Limits: 82-137</i>	<i>09/16/20 22:14</i>	<i>B0I0525</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 109%</i>	<i>Limits: 77-142</i>	<i>09/16/20 22:14</i>	<i>B0I0525</i>	<i>KS1</i>	<i>1</i>	

Client Sample Results

(Continued)

Client: Geosyntec Consultants**Project:** Milw Die Cast**Work Order:** 20I0549**Client Sample ID:** SG-3(6.5-7)**Report Date:** 05/07/2021**Collection Date:** 09/14/2020 14:00**Matrix:** Soil**Lab ID:** 20I0549-02

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	85.9	0.100		% (Percent)	0.0240	09/17/20 17:35	B0I0536	GSB	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5035										
1,1,1,2-Tetrachloroethane	< 0.516	1.03		ug/Kg dry	0.209	09/16/20 22:38	B0I0525	KS1	1	
1,1,1-Trichloroethane	< 0.516	1.03		ug/Kg dry	0.211	09/16/20 22:38	B0I0525	KS1	1	
1,1,2,2-Tetrachloroethane	< 0.516	1.03		ug/Kg dry	0.184	09/16/20 22:38	B0I0525	KS1	1	
1,1,2-Trichloroethane	< 0.516	1.03		ug/Kg dry	0.226	09/16/20 22:38	B0I0525	KS1	1	
1,1-Dichloroethane	< 1.03	2.06		ug/Kg dry	0.280	09/16/20 22:38	B0I0525	KS1	1	
1,1-Dichloroethene	< 0.516	1.03		ug/Kg dry	0.224	09/16/20 22:38	B0I0525	KS1	1	
1,1-Dichloropropene	< 1.03	2.06		ug/Kg dry	0.292	09/16/20 22:38	B0I0525	KS1	1	
1,2,3-Trichlorobenzene	< 2.06	4.13		ug/Kg dry	0.604	09/16/20 22:38	B0I0525	KS1	1	
1,2,3-Trichloropropane	< 1.03	2.06		ug/Kg dry	0.252	09/16/20 22:38	B0I0525	KS1	1	
1,2,4-Trichlorobenzene	< 2.06	4.13		ug/Kg dry	0.552	09/16/20 22:38	B0I0525	KS1	1	
1,2,4-Trimethylbenzene	< 2.06	4.13		ug/Kg dry	0.556	09/16/20 22:38	B0I0525	KS1	1	
1,2-Dibromo-3-chloropropane	< 2.06	4.13		ug/Kg dry	0.856	09/16/20 22:38	B0I0525	KS1	1	
1,2-Dibromoethane	< 0.516	1.03		ug/Kg dry	0.140	09/16/20 22:38	B0I0525	KS1	1	
1,2-Dichloroethane	< 0.516	1.03		ug/Kg dry	0.212	09/16/20 22:38	B0I0525	KS1	1	
1,2-Dichloropropane	< 0.516	1.03		ug/Kg dry	0.249	09/16/20 22:38	B0I0525	KS1	1	
1,3,5-Trimethylbenzene	< 1.03	2.06		ug/Kg dry	0.515	09/16/20 22:38	B0I0525	KS1	1	
1,3-Dichloropropane	< 0.516	1.03		ug/Kg dry	0.231	09/16/20 22:38	B0I0525	KS1	1	
2,2-Dichloropropane	< 0.516	1.03		ug/Kg dry	0.171	09/16/20 22:38	B0I0525	KS1	1	
2-Butanone	< 7.22	14.4		ug/Kg dry	3.51	09/16/20 22:38	B0I0525	KS1	1	
2-Chlorotoluene	< 1.03	2.06		ug/Kg dry	0.452	09/16/20 22:38	B0I0525	KS1	1	
2-Hexanone	< 7.22	14.4		ug/Kg dry	2.74	09/16/20 22:38	B0I0525	KS1	1	
4-Chlorotoluene	< 1.03	2.06		ug/Kg dry	0.452	09/16/20 22:38	B0I0525	KS1	1	
4-Isopropyltoluene	< 2.06	4.13		ug/Kg dry	0.604	09/16/20 22:38	B0I0525	KS1	1	
4-Methyl-2-pentanone	< 7.22	14.4		ug/Kg dry	2.10	09/16/20 22:38	B0I0525	KS1	1	
Acetone	< 14.4	36.1		ug/Kg dry	6.24	09/16/20 22:38	B0I0525	KS1	1	
Benzene	1.31	1.03		ug/Kg dry	0.149	09/16/20 22:38	B0I0525	KS1	1	
Bromobenzene	< 1.03	2.06		ug/Kg dry	0.290	09/16/20 22:38	B0I0525	KS1	1	
Bromochloromethane	< 1.03	2.06		ug/Kg dry	0.362	09/16/20 22:38	B0I0525	KS1	1	
Bromodichloromethane	< 0.516	1.03		ug/Kg dry	0.248	09/16/20 22:38	B0I0525	KS1	1	
Bromoform	< 1.03	2.06		ug/Kg dry	0.325	09/16/20 22:38	B0I0525	KS1	1	
Bromomethane	< 4.13	10.3		ug/Kg dry	1.24	09/16/20 22:38	B0I0525	KS1	1	
Carbon disulfide	< 1.03	2.06		ug/Kg dry	0.311	09/16/20 22:38	B0I0525	KS1	1	
Carbon tetrachloride	< 0.310	1.03	Q, S1	ug/Kg dry	0.117	09/16/20 22:38	B0I0525	KS1	1	
Chlorobenzene	< 0.516	1.03		ug/Kg dry	0.134	09/16/20 22:38	B0I0525	KS1	1	
Chloroethane	< 2.06	4.13		ug/Kg dry	0.730	09/16/20 22:38	B0I0525	KS1	1	
Chloroform	< 1.03	2.06		ug/Kg dry	0.377	09/16/20 22:38	B0I0525	KS1	1	
Chloromethane	< 2.06	4.13		ug/Kg dry	0.753	09/16/20 22:38	B0I0525	KS1	1	
cis-1,2-Dichloroethene	< 1.03	2.06		ug/Kg dry	0.294	09/16/20 22:38	B0I0525	KS1	1	
cis-1,3-Dichloropropene	< 1.03	2.06		ug/Kg dry	0.357	09/16/20 22:38	B0I0525	KS1	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants**Project:** Milw Die Cast**Work Order:** 20I0549**Client Sample ID:** SG-3(6.5-7)**Report Date:** 05/07/2021**Collection Date:** 09/14/2020 14:00**Matrix:** Soil**Lab ID:** 20I0549-02 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5035 (Continued)										
Dibromochloromethane	< 0.516	1.03		ug/Kg dry	0.245	09/16/20 22:38	B0I0525	KS1	1	
Dibromomethane	< 0.516	1.03	Q, S1	ug/Kg dry	0.189	09/16/20 22:38	B0I0525	KS1	1	
Dichlorodifluoromethane	< 0.516	1.03		ug/Kg dry	0.191	09/16/20 22:38	B0I0525	KS1	1	
Ethylbenzene	< 2.06	4.13		ug/Kg dry	0.534	09/16/20 22:38	B0I0525	KS1	1	
Isopropylbenzene	< 1.03	2.06		ug/Kg dry	0.512	09/16/20 22:38	B0I0525	KS1	1	
m,p-Xylene	< 2.06	4.13		ug/Kg dry	0.835	09/16/20 22:38	B0I0525	KS1	1	
Methyl tert-butyl ether	< 0.516	1.03		ug/Kg dry	0.173	09/16/20 22:38	B0I0525	KS1	1	
Methylene chloride	< 2.06	4.13		ug/Kg dry	0.869	09/16/20 22:38	B0I0525	KS1	1	
n-Butylbenzene	< 1.03	2.06		ug/Kg dry	0.500	09/16/20 22:38	B0I0525	KS1	1	
n-Propylbenzene	< 1.03	2.06		ug/Kg dry	0.494	09/16/20 22:38	B0I0525	KS1	1	
o-Xylene	< 2.06	4.13		ug/Kg dry	0.527	09/16/20 22:38	B0I0525	KS1	1	
sec-Butylbenzene	< 1.03	2.06		ug/Kg dry	0.506	09/16/20 22:38	B0I0525	KS1	1	
Styrene	< 2.06	4.13		ug/Kg dry	0.566	09/16/20 22:38	B0I0525	KS1	1	
tert-Butylbenzene	< 2.06	4.13		ug/Kg dry	0.604	09/16/20 22:38	B0I0525	KS1	1	
Tetrachloroethene	< 1.03	2.06		ug/Kg dry	0.301	09/16/20 22:38	B0I0525	KS1	1	
Toluene	1.90	1.03		ug/Kg dry	0.186	09/16/20 22:38	B0I0525	KS1	1	
trans-1,2-Dichloroethene	< 1.03	2.06		ug/Kg dry	0.477	09/16/20 22:38	B0I0525	KS1	1	
trans-1,3-Dichloropropene	< 1.03	2.06		ug/Kg dry	0.422	09/16/20 22:38	B0I0525	KS1	1	
Trichloroethene	< 0.516	1.03		ug/Kg dry	0.250	09/16/20 22:38	B0I0525	KS1	1	
Trichlorofluoromethane	< 0.516	1.03		ug/Kg dry	0.214	09/16/20 22:38	B0I0525	KS1	1	
Vinyl chloride	< 1.03	2.06		ug/Kg dry	0.369	09/16/20 22:38	B0I0525	KS1	1	
Xylenes, Total	< 3.10	6.19		ug/Kg dry	1.32	09/16/20 22:38	B0I0525	KS1	1	
1,3-Dichloropropene, Total	< 2.06	4.13		ug/Kg dry	0.765	09/16/20 22:38	B0I0525	KS1	1	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 96%</i>	<i>Limits: 86-150</i>	<i>09/16/20 22:38</i>	<i>B0I0525</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 123%</i>	<i>Limits: 89-150</i>	<i>09/16/20 22:38</i>	<i>B0I0525</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 91%</i>	<i>Limits: 88-111</i>	<i>09/16/20 22:38</i>	<i>B0I0525</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 91%</i>	<i>Limits: 66-113</i>	<i>09/16/20 22:38</i>	<i>B0I0525</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 102%</i>	<i>Limits: 82-137</i>	<i>09/16/20 22:38</i>	<i>B0I0525</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 106%</i>	<i>Limits: 77-142</i>	<i>09/16/20 22:38</i>	<i>B0I0525</i>	<i>KS1</i>	<i>1</i>	

Client Sample Results

(Continued)

Client: Geosyntec Consultants**Project:** Milw Die Cast**Work Order:** 20I0549**Client Sample ID:** Methanol Blank**Report Date:** 05/07/2021**Collection Date:** 09/14/2020 00:00**Matrix:** Soil**Lab ID:** 20I0549-03

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5035										
1,1,1-Trichloroethane	< 100	200		ug/Kg wet	34.1	09/16/20 21:49	B0I0525	KS1	50	
1,1,2,2-Tetrachloroethane	< 50.0	100		ug/Kg wet	17.3	09/16/20 21:49	B0I0525	KS1	50	
1,1,2-Trichloroethane	< 50.0	100		ug/Kg wet	18.2	09/16/20 21:49	B0I0525	KS1	50	
1,1-Dichloroethane	< 100	200		ug/Kg wet	29.3	09/16/20 21:49	B0I0525	KS1	50	
1,1-Dichloroethene	< 100	200		ug/Kg wet	27.5	09/16/20 21:49	B0I0525	KS1	50	
1,2-Dibromo-3-chloropropane	< 100	200		ug/Kg wet	45.5	09/16/20 21:49	B0I0525	KS1	50	
1,2-Dibromoethane	< 100	200		ug/Kg wet	31.5	09/16/20 21:49	B0I0525	KS1	50	
1,2-Dichloroethane	< 100	200		ug/Kg wet	25.6	09/16/20 21:49	B0I0525	KS1	50	
1,2-Dichloropropane	< 100	200		ug/Kg wet	26.0	09/16/20 21:49	B0I0525	KS1	50	
1-Butanol	< 2000	4000		ug/Kg wet	957	09/16/20 21:49	B0I0525	KS1	50	
2-Butanone	< 700	1400		ug/Kg wet	273	09/16/20 21:49	B0I0525	KS1	50	
2-Hexanone	< 700	1400		ug/Kg wet	193	09/16/20 21:49	B0I0525	KS1	50	
4-Methyl-2-pentanone	< 350	700		ug/Kg wet	122	09/16/20 21:49	B0I0525	KS1	50	
Acetone	< 1400	3500		ug/Kg wet	634	09/16/20 21:49	B0I0525	KS1	50	
Acrolein	< 1000	2000	Q, S1	ug/Kg wet	467	09/16/20 21:49	B0I0525	KS1	50	
Acrylonitrile	< 200	400		ug/Kg wet	85.3	09/16/20 21:49	B0I0525	KS1	50	
Benzene	< 50.0	100		ug/Kg wet	17.1	09/16/20 21:49	B0I0525	KS1	50	
Bromodichloromethane	< 50.0	100		ug/Kg wet	13.8	09/16/20 21:49	B0I0525	KS1	50	
Bromoform	< 50.0	100		ug/Kg wet	16.7	09/16/20 21:49	B0I0525	KS1	50	
Bromomethane	< 400	800		ug/Kg wet	106	09/16/20 21:49	B0I0525	KS1	50	
Carbon disulfide	< 100	200		ug/Kg wet	36.6	09/16/20 21:49	B0I0525	KS1	50	
Carbon tetrachloride	< 100	200	Q, S1	ug/Kg wet	35.0	09/16/20 21:49	B0I0525	KS1	50	
Chlorobenzene	< 50.0	100		ug/Kg wet	16.2	09/16/20 21:49	B0I0525	KS1	50	
Chloroethane	< 200	400		ug/Kg wet	92.6	09/16/20 21:49	B0I0525	KS1	50	
Chloroform	< 200	400		ug/Kg wet	51.3	09/16/20 21:49	B0I0525	KS1	50	
Chloromethane	< 200	400		ug/Kg wet	93.8	09/16/20 21:49	B0I0525	KS1	50	
cis-1,2-Dichloroethene	< 100	200		ug/Kg wet	25.4	09/16/20 21:49	B0I0525	KS1	50	
cis-1,3-Dichloropropene	< 100	200		ug/Kg wet	27.7	09/16/20 21:49	B0I0525	KS1	50	
Dibromochloromethane	< 50.0	100		ug/Kg wet	22.1	09/16/20 21:49	B0I0525	KS1	50	
Ethylbenzene	< 100	200		ug/Kg wet	40.7	09/16/20 21:49	B0I0525	KS1	50	
Isopropylbenzene	< 100	200		ug/Kg wet	37.5	09/16/20 21:49	B0I0525	KS1	50	
m,p-Xylene	< 200	400		ug/Kg wet	74.1	09/16/20 21:49	B0I0525	KS1	50	
Methyl tert-butyl ether	< 50.0	100		ug/Kg wet	16.5	09/16/20 21:49	B0I0525	KS1	50	
Methylene chloride	< 400	800		ug/Kg wet	173	09/16/20 21:49	B0I0525	KS1	50	
o-Xylene	< 100	200		ug/Kg wet	40.8	09/16/20 21:49	B0I0525	KS1	50	
Styrene	< 200	400		ug/Kg wet	63.3	09/16/20 21:49	B0I0525	KS1	50	
Tetrachloroethene	< 100	200		ug/Kg wet	48.2	09/16/20 21:49	B0I0525	KS1	50	
Toluene	< 50.0	100		ug/Kg wet	15.8	09/16/20 21:49	B0I0525	KS1	50	
trans-1,2-Dichloroethene	< 100	200		ug/Kg wet	48.7	09/16/20 21:49	B0I0525	KS1	50	
trans-1,3-Dichloropropene	< 100	200		ug/Kg wet	36.6	09/16/20 21:49	B0I0525	KS1	50	
Trichloroethene	< 100	200		ug/Kg wet	28.3	09/16/20 21:49	B0I0525	KS1	50	
Vinyl acetate	< 100	200		ug/Kg wet	33.9	09/16/20 21:49	B0I0525	KS1	50	
Vinyl chloride	< 100	200		ug/Kg wet	37.8	09/16/20 21:49	B0I0525	KS1	50	

Client Sample Results

(Continued)

Client: Geosyntec Consultants**Project:** Milw Die Cast**Work Order:** 20I0549**Client Sample ID:** Methanol Blank**Report Date:** 05/07/2021**Collection Date:** 09/14/2020 00:00**Matrix:** Soil**Lab ID:** 20I0549-03 (Continued)

Analyses	EMT Reporting			MDL	Date/Time Analyzed	Batch	Analyst	DF
	Result	Limit	Qual Units					
Volatile Organic Compounds by GC/MS (Continued)								
Method: SW8260B / SW5035 (Continued)								
Xylenes, Total	< 300	600	ug/Kg wet	112	09/16/20 21:49	B0I0525	KS1	50
1,3-Dichloropropene, Total	< 200	400	ug/Kg wet	61.6	09/16/20 21:49	B0I0525	KS1	50
<i>Surrogate: Dibromofluoromethane</i>			<i>Recovery: 93%</i>	<i>Limits: 84-150</i>	<i>09/16/20 21:49</i>	<i>B0I0525</i>	<i>KS1</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>			<i>Recovery: 106%</i>	<i>Limits: 72-150</i>	<i>09/16/20 21:49</i>	<i>B0I0525</i>	<i>KS1</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>			<i>Recovery: 93%</i>	<i>Limits: 87-109</i>	<i>09/16/20 21:49</i>	<i>B0I0525</i>	<i>KS1</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>			<i>Recovery: 90%</i>	<i>Limits: 72-107</i>	<i>09/16/20 21:49</i>	<i>B0I0525</i>	<i>KS1</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>			<i>Recovery: 93%</i>	<i>Limits: 80-126</i>	<i>09/16/20 21:49</i>	<i>B0I0525</i>	<i>KS1</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>			<i>Recovery: 105%</i>	<i>Limits: 84-138</i>	<i>09/16/20 21:49</i>	<i>B0I0525</i>	<i>KS1</i>	<i>1</i>

Dates Report

Client: Geosyntec Consultants

Report Date: 05/07/2021

Project: Milw Die Cast

Work Order: 2010549

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
2010549-01	SG-2(6.5-7)	09/14/20	Soil	Volatile Organic Compounds by GC/MS		09/16/20 17:00	09/16/20 22:14	B010525	S010232
				Total Solids / Percent Moisture		09/17/20 14:00	09/17/20 17:33	B010536	
2010549-02	SG-3(6.5-7)	09/14/20		Volatile Organic Compounds by GC/MS		09/16/20 17:00	09/16/20 22:38	B010525	S010232
				Total Solids / Percent Moisture		09/17/20 14:00	09/17/20 17:35	B010536	
2010549-03	Methanol Blank	09/14/20		Volatile Organic Compounds by GC/MS		09/16/20 17:00	09/16/20 21:49	B010525	S010232

Quality Control

Client: Geosyntec DoD
Project: Milw Die Cast

Report Date: 05/07/2021
Matrix: Solid

Work Order: 20I0549

Wet Chemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0I0536

Blank (B0I0536-BLK1)

Prepared: 09/17/2020 14:00 Analyzed: 09/17/2020 17:43

Total Solids	<0.0500	0.100	%								1
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LCS (B0I0536-BS1)

Prepared: 09/17/2020 14:00 Analyzed: 09/17/2020 17:45

Total Solids	0.201	0.100	%	0.2042		98.2	84.9-98.8				1
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Duplicate (B0I0536-DUP1)

Source: 20I0556-05

Prepared: 09/17/2020 14:00 Analyzed: 09/17/2020 17:47

Total Solids	86.6	0.100	%		86.1			0.573	5		1
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Quality Control

(Continued)

Client: Geosyntec DoD**Report Date:** 05/07/2021**Project:** Milw Die Cast**Matrix:** Solid**Work Order:** 20I0549**Volatile Organic Compounds by GC/MS**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0I0525 - SW5035**Blank (B0I0525-BLK1)**

Prepared: 09/16/2020 17:00 Analyzed: 09/16/2020 21:24

1,1,1,2-Tetrachloroethane	<1.00	2.00	ug/Kg wet								1
1,1,1-Trichloroethane	<1.00	2.00	ug/Kg wet								1
1,1,1-Trichloroethane	<2.00	4.00	ug/Kg wet								1
1,1,2,2-Tetrachloroethane	<1.00	2.00	ug/Kg wet								1
1,1,2,2-Tetrachloroethane	<1.00	2.00	ug/Kg wet								1
1,1,2-Trichloroethane	<1.00	2.00	ug/Kg wet								1
1,1,2-Trichloroethane	<1.00	2.00	ug/Kg wet								1
1,1-Dichloroethane	<2.00	4.00	ug/Kg wet								1
1,1-Dichloroethane	<2.00	4.00	ug/Kg wet								1
1,1-Dichloroethene	<1.00	2.00	ug/Kg wet								1
1,1-Dichloroethene	<2.00	4.00	ug/Kg wet								1
1,1-Dichloropropene	<2.00	4.00	ug/Kg wet								1
1,2,3-Trichlorobenzene	<4.00	8.00	ug/Kg wet								1
1,2,3-Trichloropropane	<2.00	4.00	ug/Kg wet								1
1,2,4-Trichlorobenzene	<4.00	8.00	ug/Kg wet								1
1,2,4-Trimethylbenzene	<4.00	8.00	ug/Kg wet								1
1,2-Dibromo-3-chloropropane	<2.00	4.00	ug/Kg wet								1
1,2-Dibromo-3-chloropropane	<4.00	8.00	ug/Kg wet								1
1,2-Dibromoethane	<1.00	2.00	ug/Kg wet								1
1,2-Dibromoethane	<2.00	4.00	ug/Kg wet								1
1,2-Dichloroethane	<1.00	2.00	ug/Kg wet								1
1,2-Dichloroethane	<2.00	4.00	ug/Kg wet								1
1,2-Dichloropropane	<1.00	2.00	ug/Kg wet								1
1,2-Dichloropropane	<2.00	4.00	ug/Kg wet								1
1,3,5-Trimethylbenzene	<2.00	4.00	ug/Kg wet								1
1,3-Dichloropropane	<1.00	2.00	ug/Kg wet								1
1-Butanol	<40.0	80.0	ug/Kg wet								1
2,2-Dichloropropane	<1.00	2.00	ug/Kg wet								1
2-Butanone	<14.0	28.0	ug/Kg wet								1
2-Butanone	<14.0	28.0	ug/Kg wet								1
2-Chlorotoluene	<2.00	4.00	ug/Kg wet								1
2-Hexanone	<14.0	28.0	ug/Kg wet								1
2-Hexanone	<14.0	28.0	ug/Kg wet								1
4-Chlorotoluene	<2.00	4.00	ug/Kg wet								1
4-Isopropyltoluene	<4.00	8.00	ug/Kg wet								1
4-Methyl-2-pentanone	<7.00	14.0	ug/Kg wet								1
4-Methyl-2-pentanone	<14.0	28.0	ug/Kg wet								1
Acetone	<28.0	70.0	ug/Kg wet								1
Acetone	<28.0	70.0	ug/Kg wet								1
Acrolein	<20.0	40.0	ug/Kg wet								1
Acrylonitrile	<4.00	8.00	ug/Kg wet								1
Benzene	<1.00	2.00	ug/Kg wet								1

Quality Control

(Continued)

Client: Geosyntec DoD**Report Date:** 05/07/2021**Project:** Milw Die Cast**Matrix:** Solid**Work Order:** 2010549**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B010525 - SW5035 (Continued)**Blank (B010525-BLK1)** (Continued)

Prepared: 09/16/2020 17:00 Analyzed: 09/16/2020 21:24

Benzene	<1.00	2.00	ug/Kg wet								1
Bromobenzene	<2.00	4.00	ug/Kg wet								1
Bromochloromethane	<2.00	4.00	ug/Kg wet								1
Bromodichloromethane	<1.00	2.00	ug/Kg wet								1
Bromodichloromethane	<1.00	2.00	ug/Kg wet								1
Bromoform	<1.00	2.00	ug/Kg wet								1
Bromoform	<2.00	4.00	ug/Kg wet								1
Bromomethane	<8.00	16.0	ug/Kg wet								1
Bromomethane	<8.00	20.0	ug/Kg wet								1
Carbon disulfide	<2.00	4.00	ug/Kg wet								1
Carbon disulfide	<2.00	4.00	ug/Kg wet								1
Carbon tetrachloride	<0.600	2.00	ug/Kg wet								1
Carbon tetrachloride	<2.00	4.00	ug/Kg wet								1
Chlorobenzene	<1.00	2.00	ug/Kg wet								1
Chlorobenzene	<1.00	2.00	ug/Kg wet								1
Chloroethane	<4.00	8.00	ug/Kg wet								1
Chloroethane	<4.00	8.00	ug/Kg wet								1
Chloroform	<2.00	4.00	ug/Kg wet								1
Chloroform	<4.00	8.00	ug/Kg wet								1
Chloromethane	<4.00	8.00	ug/Kg wet								1
Chloromethane	<4.00	8.00	ug/Kg wet								1
cis-1,2-Dichloroethene	<2.00	4.00	ug/Kg wet								1
cis-1,2-Dichloroethene	<2.00	4.00	ug/Kg wet								1
cis-1,3-Dichloropropene	<2.00	4.00	ug/Kg wet								1
cis-1,3-Dichloropropene	<2.00	4.00	ug/Kg wet								1
Dibromochloromethane	<1.00	2.00	ug/Kg wet								1
Dibromochloromethane	<1.00	2.00	ug/Kg wet								1
Dibromomethane	<1.00	2.00	ug/Kg wet								1
Dichlorodifluoromethane	<1.00	2.00	ug/Kg wet								1
Ethylbenzene	<2.00	4.00	ug/Kg wet								1
Ethylbenzene	<4.00	8.00	ug/Kg wet								1
Isopropylbenzene	<2.00	4.00	ug/Kg wet								1
Isopropylbenzene	<2.00	4.00	ug/Kg wet								1
m,p-Xylene	<4.00	8.00	ug/Kg wet								1
m,p-Xylene	<4.00	8.00	ug/Kg wet								1
Methyl tert-butyl ether	<1.00	2.00	ug/Kg wet								1
Methyl tert-butyl ether	<1.00	2.00	ug/Kg wet								1
Methylene chloride	<8.00	16.0	ug/Kg wet								1
Methylene chloride	<4.00	8.00	ug/Kg wet								1
n-Butylbenzene	<2.00	4.00	ug/Kg wet								1
n-Propylbenzene	<2.00	4.00	ug/Kg wet								1
o-Xylene	<2.00	4.00	ug/Kg wet								1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast

Report Date: 05/07/2021
Matrix: Solid

Work Order: 2010549**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B010525 - SW5035 (Continued)**Blank (B010525-BLK1) (Continued)**

Prepared: 09/16/2020 17:00 Analyzed: 09/16/2020 21:24

o-Xylene	<4.00	8.00	ug/Kg wet								1
sec-Butylbenzene	<2.00	4.00	ug/Kg wet								1
Styrene	<4.00	8.00	ug/Kg wet								1
Styrene	<4.00	8.00	ug/Kg wet								1
tert-Butylbenzene	<4.00	8.00	ug/Kg wet								1
Tetrachloroethene	<2.00	4.00	ug/Kg wet								1
Tetrachloroethene	<2.00	4.00	ug/Kg wet								1
Toluene	<1.00	2.00	ug/Kg wet								1
Toluene	<1.00	2.00	ug/Kg wet								1
trans-1,2-Dichloroethene	<2.00	4.00	ug/Kg wet								1
trans-1,2-Dichloroethene	<2.00	4.00	ug/Kg wet								1
trans-1,3-Dichloropropene	<2.00	4.00	ug/Kg wet								1
trans-1,3-Dichloropropene	<2.00	4.00	ug/Kg wet								1
Trichloroethene	<1.00	2.00	ug/Kg wet								1
Trichloroethene	<2.00	4.00	ug/Kg wet								1
Trichlorofluoromethane	<1.00	2.00	ug/Kg wet								1
Vinyl acetate	<2.00	4.00	ug/Kg wet								1
Vinyl chloride	<2.00	4.00	ug/Kg wet								1
Vinyl chloride	<2.00	4.00	ug/Kg wet								1
Xylenes, Total	<6.00	12.0	ug/Kg wet								1
Xylenes, Total	<6.00	12.0	ug/Kg wet								1
1,3-Dichloropropene, Total	<4.00	8.00	ug/Kg wet								1
1,3-Dichloropropene, Total	<4.00	8.00	ug/Kg wet								1

Surrogate: Dibromofluoromethane	19.3		ug/Kg	20.00		97	84-150				1
Surrogate: Dibromofluoromethane	19.3		ug/Kg	20.00		97	86-150				1
Surrogate: 1,2-Dichloroethane-d4	21.7		ug/Kg	20.00		109	72-150				1
Surrogate: 1,2-Dichloroethane-d4	21.7		ug/Kg	20.00		109	89-150				1
Surrogate: Fluorobenzene	18.9		ug/Kg	20.00		95	87-109				1
Surrogate: Fluorobenzene	18.9		ug/Kg	20.00		95	88-111				1
Surrogate: Toluene-d8	18.5		ug/Kg	20.00		93	66-113				1
Surrogate: Toluene-d8	18.5		ug/Kg	20.00		93	72-107				1
Surrogate: 4-Bromofluorobenzene	10.0		ug/Kg	10.00		100	80-126				1
Surrogate: 4-Bromofluorobenzene	10.0		ug/Kg	10.00		100	82-137				1
Surrogate: 1,2-Dichlorobenzene-d4	20.1		ug/Kg	20.00		100	77-142				1
Surrogate: 1,2-Dichlorobenzene-d4	20.1		ug/Kg	20.00		100	84-138				1

LCS (B010525-BS1)

Prepared: 09/16/2020 17:00 Analyzed: 09/16/2020 20:11

1,1,1,2-Tetrachloroethane	41.6	2.00	ug/Kg wet	40.00		104	78-125				1
1,1,1-Trichloroethane	42.7	2.00	ug/Kg wet	40.00		107	73-113				1
1,1,1-Trichloroethane	42.7	4.00	ug/Kg wet	40.00		107	65-127				1
1,1,1,2-Tetrachloroethane	33.9	2.00	ug/Kg wet	40.00		85	47-146				1
1,1,2,2-Tetrachloroethane	33.9	2.00	ug/Kg wet	40.00		85	70-124				1

Quality Control

(Continued)

Client: Geosyntec DoD**Report Date:** 05/07/2021**Project:** Milw Die Cast**Matrix:** Solid**Work Order:** 2010549**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B010525 - SW5035 (Continued)**LCS (B010525-BS1)** (Continued)

Prepared: 09/16/2020 17:00 Analyzed: 09/16/2020 20:11

1,1,2-Trichloroethane	44.1	2.00	ug/Kg wet	40.00		110	78-121				1
1,1,2-Trichloroethane	44.1	2.00	ug/Kg wet	40.00		110	78-121				1
1,1-Dichloroethane	42.7	4.00	ug/Kg wet	40.00		107	76-125				1
1,1-Dichloroethane	42.7	4.00	ug/Kg wet	40.00		107	76-125				1
1,1-Dichloroethene	44.4	2.00	ug/Kg wet	40.00		111	70-131				1
1,1-Dichloroethene	44.4	4.00	ug/Kg wet	40.00		111	70-131				1
1,1-Dichloropropene	41.2	4.00	ug/Kg wet	40.00		103	76-125				1
1,2,3-Trichlorobenzene	40.8	8.00	ug/Kg wet	40.00		102	66-130				1
1,2,3-Trichloropropane	40.4	4.00	ug/Kg wet	40.00		101	73-125				1
1,2,4-Trichlorobenzene	40.3	8.00	ug/Kg wet	40.00		101	67-129				1
1,2,4-Trimethylbenzene	38.4	8.00	ug/Kg wet	40.00		96	75-123				1
1,2-Dibromo-3-chloropropane	36.9	4.00	ug/Kg wet	40.00		92	69-128				1
1,2-Dibromo-3-chloropropane	36.9	8.00	ug/Kg wet	40.00		92	69-128				1
1,2-Dibromoethane	42.1	2.00	ug/Kg wet	40.00		105	78-122				1
1,2-Dibromoethane	42.1	4.00	ug/Kg wet	40.00		105	78-122				1
1,2-Dichloroethane	45.5	2.00	ug/Kg wet	40.00		114	73-128				1
1,2-Dichloroethane	45.5	4.00	ug/Kg wet	40.00		114	73-128				1
1,2-Dichloropropane	44.0	2.00	ug/Kg wet	40.00		110	76-123				1
1,2-Dichloropropane	44.0	4.00	ug/Kg wet	40.00		110	76-123				1
1,3,5-Trimethylbenzene	38.7	4.00	ug/Kg wet	40.00		97	71-128				1
1,3-Dichloropropane	40.4	2.00	ug/Kg wet	40.00		101	77-121				1
1-Butanol	474	80.0	ug/Kg wet	400.0		118	70-130				1
2,2-Dichloropropane	42.1	2.00	ug/Kg wet	40.00		105	67-133				1
2-Butanone	147	28.0	ug/Kg wet	140.0		105	66-129				1
2-Butanone	147	28.0	ug/Kg wet	140.0		105	66-147				1
2-Chlorotoluene	36.7	4.00	ug/Kg wet	40.00		92	75-122				1
2-Hexanone	161	28.0	ug/Kg wet	140.0		115	60-145				1
2-Hexanone	161	28.0	ug/Kg wet	140.0		115	68-128				1
4-Chlorotoluene	36.7	4.00	ug/Kg wet	40.00		92	72-124				1
4-Isopropyltoluene	38.8	8.00	ug/Kg wet	40.00		97	73-127				1
4-Methyl-2-pentanone	155	14.0	ug/Kg wet	140.0		110	65-135				1
4-Methyl-2-pentanone	155	28.0	ug/Kg wet	140.0		110	65-135				1
Acetone	158	70.0	ug/Kg wet	140.0		113	36-164				1
Acetone	158	70.0	ug/Kg wet	140.0		113	36-164				1
Acrolein	132	40.0	ug/Kg wet	100.0		132	47-155				1
Acrylonitrile	44.2	8.00	ug/Kg wet	40.00		111	65-134				1
Benzene	40.2	2.00	ug/Kg wet	40.00		101	77-121				1
Benzene	40.2	2.00	ug/Kg wet	40.00		101	77-121				1
Bromobenzene	35.4	4.00	ug/Kg wet	40.00		89	78-121				1
Bromochloromethane	44.7	4.00	ug/Kg wet	40.00		112	78-125				1
Bromodichloromethane	41.1	2.00	ug/Kg wet	40.00		103	75-127				1
Bromodichloromethane	41.1	2.00	ug/Kg wet	40.00		103	75-127				1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast

Report Date: 05/07/2021
Matrix: Solid

Work Order: 2010549**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B010525 - SW5035 (Continued)**LCS (B010525-BS1) (Continued)**

Prepared: 09/16/2020 17:00 Analyzed: 09/16/2020 20:11

Bromoform	41.4	2.00	ug/Kg wet	40.00		104	67-132				1
Bromoform	41.4	4.00	ug/Kg wet	40.00		104	67-132				1
Bromomethane	34.4	16.0	ug/Kg wet	40.00		86	53-143				1
Bromomethane	34.4	20.0	ug/Kg wet	40.00		86	53-143				1
Carbon disulfide	35.5	4.00	ug/Kg wet	40.00		89	63-132				1
Carbon disulfide	35.5	4.00	ug/Kg wet	40.00		89	63-132				1
Carbon tetrachloride	48.0	2.00	ug/Kg wet	40.00		120	70-135				1
Carbon tetrachloride	48.0	4.00	ug/Kg wet	40.00		120	70-135				1
Chlorobenzene	40.6	2.00	ug/Kg wet	40.00		102	73-123				1
Chlorobenzene	40.6	2.00	ug/Kg wet	40.00		102	83-127				1
Chloroethane	41.8	8.00	ug/Kg wet	40.00		104	59-139				1
Chloroethane	41.8	8.00	ug/Kg wet	40.00		104	59-139				1
Chloroform	42.8	4.00	ug/Kg wet	40.00		107	73-127				1
Chloroform	42.8	8.00	ug/Kg wet	40.00		107	80-131				1
Chloromethane	46.9	8.00	ug/Kg wet	40.00		117	50-136				1
Chloromethane	46.9	8.00	ug/Kg wet	40.00		117	50-136				1
cis-1,2-Dichloroethene	39.9	4.00	ug/Kg wet	40.00		100	77-123				1
cis-1,2-Dichloroethene	39.9	4.00	ug/Kg wet	40.00		100	77-123				1
cis-1,3-Dichloropropene	39.7	4.00	ug/Kg wet	40.00		99	74-126				1
cis-1,3-Dichloropropene	39.7	4.00	ug/Kg wet	40.00		99	74-126				1
Dibromochloromethane	41.1	2.00	ug/Kg wet	40.00		103	74-126				1
Dibromochloromethane	41.1	2.00	ug/Kg wet	40.00		103	74-126				1
Dibromomethane	48.6	2.00	ug/Kg wet	40.00		121	78-125				1
Dichlorodifluoromethane	43.7	2.00	ug/Kg wet	40.00		109	29-149				1
Ethylbenzene	39.9	4.00	ug/Kg wet	40.00		100	76-122				1
Ethylbenzene	39.9	8.00	ug/Kg wet	40.00		100	76-122				1
Isopropylbenzene	37.0	4.00	ug/Kg wet	40.00		93	68-134				1
Isopropylbenzene	37.0	4.00	ug/Kg wet	40.00		93	68-134				1
m,p-Xylene	80.3	8.00	ug/Kg wet	80.00		100	77-124				1
m,p-Xylene	80.3	8.00	ug/Kg wet	80.00		100	77-124				1
Methyl tert-butyl ether	41.5	2.00	ug/Kg wet	40.00		104	73-118				1
Methyl tert-butyl ether	41.5	2.00	ug/Kg wet	40.00		104	73-118				1
Methylene chloride	45.6	16.0	ug/Kg wet	40.00		114	70-128				1
Methylene chloride	45.6	8.00	ug/Kg wet	40.00		114	70-128				1
n-Butylbenzene	37.9	4.00	ug/Kg wet	40.00		95	70-128				1
n-Propylbenzene	36.6	4.00	ug/Kg wet	40.00		92	73-125				1
o-Xylene	36.5	4.00	ug/Kg wet	40.00		91	77-123				1
o-Xylene	36.5	8.00	ug/Kg wet	40.00		91	77-123				1
sec-Butylbenzene	38.1	4.00	ug/Kg wet	40.00		95	73-126				1
Styrene	38.2	8.00	ug/Kg wet	40.00		96	76-124				1
Styrene	38.2	8.00	ug/Kg wet	40.00		96	76-124				1
tert-Butylbenzene	38.8	8.00	ug/Kg wet	40.00		97	73-125				1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast

Report Date: 05/07/2021
Matrix: Solid

Work Order: 2010549**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B010525 - SW5035 (Continued)**LCS (B010525-BS1) (Continued)**

Prepared: 09/16/2020 17:00 Analyzed: 09/16/2020 20:11

Tetrachloroethene	44.1	4.00	ug/Kg wet	40.00		110	73-125				1
Tetrachloroethene	44.1	4.00	ug/Kg wet	40.00		110	73-135				1
Toluene	37.2	2.00	ug/Kg wet	40.00		93	77-121				1
Toluene	37.2	2.00	ug/Kg wet	40.00		93	77-121				1
trans-1,2-Dichloroethene	39.1	4.00	ug/Kg wet	40.00		98	74-125				1
trans-1,2-Dichloroethene	39.1	4.00	ug/Kg wet	40.00		98	74-125				1
trans-1,3-Dichloropropene	39.5	4.00	ug/Kg wet	40.00		99	71-130				1
trans-1,3-Dichloropropene	39.5	4.00	ug/Kg wet	40.00		99	71-130				1
Trichloroethene	42.0	2.00	ug/Kg wet	40.00		105	72-126				1
Trichloroethene	42.0	4.00	ug/Kg wet	40.00		105	77-125				1
Trichlorofluoromethane	43.8	2.00	ug/Kg wet	40.00		110	62-140				1
Vinyl acetate	40.5	4.00	ug/Kg wet	40.00		101	50-151				1
Vinyl chloride	41.8	4.00	ug/Kg wet	40.00		104	56-135				1
Vinyl chloride	41.8	4.00	ug/Kg wet	40.00		104	56-135				1
Xylenes, Total	117	12.0	ug/Kg wet	120.0		97	78-124				1
Xylenes, Total	117	12.0	ug/Kg wet	120.0		97	78-124				1
1,3-Dichloropropene, Total	79.2	8.00	ug/Kg wet	80.00		99	77-126				1
1,3-Dichloropropene, Total	79.2	8.00	ug/Kg wet	80.00		99	77-126				1
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Surrogate: Dibromofluoromethane	20.6		ug/Kg	20.00		103	84-150				1
Surrogate: Dibromofluoromethane	20.6		ug/Kg	20.00		103	86-150				1
Surrogate: 1,2-Dichloroethane-d4	20.2		ug/Kg	20.00		101	72-150				1
Surrogate: 1,2-Dichloroethane-d4	20.2		ug/Kg	20.00		101	89-150				1
Surrogate: Fluorobenzene	18.6		ug/Kg	20.00		93	87-109				1
Surrogate: Fluorobenzene	18.6		ug/Kg	20.00		93	88-111				1
Surrogate: Toluene-d8	18.3		ug/Kg	20.00		92	66-113				1
Surrogate: Toluene-d8	18.3		ug/Kg	20.00		92	72-107				1
Surrogate: 4-Bromofluorobenzene	10.3		ug/Kg	10.00		103	80-126				1
Surrogate: 4-Bromofluorobenzene	10.3		ug/Kg	10.00		103	82-137				1
Surrogate: 1,2-Dichlorobenzene-d4	20.5		ug/Kg	20.00		102	77-142				1
Surrogate: 1,2-Dichlorobenzene-d4	20.5		ug/Kg	20.00		102	84-138				1

LCS Dup (B010525-BSD1)

Prepared: 09/16/2020 17:00 Analyzed: 09/16/2020 20:35

1,1,1,2-Tetrachloroethane	40.0	2.00	ug/Kg wet	40.00		100	78-125	4	20		1
1,1,1-Trichloroethane	44.4	2.00	ug/Kg wet	40.00		111	73-113	4	20		1
1,1,1-Trichloroethane	44.4	4.00	ug/Kg wet	40.00		111	65-127	4	20		1
1,1,2,2-Tetrachloroethane	31.9	2.00	ug/Kg wet	40.00		80	47-146	6	20		1
1,1,2,2-Tetrachloroethane	31.9	2.00	ug/Kg wet	40.00		80	70-124	6	20		1
1,1,2-Trichloroethane	43.0	2.00	ug/Kg wet	40.00		107	78-121	3	20		1
1,1,2-Trichloroethane	43.0	2.00	ug/Kg wet	40.00		107	78-121	3	20		1
1,1-Dichloroethane	43.0	4.00	ug/Kg wet	40.00		107	76-125	0.7	20		1
1,1-Dichloroethane	43.0	4.00	ug/Kg wet	40.00		107	76-125	0.7	20		1
1,1-Dichloroethane	44.6	2.00	ug/Kg wet	40.00		111	70-131	0.3	20		1

Quality Control

(Continued)

Client: Geosyntec DoD

Report Date: 05/07/2021

Project: Milw Die Cast

Matrix: Solid

Work Order: 2010549

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B010525 - SW5035 (Continued)**LCS Dup (B010525-BSD1)** (Continued)

Prepared: 09/16/2020 17:00 Analyzed: 09/16/2020 20:35

1,1-Dichloroethene	44.6	4.00	ug/Kg wet	40.00		111	70-131	0.3	20		1
1,1-Dichloropropene	41.6	4.00	ug/Kg wet	40.00		104	76-125	1	20		1
1,2,3-Trichlorobenzene	41.2	8.00	ug/Kg wet	40.00		103	66-130	0.9	20		1
1,2,3-Trichloropropene	36.6	4.00	ug/Kg wet	40.00		92	73-125	10	20		1
1,2,4-Trichlorobenzene	41.6	8.00	ug/Kg wet	40.00		104	67-129	3	20		1
1,2,4-Trimethylbenzene	38.1	8.00	ug/Kg wet	40.00		95	75-123	0.7	20		1
1,2-Dibromo-3-chloropropane	37.0	4.00	ug/Kg wet	40.00		92	69-128	0.3	20		1
1,2-Dibromo-3-chloropropane	37.0	8.00	ug/Kg wet	40.00		92	69-128	0.3	20		1
1,2-Dibromoethane	41.5	2.00	ug/Kg wet	40.00		104	78-122	1	20		1
1,2-Dibromoethane	41.5	4.00	ug/Kg wet	40.00		104	78-122	1	20		1
1,2-Dichloroethane	44.4	2.00	ug/Kg wet	40.00		111	73-128	2	20		1
1,2-Dichloroethane	44.4	4.00	ug/Kg wet	40.00		111	73-128	2	20		1
1,2-Dichloropropane	43.2	2.00	ug/Kg wet	40.00		108	76-123	2	20		1
1,2-Dichloropropane	43.2	4.00	ug/Kg wet	40.00		108	76-123	2	20		1
1,3,5-Trimethylbenzene	38.7	4.00	ug/Kg wet	40.00		97	71-128	0.08	20		1
1,3-Dichloropropane	38.6	2.00	ug/Kg wet	40.00		96	77-121	5	20		1
1-Butanol	446	80.0	ug/Kg wet	400.0		112	70-130	6	20		1
2,2-Dichloropropane	43.9	2.00	ug/Kg wet	40.00		110	67-133	4	20		1
2-Butanone	150	28.0	ug/Kg wet	140.0		107	66-129	2	20		1
2-Butanone	150	28.0	ug/Kg wet	140.0		107	66-147	2	20		1
2-Chlorotoluene	35.8	4.00	ug/Kg wet	40.00		89	75-122	3	20		1
2-Hexanone	164	28.0	ug/Kg wet	140.0		117	60-145	2	20		1
2-Hexanone	164	28.0	ug/Kg wet	140.0		117	68-128	2	20		1
4-Chlorotoluene	37.0	4.00	ug/Kg wet	40.00		92	72-124	0.8	20		1
4-Isopropyltoluene	39.0	8.00	ug/Kg wet	40.00		98	73-127	0.5	20		1
4-Methyl-2-pentanone	157	14.0	ug/Kg wet	140.0		112	65-135	1	20		1
4-Methyl-2-pentanone	157	28.0	ug/Kg wet	140.0		112	65-135	1	20		1
Acetone	169	70.0	ug/Kg wet	140.0		120	36-164	7	20		1
Acetone	169	70.0	ug/Kg wet	140.0		120	36-164	7	20		1
Acrolein	137	40.0	ug/Kg wet	100.0		137	47-155	4	20		1
Acrylonitrile	44.1	8.00	ug/Kg wet	40.00		110	65-134	0.2	20		1
Benzene	40.2	2.00	ug/Kg wet	40.00		101	77-121	0.05	20		1
Benzene	40.2	2.00	ug/Kg wet	40.00		101	77-121	0.05	20		1
Bromobenzene	34.9	4.00	ug/Kg wet	40.00		87	78-121	2	20		1
Bromochloromethane	43.2	4.00	ug/Kg wet	40.00		108	78-125	4	20		1
Bromodichloromethane	40.6	2.00	ug/Kg wet	40.00		101	75-127	1	20		1
Bromodichloromethane	40.6	2.00	ug/Kg wet	40.00		101	75-127	1	20		1
Bromoform	39.6	2.00	ug/Kg wet	40.00		99	67-132	5	20		1
Bromoform	39.6	4.00	ug/Kg wet	40.00		99	67-132	5	20		1
Bromomethane	34.4	16.0	ug/Kg wet	40.00		86	53-143	0.03	20		1
Bromomethane	34.4	20.0	ug/Kg wet	40.00		86	53-143	0.03	20		1
Carbon disulfide	36.8	4.00	ug/Kg wet	40.00		92	63-132	3	20		1

Quality Control

(Continued)

Client: Geosyntec DoD**Report Date:** 05/07/2021**Project:** Milw Die Cast**Matrix:** Solid**Work Order:** 2010549**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B010525 - SW5035 (Continued)**LCS Dup (B010525-BSD1)** (Continued)

Prepared: 09/16/2020 17:00 Analyzed: 09/16/2020 20:35

Carbon disulfide	36.8	4.00	ug/Kg wet	40.00		92	63-132	3	20		1
Carbon tetrachloride	50.2	2.00	ug/Kg wet	40.00		125	70-135	4	20		1
Carbon tetrachloride	50.2	4.00	ug/Kg wet	40.00		125	70-135	4	20		1
Chlorobenzene	39.5	2.00	ug/Kg wet	40.00		99	73-123	3	20		1
Chlorobenzene	39.5	2.00	ug/Kg wet	40.00		99	83-127	3	20		1
Chloroethane	44.2	8.00	ug/Kg wet	40.00		111	59-139	6	20		1
Chloroethane	44.2	8.00	ug/Kg wet	40.00		111	59-139	6	20		1
Chloroform	42.5	4.00	ug/Kg wet	40.00		106	73-127	0.7	20		1
Chloroform	42.5	8.00	ug/Kg wet	40.00		106	80-131	0.7	20		1
Chloromethane	48.2	8.00	ug/Kg wet	40.00		120	50-136	3	20		1
Chloromethane	48.2	8.00	ug/Kg wet	40.00		120	50-136	3	20		1
cis-1,2-Dichloroethene	40.2	4.00	ug/Kg wet	40.00		100	77-123	0.6	20		1
cis-1,2-Dichloroethene	40.2	4.00	ug/Kg wet	40.00		100	77-123	0.6	20		1
cis-1,3-Dichloropropene	39.2	4.00	ug/Kg wet	40.00		98	74-126	1	20		1
cis-1,3-Dichloropropene	39.2	4.00	ug/Kg wet	40.00		98	74-126	1	20		1
Dibromochloromethane	39.0	2.00	ug/Kg wet	40.00		97	74-126	5	20		1
Dibromochloromethane	39.0	2.00	ug/Kg wet	40.00		97	74-126	5	20		1
Dibromomethane	48.3	2.00	ug/Kg wet	40.00		121	78-125	0.5	20		1
Dichlorodifluoromethane	46.6	2.00	ug/Kg wet	40.00		116	29-149	6	20		1
Ethylbenzene	40.1	4.00	ug/Kg wet	40.00		100	76-122	0.3	20		1
Ethylbenzene	40.1	8.00	ug/Kg wet	40.00		100	76-122	0.3	20		1
Isopropylbenzene	36.8	4.00	ug/Kg wet	40.00		92	68-134	0.5	20		1
Isopropylbenzene	36.8	4.00	ug/Kg wet	40.00		92	68-134	0.5	20		1
m,p-Xylene	80.9	8.00	ug/Kg wet	80.00		101	77-124	0.7	20		1
m,p-Xylene	80.9	8.00	ug/Kg wet	80.00		101	77-124	0.7	20		1
Methyl tert-butyl ether	40.2	2.00	ug/Kg wet	40.00		101	73-118	3	20		1
Methyl tert-butyl ether	40.2	2.00	ug/Kg wet	40.00		101	73-118	3	20		1
Methylene chloride	46.9	16.0	ug/Kg wet	40.00		117	70-128	3	20		1
Methylene chloride	46.9	8.00	ug/Kg wet	40.00		117	70-128	3	20		1
n-Butylbenzene	39.3	4.00	ug/Kg wet	40.00		98	70-128	4	20		1
n-Propylbenzene	36.6	4.00	ug/Kg wet	40.00		91	73-125	0.1	20		1
o-Xylene	35.3	4.00	ug/Kg wet	40.00		88	77-123	3	20		1
o-Xylene	35.3	8.00	ug/Kg wet	40.00		88	77-123	3	20		1
sec-Butylbenzene	38.3	4.00	ug/Kg wet	40.00		96	73-126	0.4	20		1
Styrene	38.2	8.00	ug/Kg wet	40.00		96	76-124	0.03	20		1
Styrene	38.2	8.00	ug/Kg wet	40.00		96	76-124	0.03	20		1
tert-Butylbenzene	39.0	8.00	ug/Kg wet	40.00		98	73-125	0.5	20		1
Tetrachloroethene	43.3	4.00	ug/Kg wet	40.00		108	73-125	2	20		1
Tetrachloroethene	43.3	4.00	ug/Kg wet	40.00		108	73-135	2	20		1
Toluene	37.4	2.00	ug/Kg wet	40.00		93	77-121	0.6	20		1
Toluene	37.4	2.00	ug/Kg wet	40.00		93	77-121	0.6	20		1
trans-1,2-Dichloroethene	41.1	4.00	ug/Kg wet	40.00		103	74-125	5	20		1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast

Report Date: 05/07/2021
Matrix: Solid

Work Order: 2010549**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B010525 - SW5035 (Continued)**LCS Dup (B010525-BSD1)** (Continued)

Prepared: 09/16/2020 17:00 Analyzed: 09/16/2020 20:35

trans-1,2-Dichloroethene	41.1	4.00	ug/Kg wet	40.00		103	74-125	5	20		1
trans-1,3-Dichloropropene	38.9	4.00	ug/Kg wet	40.00		97	71-130	1	20		1
trans-1,3-Dichloropropene	38.9	4.00	ug/Kg wet	40.00		97	71-130	1	20		1
Trichloroethene	43.0	2.00	ug/Kg wet	40.00		108	72-126	2	20		1
Trichloroethene	43.0	4.00	ug/Kg wet	40.00		108	77-125	2	20		1
Trichlorofluoromethane	44.9	2.00	ug/Kg wet	40.00		112	62-140	2	20		1
Vinyl acetate	42.0	4.00	ug/Kg wet	40.00		105	50-151	4	20		1
Vinyl chloride	43.6	4.00	ug/Kg wet	40.00		109	56-135	4	20		1
Vinyl chloride	43.6	4.00	ug/Kg wet	40.00		109	56-135	4	20		1
Xylenes, Total	116	12.0	ug/Kg wet	120.0		97	78-124	0.5	20		1
Xylenes, Total	116	12.0	ug/Kg wet	120.0		97	78-124	0.5	20		1
1,3-Dichloropropene, Total	78.2	8.00	ug/Kg wet	80.00		98	77-126	1	20		1
1,3-Dichloropropene, Total	78.2	8.00	ug/Kg wet	80.00		98	77-126	1	20		1
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Surrogate: Dibromofluoromethane	20.5		ug/Kg	20.00		103	84-150				1
Surrogate: Dibromofluoromethane	20.5		ug/Kg	20.00		103	86-150				1
Surrogate: 1,2-Dichloroethane-d4	20.8		ug/Kg	20.00		104	72-150				1
Surrogate: 1,2-Dichloroethane-d4	20.8		ug/Kg	20.00		104	89-150				1
Surrogate: Fluorobenzene	18.4		ug/Kg	20.00		92	87-109				1
Surrogate: Fluorobenzene	18.4		ug/Kg	20.00		92	88-111				1
Surrogate: Toluene-d8	18.0		ug/Kg	20.00		90	66-113				1
Surrogate: Toluene-d8	18.0		ug/Kg	20.00		90	72-107				1
Surrogate: 4-Bromofluorobenzene	9.82		ug/Kg	10.00		98	80-126				1
Surrogate: 4-Bromofluorobenzene	9.82		ug/Kg	10.00		98	82-137				1
Surrogate: 1,2-Dichlorobenzene-d4	20.4		ug/Kg	20.00		102	77-142				1
Surrogate: 1,2-Dichlorobenzene-d4	20.4		ug/Kg	20.00		102	84-138				1

Certified Analyses included in this Report

Analyte	CAS #	Certifications
SM2540G in Solid		
Total Solids	Moist	WDNR,DoD
SW8260B in Solid		
1,1,1,2-Tetrachloroethane	630-20-6	WDNR,DoD,ILEPA
1,1,1-Trichloroethane	71-55-6	AKDEC,WDNR,DoD,ILEPA
1,1,1-Trichloroethane	71-55-6	AKDEC,WDNR,DoD,ILEPA
1,1,2,2-Tetrachloroethane	79-34-5	AKDEC,WDNR,DoD,ILEPA
1,1,2,2-Tetrachloroethane	79-34-5	AKDEC,WDNR,DoD,ILEPA
1,1,2-Trichloroethane	79-00-5	AKDEC,WDNR,DoD,ILEPA
1,1,2-Trichloroethane	79-00-5	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloroethane	75-34-3	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloroethane	75-34-3	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloroethene	75-35-4	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloroethene	75-35-4	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloropropene	563-58-6	WDNR,DoD,ILEPA
1,2,3-Trichlorobenzene	87-61-6	WDNR,DoD,ILEPA
1,2,3-Trichloropropane	96-18-4	AKDEC,WDNR,DoD,ILEPA
1,2,4-Trichlorobenzene	120-82-1	WDNR,DoD,ILEPA
1,2,4-Trimethylbenzene	95-63-6	WDNR,DoD,ILEPA
1,2-Dibromo-3-chloropropane	96-12-8	AKDEC,WDNR,DoD,ILEPA
1,2-Dibromo-3-chloropropane	96-12-8	AKDEC,WDNR,DoD,ILEPA
1,2-Dibromoethane	106-93-4	AKDEC,WDNR,DoD,ILEPA
1,2-Dibromoethane	106-93-4	AKDEC,WDNR,DoD,ILEPA
1,2-Dichloroethane	107-06-2	AKDEC,WDNR,DoD,ILEPA
1,2-Dichloroethane	107-06-2	AKDEC,WDNR,DoD,ILEPA
1,2-Dichloropropane	78-87-5	AKDEC,WDNR,DoD,ILEPA
1,2-Dichloropropane	78-87-5	AKDEC,WDNR,DoD,ILEPA
1,3,5-Trimethylbenzene	108-67-8	WDNR,DoD,ILEPA
1,3-Dichloropropane	142-28-9	WDNR,DoD,ILEPA
1-Butanol	71-36-3	WDNR
2,2-Dichloropropane	594-20-7	WDNR,DoD,ILEPA
2-Butanone	78-93-3	WDNR,DoD,ILEPA
2-Butanone	78-93-3	WDNR,DoD,ILEPA
2-Chlorotoluene	95-49-8	WDNR,DoD,ILEPA
2-Hexanone	591-78-6	WDNR,DoD,ILEPA
2-Hexanone	591-78-6	WDNR,DoD,ILEPA
4-Chlorotoluene	106-43-4	WDNR,DoD,ILEPA
4-Isopropyltoluene	99-87-6	WDNR,DoD,ILEPA
4-Methyl-2-pentanone	108-10-1	WDNR,DoD,ILEPA
4-Methyl-2-pentanone	108-10-1	WDNR,DoD,ILEPA
Acetone	67-64-1	WDNR,DoD,ILEPA

Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW8260B in Solid (Continued)		
Acetone	67-64-1	WDNR,DoD,ILEPA
Acrolein	107-02-8	WDNR,DoD,ILEPA
Acrylonitrile	107-13-1	WDNR,DoD,ILEPA
Benzene	71-43-2	WDNR,DoD,ILEPA
Benzene	71-43-2	WDNR,DoD,ILEPA
Bromobenzene	108-86-1	WDNR,DoD,ILEPA
Bromochloromethane	74-97-5	WDNR,DoD,ILEPA
Bromodichloromethane	75-27-4	AKDEC,WDNR,DoD,ILEPA
Bromodichloromethane	75-27-4	AKDEC,WDNR,DoD,ILEPA
Bromoform	75-25-2	AKDEC,WDNR,DoD,ILEPA
Bromoform	75-25-2	AKDEC,WDNR,DoD,ILEPA
Bromomethane	74-83-9	AKDEC,WDNR,DoD,ILEPA
Bromomethane	74-83-9	AKDEC,WDNR,DoD,ILEPA
Carbon disulfide	75-15-0	WDNR,DoD,ILEPA
Carbon disulfide	75-15-0	WDNR,DoD,ILEPA
Carbon tetrachloride	56-23-5	AKDEC,WDNR,DoD,ILEPA
Carbon tetrachloride	56-23-5	AKDEC,WDNR,DoD,ILEPA
Chlorobenzene	108-90-7	AKDEC,WDNR,DoD,ILEPA
Chlorobenzene	108-90-7	AKDEC,WDNR,DoD,ILEPA
Chloroethane	75-00-3	WDNR,DoD,ILEPA
Chloroethane	75-00-3	WDNR,DoD,ILEPA
Chloroform	67-66-3	AKDEC,WDNR,DoD,ILEPA
Chloroform	67-66-3	AKDEC,WDNR,DoD,ILEPA
Chloromethane	74-87-3	AKDEC,WDNR,DoD,ILEPA
Chloromethane	74-87-3	AKDEC,WDNR,DoD,ILEPA
cis-1,2-Dichloroethene	156-59-2	WDNR,DoD,ILEPA
cis-1,2-Dichloroethene	156-59-2	WDNR,DoD,ILEPA
cis-1,3-Dichloropropene	10061-01-5	AKDEC,WDNR,DoD,ILEPA
cis-1,3-Dichloropropene	10061-01-5	AKDEC,WDNR,DoD,ILEPA
Dibromochloromethane	124-48-1	AKDEC,WDNR,DoD,ILEPA
Dibromochloromethane	124-48-1	AKDEC,WDNR,DoD,ILEPA
Dibromomethane	74-95-3	WDNR,DoD,ILEPA
Dichlorodifluoromethane	75-71-8	WDNR,DoD,ILEPA
Ethylbenzene	100-41-4	WDNR,DoD,ILEPA
Ethylbenzene	100-41-4	WDNR,DoD,ILEPA
Isopropylbenzene	98-82-8	WDNR,DoD,ILEPA
Isopropylbenzene	98-82-8	WDNR,DoD,ILEPA
m,p-Xylene	179601-23-1	WDNR,DoD,ILEPA
m,p-Xylene	179601-23-1	WDNR,DoD,ILEPA
Methyl tert-butyl ether	1634-04-4	WDNR,DoD,ILEPA
Methyl tert-butyl ether	1634-04-4	WDNR,DoD,ILEPA

Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW8260B in Solid (Continued)		
Methylene chloride	75-09-2	AKDEC,WDNR,DoD,ILEPA
Methylene chloride	75-09-2	AKDEC,WDNR,DoD,ILEPA
n-Butylbenzene	104-51-8	WDNR,DoD,ILEPA
n-Propylbenzene	103-65-1	WDNR,DoD,ILEPA
o-Xylene	95-47-6	WDNR,DoD,ILEPA
o-Xylene	95-47-6	WDNR,DoD,ILEPA
sec-Butylbenzene	135-98-8	WDNR,DoD,ILEPA
Styrene	100-42-5	WDNR,DoD
Styrene	100-42-5	WDNR,DoD
tert-Butylbenzene	98-06-6	WDNR,DoD,ILEPA
Tetrachloroethene	127-18-4	WDNR,DoD,ILEPA
Tetrachloroethene	127-18-4	WDNR,DoD,ILEPA
Toluene	108-88-3	AKDEC,WDNR,DoD,ILEPA
Toluene	108-88-3	AKDEC,WDNR,DoD,ILEPA
trans-1,2-Dichloroethene	156-60-5	AKDEC,WDNR,DoD,ILEPA
trans-1,2-Dichloroethene	156-60-5	AKDEC,WDNR,DoD,ILEPA
trans-1,3-Dichloropropene	10061-02-6	AKDEC,WDNR,DoD,ILEPA
trans-1,3-Dichloropropene	10061-02-6	AKDEC,WDNR,DoD,ILEPA
Trichloroethene	79-01-6	AKDEC,WDNR,DoD,ILEPA
Trichloroethene	79-01-6	AKDEC,WDNR,DoD,ILEPA
Trichlorofluoromethane	75-69-4	AKDEC,WDNR,DoD,ILEPA
Vinyl acetate	108-05-4	WDNR,DoD,ILEPA
Vinyl chloride	75-01-4	AKDEC,WDNR,DoD,ILEPA
Vinyl chloride	75-01-4	AKDEC,WDNR,DoD,ILEPA
Xylenes, Total	1330-20-7	WDNR,DoD,ILEPA
Xylenes, Total	1330-20-7	WDNR,DoD,ILEPA
1,3-Dichloropropene, Total	542-75-6	AKDEC,WDNR,DoD,ILEPA
1,3-Dichloropropene, Total	542-75-6	AKDEC,WDNR,DoD,ILEPA

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	17-011	05/31/2022
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L18-184-R1	03/31/2021
DoD	Department of Defense, Accredited by PJLA	L18-183-R3	03/31/2022
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	1002562020-3	07/27/2021
ISO	ISO/IEC 17025, Accredited by PJLA	L18-184-R1	03/31/2022
TX	Texas Commission of Environmental Quality	T104704554-20-5	10/31/2021
WA	Washington State Department of Ecology	C1057	01/05/2022
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2021

Qualifiers and Definitions

Item	Description
Q	One or more quality control results were outside of the acceptance limits (e.g. LCS recovery, surrogate spike recovery, or CCV recovery).
S1	The percent recovery is above the limits (e.g. LCS recovery, surrogate spike recovery, or CCV recovery), but the analyte was not detected in the sample. Data is acceptable.
%Rec	Percent Recovery
MDL	In the state of Wisconsin MDL is equivalent to LOD; in all other applications MDL is equivalent to MDL. In the state of Wisconsin the Reporting Limit is equivalent to LOQ.



Environmental Monitoring and Technologies, Inc.
www.emt.com

509 N. 3rd Ave.
Des Plaines, IL 60016



2010549
PM: Nicole Ryan
Geosyntec DoD
Milw Die Cast

Chain of Custody Record

TURNAROUND TIME:
 RUSH
 ROUTINE
_____ day turnaround

0663

67-6735

Due Date: _____ COC #: _____

Company: Geosyntec Corp - Xerox
Address: 1000 N. Park Washington Blvd
Yorkville, IL
Melrose, IL 60452
Phone #: (202) 874-0228 Fax #: ()
P.O. #: _____ Proj. #: CHMB371N
Client Contact: Jessica Johnson
Project ID / Location: MDCC / Milwaukee, WI

Sample Type: 1. Waste Water 4. Sludge 7. Groundwater (filtered)
2. Drinking Water 5. Oil 8. Other
3. Soil 6. Groundwater Blank

Container Type: P - Plastic V - VOC Vial O - Other
G - Glass B - Tedlar Bag

Preservative: 1. None 4. NaOH 7. Zn Ace
2. H2SO4 5. HCl 8. Other
3. HNO3 6. MeOH NaOH

EMT USE ONLY
WORKORDER # 2010549

Sample I.D.	Container			Sampling			Preservation		EMT USE ONLY	EMT WORKORDER #	
	Size	Type	No.	By	Date	Time	pH	Temp.			Field
SC-2 (6.5-7)	3	V/P	3/1	DL	9/16/20	1530	-	-	9/16	X	01A-D
SC-3 (6.5-7)	3	V	↓	↓	↓	↓	-	-	9/16	X	02A-D
Miscellaneous Blank	8	V	1					6		X	03A

Relinquished By: [Signature] Date: 9-16-20 Time: 1314
Received By: [Signature] Date: 9-16-20 Time: 1530

EMT USE ONLY Date: 9-16-20 Time: 1314
Client Code: _____ EMT Project I.D. _____ Jar Lot No. _____

TEMPERATURE (Must be recorded if sampling was greater than 6 hrs. prior to sample receipt) 2.1
EMT SAMPLE RETURN POLICY ON BACK

SPECIAL INSTRUCTIONS:

Received For Lab By: Aquiescha Zabawa Date: 09-16-2020 Time: 1530

Sample Receipt Checklist

Work Order: 2010549

Printed: 9/16/2020 4:30:14PM

Client: Geosyntec DoD
Project: Milw Die Cast

Date Due: Wednesday, September 23, 2020

Received By: Agnieszka B. Zabawa

Date Received: 09/16/20 15:30

Logged In By: Agnieszka B. Zabawa

Date Logged In: 09/16/20 16:30

Sample Temperature at Receipt:	2.1°C
How were samples received?	EMT
Custody Seals Present	No
Custody Seals Intact	NA
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	No

Comments

ABZ

09/16/2020

Memorandum

Date: May 7, 2021
To: Jeremiah Johnson
From: Jennifer Pinion
CC: J. Caprio
Subject: **Stage 2A Data Validation – Level II Data Deliverable – Environmental Monitoring and Technologies Work Order # 20I0549**

SITE: Milwaukee Die Casting Company Site, Milwaukee, WI

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of two soil samples and a methanol blank, collected on September 14, 2020, during a Milwaukee Die Casting Company Site sampling event. The analyses were performed by Environmental Monitoring and Technologies (EMT), Inc, Des Plaines, Illinois. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by United States (US) Environmental Protection Agency (EPA) Methods 5035/8260B

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data are usable for supporting project objectives.

The data were reviewed based on the pertinent methods referenced by the data package, professional and technical judgment and the following documents:

- Updated Site Investigation Work Plan, Milwaukee Die Casting Company Site, 4132 North Holton Street. Milwaukee, Wisconsin, November 12, 2019
- US EPA National Functional Guidelines for Organic Superfund Methods Data Review, November 2020 (EPA 540-R-20-005)

The following samples were analyzed in the data set and validated at a Stage 2A level:

Laboratory IDs	Client IDs
20I0549-01	SG-2(6.5-7)
20I0549-02	SG-3(6.5-7)

Laboratory IDs	Client IDs
20I0549-03	Methanol Blank

The samples were received at the laboratory at 2.1°C within the temperature criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The date and time of collection were not listed on the chain of custody (COC) for the methanol blank. The laboratory logged the sample in as collected on 09/14/20 at 00:00.

The laboratory report was revised on 5/7/2021 to correct the client name to Geosyntec Consultants.

The total solids data, used to report the sample on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs per US EPA Methods 5035/8260B

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine the impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times and Preservation
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Trip Blank
- ✓ Surrogates
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

1.1.1 Completeness

The VOC data reported in this package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total

number of analytical results requested on samples submitted for this analysis, for the sample set is 100%.

1.1.2 Analysis Anomaly

The percent differences (%Ds) of acrolein, dibromomethane and carbon tetrachloride in the continuing calibration verification (CCV) in batch B0I0525 were outside the laboratory acceptance limits with high biases. Since acrolein, dibromomethane and carbon tetrachloride were not detected in the associated samples, no qualifications were applied to the acrolein, dibromomethane and carbon tetrachloride data.

1.2 Holding Times and Preservation

The holding time for the VOC analysis of a solid sample is 14 days from collection to analysis. The holding times were met for the sample analysis.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch B0I0525). VOCs were not detected in the method blank above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCS duplicate (LCSD) pair was reported. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.6 Methanol Blank

One methanol blank was shipped with the sample set. VOCs were not detected in the methanol blank greater than the MDLs.

1.7 Surrogates

The surrogate recoveries were within the laboratory specified acceptance criteria.

1.8 Sensitivity

The samples were assessed to the MDLs; however, the non-detects were reported as not detected at the associated limit of detection (LODs). Elevated non-detect results were reported due to the dilutions analyzed.

1.9 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Analytical Report

Jeremiah Johnson
Geosyntec Consultants
10600 N. Port Washington Rd.
Mequon, WI 53092

October 06, 2020

Work Order: 20J0228

RE: Milw Die Cast

Dear Jeremiah Johnson:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,



Tim Witrzek For Nicole Ryan
Federal Project Manager
847.967.6666
nryan@emt.com

Approved for release: 10/6/2020 12:23:07PM

Approved by,



Nathan Fey
Laboratory Operations Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Wisconsin Dept of Natural Resources, Cert No. 999888890

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Sample Summary

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SG-1 (6.5-7)	20J0228-01	Soil	09/30/20 09:45	10/02/20 13:15
SG-5 (4.5-7)	20J0228-02	Soil	09/30/20 15:15	10/02/20 13:15
SG-6 (4.5-7)	20J0228-03	Soil	09/30/20 16:10	10/02/20 13:15
SG-7 (4.5-7)	20J0228-04	Soil	09/30/20 16:45	10/02/20 13:15

Case Narrative

Client: Geosyntec Consultants

Date: 05/07/2021

Project: Milw Die Cast

Work Order: 20J0228

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 20J0228

The samples were received on 10/02/20 13:15. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was:

<u>Cooler</u>	<u>Temp C°</u>
Default Cooler	2.4

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

GC-MS Volatiles

8260B_VOC_5035_LOW

B0J0114-BLK1 had a detection of Toluene. The reported samples are "J" flagged below the reporting limit to avoid any false positives and the samples are all well below the regulatory level.

B0J0114-BSD1 recovery and RPD for 2-Butanone were outside of the laboratory control limits. The CCV and LCS recoveries are acceptable. This may be considered a marginal exceedence and samples are non-detected for the compound.

Client Sample Results

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 20J0228

Client Sample ID: SG-1 (6.5-7)
Report Date: 05/07/2021
Collection Date: 09/30/2020 09:45
Matrix: Soil
Lab ID: 20J0228-01

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	91.8	0.100		% (Percent)	0.0240	10/05/20 06:02	BOJ0118	MKP	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5035										
1,1,1,2-Tetrachloroethane	< 0.485	0.970		ug/Kg dry	0.196	10/03/20 00:24	BOJ0114	KS1	1	
1,1,1-Trichloroethane	< 0.485	0.970		ug/Kg dry	0.199	10/03/20 00:24	BOJ0114	KS1	1	
1,1,2,2-Tetrachloroethane	< 0.485	0.970		ug/Kg dry	0.173	10/03/20 00:24	BOJ0114	KS1	1	
1,1,2-Trichloroethane	< 0.485	0.970		ug/Kg dry	0.213	10/03/20 00:24	BOJ0114	KS1	1	
1,1-Dichloroethane	< 0.970	1.94		ug/Kg dry	0.263	10/03/20 00:24	BOJ0114	KS1	1	
1,1-Dichloroethene	< 0.485	0.970		ug/Kg dry	0.210	10/03/20 00:24	BOJ0114	KS1	1	
1,1-Dichloropropene	< 0.970	1.94		ug/Kg dry	0.275	10/03/20 00:24	BOJ0114	KS1	1	
1,2,3-Trichlorobenzene	< 1.94	3.88		ug/Kg dry	0.568	10/03/20 00:24	BOJ0114	KS1	1	
1,2,3-Trichloropropane	< 0.970	1.94		ug/Kg dry	0.237	10/03/20 00:24	BOJ0114	KS1	1	
1,2,4-Trichlorobenzene	< 1.94	3.88		ug/Kg dry	0.519	10/03/20 00:24	BOJ0114	KS1	1	
1,2,4-Trimethylbenzene	< 1.94	3.88		ug/Kg dry	0.523	10/03/20 00:24	BOJ0114	KS1	1	
1,2-Dibromo-3-chloropropane	< 1.94	3.88		ug/Kg dry	0.805	10/03/20 00:24	BOJ0114	KS1	1	
1,2-Dibromoethane	< 0.485	0.970		ug/Kg dry	0.132	10/03/20 00:24	BOJ0114	KS1	1	
1,2-Dichloroethane	< 0.485	0.970		ug/Kg dry	0.199	10/03/20 00:24	BOJ0114	KS1	1	
1,2-Dichloropropane	< 0.485	0.970		ug/Kg dry	0.234	10/03/20 00:24	BOJ0114	KS1	1	
1,3,5-Trimethylbenzene	< 0.970	1.94		ug/Kg dry	0.485	10/03/20 00:24	BOJ0114	KS1	1	
1,3-Dichloropropane	< 0.485	0.970		ug/Kg dry	0.217	10/03/20 00:24	BOJ0114	KS1	1	
2,2-Dichloropropane	< 0.485	0.970		ug/Kg dry	0.161	10/03/20 00:24	BOJ0114	KS1	1	
2-Butanone	< 6.79	13.6	Q	ug/Kg dry	3.30	10/03/20 00:24	BOJ0114	KS1	1	
2-Chlorotoluene	< 0.970	1.94		ug/Kg dry	0.425	10/03/20 00:24	BOJ0114	KS1	1	
2-Hexanone	< 6.79	13.6		ug/Kg dry	2.58	10/03/20 00:24	BOJ0114	KS1	1	
4-Chlorotoluene	< 0.970	1.94		ug/Kg dry	0.425	10/03/20 00:24	BOJ0114	KS1	1	
4-Isopropyltoluene	< 1.94	3.88		ug/Kg dry	0.568	10/03/20 00:24	BOJ0114	KS1	1	
4-Methyl-2-pentanone	< 6.79	13.6		ug/Kg dry	1.98	10/03/20 00:24	BOJ0114	KS1	1	
Acetone	< 13.6	34.0		ug/Kg dry	5.87	10/03/20 00:24	BOJ0114	KS1	1	
Benzene	< 0.485	3.00		ug/Kg dry	0.140	10/03/20 00:24	BOJ0114	KS1	1	
Bromobenzene	< 0.970	1.94		ug/Kg dry	0.273	10/03/20 00:24	BOJ0114	KS1	1	
Bromochloromethane	< 0.970	1.94		ug/Kg dry	0.340	10/03/20 00:24	BOJ0114	KS1	1	
Bromodichloromethane	< 0.485	0.970		ug/Kg dry	0.234	10/03/20 00:24	BOJ0114	KS1	1	
Bromoform	< 0.970	1.94		ug/Kg dry	0.306	10/03/20 00:24	BOJ0114	KS1	1	
Bromomethane	< 3.88	9.70		ug/Kg dry	1.17	10/03/20 00:24	BOJ0114	KS1	1	
Carbon disulfide	< 0.970	1.94		ug/Kg dry	0.292	10/03/20 00:24	BOJ0114	KS1	1	
Carbon tetrachloride	< 0.291	0.970		ug/Kg dry	0.110	10/03/20 00:24	BOJ0114	KS1	1	
Chlorobenzene	< 0.485	0.970		ug/Kg dry	0.126	10/03/20 00:24	BOJ0114	KS1	1	
Chloroethane	< 1.94	3.88		ug/Kg dry	0.686	10/03/20 00:24	BOJ0114	KS1	1	
Chloroform	< 0.970	1.94		ug/Kg dry	0.355	10/03/20 00:24	BOJ0114	KS1	1	
Chloromethane	< 1.94	3.88		ug/Kg dry	0.708	10/03/20 00:24	BOJ0114	KS1	1	
cis-1,2-Dichloroethene	< 0.970	1.94		ug/Kg dry	0.277	10/03/20 00:24	BOJ0114	KS1	1	
cis-1,3-Dichloropropene	< 0.970	1.94		ug/Kg dry	0.336	10/03/20 00:24	BOJ0114	KS1	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants**Project:** Milw Die Cast**Work Order:** 20J0228**Client Sample ID:** SG-1 (6.5-7)**Report Date:** 05/07/2021**Collection Date:** 09/30/2020 09:45**Matrix:** Soil**Lab ID:** 20J0228-01 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5035 (Continued)										
Dibromochloromethane	< 0.485	0.970		ug/Kg dry	0.231	10/03/20 00:24	BOJ0114	KS1	1	
Dibromomethane	< 0.485	0.970		ug/Kg dry	0.178	10/03/20 00:24	BOJ0114	KS1	1	
Dichlorodifluoromethane	< 0.485	0.970		ug/Kg dry	0.179	10/03/20 00:24	BOJ0114	KS1	1	
Ethylbenzene	< 1.94	3.88		ug/Kg dry	0.502	10/03/20 00:24	BOJ0114	KS1	1	
Isopropylbenzene	< 0.970	1.94		ug/Kg dry	0.482	10/03/20 00:24	BOJ0114	KS1	1	
m,p-Xylene	< 1.94	3.88		ug/Kg dry	0.785	10/03/20 00:24	BOJ0114	KS1	1	
Methyl tert-butyl ether	< 0.485	0.970		ug/Kg dry	0.162	10/03/20 00:24	BOJ0114	KS1	1	
Methylene chloride	< 1.94	3.88		ug/Kg dry	0.817	10/03/20 00:24	BOJ0114	KS1	1	
n-Butylbenzene	< 0.970	1.94		ug/Kg dry	0.471	10/03/20 00:24	BOJ0114	KS1	1	
n-Propylbenzene	< 0.970	1.94		ug/Kg dry	0.464	10/03/20 00:24	BOJ0114	KS1	1	
o-Xylene	< 1.94	3.88		ug/Kg dry	0.496	10/03/20 00:24	BOJ0114	KS1	1	
sec-Butylbenzene	< 0.970	1.94		ug/Kg dry	0.476	10/03/20 00:24	BOJ0114	KS1	1	
Styrene	< 1.94	3.88		ug/Kg dry	0.532	10/03/20 00:24	BOJ0114	KS1	1	
tert-Butylbenzene	< 1.94	3.88		ug/Kg dry	0.569	10/03/20 00:24	BOJ0114	KS1	1	
Tetrachloroethene	< 0.970	1.94		ug/Kg dry	0.283	10/03/20 00:24	BOJ0114	KS1	1	
Toluene	< 0.485	4.00		ug/Kg dry	0.175	10/03/20 00:24	BOJ0114	KS1	1	
trans-1,2-Dichloroethene	< 0.970	1.94		ug/Kg dry	0.449	10/03/20 00:24	BOJ0114	KS1	1	
trans-1,3-Dichloropropene	< 0.970	1.94		ug/Kg dry	0.397	10/03/20 00:24	BOJ0114	KS1	1	
Trichloroethene	< 0.485	0.970		ug/Kg dry	0.235	10/03/20 00:24	BOJ0114	KS1	1	
Trichlorofluoromethane	< 0.485	0.970		ug/Kg dry	0.201	10/03/20 00:24	BOJ0114	KS1	1	
Vinyl chloride	< 0.970	1.94		ug/Kg dry	0.347	10/03/20 00:24	BOJ0114	KS1	1	
Xylenes, Total	< 2.91	5.82		ug/Kg dry	1.24	10/03/20 00:24	BOJ0114	KS1	1	
1,3-Dichloropropene, Total	< 1.94	3.88		ug/Kg dry	0.719	10/03/20 00:24	BOJ0114	KS1	1	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 99%</i>	<i>Limits: 86-150</i>	<i>10/03/20 00:24</i>	<i>BOJ0114</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 124%</i>	<i>Limits: 89-150</i>	<i>10/03/20 00:24</i>	<i>BOJ0114</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 102%</i>	<i>Limits: 88-111</i>	<i>10/03/20 00:24</i>	<i>BOJ0114</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 99%</i>	<i>Limits: 66-113</i>	<i>10/03/20 00:24</i>	<i>BOJ0114</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 106%</i>	<i>Limits: 82-137</i>	<i>10/03/20 00:24</i>	<i>BOJ0114</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 109%</i>	<i>Limits: 77-142</i>	<i>10/03/20 00:24</i>	<i>BOJ0114</i>	<i>KS1</i>	<i>1</i>	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 20J0228

Client Sample ID: SG-5 (4.5-7)
Report Date: 05/07/2021
Collection Date: 09/30/2020 15:15
Matrix: Soil
Lab ID: 20J0228-02

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	87.9	0.100		% (Percent)	0.0240	10/05/20 06:04	BOJ0118	MKP	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5035										
1,1,1,2-Tetrachloroethane	< 0.493	0.985		ug/Kg dry	0.200	10/03/20 00:49	BOJ0114	KS1	1	
1,1,1-Trichloroethane	< 0.493	0.985		ug/Kg dry	0.202	10/03/20 00:49	BOJ0114	KS1	1	
1,1,2,2-Tetrachloroethane	< 0.493	0.985		ug/Kg dry	0.176	10/03/20 00:49	BOJ0114	KS1	1	
1,1,2-Trichloroethane	< 0.493	0.985		ug/Kg dry	0.216	10/03/20 00:49	BOJ0114	KS1	1	
1,1-Dichloroethane	< 0.985	1.97		ug/Kg dry	0.267	10/03/20 00:49	BOJ0114	KS1	1	
1,1-Dichloroethene	< 0.493	0.985		ug/Kg dry	0.214	10/03/20 00:49	BOJ0114	KS1	1	
1,1-Dichloropropene	< 0.985	1.97		ug/Kg dry	0.279	10/03/20 00:49	BOJ0114	KS1	1	
1,2,3-Trichlorobenzene	< 1.97	3.94		ug/Kg dry	0.577	10/03/20 00:49	BOJ0114	KS1	1	
1,2,3-Trichloropropane	< 0.985	1.97		ug/Kg dry	0.241	10/03/20 00:49	BOJ0114	KS1	1	
1,2,4-Trichlorobenzene	< 1.97	3.94		ug/Kg dry	0.527	10/03/20 00:49	BOJ0114	KS1	1	
1,2,4-Trimethylbenzene	< 1.97	3.94		ug/Kg dry	0.531	10/03/20 00:49	BOJ0114	KS1	1	
1,2-Dibromo-3-chloropropane	< 1.97	3.94		ug/Kg dry	0.817	10/03/20 00:49	BOJ0114	KS1	1	
1,2-Dibromoethane	< 0.493	0.985		ug/Kg dry	0.134	10/03/20 00:49	BOJ0114	KS1	1	
1,2-Dichloroethane	< 0.493	0.985		ug/Kg dry	0.202	10/03/20 00:49	BOJ0114	KS1	1	
1,2-Dichloropropane	< 0.493	0.985		ug/Kg dry	0.238	10/03/20 00:49	BOJ0114	KS1	1	
1,3,5-Trimethylbenzene	< 0.985	1.97		ug/Kg dry	0.492	10/03/20 00:49	BOJ0114	KS1	1	
1,3-Dichloropropane	< 0.493	0.985		ug/Kg dry	0.220	10/03/20 00:49	BOJ0114	KS1	1	
2,2-Dichloropropane	< 0.493	0.985		ug/Kg dry	0.163	10/03/20 00:49	BOJ0114	KS1	1	
2-Butanone	< 6.90	15.0	Q	ug/Kg dry	3.36	10/03/20 00:49	BOJ0114	KS1	1	
2-Chlorotoluene	< 0.985	1.97		ug/Kg dry	0.432	10/03/20 00:49	BOJ0114	KS1	1	
2-Hexanone	< 6.90	13.8		ug/Kg dry	2.62	10/03/20 00:49	BOJ0114	KS1	1	
4-Chlorotoluene	< 0.985	1.97		ug/Kg dry	0.432	10/03/20 00:49	BOJ0114	KS1	1	
4-Isopropyltoluene	< 1.97	3.94		ug/Kg dry	0.577	10/03/20 00:49	BOJ0114	KS1	1	
4-Methyl-2-pentanone	< 6.90	13.8		ug/Kg dry	2.01	10/03/20 00:49	BOJ0114	KS1	1	
Acetone	< 13.8	34.5		ug/Kg dry	5.96	10/03/20 00:49	BOJ0114	KS1	1	
Benzene	< 0.493	2.00		ug/Kg dry	0.142	10/03/20 00:49	BOJ0114	KS1	1	
Bromobenzene	< 0.985	1.97		ug/Kg dry	0.277	10/03/20 00:49	BOJ0114	KS1	1	
Bromochloromethane	< 0.985	1.97		ug/Kg dry	0.346	10/03/20 00:49	BOJ0114	KS1	1	
Bromodichloromethane	< 0.493	0.985		ug/Kg dry	0.237	10/03/20 00:49	BOJ0114	KS1	1	
Bromoform	< 0.985	1.97		ug/Kg dry	0.310	10/03/20 00:49	BOJ0114	KS1	1	
Bromomethane	< 3.94	9.85		ug/Kg dry	1.18	10/03/20 00:49	BOJ0114	KS1	1	
Carbon disulfide	< 0.985	1.97		ug/Kg dry	0.297	10/03/20 00:49	BOJ0114	KS1	1	
Carbon tetrachloride	< 0.296	0.985		ug/Kg dry	0.112	10/03/20 00:49	BOJ0114	KS1	1	
Chlorobenzene	< 0.493	0.985		ug/Kg dry	0.128	10/03/20 00:49	BOJ0114	KS1	1	
Chloroethane	< 1.97	3.94		ug/Kg dry	0.697	10/03/20 00:49	BOJ0114	KS1	1	
Chloroform	< 0.985	1.97		ug/Kg dry	0.360	10/03/20 00:49	BOJ0114	KS1	1	
Chloromethane	< 1.97	3.94		ug/Kg dry	0.719	10/03/20 00:49	BOJ0114	KS1	1	
cis-1,2-Dichloroethene	< 0.985	1.97		ug/Kg dry	0.281	10/03/20 00:49	BOJ0114	KS1	1	
cis-1,3-Dichloropropene	< 0.985	1.97		ug/Kg dry	0.341	10/03/20 00:49	BOJ0114	KS1	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants**Project:** Milw Die Cast**Work Order:** 20J0228**Client Sample ID:** SG-5 (4.5-7)**Report Date:** 05/07/2021**Collection Date:** 09/30/2020 15:15**Matrix:** Soil**Lab ID:** 20J0228-02 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5035 (Continued)										
Dibromochloromethane	< 0.493	0.985		ug/Kg dry	0.234	10/03/20 00:49	BOJ0114	KS1	1	
Dibromomethane	< 0.493	0.985		ug/Kg dry	0.180	10/03/20 00:49	BOJ0114	KS1	1	
Dichlorodifluoromethane	< 0.493	0.985		ug/Kg dry	0.182	10/03/20 00:49	BOJ0114	KS1	1	
Ethylbenzene	< 1.97	3.94		ug/Kg dry	0.510	10/03/20 00:49	BOJ0114	KS1	1	
Isopropylbenzene	< 0.985	1.97		ug/Kg dry	0.489	10/03/20 00:49	BOJ0114	KS1	1	
m,p-Xylene	< 1.97	3.94		ug/Kg dry	0.797	10/03/20 00:49	BOJ0114	KS1	1	
Methyl tert-butyl ether	< 0.493	0.985		ug/Kg dry	0.165	10/03/20 00:49	BOJ0114	KS1	1	
Methylene chloride	< 1.97	3.94		ug/Kg dry	0.830	10/03/20 00:49	BOJ0114	KS1	1	
n-Butylbenzene	< 0.985	1.97		ug/Kg dry	0.478	10/03/20 00:49	BOJ0114	KS1	1	
n-Propylbenzene	< 0.985	1.97		ug/Kg dry	0.472	10/03/20 00:49	BOJ0114	KS1	1	
o-Xylene	< 1.97	3.94		ug/Kg dry	0.503	10/03/20 00:49	BOJ0114	KS1	1	
sec-Butylbenzene	< 0.985	1.97		ug/Kg dry	0.484	10/03/20 00:49	BOJ0114	KS1	1	
Styrene	< 1.97	3.94		ug/Kg dry	0.541	10/03/20 00:49	BOJ0114	KS1	1	
tert-Butylbenzene	< 1.97	3.94		ug/Kg dry	0.577	10/03/20 00:49	BOJ0114	KS1	1	
Tetrachloroethene	< 0.985	40.0		ug/Kg dry	0.288	10/03/20 00:49	BOJ0114	KS1	1	
Toluene	< 0.493	2.00		ug/Kg dry	0.178	10/03/20 00:49	BOJ0114	KS1	1	
trans-1,2-Dichloroethene	< 0.985	1.97		ug/Kg dry	0.456	10/03/20 00:49	BOJ0114	KS1	1	
trans-1,3-Dichloropropene	< 0.985	1.97		ug/Kg dry	0.403	10/03/20 00:49	BOJ0114	KS1	1	
Trichloroethene	< 0.493	4.00		ug/Kg dry	0.239	10/03/20 00:49	BOJ0114	KS1	1	
Trichlorofluoromethane	< 0.493	0.985		ug/Kg dry	0.204	10/03/20 00:49	BOJ0114	KS1	1	
Vinyl chloride	< 0.985	1.97		ug/Kg dry	0.352	10/03/20 00:49	BOJ0114	KS1	1	
Xylenes, Total	< 2.96	5.91		ug/Kg dry	1.26	10/03/20 00:49	BOJ0114	KS1	1	
1,3-Dichloropropene, Total	< 1.97	3.94		ug/Kg dry	0.730	10/03/20 00:49	BOJ0114	KS1	1	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 96%</i>	<i>Limits: 86-150</i>	<i>10/03/20 00:49</i>	<i>BOJ0114</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 125%</i>	<i>Limits: 89-150</i>	<i>10/03/20 00:49</i>	<i>BOJ0114</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 100%</i>	<i>Limits: 88-111</i>	<i>10/03/20 00:49</i>	<i>BOJ0114</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 102%</i>	<i>Limits: 66-113</i>	<i>10/03/20 00:49</i>	<i>BOJ0114</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 123%</i>	<i>Limits: 82-137</i>	<i>10/03/20 00:49</i>	<i>BOJ0114</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 110%</i>	<i>Limits: 77-142</i>	<i>10/03/20 00:49</i>	<i>BOJ0114</i>	<i>KS1</i>	<i>1</i>	

Client Sample Results

(Continued)

Client: Geosyntec Consultants**Project:** Milw Die Cast**Work Order:** 20J0228**Client Sample ID:** SG-6 (4.5-7)**Report Date:** 05/07/2021**Collection Date:** 09/30/2020 16:10**Matrix:** Soil**Lab ID:** 20J0228-03

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	89.4	0.100		% (Percent)	0.0240	10/05/20 06:06	BOJ0118	MKP	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5035										
1,1,1,2-Tetrachloroethane	< 0.381	0.762		ug/Kg dry	0.154	10/03/20 01:13	BOJ0114	KS1	1	
1,1,1-Trichloroethane	< 0.381	4.00		ug/Kg dry	0.156	10/03/20 01:13	BOJ0114	KS1	1	
1,1,2,2-Tetrachloroethane	< 0.381	0.762		ug/Kg dry	0.136	10/03/20 01:13	BOJ0114	KS1	1	
1,1,2-Trichloroethane	< 0.381	0.762		ug/Kg dry	0.167	10/03/20 01:13	BOJ0114	KS1	1	
1,1-Dichloroethane	< 0.762	10.0		ug/Kg dry	0.207	10/03/20 01:13	BOJ0114	KS1	1	
1,1-Dichloroethene	< 0.381	0.762		ug/Kg dry	0.165	10/03/20 01:13	BOJ0114	KS1	1	
1,1-Dichloropropene	< 0.762	1.52		ug/Kg dry	0.216	10/03/20 01:13	BOJ0114	KS1	1	
1,2,3-Trichlorobenzene	< 1.52	3.05		ug/Kg dry	0.446	10/03/20 01:13	BOJ0114	KS1	1	
1,2,3-Trichloropropane	< 0.762	1.52		ug/Kg dry	0.186	10/03/20 01:13	BOJ0114	KS1	1	
1,2,4-Trichlorobenzene	< 1.52	3.05		ug/Kg dry	0.408	10/03/20 01:13	BOJ0114	KS1	1	
1,2,4-Trimethylbenzene	< 1.52	3.05		ug/Kg dry	0.411	10/03/20 01:13	BOJ0114	KS1	1	
1,2-Dibromo-3-chloropropane	< 1.52	3.05		ug/Kg dry	0.632	10/03/20 01:13	BOJ0114	KS1	1	
1,2-Dibromoethane	< 0.381	0.762		ug/Kg dry	0.104	10/03/20 01:13	BOJ0114	KS1	1	
1,2-Dichloroethane	< 0.381	0.762		ug/Kg dry	0.157	10/03/20 01:13	BOJ0114	KS1	1	
1,2-Dichloropropane	< 0.381	0.762		ug/Kg dry	0.184	10/03/20 01:13	BOJ0114	KS1	1	
1,3,5-Trimethylbenzene	< 0.762	1.52		ug/Kg dry	0.381	10/03/20 01:13	BOJ0114	KS1	1	
1,3-Dichloropropane	< 0.381	0.762		ug/Kg dry	0.170	10/03/20 01:13	BOJ0114	KS1	1	
2,2-Dichloropropane	< 0.381	0.762		ug/Kg dry	0.126	10/03/20 01:13	BOJ0114	KS1	1	
2-Butanone	< 5.34	10.7	Q	ug/Kg dry	2.60	10/03/20 01:13	BOJ0114	KS1	1	
2-Chlorotoluene	< 0.762	1.52		ug/Kg dry	0.334	10/03/20 01:13	BOJ0114	KS1	1	
2-Hexanone	< 5.34	10.7		ug/Kg dry	2.02	10/03/20 01:13	BOJ0114	KS1	1	
4-Chlorotoluene	< 0.762	1.52		ug/Kg dry	0.334	10/03/20 01:13	BOJ0114	KS1	1	
4-Isopropyltoluene	< 1.52	3.05		ug/Kg dry	0.447	10/03/20 01:13	BOJ0114	KS1	1	
4-Methyl-2-pentanone	< 5.34	10.7		ug/Kg dry	1.55	10/03/20 01:13	BOJ0114	KS1	1	
Acetone	< 10.7	26.7		ug/Kg dry	4.61	10/03/20 01:13	BOJ0114	KS1	1	
Benzene	< 0.381	0.762		ug/Kg dry	0.110	10/03/20 01:13	BOJ0114	KS1	1	
Bromobenzene	< 0.762	1.52		ug/Kg dry	0.214	10/03/20 01:13	BOJ0114	KS1	1	
Bromochloromethane	< 0.762	1.52		ug/Kg dry	0.267	10/03/20 01:13	BOJ0114	KS1	1	
Bromodichloromethane	< 0.381	0.762		ug/Kg dry	0.184	10/03/20 01:13	BOJ0114	KS1	1	
Bromoform	< 0.762	1.52		ug/Kg dry	0.240	10/03/20 01:13	BOJ0114	KS1	1	
Bromomethane	< 3.05	7.62		ug/Kg dry	0.916	10/03/20 01:13	BOJ0114	KS1	1	
Carbon disulfide	< 0.762	1.52		ug/Kg dry	0.229	10/03/20 01:13	BOJ0114	KS1	1	
Carbon tetrachloride	< 0.229	0.762		ug/Kg dry	0.0863	10/03/20 01:13	BOJ0114	KS1	1	
Chlorobenzene	< 0.381	0.762		ug/Kg dry	0.0986	10/03/20 01:13	BOJ0114	KS1	1	
Chloroethane	< 1.52	3.05		ug/Kg dry	0.539	10/03/20 01:13	BOJ0114	KS1	1	
Chloroform	< 0.762	1.52		ug/Kg dry	0.279	10/03/20 01:13	BOJ0114	KS1	1	
Chloromethane	< 1.52	3.05		ug/Kg dry	0.556	10/03/20 01:13	BOJ0114	KS1	1	
cis-1,2-Dichloroethene	< 0.762	15.0		ug/Kg dry	0.217	10/03/20 01:13	BOJ0114	KS1	1	
cis-1,3-Dichloropropene	< 0.762	1.52		ug/Kg dry	0.264	10/03/20 01:13	BOJ0114	KS1	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants**Project:** Milw Die Cast**Work Order:** 20J0228**Client Sample ID:** SG-6 (4.5-7)**Report Date:** 05/07/2021**Collection Date:** 09/30/2020 16:10**Matrix:** Soil**Lab ID:** 20J0228-03 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5035 (Continued)										
Dibromochloromethane	< 0.381	0.762		ug/Kg dry	0.181	10/03/20 01:13	BOJ0114	KS1	1	
Dibromomethane	< 0.381	0.762		ug/Kg dry	0.139	10/03/20 01:13	BOJ0114	KS1	1	
Dichlorodifluoromethane	< 0.381	0.762		ug/Kg dry	0.141	10/03/20 01:13	BOJ0114	KS1	1	
Ethylbenzene	< 1.52	3.05		ug/Kg dry	0.394	10/03/20 01:13	BOJ0114	KS1	1	
Isopropylbenzene	< 0.762	1.52		ug/Kg dry	0.379	10/03/20 01:13	BOJ0114	KS1	1	
m,p-Xylene	< 1.52	3.05		ug/Kg dry	0.617	10/03/20 01:13	BOJ0114	KS1	1	
Methyl tert-butyl ether	< 0.381	0.762		ug/Kg dry	0.127	10/03/20 01:13	BOJ0114	KS1	1	
Methylene chloride	< 1.52	3.05		ug/Kg dry	0.642	10/03/20 01:13	BOJ0114	KS1	1	
n-Butylbenzene	< 0.762	1.52		ug/Kg dry	0.370	10/03/20 01:13	BOJ0114	KS1	1	
n-Propylbenzene	< 0.762	1.52		ug/Kg dry	0.365	10/03/20 01:13	BOJ0114	KS1	1	
o-Xylene	< 1.52	3.05		ug/Kg dry	0.389	10/03/20 01:13	BOJ0114	KS1	1	
sec-Butylbenzene	< 0.762	1.52		ug/Kg dry	0.374	10/03/20 01:13	BOJ0114	KS1	1	
Styrene	< 1.52	3.05		ug/Kg dry	0.418	10/03/20 01:13	BOJ0114	KS1	1	
tert-Butylbenzene	< 1.52	3.05		ug/Kg dry	0.447	10/03/20 01:13	BOJ0114	KS1	1	
Tetrachloroethene	< 0.762	1.52		ug/Kg dry	0.223	10/03/20 01:13	BOJ0114	KS1	1	
Toluene	< 0.381	2.00		ug/Kg dry	0.138	10/03/20 01:13	BOJ0114	KS1	1	
trans-1,2-Dichloroethene	< 0.762	1.52		ug/Kg dry	0.353	10/03/20 01:13	BOJ0114	KS1	1	
trans-1,3-Dichloropropene	< 0.762	1.52		ug/Kg dry	0.312	10/03/20 01:13	BOJ0114	KS1	1	
Trichloroethene	< 0.381	5.00		ug/Kg dry	0.185	10/03/20 01:13	BOJ0114	KS1	1	
Trichlorofluoromethane	< 0.381	0.762		ug/Kg dry	0.158	10/03/20 01:13	BOJ0114	KS1	1	
Vinyl chloride	< 0.762	1.52		ug/Kg dry	0.272	10/03/20 01:13	BOJ0114	KS1	1	
Xylenes, Total	< 2.29	4.57		ug/Kg dry	0.976	10/03/20 01:13	BOJ0114	KS1	1	
1,3-Dichloropropene, Total	< 1.52	3.05		ug/Kg dry	0.565	10/03/20 01:13	BOJ0114	KS1	1	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 100%</i>	<i>Limits: 86-150</i>	<i>10/03/20 01:13</i>	<i>BOJ0114</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 130%</i>	<i>Limits: 89-150</i>	<i>10/03/20 01:13</i>	<i>BOJ0114</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 101%</i>	<i>Limits: 88-111</i>	<i>10/03/20 01:13</i>	<i>BOJ0114</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 101%</i>	<i>Limits: 66-113</i>	<i>10/03/20 01:13</i>	<i>BOJ0114</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 116%</i>	<i>Limits: 82-137</i>	<i>10/03/20 01:13</i>	<i>BOJ0114</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 109%</i>	<i>Limits: 77-142</i>	<i>10/03/20 01:13</i>	<i>BOJ0114</i>	<i>KS1</i>	<i>1</i>	

Client Sample Results

(Continued)

Client: Geosyntec Consultants**Project:** Milw Die Cast**Work Order:** 20J0228**Client Sample ID:** SG-7 (4.5-7)**Report Date:** 05/07/2021**Collection Date:** 09/30/2020 16:45**Matrix:** Soil**Lab ID:** 20J0228-04

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	87.1	0.100		% (Percent)	0.0240	10/05/20 06:08	BOJ0118	MKP	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5035										
1,1,1,2-Tetrachloroethane	< 0.509	1.02		ug/Kg dry	0.206	10/03/20 01:38	BOJ0114	KS1	1	
1,1,1-Trichloroethane	< 0.509	1.02		ug/Kg dry	0.208	10/03/20 01:38	BOJ0114	KS1	1	
1,1,2,2-Tetrachloroethane	< 0.509	1.02		ug/Kg dry	0.181	10/03/20 01:38	BOJ0114	KS1	1	
1,1,2-Trichloroethane	< 0.509	1.02		ug/Kg dry	0.223	10/03/20 01:38	BOJ0114	KS1	1	
1,1-Dichloroethane	< 1.02	2.03		ug/Kg dry	0.276	10/03/20 01:38	BOJ0114	KS1	1	
1,1-Dichloroethene	< 0.509	1.02		ug/Kg dry	0.221	10/03/20 01:38	BOJ0114	KS1	1	
1,1-Dichloropropene	< 1.02	2.03		ug/Kg dry	0.288	10/03/20 01:38	BOJ0114	KS1	1	
1,2,3-Trichlorobenzene	< 2.03	4.07		ug/Kg dry	0.595	10/03/20 01:38	BOJ0114	KS1	1	
1,2,3-Trichloropropane	< 1.02	2.03		ug/Kg dry	0.249	10/03/20 01:38	BOJ0114	KS1	1	
1,2,4-Trichlorobenzene	< 2.03	4.07		ug/Kg dry	0.544	10/03/20 01:38	BOJ0114	KS1	1	
1,2,4-Trimethylbenzene	< 2.03	4.07		ug/Kg dry	0.548	10/03/20 01:38	BOJ0114	KS1	1	
1,2-Dibromo-3-chloropropane	< 2.03	4.07		ug/Kg dry	0.844	10/03/20 01:38	BOJ0114	KS1	1	
1,2-Dibromoethane	< 0.509	1.02		ug/Kg dry	0.138	10/03/20 01:38	BOJ0114	KS1	1	
1,2-Dichloroethane	< 0.509	1.02		ug/Kg dry	0.209	10/03/20 01:38	BOJ0114	KS1	1	
1,2-Dichloropropane	< 0.509	1.02		ug/Kg dry	0.246	10/03/20 01:38	BOJ0114	KS1	1	
1,3,5-Trimethylbenzene	< 1.02	2.03		ug/Kg dry	0.508	10/03/20 01:38	BOJ0114	KS1	1	
1,3-Dichloropropane	< 0.509	1.02		ug/Kg dry	0.228	10/03/20 01:38	BOJ0114	KS1	1	
2,2-Dichloropropane	< 0.509	1.02		ug/Kg dry	0.168	10/03/20 01:38	BOJ0114	KS1	1	
2-Butanone	< 7.12	14.2	Q	ug/Kg dry	3.46	10/03/20 01:38	BOJ0114	KS1	1	
2-Chlorotoluene	< 1.02	2.03		ug/Kg dry	0.446	10/03/20 01:38	BOJ0114	KS1	1	
2-Hexanone	< 7.12	14.2		ug/Kg dry	2.70	10/03/20 01:38	BOJ0114	KS1	1	
4-Chlorotoluene	< 1.02	2.03		ug/Kg dry	0.446	10/03/20 01:38	BOJ0114	KS1	1	
4-Isopropyltoluene	< 2.03	4.07		ug/Kg dry	0.596	10/03/20 01:38	BOJ0114	KS1	1	
4-Methyl-2-pentanone	< 7.12	14.2		ug/Kg dry	2.07	10/03/20 01:38	BOJ0114	KS1	1	
Acetone	< 14.2	35.6		ug/Kg dry	6.15	10/03/20 01:38	BOJ0114	KS1	1	
Benzene	< 0.509	2.00		ug/Kg dry	0.147	10/03/20 01:38	BOJ0114	KS1	1	
Bromobenzene	< 1.02	2.03		ug/Kg dry	0.286	10/03/20 01:38	BOJ0114	KS1	1	
Bromochloromethane	< 1.02	2.03		ug/Kg dry	0.357	10/03/20 01:38	BOJ0114	KS1	1	
Bromodichloromethane	< 0.509	1.02		ug/Kg dry	0.245	10/03/20 01:38	BOJ0114	KS1	1	
Bromoform	< 1.02	2.03		ug/Kg dry	0.320	10/03/20 01:38	BOJ0114	KS1	1	
Bromomethane	< 4.07	10.2		ug/Kg dry	1.22	10/03/20 01:38	BOJ0114	KS1	1	
Carbon disulfide	< 1.02	2.03		ug/Kg dry	0.306	10/03/20 01:38	BOJ0114	KS1	1	
Carbon tetrachloride	< 0.305	1.02		ug/Kg dry	0.115	10/03/20 01:38	BOJ0114	KS1	1	
Chlorobenzene	< 0.509	1.02		ug/Kg dry	0.132	10/03/20 01:38	BOJ0114	KS1	1	
Chloroethane	< 2.03	4.07		ug/Kg dry	0.719	10/03/20 01:38	BOJ0114	KS1	1	
Chloroform	< 1.02	2.03		ug/Kg dry	0.372	10/03/20 01:38	BOJ0114	KS1	1	
Chloromethane	< 2.03	4.07		ug/Kg dry	0.743	10/03/20 01:38	BOJ0114	KS1	1	
cis-1,2-Dichloroethene	< 1.02	20.0		ug/Kg dry	0.290	10/03/20 01:38	BOJ0114	KS1	1	
cis-1,3-Dichloropropene	< 1.02	2.03		ug/Kg dry	0.352	10/03/20 01:38	BOJ0114	KS1	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants**Project:** Milw Die Cast**Work Order:** 20J0228**Client Sample ID:** SG-7 (4.5-7)**Report Date:** 05/07/2021**Collection Date:** 09/30/2020 16:45**Matrix:** Soil**Lab ID:** 20J0228-04 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5035 (Continued)										
Dibromochloromethane	< 0.509	1.02		ug/Kg dry	0.242	10/03/20 01:38	BOJ0114	KS1	1	
Dibromomethane	< 0.509	1.02		ug/Kg dry	0.186	10/03/20 01:38	BOJ0114	KS1	1	
Dichlorodifluoromethane	< 0.509	1.02		ug/Kg dry	0.188	10/03/20 01:38	BOJ0114	KS1	1	
Ethylbenzene	< 2.03	4.07		ug/Kg dry	0.526	10/03/20 01:38	BOJ0114	KS1	1	
Isopropylbenzene	< 1.02	2.03		ug/Kg dry	0.505	10/03/20 01:38	BOJ0114	KS1	1	
m,p-Xylene	< 2.03	4.07		ug/Kg dry	0.823	10/03/20 01:38	BOJ0114	KS1	1	
Methyl tert-butyl ether	< 0.509	1.02		ug/Kg dry	0.170	10/03/20 01:38	BOJ0114	KS1	1	
Methylene chloride	< 2.03	4.07		ug/Kg dry	0.857	10/03/20 01:38	BOJ0114	KS1	1	
n-Butylbenzene	< 1.02	2.03		ug/Kg dry	0.493	10/03/20 01:38	BOJ0114	KS1	1	
n-Propylbenzene	< 1.02	2.03		ug/Kg dry	0.487	10/03/20 01:38	BOJ0114	KS1	1	
o-Xylene	< 2.03	4.07		ug/Kg dry	0.520	10/03/20 01:38	BOJ0114	KS1	1	
sec-Butylbenzene	< 1.02	2.03		ug/Kg dry	0.499	10/03/20 01:38	BOJ0114	KS1	1	
Styrene	< 2.03	4.07		ug/Kg dry	0.558	10/03/20 01:38	BOJ0114	KS1	1	
tert-Butylbenzene	< 2.03	4.07		ug/Kg dry	0.596	10/03/20 01:38	BOJ0114	KS1	1	
Tetrachloroethene	< 1.02	2.03		ug/Kg dry	0.297	10/03/20 01:38	BOJ0114	KS1	1	
Toluene	< 0.509	2.00		ug/Kg dry	0.184	10/03/20 01:38	BOJ0114	KS1	1	
trans-1,2-Dichloroethene	< 1.02	2.03		ug/Kg dry	0.471	10/03/20 01:38	BOJ0114	KS1	1	
trans-1,3-Dichloropropene	< 1.02	2.03		ug/Kg dry	0.416	10/03/20 01:38	BOJ0114	KS1	1	
Trichloroethene	< 0.509	1.02		ug/Kg dry	0.247	10/03/20 01:38	BOJ0114	KS1	1	
Trichlorofluoromethane	< 0.509	1.02		ug/Kg dry	0.211	10/03/20 01:38	BOJ0114	KS1	1	
Vinyl chloride	< 1.02	2.03		ug/Kg dry	0.363	10/03/20 01:38	BOJ0114	KS1	1	
Xylenes, Total	< 3.05	6.10		ug/Kg dry	1.30	10/03/20 01:38	BOJ0114	KS1	1	
1,3-Dichloropropene, Total	< 2.03	4.07		ug/Kg dry	0.754	10/03/20 01:38	BOJ0114	KS1	1	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 99%</i>	<i>Limits: 86-150</i>	<i>10/03/20 01:38</i>	<i>BOJ0114</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 123%</i>	<i>Limits: 89-150</i>	<i>10/03/20 01:38</i>	<i>BOJ0114</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 101%</i>	<i>Limits: 88-111</i>	<i>10/03/20 01:38</i>	<i>BOJ0114</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 100%</i>	<i>Limits: 66-113</i>	<i>10/03/20 01:38</i>	<i>BOJ0114</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 99%</i>	<i>Limits: 82-137</i>	<i>10/03/20 01:38</i>	<i>BOJ0114</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 102%</i>	<i>Limits: 77-142</i>	<i>10/03/20 01:38</i>	<i>BOJ0114</i>	<i>KS1</i>	<i>1</i>	

Dates Report

Client: Geosyntec Consultants

Report Date: 05/07/2021

Project: Milw Die Cast

Work Order: 20J0228

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
20J0228-01	SG-1 (6.5-7)	09/30/20	Soil	Volatile Organic Compounds by GC/MS		10/02/20 17:39	10/03/20 00:24	B0J0114	S0J0045
				Total Solids / Percent Moisture		10/05/20 05:39	10/05/20 06:02	B0J0118	
20J0228-02	SG-5 (4.5-7)	09/30/20		Volatile Organic Compounds by GC/MS		10/02/20 17:39	10/03/20 00:49	B0J0114	S0J0045
				Total Solids / Percent Moisture		10/05/20 05:39	10/05/20 06:04	B0J0118	
20J0228-03	SG-6 (4.5-7)	09/30/20		Volatile Organic Compounds by GC/MS		10/02/20 17:39	10/03/20 01:13	B0J0114	S0J0045
				Total Solids / Percent Moisture		10/05/20 05:39	10/05/20 06:06	B0J0118	
20J0228-04	SG-7 (4.5-7)	09/30/20		Volatile Organic Compounds by GC/MS		10/02/20 17:39	10/03/20 01:38	B0J0114	S0J0045
				Total Solids / Percent Moisture		10/05/20 05:39	10/05/20 06:08	B0J0118	

Quality Control

Client: Geosyntec DoD
Project: Milw Die Cast

Report Date: 05/07/2021
Matrix: Solid

Work Order: 20J0228

Wet Chemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0J0118

Blank (B0J0118-BLK1)

Prepared: 10/05/2020 05:39 Analyzed: 10/05/2020 06:24

Total Solids	<0.0500	0.100	%								1
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LCS (B0J0118-BS1)

Prepared: 10/05/2020 05:39 Analyzed: 10/05/2020 06:26

Total Solids	0.193	0.100	%	0.2043		94.5	84.9-98.8				1
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Duplicate (B0J0118-DUP1)

Source: 20J0229-01

Prepared: 10/05/2020 05:39 Analyzed: 10/05/2020 06:28

Total Solids	76.5	0.100	%		76.8			0.481	5		1
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Duplicate (B0J0118-DUP2)

Source: 20J0232-03

Prepared: 10/05/2020 05:39 Analyzed: 10/05/2020 06:30

Total Solids	71.0	0.100	%		71.7			0.971	5		1
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Quality Control

(Continued)

Client: Geosyntec DoD**Report Date:** 05/07/2021**Project:** Milw Die Cast**Matrix:** Solid**Work Order:** 20J0228**Volatile Organic Compounds by GC/MS**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0J0114 - SW5035**Blank (B0J0114-BLK1)**

Prepared: 10/02/2020 17:39 Analyzed: 10/02/2020 23:35

1,1,1,2-Tetrachloroethane	<1.00	2.00	ug/Kg wet								1
1,1,1-Trichloroethane	<1.00	2.00	ug/Kg wet								1
1,1,2,2-Tetrachloroethane	<1.00	2.00	ug/Kg wet								1
1,1,2-Trichloroethane	<1.00	2.00	ug/Kg wet								1
1,1-Dichloroethane	<2.00	4.00	ug/Kg wet								1
1,1-Dichloroethene	<1.00	2.00	ug/Kg wet								1
1,1-Dichloropropene	<2.00	4.00	ug/Kg wet								1
1,2,3-Trichlorobenzene	<4.00	8.00	ug/Kg wet								1
1,2,3-Trichloropropane	<2.00	4.00	ug/Kg wet								1
1,2,4-Trichlorobenzene	<4.00	8.00	ug/Kg wet								1
1,2,4-Trimethylbenzene	<4.00	8.00	ug/Kg wet								1
1,2-Dibromo-3-chloropropane	<4.00	8.00	ug/Kg wet								1
1,2-Dibromoethane	<1.00	2.00	ug/Kg wet								1
1,2-Dichloroethane	<1.00	2.00	ug/Kg wet								1
1,2-Dichloropropane	<1.00	2.00	ug/Kg wet								1
1,3,5-Trimethylbenzene	<2.00	4.00	ug/Kg wet								1
1,3-Dichloropropane	<1.00	2.00	ug/Kg wet								1
1-Butanol	<100	200	ug/Kg wet								1
2,2-Dichloropropane	<1.00	2.00	ug/Kg wet								1
2-Butanone	<14.0	28.0	ug/Kg wet								1
2-Chlorotoluene	<2.00	4.00	ug/Kg wet								1
2-Hexanone	<14.0	28.0	ug/Kg wet								1
4-Chlorotoluene	<2.00	4.00	ug/Kg wet								1
4-Isopropyltoluene	<4.00	8.00	ug/Kg wet								1
4-Methyl-2-pentanone	<14.0	28.0	ug/Kg wet								1
Acetone	<28.0	70.0	ug/Kg wet								1
Benzene	<1.00	2.00	ug/Kg wet								1
Bromobenzene	<2.00	4.00	ug/Kg wet								1
Bromochloromethane	<2.00	4.00	ug/Kg wet								1
Bromodichloromethane	<1.00	2.00	ug/Kg wet								1
Bromoform	<2.00	4.00	ug/Kg wet								1
Bromomethane	<8.00	20.0	ug/Kg wet								1
Carbon disulfide	<2.00	4.00	ug/Kg wet								1
Carbon tetrachloride	<0.600	2.00	ug/Kg wet								1
Chlorobenzene	<1.00	2.00	ug/Kg wet								1
Chloroethane	<4.00	8.00	ug/Kg wet								1
Chloroform	<2.00	4.00	ug/Kg wet								1
Chloromethane	<4.00	8.00	ug/Kg wet								1
cis-1,2-Dichloroethene	<2.00	4.00	ug/Kg wet								1
cis-1,3-Dichloropropene	<2.00	4.00	ug/Kg wet								1
Dibromochloromethane	<1.00	2.00	ug/Kg wet								1
Dibromomethane	<1.00	2.00	ug/Kg wet								1

Quality Control

(Continued)

Client: Geosyntec DoD

Report Date: 05/07/2021

Project: Milw Die Cast

Matrix: Solid

Work Order: 20J0228

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0J0114 - SW5035 (Continued)**Blank (B0J0114-BLK1) (Continued)**

Prepared: 10/02/2020 17:39 Analyzed: 10/02/2020 23:35

Dichlorodifluoromethane	<1.00	2.00	ug/Kg wet								1
Ethylbenzene	<4.00	8.00	ug/Kg wet								1
Isopropylbenzene	<2.00	4.00	ug/Kg wet								1
m,p-Xylene	<4.00	8.00	ug/Kg wet								1
Methyl tert-butyl ether	<1.00	2.00	ug/Kg wet								1
Methylene chloride	<4.00	8.00	ug/Kg wet								1
n-Butylbenzene	<2.00	4.00	ug/Kg wet								1
n-Propylbenzene	<2.00	4.00	ug/Kg wet								1
o-Xylene	<4.00	8.00	ug/Kg wet								1
sec-Butylbenzene	<2.00	4.00	ug/Kg wet								1
Styrene	<4.00	8.00	ug/Kg wet								1
tert-Butylbenzene	<4.00	8.00	ug/Kg wet								1
Tetrachloroethene	<2.00	4.00	ug/Kg wet								1
Toluene	<1.00	2.00	ug/Kg wet								1
trans-1,2-Dichloroethene	<2.00	4.00	ug/Kg wet								1
trans-1,3-Dichloropropene	<2.00	4.00	ug/Kg wet								1
Trichloroethene	<1.00	2.00	ug/Kg wet								1
Trichlorofluoromethane	<1.00	2.00	ug/Kg wet								1
Vinyl acetate	<8.00	20.0	ug/Kg wet								1
Vinyl chloride	<2.00	4.00	ug/Kg wet								1
Xylenes, Total	<6.00	12.0	ug/Kg wet								1
1,3-Dichloropropene, Total	<4.00	8.00	ug/Kg wet								1

Surrogate: Dibromofluoromethane	21.0		ug/Kg	20.00		105	86-150				1
Surrogate: 1,2-Dichloroethane-d4	22.8		ug/Kg	20.00		114	89-150				1
Surrogate: Fluorobenzene	20.1		ug/Kg	20.00		100	88-111				1
Surrogate: Toluene-d8	20.0		ug/Kg	20.00		100	66-113				1
Surrogate: 4-Bromofluorobenzene	9.88		ug/Kg	10.00		99	82-137				1
Surrogate: 1,2-Dichlorobenzene-d4	20.6		ug/Kg	20.00		103	77-142				1

LCS (B0J0114-BS1)

Prepared: 10/02/2020 17:39 Analyzed: 10/02/2020 22:08

1,1,1,2-Tetrachloroethane	39.7	2.00	ug/Kg wet	40.00		99	78-125				1
1,1,1-Trichloroethane	42.2	2.00	ug/Kg wet	40.00		106	73-113				1
1,1,2,2-Tetrachloroethane	37.5	2.00	ug/Kg wet	40.00		94	70-124				1
1,1,2-Trichloroethane	40.2	2.00	ug/Kg wet	40.00		101	78-121				1
1,1-Dichloroethane	41.5	4.00	ug/Kg wet	40.00		104	76-125				1
1,1-Dichloroethene	39.8	2.00	ug/Kg wet	40.00		100	70-131				1
1,1-Dichloropropene	42.0	4.00	ug/Kg wet	40.00		105	76-125				1
1,2,3-Trichlorobenzene	36.9	8.00	ug/Kg wet	40.00		92	66-130				1
1,2,3-Trichloropropane	37.7	4.00	ug/Kg wet	40.00		94	73-125				1
1,2,4-Trichlorobenzene	39.5	8.00	ug/Kg wet	40.00		99	67-129				1
1,2,4-Trimethylbenzene	40.8	8.00	ug/Kg wet	40.00		102	75-123				1
1,2-Dibromo-3-chloropropane	39.2	8.00	ug/Kg wet	40.00		98	69-128				1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast

Report Date: 05/07/2021
Matrix: Solid

Work Order: 20J0228**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0J0114 - SW5035 (Continued)**LCS (B0J0114-BS1)** (Continued)

Prepared: 10/02/2020 17:39 Analyzed: 10/02/2020 22:08

1,2-Dibromoethane	40.2	2.00	ug/Kg wet	40.00		101	78-122				1
1,2-Dichloroethane	41.5	2.00	ug/Kg wet	40.00		104	73-128				1
1,2-Dichloropropane	40.2	2.00	ug/Kg wet	40.00		101	76-123				1
1,3,5-Trimethylbenzene	40.0	4.00	ug/Kg wet	40.00		100	71-128				1
1,3-Dichloropropane	41.6	2.00	ug/Kg wet	40.00		104	77-121				1
1-Butanol	363	200	ug/Kg wet	400.0		91	70-130				1
2,2-Dichloropropane	41.8	2.00	ug/Kg wet	40.00		104	67-133				1
2-Butanone	145	28.0	ug/Kg wet	140.0		104	66-147				1
2-Chlorotoluene	38.1	4.00	ug/Kg wet	40.00		95	75-122				1
2-Hexanone	148	28.0	ug/Kg wet	140.0		106	60-145				1
4-Chlorotoluene	39.4	4.00	ug/Kg wet	40.00		99	72-124				1
4-Isopropyltoluene	39.7	8.00	ug/Kg wet	40.00		99	73-127				1
4-Methyl-2-pentanone	135	28.0	ug/Kg wet	140.0		96	65-135				1
Acetone	166	70.0	ug/Kg wet	140.0		118	36-164				1
Benzene	39.8	2.00	ug/Kg wet	40.00		100	77-121				1
Bromobenzene	37.1	4.00	ug/Kg wet	40.00		93	78-121				1
Bromochloromethane	39.3	4.00	ug/Kg wet	40.00		98	78-125				1
Bromodichloromethane	39.7	2.00	ug/Kg wet	40.00		99	75-127				1
Bromoform	37.2	4.00	ug/Kg wet	40.00		93	67-132				1
Bromomethane	41.7	20.0	ug/Kg wet	40.00		104	53-143				1
Carbon disulfide	37.8	4.00	ug/Kg wet	40.00		94	63-132				1
Carbon tetrachloride	42.3	2.00	ug/Kg wet	40.00		106	70-135				1
Chlorobenzene	39.4	2.00	ug/Kg wet	40.00		99	73-123				1
Chloroethane	37.1	8.00	ug/Kg wet	40.00		93	59-139				1
Chloroform	41.1	4.00	ug/Kg wet	40.00		103	73-127				1
Chloromethane	39.1	8.00	ug/Kg wet	40.00		98	50-136				1
cis-1,2-Dichloroethene	40.1	4.00	ug/Kg wet	40.00		100	77-123				1
cis-1,3-Dichloropropene	38.4	4.00	ug/Kg wet	40.00		96	74-126				1
Dibromochloromethane	39.1	2.00	ug/Kg wet	40.00		98	74-126				1
Dibromomethane	41.0	2.00	ug/Kg wet	40.00		102	78-125				1
Dichlorodifluoromethane	37.9	2.00	ug/Kg wet	40.00		95	29-149				1
Ethylbenzene	40.5	8.00	ug/Kg wet	40.00		101	76-122				1
Isopropylbenzene	38.2	4.00	ug/Kg wet	40.00		96	68-134				1
m,p-Xylene	82.2	8.00	ug/Kg wet	80.00		103	77-124				1
Methyl tert-butyl ether	39.5	2.00	ug/Kg wet	40.00		99	73-118				1
Methylene chloride	45.3	8.00	ug/Kg wet	40.00		113	70-128				1
n-Butylbenzene	40.9	4.00	ug/Kg wet	40.00		102	70-128				1
n-Propylbenzene	40.4	4.00	ug/Kg wet	40.00		101	73-125				1
o-Xylene	37.5	8.00	ug/Kg wet	40.00		94	77-123				1
sec-Butylbenzene	39.5	4.00	ug/Kg wet	40.00		99	73-126				1
Styrene	39.2	8.00	ug/Kg wet	40.00		98	76-124				1
tert-Butylbenzene	39.8	8.00	ug/Kg wet	40.00		99	73-125				1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast

Report Date: 05/07/2021
Matrix: Solid

Work Order: 20J0228**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0J0114 - SW5035 (Continued)**LCS (B0J0114-BS1) (Continued)**

Prepared: 10/02/2020 17:39 Analyzed: 10/02/2020 22:08

Tetrachloroethene	41.0	4.00	ug/Kg wet	40.00		103	73-125				1
Toluene	39.4	2.00	ug/Kg wet	40.00		98	77-121				1
trans-1,2-Dichloroethene	40.9	4.00	ug/Kg wet	40.00		102	74-125				1
trans-1,3-Dichloropropene	38.7	4.00	ug/Kg wet	40.00		97	71-130				1
Trichloroethene	40.4	2.00	ug/Kg wet	40.00		101	72-126				1
Trichlorofluoromethane	38.9	2.00	ug/Kg wet	40.00		97	62-140				1
Vinyl acetate	41.5	20.0	ug/Kg wet	40.00		104	50-151				1
Vinyl chloride	39.2	4.00	ug/Kg wet	40.00		98	56-135				1
Xylenes, Total	120	12.0	ug/Kg wet	120.0		100	78-124				1
1,3-Dichloropropene, Total	77.1	8.00	ug/Kg wet	80.00		96	77-126				1
<i>Surrogate: Dibromofluoromethane</i>	<i>21.4</i>		<i>ug/Kg</i>	<i>20.00</i>		<i>107</i>	<i>86-150</i>				<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>21.0</i>		<i>ug/Kg</i>	<i>20.00</i>		<i>105</i>	<i>89-150</i>				<i>1</i>
<i>Surrogate: Fluorobenzene</i>	<i>19.9</i>		<i>ug/Kg</i>	<i>20.00</i>		<i>99</i>	<i>88-111</i>				<i>1</i>
<i>Surrogate: Toluene-d8</i>	<i>20.0</i>		<i>ug/Kg</i>	<i>20.00</i>		<i>100</i>	<i>66-113</i>				<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>9.88</i>		<i>ug/Kg</i>	<i>10.00</i>		<i>99</i>	<i>82-137</i>				<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>19.7</i>		<i>ug/Kg</i>	<i>20.00</i>		<i>98</i>	<i>77-142</i>				<i>1</i>

LCS Dup (B0J0114-BSD1)

Prepared: 10/02/2020 17:39 Analyzed: 10/02/2020 22:33

1,1,1,2-Tetrachloroethane	39.9	2.00	ug/Kg wet	40.00		100	78-125	0.4	20		1
1,1,1-Trichloroethane	41.2	2.00	ug/Kg wet	40.00		103	73-113	3	20		1
1,1,2,2-Tetrachloroethane	39.3	2.00	ug/Kg wet	40.00		98	70-124	5	20		1
1,1,2-Trichloroethane	39.5	2.00	ug/Kg wet	40.00		99	78-121	2	20		1
1,1-Dichloroethane	41.2	4.00	ug/Kg wet	40.00		103	76-125	0.8	20		1
1,1-Dichloroethene	40.2	2.00	ug/Kg wet	40.00		101	70-131	1	20		1
1,1-Dichloropropene	41.4	4.00	ug/Kg wet	40.00		104	76-125	1	20		1
1,2,3-Trichlorobenzene	40.0	8.00	ug/Kg wet	40.00		100	66-130	8	20		1
1,2,3-Trichloropropane	39.1	4.00	ug/Kg wet	40.00		98	73-125	4	20		1
1,2,4-Trichlorobenzene	42.6	8.00	ug/Kg wet	40.00		106	67-129	7	20		1
1,2,4-Trimethylbenzene	41.9	8.00	ug/Kg wet	40.00		105	75-123	3	20		1
1,2-Dibromo-3-chloropropane	39.8	8.00	ug/Kg wet	40.00		100	69-128	2	20		1
1,2-Dibromoethane	41.7	2.00	ug/Kg wet	40.00		104	78-122	4	20		1
1,2-Dichloroethane	40.5	2.00	ug/Kg wet	40.00		101	73-128	2	20		1
1,2-Dichloropropane	40.2	2.00	ug/Kg wet	40.00		101	76-123	0	20		1
1,3,5-Trimethylbenzene	41.4	4.00	ug/Kg wet	40.00		103	71-128	3	20		1
1,3-Dichloropropane	43.1	2.00	ug/Kg wet	40.00		108	77-121	4	20		1
1-Butanol	379	200	ug/Kg wet	400.0		95	70-130	4	20		1
2,2-Dichloropropane	40.2	2.00	ug/Kg wet	40.00		100	67-133	4	20		1
2-Butanone	69.2	28.0	ug/Kg wet	140.0		49	66-147	71	20	P, S	1
2-Chlorotoluene	39.9	4.00	ug/Kg wet	40.00		100	75-122	5	20		1
2-Hexanone	150	28.0	ug/Kg wet	140.0		107	60-145	1	20		1
4-Chlorotoluene	41.1	4.00	ug/Kg wet	40.00		103	72-124	4	20		1
4-Isopropyltoluene	41.4	8.00	ug/Kg wet	40.00		104	73-127	4	20		1

Quality Control

(Continued)

Client: Geosyntec DoD

Report Date: 05/07/2021

Project: Milw Die Cast

Matrix: Solid

Work Order: 20J0228

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0J0114 - SW5035 (Continued)

LCS Dup (B0J0114-BSD1) (Continued)

Prepared: 10/02/2020 17:39 Analyzed: 10/02/2020 22:33

4-Methyl-2-pentanone	137	28.0	ug/Kg wet	140.0		98	65-135	2	20		1
Acetone	166	70.0	ug/Kg wet	140.0		119	36-164	0.1	20		1
Benzene	40.2	2.00	ug/Kg wet	40.00		101	77-121	1	20		1
Bromobenzene	39.5	4.00	ug/Kg wet	40.00		99	78-121	6	20		1
Bromochloromethane	39.1	4.00	ug/Kg wet	40.00		98	78-125	0.5	20		1
Bromodichloromethane	40.2	2.00	ug/Kg wet	40.00		100	75-127	1	20		1
Bromoform	37.4	4.00	ug/Kg wet	40.00		94	67-132	0.4	20		1
Bromomethane	40.5	20.0	ug/Kg wet	40.00		101	53-143	3	20		1
Carbon disulfide	36.8	4.00	ug/Kg wet	40.00		92	63-132	3	20		1
Carbon tetrachloride	42.2	2.00	ug/Kg wet	40.00		105	70-135	0.4	20		1
Chlorobenzene	40.5	2.00	ug/Kg wet	40.00		101	73-123	3	20		1
Chloroethane	36.5	8.00	ug/Kg wet	40.00		91	59-139	2	20		1
Chloroform	40.9	4.00	ug/Kg wet	40.00		102	73-127	0.5	20		1
Chloromethane	38.8	8.00	ug/Kg wet	40.00		97	50-136	0.9	20		1
cis-1,2-Dichloroethene	41.4	4.00	ug/Kg wet	40.00		103	77-123	3	20		1
cis-1,3-Dichloropropene	39.5	4.00	ug/Kg wet	40.00		99	74-126	3	20		1
Dibromochloromethane	39.0	2.00	ug/Kg wet	40.00		97	74-126	0.4	20		1
Dibromomethane	40.5	2.00	ug/Kg wet	40.00		101	78-125	1	20		1
Dichlorodifluoromethane	36.9	2.00	ug/Kg wet	40.00		92	29-149	3	20		1
Ethylbenzene	40.9	8.00	ug/Kg wet	40.00		102	76-122	1	20		1
Isopropylbenzene	40.0	4.00	ug/Kg wet	40.00		100	68-134	4	20		1
m,p-Xylene	83.7	8.00	ug/Kg wet	80.00		105	77-124	2	20		1
Methyl tert-butyl ether	39.9	2.00	ug/Kg wet	40.00		100	73-118	1	20		1
Methylene chloride	45.4	8.00	ug/Kg wet	40.00		113	70-128	0.2	20		1
n-Butylbenzene	43.0	4.00	ug/Kg wet	40.00		107	70-128	5	20		1
n-Propylbenzene	42.2	4.00	ug/Kg wet	40.00		105	73-125	4	20		1
o-Xylene	39.7	8.00	ug/Kg wet	40.00		99	77-123	6	20		1
sec-Butylbenzene	41.4	4.00	ug/Kg wet	40.00		103	73-126	5	20		1
Styrene	39.8	8.00	ug/Kg wet	40.00		100	76-124	1	20		1
tert-Butylbenzene	41.3	8.00	ug/Kg wet	40.00		103	73-125	4	20		1
Tetrachloroethene	42.2	4.00	ug/Kg wet	40.00		106	73-125	3	20		1
Toluene	40.2	2.00	ug/Kg wet	40.00		101	77-121	2	20		1
trans-1,2-Dichloroethene	40.3	4.00	ug/Kg wet	40.00		101	74-125	1	20		1
trans-1,3-Dichloropropene	39.2	4.00	ug/Kg wet	40.00		98	71-130	1	20		1
Trichloroethene	40.7	2.00	ug/Kg wet	40.00		102	72-126	0.7	20		1
Trichlorofluoromethane	38.3	2.00	ug/Kg wet	40.00		96	62-140	2	20		1
Vinyl acetate	41.9	20.0	ug/Kg wet	40.00		105	50-151	0.8	20		1
Vinyl chloride	38.4	4.00	ug/Kg wet	40.00		96	56-135	2	20		1
Xylenes, Total	123	12.0	ug/Kg wet	120.0		103	78-124	3	20		1
1,3-Dichloropropene, Total	78.7	8.00	ug/Kg wet	80.00		98	77-126	2	20		1
Surrogate: Dibromofluoromethane	20.6		ug/Kg	20.00		103	86-150				1
Surrogate: 1,2-Dichloroethane-d4	20.5		ug/Kg	20.00		103	89-150				1

Quality Control

(Continued)

Client: Geosyntec DoD

Report Date: 05/07/2021

Project: Milw Die Cast

Matrix: Solid

Work Order: 20J0228

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0J0114 - SW5035 (Continued)
LCS Dup (B0J0114-BSD1) (Continued)

Prepared: 10/02/2020 17:39 Analyzed: 10/02/2020 22:33

Surrogate: Fluorobenzene	20.1		ug/Kg	20.00		100	88-111				1
Surrogate: Toluene-d8	19.8		ug/Kg	20.00		99	66-113				1
Surrogate: 4-Bromofluorobenzene	10.1		ug/Kg	10.00		101	82-137				1
Surrogate: 1,2-Dichlorobenzene-d4	20.1		ug/Kg	20.00		100	77-142				1

Certified Analyses included in this Report

Analyte	CAS #	Certifications
SM2540G in Solid		
Total Solids	Moist	WDNR,DoD
SW8260B in Solid		
1,1,1,2-Tetrachloroethane	630-20-6	WDNR,DoD,ILEPA
1,1,1-Trichloroethane	71-55-6	AKDEC,WDNR,DoD,ILEPA
1,1,2,2-Tetrachloroethane	79-34-5	AKDEC,WDNR,DoD,ILEPA
1,1,2-Trichloroethane	79-00-5	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloroethane	75-34-3	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloroethene	75-35-4	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloropropene	563-58-6	WDNR,DoD,ILEPA
1,2,3-Trichlorobenzene	87-61-6	WDNR,DoD,ILEPA
1,2,3-Trichloropropane	96-18-4	AKDEC,WDNR,DoD,ILEPA
1,2,4-Trichlorobenzene	120-82-1	WDNR,DoD,ILEPA
1,2,4-Trimethylbenzene	95-63-6	WDNR,DoD,ILEPA
1,2-Dibromo-3-chloropropane	96-12-8	AKDEC,WDNR,DoD,ILEPA
1,2-Dibromoethane	106-93-4	AKDEC,WDNR,DoD,ILEPA
1,2-Dichloroethane	107-06-2	AKDEC,WDNR,DoD,ILEPA
1,2-Dichloropropane	78-87-5	AKDEC,WDNR,DoD,ILEPA
1,3,5-Trimethylbenzene	108-67-8	WDNR,DoD,ILEPA
1,3-Dichloropropane	142-28-9	WDNR,DoD,ILEPA
2,2-Dichloropropane	594-20-7	WDNR,DoD,ILEPA
2-Butanone	78-93-3	WDNR,DoD,ILEPA
2-Chlorotoluene	95-49-8	WDNR,DoD,ILEPA
2-Hexanone	591-78-6	WDNR,DoD,ILEPA
4-Chlorotoluene	106-43-4	WDNR,DoD,ILEPA
4-Isopropyltoluene	99-87-6	WDNR,DoD,ILEPA
4-Methyl-2-pentanone	108-10-1	WDNR,DoD,ILEPA
Acetone	67-64-1	WDNR,DoD,ILEPA
Benzene	71-43-2	WDNR,DoD,ILEPA
Bromobenzene	108-86-1	WDNR,DoD,ILEPA
Bromochloromethane	74-97-5	WDNR,DoD,ILEPA
Bromodichloromethane	75-27-4	AKDEC,WDNR,DoD,ILEPA
Bromoform	75-25-2	AKDEC,WDNR,DoD,ILEPA
Bromomethane	74-83-9	AKDEC,WDNR,DoD,ILEPA
Carbon disulfide	75-15-0	WDNR,DoD,ILEPA
Carbon tetrachloride	56-23-5	AKDEC,WDNR,DoD,ILEPA
Chlorobenzene	108-90-7	AKDEC,WDNR,DoD,ILEPA
Chloroethane	75-00-3	WDNR,DoD,ILEPA
Chloroform	67-66-3	AKDEC,WDNR,DoD,ILEPA
Chloromethane	74-87-3	AKDEC,WDNR,DoD,ILEPA
cis-1,2-Dichloroethene	156-59-2	WDNR,DoD,ILEPA

Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW8260B in Solid (Continued)		
cis-1,3-Dichloropropene	10061-01-5	AKDEC,WDNR,DoD,ILEPA
Dibromochloromethane	124-48-1	AKDEC,WDNR,DoD,ILEPA
Dibromomethane	74-95-3	WDNR,DoD,ILEPA
Dichlorodifluoromethane	75-71-8	WDNR,DoD,ILEPA
Ethylbenzene	100-41-4	WDNR,DoD,ILEPA
Isopropylbenzene	98-82-8	WDNR,DoD,ILEPA
m,p-Xylene	179601-23-1	WDNR,DoD,ILEPA
Methyl tert-butyl ether	1634-04-4	WDNR,DoD,ILEPA
Methylene chloride	75-09-2	AKDEC,WDNR,DoD,ILEPA
n-Butylbenzene	104-51-8	WDNR,DoD,ILEPA
n-Propylbenzene	103-65-1	WDNR,DoD,ILEPA
o-Xylene	95-47-6	WDNR,DoD,ILEPA
sec-Butylbenzene	135-98-8	WDNR,DoD,ILEPA
Styrene	100-42-5	WDNR,DoD
tert-Butylbenzene	98-06-6	WDNR,DoD,ILEPA
Tetrachloroethene	127-18-4	WDNR,DoD,ILEPA
Toluene	108-88-3	AKDEC,WDNR,DoD,ILEPA
trans-1,2-Dichloroethene	156-60-5	AKDEC,WDNR,DoD,ILEPA
trans-1,3-Dichloropropene	10061-02-6	AKDEC,WDNR,DoD,ILEPA
Trichloroethene	79-01-6	AKDEC,WDNR,DoD,ILEPA
Trichlorofluoromethane	75-69-4	AKDEC,WDNR,DoD,ILEPA
Vinyl chloride	75-01-4	AKDEC,WDNR,DoD,ILEPA
Xylenes, Total	1330-20-7	WDNR,DoD,ILEPA
1,3-Dichloropropene, Total	542-75-6	AKDEC,WDNR,DoD,ILEPA

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	17-011	05/31/2022
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L18-184-R1	03/31/2021
DoD	Department of Defense, Accredited by PJLA	L18-183-R3	03/31/2022
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	1002562020-3	07/27/2021
ISO	ISO/IEC 17025, Accredited by PJLA	L18-184-R1	03/31/2022
TX	Texas Commission of Environmental Quality	T104704554-20-5	10/31/2021
WA	Washington State Department of Ecology	C1057	01/05/2022
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2021

Qualifiers and Definitions

Item	Description
P	The quality control sample %RPD is above the laboratory control limit.
Q	One or more quality control results were outside of the acceptance limits (e.g. LCS recovery, surrogate spike recovery, or CCV recovery).
S	The quality control sample recovery is outside of the laboratory control limits.
%Rec	Percent Recovery
MDL	In the state of Wisconsin MDL is equivalent to LOD; in all other applications MDL is equivalent to MDL. In the state of Wisconsin the Reporting Limit is equivalent to LOQ.



Environmental Monitoring and Technologies, Inc
www.emt.com

509 N. 3rd Ave.
Des Plaines, IL 60016

of Custody Record

TURNAROUND TIME:
 RUSH
_____ day turnaround
 ROUTINE

1663
7-6735
Due Date: _____ COC #: _____



20J0228
PM: Nicole Ryan
Generator Data

Company: Geosyntec
Address: 10600 N. Park Washington Rd. Ste 100
Argon, WI, 53092
Phone #: (262) 496-6103 Fax #: ()
P.O. #: CHW8271N Proj. #: _____
Client Contact: Jeremiah Johnson
Project ID / Location: ADCC / Milwaukee

Sample Type:
1. Waste Water 4. Sludge 7. Groundwater (filtered)
2. Drinking Water 5. Oil 8. Other
3. Soil 6. Groundwater

Container Type:
P - Plastic V - VOC Vial O - Other
G - Glass B - Tedlar Bag

Preservative:
1. None 4. NaOH 7. Zn Ace
2. H2SO4 5. HCl 8. Other
3. HNO3 6. MeOH Sodium Bisulfate

Analyses

EMT USE ONLY

EMT WORKORDER # 20J0228

Sample I.D.	Sample Type	Container			Sampling			Preservation			EMT USE ONLY	
		Size	Type	No.	By	Date	Time	pH	Temp.	Field		Lab
<u>SG-1(6.5-7)</u>	<u>3</u>	<u>VOA</u>		<u>1</u>	<u>DE</u>	<u>9/30/20</u>	<u>945</u>	<u>—</u>	<u>—</u>	<u>6</u>	<u>X</u>	<u>01A</u>
<u>SG-1(6.5-7)</u>	<u>3</u>	<u>VOA</u>		<u>2</u>	<u>DE</u>	<u>9/30/20</u>	<u>945</u>	<u>—</u>	<u>—</u>	<u>8</u>	<u>X</u>	<u>01B</u>
<u>SG-5(4.5-5)</u>	<u>3</u>	<u>VOA</u>		<u>1</u>	<u>DE</u>	<u>11</u>	<u>1515</u>	<u>—</u>	<u>—</u>	<u>6</u>	<u>X</u>	<u>02A</u>
<u>SG-5(4.5-5)</u>	<u>3</u>	<u>VOA</u>		<u>2</u>	<u>DE</u>	<u>11</u>	<u>1515</u>	<u>—</u>	<u>—</u>	<u>8</u>	<u>X</u>	<u>02B</u>
<u>SG-6(4.5-5)</u>	<u>3</u>	<u>VOA</u>		<u>1</u>	<u>DE</u>	<u>11</u>	<u>1610</u>	<u>—</u>	<u>—</u>	<u>6</u>	<u>X</u>	<u>03A</u>
<u>SG-6(4.5-5)</u>	<u>3</u>	<u>VOA</u>		<u>2</u>	<u>DE</u>	<u>11</u>	<u>1610</u>	<u>—</u>	<u>—</u>	<u>8</u>	<u>X</u>	<u>03B</u>
<u>SG-7(4.5-5)</u>	<u>3</u>	<u>VOA</u>		<u>1</u>	<u>DE</u>	<u>11</u>	<u>1645</u>	<u>—</u>	<u>—</u>	<u>6</u>	<u>X</u>	<u>04A</u>
<u>SG-7(4.5-5)</u>	<u>3</u>	<u>VOA</u>		<u>2</u>	<u>DE</u>	<u>11</u>	<u>1645</u>	<u>—</u>	<u>—</u>	<u>8</u>	<u>X</u>	<u>04B</u>

Relinquished By: [Signature] Date: 10-2-20 Time: 11:20

Received By: [Signature] Date: 10-2-20 Time: 1315

EMT USE ONLY Client Code: _____ EMT Project I.D. _____

DATE: 10-02-2020 Jar Lot No. _____

Time: 1315

Relinquished By: [Signature] Date: 10-2-20 Time: 1315

Received For Lab By: Agnescha Labaw Date: 10-02-2020 Jar Lot No. _____

Time: _____

SPECIAL INSTRUCTIONS:

SAMPLE RECEIVED ON ICE

TEMPERATURE (Must be recorded if sampling was greater than 6 hrs. prior to sample receipt)

2.4

EMT SAMPLE RETURN POLICY ON BACK

Sample Receipt Checklist

Work Order: 20J0228

Printed: 10/2/2020 2:24:52PM

Client: **Geosyntec DoD**
Project: **Milw Die Cast**

Date Due: **Friday, October 9, 2020**

Received By: **Agnieszka B. Zabawa**
Logged In By: **Agnieszka B. Zabawa**

Date Received: **10/02/20 13:15**
Date Logged In: **10/02/20 14:24**

Sample Temperature at Receipt:	2.4°C
How were samples received?	EMT
Custody Seals Present	No
Custody Seals Intact	NA
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	No

Comments

ABZ

10/02/2020

Memorandum

Date: May 7, 2021
To: Jeremiah Johnson
From: Jennifer Pinion
CC: J. Caprio
Subject: **Stage 2A Data Validation – Level II Data Deliverable – Environmental Monitoring and Technologies Work Order # 20J0228**

SITE: Milwaukee Die Casting Company Site, Milwaukee, WI

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of four soil samples, collected on September 30, 2020, during a Milwaukee Die Casting Company Site sampling event. The analyses were performed by Environmental Monitoring and Technologies (EMT), Inc, Des Plaines, Illinois. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by United States (US) Environmental Protection Agency (EPA) Methods 5035/8260B

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the pertinent methods referenced by the data package, professional and technical judgment and the following documents:

- Updated Site Investigation Work Plan, Milwaukee Die Casting Company Site, 4132 North Holton Street. Milwaukee, Wisconsin, November 12, 2019
- US EPA National Functional Guidelines for Organic Superfund Methods Data Review, November 2020 (EPA 540-R-20-005)

The following samples were analyzed in the data set and validated at a Stage 2A level:

Laboratory IDs	Client IDs
20J0228-01	SG-1 (6.5-7)
20J0228-02	SG-5 (4.5-7)

Laboratory IDs	Client IDs
20J0228-03	SG-6 (4.5-7)
20J0228-04	SG-7 (4.5-7)

The samples were received at the laboratory at 2.4°C within the temperature criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

Incorrect error corrections were observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

The laboratory report was revised on 10/06/2020 to correct the sample IDs in the report to match the COC. The laboratory report was revised again on 5/7/2021 to correct the client name to Geosyntec Consultants.

The total solids data, used to report the sample on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs per US EPA Methods 5035/8260B

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine the impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times and Preservation
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ⊗ Laboratory Control Sample
- ✓ Trip Blank
- ✓ Surrogates
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total

number of analytical results requested on samples submitted for this analysis, for the sample set is 100%.

1.2 Holding Times and Preservation

The holding time for the VOC analysis of a solid sample is 14 days from collection to analysis. The holding times were met for the sample analysis.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch B0J0114). VOCs were not detected in the method blank above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCS duplicate (LCSD) pair was reported. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exception.

The recovery of 2-butanone in the LCSD was low and the relative percent difference (RPD) was high and outside the laboratory specified acceptance criteria. Therefore, the non-detect 2-butanone results in the associated samples were UJ qualified as estimated less than the associated limit of detection (LOD).

Sample ID	Compound	Laboratory Result (µg/Kg dry)	Laboratory Flag	Validation Result (µg/Kg dry)	Validation Qualifier*	Reason Code**
SG-1 (6.5-7)	2-Butanone	6.79	U, Q	6.79	UJ	5
SG-5 (4.5-7)	2-Butanone	6.90	U, Q	6.90	UJ	5
SG-6 (4.5-7)	2-Butanone	5.34	U, Q	5.34	UJ	5
SG-7 (4.5-7)	2-Butanone	7.12	U, Q	7.12	UJ	5

µg/Kg dry – micrograms per kilogram on a dry weight basis

U-not detected at a concentration greater than or equal to the LOD

Q- laboratory flag indicating one or more quality control result was outside laboratory specified acceptance criteria

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.6 Trip Blank

Trip blanks were not submitted with the sample set.

1.7 Surrogates

The surrogate recoveries were within the laboratory specified acceptance criteria.

1.8 Sensitivity

The samples were assessed to the MDLs; however, the non-detects were reported as not detected at the LODs. Elevated non-detect results were not reported.

1.9 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

APPENDIX 6

Soil Gas Sample Laboratory Reports Data Validation Reports

November 03, 2020

Nicki Ryan
EMT
8100 Austin Ave.
Morton Grove, IL 60053

RE: Project: CHW8271N MDCC
Pace Project No.: 10535721

Dear Nicki Ryan:

Enclosed are the analytical results for sample(s) received by the laboratory on October 15, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Ashley Williams
ashley.williams@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Tim Witrzek, EMT



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CHW8271N MDCC

Pace Project No.: 10535721

Pace Analytical Services - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

A2LA Certification #: 2926.01*

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009*

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014*

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605*

Georgia Certification #: 959

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086*

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064*

Maryland Certification #: 322

Massachusetts DWP Certification #: via MN 027-053-137

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137*

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240*

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081*

New Jersey Certification #: MN002

New York Certification #: 11647*

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507*

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001*

Pennsylvania Certification #: 68-00563*

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192*

Utah Certification #: MN00064*

Vermont Certification #: VT-027053137

Virginia Certification #: 460163*

Washington Certification #: C486*

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

Please Note: Applicable air certifications are denoted with an asterisk ().

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: CHW8271N MDCC

Pace Project No.: 10535721

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10535721001	SG-1	Air	10/14/20 09:10	10/15/20 12:11
10535721002	SG-2	Air	10/14/20 09:52	10/15/20 12:11
10535721003	SG-3	Air	10/14/20 10:26	10/15/20 12:11
10535721004	SG-5	Air	10/14/20 12:12	10/15/20 12:11
10535721005	SG-5 DUP	Air	10/14/20 12:12	10/15/20 12:11
10535721006	SG-6	Air	10/14/20 13:03	10/15/20 12:11
10535721007	SG-7	Air	10/14/20 14:15	10/15/20 12:11
10535721008	FC	Air		10/15/20 12:11
10535721009	FC	Air		10/15/20 12:11

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: CHW8271N MDCC

Pace Project No.: 10535721

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10535721001	SG-1	TO-15	MJL	61	PASI-M
10535721002	SG-2	TO-15	MJL	61	PASI-M
10535721003	SG-3	TO-15	MJL	61	PASI-M
10535721004	SG-5	TO-15	MJL	61	PASI-M
10535721005	SG-5 DUP	TO-15	MJL	61	PASI-M
10535721006	SG-6	TO-15	MJL	61	PASI-M
10535721007	SG-7	TO-15	MJL	61	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: CHW8271N MDCC

Pace Project No.: 10535721

Method: TO-15

Description: TO15 MSV AIR

Client: Environmental Monitoring & Tech EMT

Date: November 03, 2020

General Information:

7 samples were analyzed for TO-15 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 707975

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 3782735)
 - Bromoform
 - Hexachloro-1,3-butadiene

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 707975

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.

- LCS (Lab ID: 3782735)
 - Bromoform
 - Hexachloro-1,3-butadiene

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: CHW8271N MDCC

Pace Project No.: 10535721

Method: TO-15

Description: TO15 MSV AIR

Client: Environmental Monitoring & Tech EMT

Date: November 03, 2020

Analyte Comments:

QC Batch: 707975

C8: Result may be biased high due to carryover from previously analyzed sample.

- SG-7 (Lab ID: 10535721007)
 - 1,1-Dichloroethane
 - Vinyl chloride

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CHW8271N MDCC

Pace Project No.: 10535721

Sample: SG-1 **Lab ID: 10535721001** Collected: 10/14/20 09:10 Received: 10/15/20 12:11 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
Acetone	15.3	ug/m3	8.4	2.8	1.39		10/31/20 16:07	67-64-1	
Benzene	0.99	ug/m3	0.45	0.12	1.39		10/31/20 16:07	71-43-2	
Benzyl chloride	ND	ug/m3	3.7	0.62	1.39		10/31/20 16:07	100-44-7	
Bromodichloromethane	ND	ug/m3	1.9	0.41	1.39		10/31/20 16:07	75-27-4	
Bromoform	ND	ug/m3	7.3	2.5	1.39		10/31/20 16:07	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.32	1.39		10/31/20 16:07	74-83-9	
1,3-Butadiene	ND	ug/m3	0.63	0.16	1.39		10/31/20 16:07	106-99-0	
2-Butanone (MEK)	4.5	ug/m3	4.2	0.93	1.39		10/31/20 16:07	78-93-3	
Carbon disulfide	17.5	ug/m3	0.88	0.33	1.39		10/31/20 16:07	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.8	0.48	1.39		10/31/20 16:07	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.30	1.39		10/31/20 16:07	108-90-7	
Chloroethane	ND	ug/m3	0.75	0.14	1.39		10/31/20 16:07	75-00-3	
Chloroform	1.4	ug/m3	0.69	0.21	1.39		10/31/20 16:07	67-66-3	
Chloromethane	ND	ug/m3	0.58	0.16	1.39		10/31/20 16:07	74-87-3	
Cyclohexane	ND	ug/m3	2.4	0.26	1.39		10/31/20 16:07	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	0.55	1.39		10/31/20 16:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.1	0.31	1.39		10/31/20 16:07	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.47	1.39		10/31/20 16:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.7	0.54	1.39		10/31/20 16:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.3	0.73	1.39		10/31/20 16:07	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.4	0.28	1.39		10/31/20 16:07	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.24	1.39		10/31/20 16:07	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.57	0.27	1.39		10/31/20 16:07	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.26	1.39		10/31/20 16:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.21	1.39		10/31/20 16:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.20	1.39		10/31/20 16:07	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.22	1.39		10/31/20 16:07	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.26	1.39		10/31/20 16:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.22	1.39		10/31/20 16:07	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.57	1.39		10/31/20 16:07	76-14-2	
Ethanol	8.5	ug/m3	2.7	1.3	1.39		10/31/20 16:07	64-17-5	
Ethyl acetate	ND	ug/m3	1.0	0.29	1.39		10/31/20 16:07	141-78-6	
Ethylbenzene	ND	ug/m3	1.2	0.28	1.39		10/31/20 16:07	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.5	0.49	1.39		10/31/20 16:07	622-96-8	
n-Heptane	ND	ug/m3	1.2	0.32	1.39		10/31/20 16:07	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	7.5	3.4	1.39		10/31/20 16:07	87-68-3	
n-Hexane	ND	ug/m3	1.0	0.30	1.39		10/31/20 16:07	110-54-3	
2-Hexanone	ND	ug/m3	5.8	0.69	1.39		10/31/20 16:07	591-78-6	
Methylene Chloride	ND	ug/m3	4.9	2.2	1.39		10/31/20 16:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.8	0.30	1.39		10/31/20 16:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.1	0.18	1.39		10/31/20 16:07	1634-04-4	
Naphthalene	ND	ug/m3	3.7	1.7	1.39		10/31/20 16:07	91-20-3	
2-Propanol	3.7	ug/m3	3.5	1.1	1.39		10/31/20 16:07	67-63-0	
Propylene	ND	ug/m3	0.49	0.18	1.39		10/31/20 16:07	115-07-1	
Styrene	ND	ug/m3	1.2	0.45	1.39		10/31/20 16:07	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CHW8271N MDCC

Pace Project No.: 10535721

Sample: **SG-1** Lab ID: **10535721001** Collected: 10/14/20 09:10 Received: 10/15/20 12:11 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.9	0.21	1.39		10/31/20 16:07	79-34-5	
Tetrachloroethene	12.7	ug/m3	0.96	0.46	1.39		10/31/20 16:07	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.83	0.19	1.39		10/31/20 16:07	109-99-9	
Toluene	ND	ug/m3	1.1	0.27	1.39		10/31/20 16:07	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	10.5	4.6	1.39		10/31/20 16:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.5	0.23	1.39		10/31/20 16:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.77	0.23	1.39		10/31/20 16:07	79-00-5	
Trichloroethene	ND	ug/m3	0.76	0.23	1.39		10/31/20 16:07	79-01-6	
Trichlorofluoromethane	1.7	ug/m3	1.6	0.53	1.39		10/31/20 16:07	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	0.47	1.39		10/31/20 16:07	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.4	0.49	1.39		10/31/20 16:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	0.37	1.39		10/31/20 16:07	108-67-8	
Vinyl acetate	ND	ug/m3	1.0	0.19	1.39		10/31/20 16:07	108-05-4	
Vinyl chloride	ND	ug/m3	0.36	0.079	1.39		10/31/20 16:07	75-01-4	
m&p-Xylene	ND	ug/m3	2.5	0.58	1.39		10/31/20 16:07	179601-23-1	
o-Xylene	ND	ug/m3	1.2	0.33	1.39		10/31/20 16:07	95-47-6	

Sample: **SG-2** Lab ID: **10535721002** Collected: 10/14/20 09:52 Received: 10/15/20 12:11 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	ND	ug/m3	9.5	3.2	1.58		10/31/20 17:02	67-64-1	
Benzene	0.65	ug/m3	0.51	0.14	1.58		10/31/20 17:02	71-43-2	
Benzyl chloride	ND	ug/m3	4.2	0.71	1.58		10/31/20 17:02	100-44-7	
Bromodichloromethane	ND	ug/m3	2.1	0.47	1.58		10/31/20 17:02	75-27-4	
Bromoform	ND	ug/m3	8.3	2.9	1.58		10/31/20 17:02	75-25-2	
Bromomethane	ND	ug/m3	1.2	0.37	1.58		10/31/20 17:02	74-83-9	
1,3-Butadiene	ND	ug/m3	0.71	0.18	1.58		10/31/20 17:02	106-99-0	
2-Butanone (MEK)	8.9	ug/m3	4.7	1.1	1.58		10/31/20 17:02	78-93-3	
Carbon disulfide	17.0	ug/m3	1.0	0.38	1.58		10/31/20 17:02	75-15-0	
Carbon tetrachloride	ND	ug/m3	2.0	0.54	1.58		10/31/20 17:02	56-23-5	
Chlorobenzene	ND	ug/m3	1.5	0.34	1.58		10/31/20 17:02	108-90-7	
Chloroethane	ND	ug/m3	0.85	0.16	1.58		10/31/20 17:02	75-00-3	
Chloroform	ND	ug/m3	0.78	0.24	1.58		10/31/20 17:02	67-66-3	
Chloromethane	ND	ug/m3	0.66	0.19	1.58		10/31/20 17:02	74-87-3	
Cyclohexane	ND	ug/m3	2.8	0.30	1.58		10/31/20 17:02	110-82-7	
Dibromochloromethane	ND	ug/m3	2.7	0.63	1.58		10/31/20 17:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.2	0.35	1.58		10/31/20 17:02	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	0.53	1.58		10/31/20 17:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	0.61	1.58		10/31/20 17:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.8	0.83	1.58		10/31/20 17:02	106-46-7	

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ANALYTICAL RESULTS

Project: CHW8271N MDCC

Pace Project No.: 10535721

Sample: SG-2 **Lab ID: 10535721002** Collected: 10/14/20 09:52 Received: 10/15/20 12:11 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
Dichlorodifluoromethane	ND	ug/m3	1.6	0.31	1.58		10/31/20 17:02	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	0.27	1.58		10/31/20 17:02	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.65	0.30	1.58		10/31/20 17:02	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.3	0.29	1.58		10/31/20 17:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	0.24	1.58		10/31/20 17:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	0.22	1.58		10/31/20 17:02	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	0.24	1.58		10/31/20 17:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.5	0.29	1.58		10/31/20 17:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.5	0.25	1.58		10/31/20 17:02	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	0.64	1.58		10/31/20 17:02	76-14-2	
Ethanol	5.1	ug/m3	3.0	1.5	1.58		10/31/20 17:02	64-17-5	
Ethyl acetate	ND	ug/m3	1.2	0.33	1.58		10/31/20 17:02	141-78-6	
Ethylbenzene	ND	ug/m3	1.4	0.31	1.58		10/31/20 17:02	100-41-4	
4-Ethyltoluene	ND	ug/m3	4.0	0.55	1.58		10/31/20 17:02	622-96-8	
n-Heptane	ND	ug/m3	1.3	0.37	1.58		10/31/20 17:02	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	8.6	3.8	1.58		10/31/20 17:02	87-68-3	
n-Hexane	2.6	ug/m3	1.1	0.34	1.58		10/31/20 17:02	110-54-3	
2-Hexanone	ND	ug/m3	6.6	0.78	1.58		10/31/20 17:02	591-78-6	
Methylene Chloride	ND	ug/m3	5.6	2.5	1.58		10/31/20 17:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.6	0.34	1.58		10/31/20 17:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.8	0.20	1.58		10/31/20 17:02	1634-04-4	
Naphthalene	ND	ug/m3	4.2	2.0	1.58		10/31/20 17:02	91-20-3	
2-Propanol	ND	ug/m3	4.0	1.2	1.58		10/31/20 17:02	67-63-0	
Propylene	ND	ug/m3	0.55	0.20	1.58		10/31/20 17:02	115-07-1	
Styrene	ND	ug/m3	1.4	0.52	1.58		10/31/20 17:02	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.2	0.24	1.58		10/31/20 17:02	79-34-5	
Tetrachloroethene	36.7	ug/m3	1.1	0.52	1.58		10/31/20 17:02	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.95	0.22	1.58		10/31/20 17:02	109-99-9	
Toluene	ND	ug/m3	1.2	0.31	1.58		10/31/20 17:02	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	11.9	5.2	1.58		10/31/20 17:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.8	0.26	1.58		10/31/20 17:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.88	0.27	1.58		10/31/20 17:02	79-00-5	
Trichloroethene	ND	ug/m3	0.86	0.27	1.58		10/31/20 17:02	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.8	0.61	1.58		10/31/20 17:02	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	0.53	1.58		10/31/20 17:02	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.6	0.55	1.58		10/31/20 17:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.6	0.42	1.58		10/31/20 17:02	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	0.21	1.58		10/31/20 17:02	108-05-4	
Vinyl chloride	ND	ug/m3	0.41	0.090	1.58		10/31/20 17:02	75-01-4	
m&p-Xylene	ND	ug/m3	2.8	0.65	1.58		10/31/20 17:02	179601-23-1	
o-Xylene	ND	ug/m3	1.4	0.37	1.58		10/31/20 17:02	95-47-6	

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ANALYTICAL RESULTS

Project: CHW8271N MDCC

Pace Project No.: 10535721

Sample: SG-3 **Lab ID: 10535721003** Collected: 10/14/20 10:26 Received: 10/15/20 12:11 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
Acetone	ND	ug/m3	9.2	3.1	1.52		10/31/20 17:56	67-64-1	
Benzene	ND	ug/m3	0.49	0.13	1.52		10/31/20 17:56	71-43-2	
Benzyl chloride	ND	ug/m3	4.0	0.68	1.52		10/31/20 17:56	100-44-7	
Bromodichloromethane	ND	ug/m3	2.1	0.45	1.52		10/31/20 17:56	75-27-4	
Bromoform	ND	ug/m3	8.0	2.8	1.52		10/31/20 17:56	75-25-2	
Bromomethane	ND	ug/m3	1.2	0.35	1.52		10/31/20 17:56	74-83-9	
1,3-Butadiene	ND	ug/m3	0.68	0.18	1.52		10/31/20 17:56	106-99-0	
2-Butanone (MEK)	7.8	ug/m3	4.6	1.0	1.52		10/31/20 17:56	78-93-3	
Carbon disulfide	19.2	ug/m3	0.96	0.36	1.52		10/31/20 17:56	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.9	0.52	1.52		10/31/20 17:56	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.33	1.52		10/31/20 17:56	108-90-7	
Chloroethane	ND	ug/m3	0.81	0.16	1.52		10/31/20 17:56	75-00-3	
Chloroform	2.0	ug/m3	0.75	0.23	1.52		10/31/20 17:56	67-66-3	
Chloromethane	ND	ug/m3	0.64	0.18	1.52		10/31/20 17:56	74-87-3	
Cyclohexane	ND	ug/m3	2.7	0.29	1.52		10/31/20 17:56	110-82-7	
Dibromochloromethane	ND	ug/m3	2.6	0.60	1.52		10/31/20 17:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.2	0.34	1.52		10/31/20 17:56	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	0.51	1.52		10/31/20 17:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	0.59	1.52		10/31/20 17:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.7	0.80	1.52		10/31/20 17:56	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.5	0.30	1.52		10/31/20 17:56	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	0.26	1.52		10/31/20 17:56	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.62	0.29	1.52		10/31/20 17:56	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.28	1.52		10/31/20 17:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.23	1.52		10/31/20 17:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.21	1.52		10/31/20 17:56	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.24	1.52		10/31/20 17:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	0.28	1.52		10/31/20 17:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	0.24	1.52		10/31/20 17:56	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	0.62	1.52		10/31/20 17:56	76-14-2	
Ethanol	3.9	ug/m3	2.9	1.4	1.52		10/31/20 17:56	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	0.32	1.52		10/31/20 17:56	141-78-6	
Ethylbenzene	ND	ug/m3	1.3	0.30	1.52		10/31/20 17:56	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.8	0.53	1.52		10/31/20 17:56	622-96-8	
n-Heptane	1.6	ug/m3	1.3	0.35	1.52		10/31/20 17:56	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	8.2	3.7	1.52		10/31/20 17:56	87-68-3	
n-Hexane	ND	ug/m3	1.1	0.32	1.52		10/31/20 17:56	110-54-3	
2-Hexanone	ND	ug/m3	6.3	0.75	1.52		10/31/20 17:56	591-78-6	
Methylene Chloride	ND	ug/m3	5.4	2.4	1.52		10/31/20 17:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.3	0.33	1.52		10/31/20 17:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.6	0.20	1.52		10/31/20 17:56	1634-04-4	
Naphthalene	ND	ug/m3	4.0	1.9	1.52		10/31/20 17:56	91-20-3	
2-Propanol	ND	ug/m3	3.8	1.2	1.52		10/31/20 17:56	67-63-0	
Propylene	ND	ug/m3	0.53	0.20	1.52		10/31/20 17:56	115-07-1	
Styrene	ND	ug/m3	1.3	0.50	1.52		10/31/20 17:56	100-42-5	

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ANALYTICAL RESULTS

Project: CHW8271N MDCC

Pace Project No.: 10535721

Sample: SG-3 **Lab ID: 10535721003** Collected: 10/14/20 10:26 Received: 10/15/20 12:11 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.1	0.23	1.52		10/31/20 17:56	79-34-5	
Tetrachloroethene	46.9	ug/m3	1.0	0.50	1.52		10/31/20 17:56	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.91	0.21	1.52		10/31/20 17:56	109-99-9	
Toluene	ND	ug/m3	1.2	0.30	1.52		10/31/20 17:56	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	11.5	5.0	1.52		10/31/20 17:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.7	0.25	1.52		10/31/20 17:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.84	0.26	1.52		10/31/20 17:56	79-00-5	
Trichloroethene	ND	ug/m3	0.83	0.26	1.52		10/31/20 17:56	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.7	0.58	1.52		10/31/20 17:56	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.4	0.51	1.52		10/31/20 17:56	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	0.53	1.52		10/31/20 17:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	0.41	1.52		10/31/20 17:56	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	0.21	1.52		10/31/20 17:56	108-05-4	
Vinyl chloride	ND	ug/m3	0.40	0.086	1.52		10/31/20 17:56	75-01-4	
m&p-Xylene	ND	ug/m3	2.7	0.63	1.52		10/31/20 17:56	179601-23-1	
o-Xylene	ND	ug/m3	1.3	0.36	1.52		10/31/20 17:56	95-47-6	

Sample: SG-5 **Lab ID: 10535721004** Collected: 10/14/20 12:12 Received: 10/15/20 12:11 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	48.6	ug/m3	9.2	3.1	1.52		10/31/20 18:23	67-64-1	
Benzene	1.0	ug/m3	0.49	0.13	1.52		10/31/20 18:23	71-43-2	
Benzyl chloride	ND	ug/m3	4.0	0.68	1.52		10/31/20 18:23	100-44-7	
Bromodichloromethane	ND	ug/m3	2.1	0.45	1.52		10/31/20 18:23	75-27-4	
Bromoform	ND	ug/m3	8.0	2.8	1.52		10/31/20 18:23	75-25-2	
Bromomethane	ND	ug/m3	1.2	0.35	1.52		10/31/20 18:23	74-83-9	
1,3-Butadiene	ND	ug/m3	0.68	0.18	1.52		10/31/20 18:23	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.6	1.0	1.52		10/31/20 18:23	78-93-3	
Carbon disulfide	36.5	ug/m3	0.96	0.36	1.52		10/31/20 18:23	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.9	0.52	1.52		10/31/20 18:23	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.33	1.52		10/31/20 18:23	108-90-7	
Chloroethane	ND	ug/m3	0.81	0.16	1.52		10/31/20 18:23	75-00-3	
Chloroform	ND	ug/m3	0.75	0.23	1.52		10/31/20 18:23	67-66-3	
Chloromethane	ND	ug/m3	0.64	0.18	1.52		10/31/20 18:23	74-87-3	
Cyclohexane	ND	ug/m3	2.7	0.29	1.52		10/31/20 18:23	110-82-7	
Dibromochloromethane	ND	ug/m3	2.6	0.60	1.52		10/31/20 18:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.2	0.34	1.52		10/31/20 18:23	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	0.51	1.52		10/31/20 18:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	0.59	1.52		10/31/20 18:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.7	0.80	1.52		10/31/20 18:23	106-46-7	

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ANALYTICAL RESULTS

Project: CHW8271N MDCC

Pace Project No.: 10535721

Sample: SG-5 **Lab ID: 10535721004** Collected: 10/14/20 12:12 Received: 10/15/20 12:11 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
Dichlorodifluoromethane	2.0	ug/m3	1.5	0.30	1.52		10/31/20 18:23	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	0.26	1.52		10/31/20 18:23	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.62	0.29	1.52		10/31/20 18:23	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.28	1.52		10/31/20 18:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.23	1.52		10/31/20 18:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.21	1.52		10/31/20 18:23	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.24	1.52		10/31/20 18:23	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	0.28	1.52		10/31/20 18:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	0.24	1.52		10/31/20 18:23	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	0.62	1.52		10/31/20 18:23	76-14-2	
Ethanol	3.6	ug/m3	2.9	1.4	1.52		10/31/20 18:23	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	0.32	1.52		10/31/20 18:23	141-78-6	
Ethylbenzene	ND	ug/m3	1.3	0.30	1.52		10/31/20 18:23	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.8	0.53	1.52		10/31/20 18:23	622-96-8	
n-Heptane	ND	ug/m3	1.3	0.35	1.52		10/31/20 18:23	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	8.2	3.7	1.52		10/31/20 18:23	87-68-3	
n-Hexane	ND	ug/m3	1.1	0.32	1.52		10/31/20 18:23	110-54-3	
2-Hexanone	ND	ug/m3	6.3	0.75	1.52		10/31/20 18:23	591-78-6	
Methylene Chloride	ND	ug/m3	5.4	2.4	1.52		10/31/20 18:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.3	0.33	1.52		10/31/20 18:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.6	0.20	1.52		10/31/20 18:23	1634-04-4	
Naphthalene	ND	ug/m3	4.0	1.9	1.52		10/31/20 18:23	91-20-3	
2-Propanol	8.6	ug/m3	3.8	1.2	1.52		10/31/20 18:23	67-63-0	
Propylene	ND	ug/m3	0.53	0.20	1.52		10/31/20 18:23	115-07-1	
Styrene	ND	ug/m3	1.3	0.50	1.52		10/31/20 18:23	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.1	0.23	1.52		10/31/20 18:23	79-34-5	
Tetrachloroethene	8150	ug/m3	62.8	30.0	91.2		11/01/20 16:13	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.91	0.21	1.52		10/31/20 18:23	109-99-9	
Toluene	2.9	ug/m3	1.2	0.30	1.52		10/31/20 18:23	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	11.5	5.0	1.52		10/31/20 18:23	120-82-1	
1,1,1-Trichloroethane	10.5	ug/m3	1.7	0.25	1.52		10/31/20 18:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.84	0.26	1.52		10/31/20 18:23	79-00-5	
Trichloroethene	527	ug/m3	49.8	15.3	91.2		11/01/20 16:13	79-01-6	
Trichlorofluoromethane	6.8	ug/m3	1.7	0.58	1.52		10/31/20 18:23	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.4	0.51	1.52		10/31/20 18:23	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	0.53	1.52		10/31/20 18:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	0.41	1.52		10/31/20 18:23	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	0.21	1.52		10/31/20 18:23	108-05-4	
Vinyl chloride	ND	ug/m3	0.40	0.086	1.52		10/31/20 18:23	75-01-4	
m&p-Xylene	ND	ug/m3	2.7	0.63	1.52		10/31/20 18:23	179601-23-1	
o-Xylene	ND	ug/m3	1.3	0.36	1.52		10/31/20 18:23	95-47-6	

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ANALYTICAL RESULTS

Project: CHW8271N MDCC

Pace Project No.: 10535721

Sample: **SG-5 DUP** Lab ID: **10535721005** Collected: 10/14/20 12:12 Received: 10/15/20 12:11 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	44.8	ug/m3	9.2	3.1	1.52		10/31/20 18:50	67-64-1	
Benzene	1.0	ug/m3	0.49	0.13	1.52		10/31/20 18:50	71-43-2	
Benzyl chloride	ND	ug/m3	4.0	0.68	1.52		10/31/20 18:50	100-44-7	
Bromodichloromethane	ND	ug/m3	2.1	0.45	1.52		10/31/20 18:50	75-27-4	
Bromoform	ND	ug/m3	8.0	2.8	1.52		10/31/20 18:50	75-25-2	
Bromomethane	ND	ug/m3	1.2	0.35	1.52		10/31/20 18:50	74-83-9	
1,3-Butadiene	ND	ug/m3	0.68	0.18	1.52		10/31/20 18:50	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.6	1.0	1.52		10/31/20 18:50	78-93-3	
Carbon disulfide	36.0	ug/m3	0.96	0.36	1.52		10/31/20 18:50	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.9	0.52	1.52		10/31/20 18:50	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.33	1.52		10/31/20 18:50	108-90-7	
Chloroethane	ND	ug/m3	0.81	0.16	1.52		10/31/20 18:50	75-00-3	
Chloroform	ND	ug/m3	0.75	0.23	1.52		10/31/20 18:50	67-66-3	
Chloromethane	ND	ug/m3	0.64	0.18	1.52		10/31/20 18:50	74-87-3	
Cyclohexane	ND	ug/m3	2.7	0.29	1.52		10/31/20 18:50	110-82-7	
Dibromochloromethane	ND	ug/m3	2.6	0.60	1.52		10/31/20 18:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.2	0.34	1.52		10/31/20 18:50	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	0.51	1.52		10/31/20 18:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	0.59	1.52		10/31/20 18:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.7	0.80	1.52		10/31/20 18:50	106-46-7	
Dichlorodifluoromethane	1.8	ug/m3	1.5	0.30	1.52		10/31/20 18:50	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	0.26	1.52		10/31/20 18:50	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.62	0.29	1.52		10/31/20 18:50	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.28	1.52		10/31/20 18:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.23	1.52		10/31/20 18:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.21	1.52		10/31/20 18:50	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.24	1.52		10/31/20 18:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	0.28	1.52		10/31/20 18:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	0.24	1.52		10/31/20 18:50	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	0.62	1.52		10/31/20 18:50	76-14-2	
Ethanol	4.8	ug/m3	2.9	1.4	1.52		10/31/20 18:50	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	0.32	1.52		10/31/20 18:50	141-78-6	
Ethylbenzene	ND	ug/m3	1.3	0.30	1.52		10/31/20 18:50	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.8	0.53	1.52		10/31/20 18:50	622-96-8	
n-Heptane	ND	ug/m3	1.3	0.35	1.52		10/31/20 18:50	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	8.2	3.7	1.52		10/31/20 18:50	87-68-3	
n-Hexane	ND	ug/m3	1.1	0.32	1.52		10/31/20 18:50	110-54-3	
2-Hexanone	ND	ug/m3	6.3	0.75	1.52		10/31/20 18:50	591-78-6	
Methylene Chloride	ND	ug/m3	5.4	2.4	1.52		10/31/20 18:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.3	0.33	1.52		10/31/20 18:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.6	0.20	1.52		10/31/20 18:50	1634-04-4	
Naphthalene	ND	ug/m3	4.0	1.9	1.52		10/31/20 18:50	91-20-3	
2-Propanol	8.7	ug/m3	3.8	1.2	1.52		10/31/20 18:50	67-63-0	
Propylene	ND	ug/m3	0.53	0.20	1.52		10/31/20 18:50	115-07-1	
Styrene	ND	ug/m3	1.3	0.50	1.52		10/31/20 18:50	100-42-5	

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ANALYTICAL RESULTS

Project: CHW8271N MDCC

Pace Project No.: 10535721

Sample: **SG-5 DUP** Lab ID: **10535721005** Collected: 10/14/20 12:12 Received: 10/15/20 12:11 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.1	0.23	1.52		10/31/20 18:50	79-34-5	
Tetrachloroethene	8440	ug/m3	62.8	30.0	91.2		11/01/20 17:03	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.91	0.21	1.52		10/31/20 18:50	109-99-9	
Toluene	3.2	ug/m3	1.2	0.30	1.52		10/31/20 18:50	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	11.5	5.0	1.52		10/31/20 18:50	120-82-1	
1,1,1-Trichloroethane	10.6	ug/m3	1.7	0.25	1.52		10/31/20 18:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.84	0.26	1.52		10/31/20 18:50	79-00-5	
Trichloroethene	533	ug/m3	49.8	15.3	91.2		11/01/20 17:03	79-01-6	
Trichlorofluoromethane	6.9	ug/m3	1.7	0.58	1.52		10/31/20 18:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.4	0.51	1.52		10/31/20 18:50	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	0.53	1.52		10/31/20 18:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	0.41	1.52		10/31/20 18:50	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	0.21	1.52		10/31/20 18:50	108-05-4	
Vinyl chloride	ND	ug/m3	0.40	0.086	1.52		10/31/20 18:50	75-01-4	
m&p-Xylene	2.8	ug/m3	2.7	0.63	1.52		10/31/20 18:50	179601-23-1	
o-Xylene	ND	ug/m3	1.3	0.36	1.52		10/31/20 18:50	95-47-6	

Sample: **SG-6** Lab ID: **10535721006** Collected: 10/14/20 13:03 Received: 10/15/20 12:11 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	ND	ug/m3	9.5	3.2	1.58		10/31/20 19:17	67-64-1	
Benzene	1.7	ug/m3	0.51	0.14	1.58		10/31/20 19:17	71-43-2	
Benzyl chloride	ND	ug/m3	4.2	0.71	1.58		10/31/20 19:17	100-44-7	
Bromodichloromethane	ND	ug/m3	2.1	0.47	1.58		10/31/20 19:17	75-27-4	
Bromoform	ND	ug/m3	8.3	2.9	1.58		10/31/20 19:17	75-25-2	
Bromomethane	ND	ug/m3	1.2	0.37	1.58		10/31/20 19:17	74-83-9	
1,3-Butadiene	ND	ug/m3	0.71	0.18	1.58		10/31/20 19:17	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.7	1.1	1.58		10/31/20 19:17	78-93-3	
Carbon disulfide	2.4	ug/m3	1.0	0.38	1.58		10/31/20 19:17	75-15-0	
Carbon tetrachloride	ND	ug/m3	2.0	0.54	1.58		10/31/20 19:17	56-23-5	
Chlorobenzene	ND	ug/m3	1.5	0.34	1.58		10/31/20 19:17	108-90-7	
Chloroethane	ND	ug/m3	0.85	0.16	1.58		10/31/20 19:17	75-00-3	
Chloroform	ND	ug/m3	0.78	0.24	1.58		10/31/20 19:17	67-66-3	
Chloromethane	ND	ug/m3	0.66	0.19	1.58		10/31/20 19:17	74-87-3	
Cyclohexane	5.6	ug/m3	2.8	0.30	1.58		10/31/20 19:17	110-82-7	
Dibromochloromethane	ND	ug/m3	2.7	0.63	1.58		10/31/20 19:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.2	0.35	1.58		10/31/20 19:17	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	0.53	1.58		10/31/20 19:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	0.61	1.58		10/31/20 19:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.8	0.83	1.58		10/31/20 19:17	106-46-7	

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ANALYTICAL RESULTS

Project: CHW8271N MDCC

Pace Project No.: 10535721

Sample: SG-6 **Lab ID: 10535721006** Collected: 10/14/20 13:03 Received: 10/15/20 12:11 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Dichlorodifluoromethane	ND	ug/m3	1.6	0.31	1.58		10/31/20 19:17	75-71-8	
1,1-Dichloroethane	6520	ug/m3	312	64.5	379.2		11/01/20 17:28	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.65	0.30	1.58		10/31/20 19:17	107-06-2	
1,1-Dichloroethene	60.8	ug/m3	1.3	0.29	1.58		10/31/20 19:17	75-35-4	
cis-1,2-Dichloroethene	7660	ug/m3	306	56.9	379.2		11/01/20 17:28	156-59-2	
trans-1,2-Dichloroethene	616	ug/m3	306	53.5	379.2		11/01/20 17:28	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	0.24	1.58		10/31/20 19:17	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.5	0.29	1.58		10/31/20 19:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.5	0.25	1.58		10/31/20 19:17	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	0.64	1.58		10/31/20 19:17	76-14-2	
Ethanol	7.5	ug/m3	3.0	1.5	1.58		10/31/20 19:17	64-17-5	
Ethyl acetate	ND	ug/m3	1.2	0.33	1.58		10/31/20 19:17	141-78-6	
Ethylbenzene	1.9	ug/m3	1.4	0.31	1.58		10/31/20 19:17	100-41-4	
4-Ethyltoluene	ND	ug/m3	4.0	0.55	1.58		10/31/20 19:17	622-96-8	
n-Heptane	ND	ug/m3	1.3	0.37	1.58		10/31/20 19:17	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	8.6	3.8	1.58		10/31/20 19:17	87-68-3	
n-Hexane	10.1	ug/m3	1.1	0.34	1.58		10/31/20 19:17	110-54-3	
2-Hexanone	ND	ug/m3	6.6	0.78	1.58		10/31/20 19:17	591-78-6	
Methylene Chloride	ND	ug/m3	5.6	2.5	1.58		10/31/20 19:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.6	0.34	1.58		10/31/20 19:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.8	0.20	1.58		10/31/20 19:17	1634-04-4	
Naphthalene	ND	ug/m3	4.2	2.0	1.58		10/31/20 19:17	91-20-3	
2-Propanol	7.1	ug/m3	4.0	1.2	1.58		10/31/20 19:17	67-63-0	
Propylene	ND	ug/m3	0.55	0.20	1.58		10/31/20 19:17	115-07-1	
Styrene	ND	ug/m3	1.4	0.52	1.58		10/31/20 19:17	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.2	0.24	1.58		10/31/20 19:17	79-34-5	
Tetrachloroethene	96.5	ug/m3	1.1	0.52	1.58		10/31/20 19:17	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.95	0.22	1.58		10/31/20 19:17	109-99-9	
Toluene	6.5	ug/m3	1.2	0.31	1.58		10/31/20 19:17	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	11.9	5.2	1.58		10/31/20 19:17	120-82-1	
1,1,1-Trichloroethane	3680	ug/m3	421	62.9	379.2		11/01/20 17:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.88	0.27	1.58		10/31/20 19:17	79-00-5	
Trichloroethene	1610	ug/m3	207	63.7	379.2		11/01/20 17:28	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.8	0.61	1.58		10/31/20 19:17	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	0.53	1.58		10/31/20 19:17	76-13-1	
1,2,4-Trimethylbenzene	2.6	ug/m3	1.6	0.55	1.58		10/31/20 19:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.6	0.42	1.58		10/31/20 19:17	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	0.21	1.58		10/31/20 19:17	108-05-4	
Vinyl chloride	2630	ug/m3	98.6	21.5	379.2		11/01/20 17:28	75-01-4	
m&p-Xylene	5.7	ug/m3	2.8	0.65	1.58		10/31/20 19:17	179601-23-1	
o-Xylene	1.6	ug/m3	1.4	0.37	1.58		10/31/20 19:17	95-47-6	

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ANALYTICAL RESULTS

Project: CHW8271N MDCC

Pace Project No.: 10535721

Sample: **SG-7** Lab ID: **10535721007** Collected: 10/14/20 14:15 Received: 10/15/20 12:11 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	ND	ug/m3	8.8	3.0	1.46		10/31/20 19:44	67-64-1	
Benzene	0.48	ug/m3	0.47	0.13	1.46		10/31/20 19:44	71-43-2	
Benzyl chloride	ND	ug/m3	3.8	0.65	1.46		10/31/20 19:44	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	0.44	1.46		10/31/20 19:44	75-27-4	
Bromoform	ND	ug/m3	7.7	2.6	1.46		10/31/20 19:44	75-25-2	
Bromomethane	ND	ug/m3	1.2	0.34	1.46		10/31/20 19:44	74-83-9	
1,3-Butadiene	ND	ug/m3	0.66	0.17	1.46		10/31/20 19:44	106-99-0	
2-Butanone (MEK)	5.2	ug/m3	4.4	0.98	1.46		10/31/20 19:44	78-93-3	
Carbon disulfide	11.5	ug/m3	0.92	0.35	1.46		10/31/20 19:44	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.9	0.50	1.46		10/31/20 19:44	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.32	1.46		10/31/20 19:44	108-90-7	
Chloroethane	ND	ug/m3	0.78	0.15	1.46		10/31/20 19:44	75-00-3	
Chloroform	ND	ug/m3	0.72	0.22	1.46		10/31/20 19:44	67-66-3	
Chloromethane	ND	ug/m3	0.61	0.17	1.46		10/31/20 19:44	74-87-3	
Cyclohexane	ND	ug/m3	2.6	0.28	1.46		10/31/20 19:44	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	0.58	1.46		10/31/20 19:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.1	0.32	1.46		10/31/20 19:44	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	0.49	1.46		10/31/20 19:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	0.56	1.46		10/31/20 19:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.5	0.77	1.46		10/31/20 19:44	106-46-7	
Dichlorodifluoromethane	1.6	ug/m3	1.5	0.29	1.46		10/31/20 19:44	75-71-8	
1,1-Dichloroethane	19.6	ug/m3	1.2	0.25	1.46		10/31/20 19:44	75-34-3	C8
1,2-Dichloroethane	ND	ug/m3	0.60	0.28	1.46		10/31/20 19:44	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.27	1.46		10/31/20 19:44	75-35-4	
cis-1,2-Dichloroethene	3050	ug/m3	70.6	13.1	87.6		11/01/20 16:38	156-59-2	
trans-1,2-Dichloroethene	558	ug/m3	70.6	12.4	87.6		11/01/20 16:38	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.23	1.46		10/31/20 19:44	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.27	1.46		10/31/20 19:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.23	1.46		10/31/20 19:44	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.1	0.59	1.46		10/31/20 19:44	76-14-2	
Ethanol	7.5	ug/m3	2.8	1.4	1.46		10/31/20 19:44	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	0.31	1.46		10/31/20 19:44	141-78-6	
Ethylbenzene	ND	ug/m3	1.3	0.29	1.46		10/31/20 19:44	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.6	0.51	1.46		10/31/20 19:44	622-96-8	
n-Heptane	ND	ug/m3	1.2	0.34	1.46		10/31/20 19:44	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	7.9	3.5	1.46		10/31/20 19:44	87-68-3	
n-Hexane	ND	ug/m3	1.0	0.31	1.46		10/31/20 19:44	110-54-3	
2-Hexanone	ND	ug/m3	6.1	0.72	1.46		10/31/20 19:44	591-78-6	
Methylene Chloride	ND	ug/m3	5.2	2.3	1.46		10/31/20 19:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.1	0.32	1.46		10/31/20 19:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.3	0.19	1.46		10/31/20 19:44	1634-04-4	
Naphthalene	ND	ug/m3	3.9	1.8	1.46		10/31/20 19:44	91-20-3	
2-Propanol	ND	ug/m3	3.6	1.2	1.46		10/31/20 19:44	67-63-0	
Propylene	ND	ug/m3	0.51	0.19	1.46		10/31/20 19:44	115-07-1	
Styrene	ND	ug/m3	1.3	0.48	1.46		10/31/20 19:44	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CHW8271N MDCC

Pace Project No.: 10535721

Sample: SG-7 **Lab ID: 10535721007** Collected: 10/14/20 14:15 Received: 10/15/20 12:11 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.0	0.22	1.46		10/31/20 19:44	79-34-5	
Tetrachloroethene	116	ug/m3	1.0	0.48	1.46		10/31/20 19:44	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.88	0.20	1.46		10/31/20 19:44	109-99-9	
Toluene	ND	ug/m3	1.1	0.29	1.46		10/31/20 19:44	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	11.0	4.8	1.46		10/31/20 19:44	120-82-1	
1,1,1-Trichloroethane	5.0	ug/m3	1.6	0.24	1.46		10/31/20 19:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.81	0.25	1.46		10/31/20 19:44	79-00-5	
Trichloroethene	117	ug/m3	0.80	0.25	1.46		10/31/20 19:44	79-01-6	
Trichlorofluoromethane	1.9	ug/m3	1.7	0.56	1.46		10/31/20 19:44	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.3	0.49	1.46		10/31/20 19:44	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	0.51	1.46		10/31/20 19:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	0.39	1.46		10/31/20 19:44	108-67-8	
Vinyl acetate	ND	ug/m3	1.0	0.20	1.46		10/31/20 19:44	108-05-4	
Vinyl chloride	2.5	ug/m3	0.38	0.083	1.46		10/31/20 19:44	75-01-4	C8
m&p-Xylene	ND	ug/m3	2.6	0.60	1.46		10/31/20 19:44	179601-23-1	
o-Xylene	ND	ug/m3	1.3	0.34	1.46		10/31/20 19:44	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CHW8271N MDCC

Pace Project No.: 10535721

QC Batch: 707975

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10535721001, 10535721002, 10535721003, 10535721004, 10535721005, 10535721006, 10535721007

METHOD BLANK: 3782734

Matrix: Air

Associated Lab Samples: 10535721001, 10535721002, 10535721003, 10535721004, 10535721005, 10535721006, 10535721007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	10/31/20 09:12	
1,1,2,2-Tetrachloroethane	ug/m3	ND	1.4	10/31/20 09:12	
1,1,2-Trichloroethane	ug/m3	ND	0.56	10/31/20 09:12	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	10/31/20 09:12	
1,1-Dichloroethane	ug/m3	ND	0.82	10/31/20 09:12	
1,1-Dichloroethene	ug/m3	ND	0.81	10/31/20 09:12	
1,2,4-Trichlorobenzene	ug/m3	ND	7.5	10/31/20 09:12	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	10/31/20 09:12	
1,2-Dibromoethane (EDB)	ug/m3	ND	0.78	10/31/20 09:12	
1,2-Dichlorobenzene	ug/m3	ND	1.2	10/31/20 09:12	
1,2-Dichloroethane	ug/m3	ND	0.41	10/31/20 09:12	
1,2-Dichloropropane	ug/m3	ND	0.94	10/31/20 09:12	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	10/31/20 09:12	
1,3-Butadiene	ug/m3	ND	0.45	10/31/20 09:12	
1,3-Dichlorobenzene	ug/m3	ND	1.2	10/31/20 09:12	
1,4-Dichlorobenzene	ug/m3	ND	3.1	10/31/20 09:12	
2-Butanone (MEK)	ug/m3	ND	3.0	10/31/20 09:12	
2-Hexanone	ug/m3	ND	4.2	10/31/20 09:12	
2-Propanol	ug/m3	ND	2.5	10/31/20 09:12	
4-Ethyltoluene	ug/m3	ND	2.5	10/31/20 09:12	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	10/31/20 09:12	
Acetone	ug/m3	ND	6.0	10/31/20 09:12	
Benzene	ug/m3	ND	0.32	10/31/20 09:12	
Benzyl chloride	ug/m3	ND	2.6	10/31/20 09:12	
Bromodichloromethane	ug/m3	ND	1.4	10/31/20 09:12	
Bromoform	ug/m3	ND	5.2	10/31/20 09:12	
Bromomethane	ug/m3	ND	0.79	10/31/20 09:12	
Carbon disulfide	ug/m3	ND	0.63	10/31/20 09:12	
Carbon tetrachloride	ug/m3	ND	1.3	10/31/20 09:12	
Chlorobenzene	ug/m3	ND	0.94	10/31/20 09:12	
Chloroethane	ug/m3	ND	0.54	10/31/20 09:12	
Chloroform	ug/m3	ND	0.50	10/31/20 09:12	
Chloromethane	ug/m3	ND	0.42	10/31/20 09:12	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	10/31/20 09:12	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	10/31/20 09:12	
Cyclohexane	ug/m3	ND	1.8	10/31/20 09:12	
Dibromochloromethane	ug/m3	ND	1.7	10/31/20 09:12	
Dichlorodifluoromethane	ug/m3	ND	1.0	10/31/20 09:12	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	10/31/20 09:12	
Ethanol	ug/m3	ND	1.9	10/31/20 09:12	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CHW8271N MDCC

Pace Project No.: 10535721

METHOD BLANK: 3782734

Matrix: Air

Associated Lab Samples: 10535721001, 10535721002, 10535721003, 10535721004, 10535721005, 10535721006, 10535721007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl acetate	ug/m3	ND	0.73	10/31/20 09:12	
Ethylbenzene	ug/m3	ND	0.88	10/31/20 09:12	
Hexachloro-1,3-butadiene	ug/m3	ND	5.4	10/31/20 09:12	
m&p-Xylene	ug/m3	ND	1.8	10/31/20 09:12	
Methyl-tert-butyl ether	ug/m3	ND	3.7	10/31/20 09:12	
Methylene Chloride	ug/m3	ND	3.5	10/31/20 09:12	
n-Heptane	ug/m3	ND	0.83	10/31/20 09:12	
n-Hexane	ug/m3	ND	0.72	10/31/20 09:12	
Naphthalene	ug/m3	ND	2.7	10/31/20 09:12	
o-Xylene	ug/m3	ND	0.88	10/31/20 09:12	
Propylene	ug/m3	ND	0.35	10/31/20 09:12	
Styrene	ug/m3	ND	0.87	10/31/20 09:12	
Tetrachloroethene	ug/m3	ND	0.69	10/31/20 09:12	
Tetrahydrofuran	ug/m3	ND	0.60	10/31/20 09:12	
Toluene	ug/m3	ND	0.77	10/31/20 09:12	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	10/31/20 09:12	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	10/31/20 09:12	
Trichloroethene	ug/m3	ND	0.55	10/31/20 09:12	
Trichlorofluoromethane	ug/m3	ND	1.1	10/31/20 09:12	
Vinyl acetate	ug/m3	ND	0.72	10/31/20 09:12	
Vinyl chloride	ug/m3	ND	0.26	10/31/20 09:12	

LABORATORY CONTROL SAMPLE: 3782735

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	57	66.2	116	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	71.9	85.7	119	70-132	
1,1,2-Trichloroethane	ug/m3	57.3	58.6	102	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	80.3	91.3	114	70-130	
1,1-Dichloroethane	ug/m3	42.7	45.5	107	70-130	
1,1-Dichloroethene	ug/m3	41.4	48.4	117	69-137	
1,2,4-Trichlorobenzene	ug/m3	156	188	121	70-130	
1,2,4-Trimethylbenzene	ug/m3	51.5	50.2	97	70-137	
1,2-Dibromoethane (EDB)	ug/m3	80.3	82.1	102	70-138	
1,2-Dichlorobenzene	ug/m3	63.1	78.6	125	70-136	
1,2-Dichloroethane	ug/m3	42.4	47.4	112	70-130	
1,2-Dichloropropane	ug/m3	48.6	50.8	105	70-132	
1,3,5-Trimethylbenzene	ug/m3	51.6	46.8	91	70-136	
1,3-Butadiene	ug/m3	23.3	27.7	119	67-139	
1,3-Dichlorobenzene	ug/m3	63.4	61.7	97	70-138	
1,4-Dichlorobenzene	ug/m3	63.4	65.4	103	70-145	
2-Butanone (MEK)	ug/m3	31.4	29.7	95	61-130	
2-Hexanone	ug/m3	42.8	45.7	107	70-138	
2-Propanol	ug/m3	119	133	112	70-136	

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QUALITY CONTROL DATA

Project: CHW8271N MDCC

Pace Project No.: 10535721

LABORATORY CONTROL SAMPLE: 3782735

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Ethyltoluene	ug/m3	52.4	52.4	100	70-142	
4-Methyl-2-pentanone (MIBK)	ug/m3	43.6	45.8	105	70-134	
Acetone	ug/m3	126	145	115	59-137	
Benzene	ug/m3	33.5	34.5	103	70-133	
Benzyl chloride	ug/m3	55.1	64.6	117	70-139	
Bromodichloromethane	ug/m3	71.5	81.1	113	70-130	
Bromoform	ug/m3	110	174	158	60-140	CH,L3
Bromomethane	ug/m3	41.3	50.8	123	70-131	
Carbon disulfide	ug/m3	33.3	35.8	108	70-130	
Carbon tetrachloride	ug/m3	66.2	82.0	124	70-133	
Chlorobenzene	ug/m3	48.3	60.4	125	70-131	
Chloroethane	ug/m3	28.1	35.1	125	70-141	
Chloroform	ug/m3	51.1	56.5	111	70-130	
Chloromethane	ug/m3	21.9	24.8	113	64-137	
cis-1,2-Dichloroethene	ug/m3	41.6	44.0	106	70-132	
cis-1,3-Dichloropropene	ug/m3	47.7	53.4	112	70-138	
Cyclohexane	ug/m3	36.7	40.8	111	70-133	
Dibromochloromethane	ug/m3	90.7	110	121	70-139	
Dichlorodifluoromethane	ug/m3	51.6	60.4	117	70-130	
Dichlorotetrafluoroethane	ug/m3	72.7	86.3	119	65-133	
Ethanol	ug/m3	103	114	111	65-135	
Ethyl acetate	ug/m3	38.6	39.9	104	70-135	
Ethylbenzene	ug/m3	45.6	46.4	102	70-142	
Hexachloro-1,3-butadiene	ug/m3	112	154	138	70-134	CH,L3
m&p-Xylene	ug/m3	91.2	94.0	103	70-141	
Methyl-tert-butyl ether	ug/m3	38.4	43.9	114	70-131	
Methylene Chloride	ug/m3	182	200	110	69-130	
n-Heptane	ug/m3	43.6	46.1	106	70-130	
n-Hexane	ug/m3	37.6	39.5	105	70-131	
Naphthalene	ug/m3	57.7	64.1	111	63-130	
o-Xylene	ug/m3	45.5	44.2	97	70-135	
Propylene	ug/m3	18.2	20.0	110	63-139	
Styrene	ug/m3	44.9	47.1	105	70-143	
Tetrachloroethene	ug/m3	71	67.4	95	70-136	
Tetrahydrofuran	ug/m3	31.5	31.8	101	70-137	
Toluene	ug/m3	39.5	41.8	106	70-136	
trans-1,2-Dichloroethene	ug/m3	42.2	45.2	107	70-132	
trans-1,3-Dichloropropene	ug/m3	47.7	55.3	116	70-139	
Trichloroethene	ug/m3	56.3	61.0	108	70-132	
Trichlorofluoromethane	ug/m3	59.7	75.2	126	65-136	
Vinyl acetate	ug/m3	34.5	40.3	117	66-140	
Vinyl chloride	ug/m3	26.7	32.3	121	68-141	

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QUALITY CONTROL DATA

Project: CHW8271N MDCC

Pace Project No.: 10535721

SAMPLE DUPLICATE: 3783019

Parameter	Units	10535721001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	.48J		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	ND	ND		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	ND		25	
1,3-Butadiene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	4.5	4.2	6	25	
2-Hexanone	ug/m3	ND	ND		25	
2-Propanol	ug/m3	3.7	3.4J		25	
4-Ethyltoluene	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	15.3	14.4	6	25	
Benzene	ug/m3	0.99	0.95	5	25	
Benzyl chloride	ug/m3	ND	ND		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	17.5	16.7	5	25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	1.4	1.3	2	25	
Chloromethane	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	ND		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	ND	1.1J		25	
Dichlorotetrafluoroethane	ug/m3	ND	ND		25	
Ethanol	ug/m3	8.5	7.5	12	25	
Ethyl acetate	ug/m3	ND	ND		25	
Ethylbenzene	ug/m3	ND	ND		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	ND	ND		25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	ND	ND		25	
n-Heptane	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Project: CHW8271N MDCC

Pace Project No.: 10535721

SAMPLE DUPLICATE: 3783019

Parameter	Units	10535721001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	ND	.52J		25	
Naphthalene	ug/m3	ND	ND		25	
o-Xylene	ug/m3	ND	ND		25	
Propylene	ug/m3	ND	ND		25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	12.7	12.2	4	25	
Tetrahydrofuran	ug/m3	ND	ND		25	
Toluene	ug/m3	ND	.46J		25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	.48J		25	
Trichlorofluoromethane	ug/m3	1.7	1.6	4	25	
Vinyl acetate	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

SAMPLE DUPLICATE: 3783020

Parameter	Units	10535721002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	ND	ND		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	ND		25	
1,3-Butadiene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	8.9	8.4	5	25	
2-Hexanone	ug/m3	ND	ND		25	
2-Propanol	ug/m3	ND	ND		25	
4-Ethyltoluene	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	ND	7.7J		25	
Benzene	ug/m3	0.65	0.59	10	25	
Benzyl chloride	ug/m3	ND	ND		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CHW8271N MDCC

Pace Project No.: 10535721

SAMPLE DUPLICATE: 3783020

Parameter	Units	10535721002 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	17.0	16.2	5	25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	.26J		25	
Chloromethane	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	.94J		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	ND	.49J		25	
Dichlorotetrafluoroethane	ug/m3	ND	ND		25	
Ethanol	ug/m3	5.1	4.9	5	25	
Ethyl acetate	ug/m3	ND	ND		25	
Ethylbenzene	ug/m3	ND	ND		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	ND	ND		25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	ND	ND		25	
n-Heptane	ug/m3	ND	ND		25	
n-Hexane	ug/m3	2.6	2.8	8	25	
Naphthalene	ug/m3	ND	ND		25	
o-Xylene	ug/m3	ND	ND		25	
Propylene	ug/m3	ND	ND		25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	36.7	36.8	0	25	
Tetrahydrofuran	ug/m3	ND	ND		25	
Toluene	ug/m3	ND	ND		25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	.72J		25	
Trichlorofluoromethane	ug/m3	ND	1J		25	
Vinyl acetate	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: CHW8271N MDCC

Pace Project No.: 10535721

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- | | |
|----|--------------------------------------------------------------------------------------------------------------------------------------------|
| C8 | Result may be biased high due to carryover from previously analyzed sample. |
| CH | The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high. |
| L3 | Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CHW8271N MDCC

Pace Project No.: 10535721

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10535721001	SG-1	TO-15	707975		
10535721002	SG-2	TO-15	707975		
10535721003	SG-3	TO-15	707975		
10535721004	SG-5	TO-15	707975		
10535721005	SG-5 DUP	TO-15	707975		
10535721006	SG-6	TO-15	707975		
10535721007	SG-7	TO-15	707975		

REPORT OF LABORATORY ANALYSIS

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AIR: CHAIN-OF-CUSTODY / A

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant files

WO#: 10535721



10535721

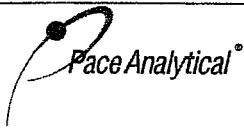
Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	40660	Page: (of)
Company: Geosyntec	Report To: jpjohnson@geosyntec.com	Attention: Jeremiah Johnson	Program <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other	
Address: 10600 N. Park Washington St 100, Mequon, WI 53121	Company Name: Geosyntec	Address: 10600 N. Park Washington St, Suite 100, Mequon, WI 53121		
Email To: js@geosyntec.com	Purchase Order No.:	Pace Quote Reference: WZ 53013	Location of Sampling by State: WI	
Phone: 496-6103	Project Name: MDCC	Pace Project Manager/Sales Rep.:	Reporting Units ug/m ³ _____ mg/m ³ _____ PPBV _____ PPMV _____ Other _____	
Requested Due Date/TAT:	Project Number: CHW8271N	Pace Profile #: 41348	Report Level: II _____ III _____ IV _____ Other _____	

ITEM #	'Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE Tediator Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10	MEDIA CODE	PID Reading (Client only)	COLLECTED				Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method:								Pace Lab ID	
					COMPOSITE START		COMPOSITE - END/GRAB						PM10	SC - Fixed Gas (%)	TO-3 BTEX	TO-14M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated		
					DATE	TIME	DATE	TIME														
1	SG-1		GLC			10/14/20	9:10	29	22	3875	2815										W1	
2	SG-2							952	27	4	1659	0994										W2
3	SG-3							1026	293	4	1644	1114										W3
4	SG-5							1212	295	3	3500	2578										W4
5	SG-5 DCP							1212	27	0	1505	2578										W5
6	SG-6							1303	25	2	1475	2256										W6
7	SG-7							1415	285	25	1220	2580										W7

Comments :	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
	<i>[Signature]</i>	10/14/20	16:00	<i>[Signature]</i>	10/15/20	12:11	-	Y/N	Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
PRINT Name of SAMPLER:	DATE Signed (MM/DD/YYYY)				
<i>[Signature]</i>					
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YYYY)				
<i>[Signature]</i>	10/14/20				

ORIGINAL



Document Name:
Sample Condition Upon Receipt (SCUR) - Air
 Document No.:
ENV-FRM-MIN4-0113 Rev.00

Document Revised: 24Mar2020
 Page 1 of 1
 Pace Analytical Services -
 Minneapolis

**Air Sample Condition
 Upon Receipt**

Client Name:

Geosyntec

Project #:

WO#: 10535721

Courier: Fed Ex UPS USPS Client
 Pace Speedee Commercial See Exception

PM: AW1 Due Date: 10/29/20
 CLIENT: ENV MON&TECH

Tracking Number: 1723 2546 6329, 4429

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____ Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): _____ Corrected Temp (°C): _____ Thermometer Used: G87A9170600254
 G87A9155100842

Temp should be above freezing to 6°C Correction Factor: _____ Date & Initials of Person Examining Contents: 10-15-20 WZ

Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? (Tedlar bags not acceptable container for TO-14, TO-15 or APH) -Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Containers Intact? (visual inspection/no leaks when pressurized)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Media: <input checked="" type="checkbox"/> Air Can <input type="checkbox"/> Airbag <input type="checkbox"/> Filter <input type="checkbox"/> TDT <input type="checkbox"/> Passive		11. Individually Certified Cans <input checked="" type="checkbox"/> Y <input type="checkbox"/> N (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. sample 5 & 5 DUP have 12:04 for a time on tag but 12:12 on COC.
Do cans need to be pressurized? (DO NOT PRESSURIZE 3C or ASTM 1946!!!)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13. DUP samples have Restrictors attached but have Dup tee Restrictor listed.

Gauge # 10AIR26 10AIR34 10AIR35 4097

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
SG-1	3875	2815	-1	+5	Unused	-	2468	-	-
11-2	1659	994	-4.5						
11-3	1644	1114	-3.5						
11-5	3500	2578	-3.5						
-5 DUP	1505	2577	-3.5						
-6	1475	2256	-4.5						
-7	1220	2580	-2.5						
Unused	-	2692	-						

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____

Project Manager Review:

Ashey Williams

Date: 10/16/2020

Page 27 of 27

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Memorandum

Date: January 4, 2021
To: Jeremiah Johnson
From: Matthew Richardson
CC: J. Caprio
Subject: **Stage 2A Data Validation – Level II Data Deliverable – Pace Analytical Project # 10535721**

SITE: Milwaukee Die Casting Company Site, Milwaukee, WI

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of six air samples, one field duplicate sample collected on October 14, 2020, during a Milwaukee Die Casting Company Site sampling event. The analyses were performed by Pace Analytical Services, Minneapolis, Minnesota. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by United States Environmental Protection Agency (US EPA) Method TO-15

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the pertinent methods referenced by the data package, professional and technical judgment and the following documents:

- Updated Site Investigation Work Plan, Milwaukee Die Casting Company Site, 4132 North Holton Street, Milwaukee, Wisconsin, November 12, 2019
- US EPA National Functional Guidelines for Organic Superfund Methods Data Review, January 2017 (USEPA-540-R-2017-002)

The following samples were analyzed in the data set and validated at a Stage 2A level:

Laboratory ID	Client ID
10535721001	SG-1
10535721002	SG-2

Laboratory ID	Client ID
10535721003	SG-3
10535721004	SG-5

Laboratory ID	Client ID
10535721005	SG-5 DUP
10535721006	SG-6

Laboratory ID	Client ID
10535721007	SG-7

The sample condition upon receipt (SCUR) indicated that samples SG-5 and SG-5 DUP were documented with sample collection times of 12:04 on the canister tags and sample collection times of 12:12 on the chain of custody (COC). The samples were logged with the sample collection times of 12:12.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs per US EPA Method TO-15.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine the impact on data quality and usability.

- ⊗ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

1.1.1 Completeness

The VOC data reported in this package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for the sample set is 100%.

1.1.2 Analysis Anomaly

The laboratory report indicated the percent differences (%Ds) for bromoform and hexachloro-1,3-butadiene in the continuing calibration verification (CCV) standard in batch 707975 were outside

the method specified acceptance criteria, with high biases. Since bromoform and hexachloro-1,3-butadiene were not detected in the associated samples, no qualifications were applied to the data.

The laboratory narrative indicated that the 1,1-dichloroethane and vinyl chloride concentrations in sample SG-7 were possibly affected by carryover from the previous sample in the analysis batch. In addition, information sent from the laboratory indicated that the 1,1,1-trichloroethane concentration in sample SG-7 was possibly affected by carryover from previous sample in the analysis batch. Therefore, the 1,1-dichloroethane, vinyl chloride and 1,1,1-trichloroethane concentrations in sample SG-7 were J qualified as estimated.

Sample	Analyte	Laboratory Result ($\mu\text{g}/\text{m}^3$)	Laboratory Flag	Validation Result ($\mu\text{g}/\text{m}^3$)	Validation Qualifier*	Reason Code**
SG-7	1,1-Dichloroethane	19.6	C8	19.6	J	13
SG-7	Vinyl chloride	2.5	C8	2.5	J	13
SG-7	1,1,1-Trichloroethane	5.0	NA	5.0	J	13

$\mu\text{g}/\text{m}^3$ -micrograms per cubic meter

C8-laboratory flag indicating that the result may be biased high due to carryover from previously analyzed sample

NA-not applicable

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The holding time for the VOC analysis of an air sample collected in an air canister is 30 days from collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 707975). VOCs were not detected in the method blank above the limit of quantitations (LOQs).

1.4 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria, with the following exception.

The recoveries of bromoform and hexachloro-1,3-butadiene were high and outside the laboratory specified acceptance criteria. Since bromoform and hexachloro-1,3-butadiene were not detected in the associated samples, no qualifications were applied to the data.

1.5 Laboratory Duplicate

Two sample set specific laboratory duplicates were reported, using samples SG-1 and SG-2. The relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.6 Field Duplicate

One field duplicate sample, SG-5 DUP, was collected with the sample set. Acceptable precision (RPD≤30%) was demonstrated between the field duplicate and the original sample, SG-5, with the following exception.

M&p-xylene was detected at a concentration greater than the LOQ in field duplicate sample SG-5 DUP and not detected in parent sample SG-5, resulting in a noncalculable RPD result. Therefore, the m&p-xylene concentration in sample SG-5 DUP was J qualified as estimated, and the non-detect m&p-xylene result in sample SG-5 was UJ qualified as estimated less than the LOQ.

Sample	Analyte	Laboratory Result (µg/m ³)	Laboratory Flag	RPD	Validation Result (µg/m ³)	Validation Qualifier	Reason Code
SG-5	m&p-Xylene	2.7	U	NC	2.7	UJ	7
SG-5 DUP	m&p-Xylene	2.8	NA		2.8	J	7

µg/m³-micrograms per cubic meter
 U-not detected at or above the LOQ
 NA-not applicable

1.7 Sensitivity

The samples were reported to the LOQ. Elevated non-detect results were reported due to the dilutions analyzed.

1.8 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. Both the limit of detections (LODs) and LOQs were listed in the level II report; however, only the LOQs were listed in the EDD. No other discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

January 26, 2021

Nicki Ryan
EMT
8100 Austin Ave.
Morton Grove, IL 60053

RE: Project: CHW8271N MDCC
Pace Project No.: 10544972

Dear Nicki Ryan:

Enclosed are the analytical results for sample(s) received by the laboratory on January 14, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Ashley Williams
ashley.williams@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Tim Witrzek, EMT



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CHW8271N MDCC

Pace Project No.: 10544972

Pace Analytical Services - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

A2LA Certification #: 2926.01*

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009*

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014*

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605*

Georgia Certification #: 959

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086*

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064*

Maryland Certification #: 322

Massachusetts DWP Certification #: via MN 027-053-137

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137*

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240*

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081*

New Jersey Certification #: MN002

New York Certification #: 11647*

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507*

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001*

Pennsylvania Certification #: 68-00563*

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192*

Utah Certification #: MN00064*

Vermont Certification #: VT-027053137

Virginia Certification #: 460163*

Washington Certification #: C486*

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

Please Note: Applicable air certifications are denoted with an asterisk ().

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: CHW8271N MDCC

Pace Project No.: 10544972

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10544972001	SG-1	Air	01/12/21 08:42	01/14/21 09:30
10544972002	SG-2	Air	01/12/21 09:17	01/14/21 09:30
10544972003	SG-3	Air	01/12/21 09:59	01/14/21 09:30
10544972004	SG-5	Air	01/12/21 11:36	01/14/21 09:30
10544972005	SG-5A	Air	01/12/21 11:36	01/14/21 09:30
10544972006	SG-6	Air	01/12/21 12:20	01/14/21 09:30
10544972007	SG-7	Air	01/12/21 13:02	01/14/21 09:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: CHW8271N MDCC

Pace Project No.: 10544972

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10544972001	SG-1	TO-15	MJL	61	PASI-M
10544972002	SG-2	TO-15	MJL	61	PASI-M
10544972003	SG-3	TO-15	MJL	61	PASI-M
10544972004	SG-5	TO-15	MJL	61	PASI-M
10544972005	SG-5A	TO-15	MJL	61	PASI-M
10544972006	SG-6	TO-15	MJL	61	PASI-M
10544972007	SG-7	TO-15	MJL	61	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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PROJECT NARRATIVE

Project: CHW8271N MDCC

Pace Project No.: 10544972

Method: TO-15

Description: TO15 MSV AIR

Client: Environmental Monitoring & Tech EMT

Date: January 26, 2021

General Information:

7 samples were analyzed for TO-15 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: CHW8271N MDCC

Pace Project No.: 10544972

Sample: SG-1 **Lab ID: 10544972001** Collected: 01/12/21 08:42 Received: 01/14/21 09:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
Acetone	ND	ug/m3	7.9	2.7	1.3		01/25/21 00:38	67-64-1	
Benzene	ND	ug/m3	0.42	0.11	1.3		01/25/21 00:38	71-43-2	
Benzyl chloride	ND	ug/m3	3.4	0.58	1.3		01/25/21 00:38	100-44-7	
Bromodichloromethane	ND	ug/m3	1.8	0.39	1.3		01/25/21 00:38	75-27-4	
Bromoform	ND	ug/m3	6.8	2.4	1.3		01/25/21 00:38	75-25-2	
Bromomethane	ND	ug/m3	1.0	0.30	1.3		01/25/21 00:38	74-83-9	
1,3-Butadiene	ND	ug/m3	0.58	0.15	1.3		01/25/21 00:38	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.9	0.87	1.3		01/25/21 00:38	78-93-3	
Carbon disulfide	1.1	ug/m3	0.82	0.31	1.3		01/25/21 00:38	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.7	0.45	1.3		01/25/21 00:38	56-23-5	
Chlorobenzene	ND	ug/m3	1.2	0.28	1.3		01/25/21 00:38	108-90-7	
Chloroethane	ND	ug/m3	0.70	0.14	1.3		01/25/21 00:38	75-00-3	
Chloroform	ND	ug/m3	0.64	0.20	1.3		01/25/21 00:38	67-66-3	
Chloromethane	ND	ug/m3	0.55	0.15	1.3		01/25/21 00:38	74-87-3	
Cyclohexane	ND	ug/m3	2.3	0.25	1.3		01/25/21 00:38	110-82-7	
Dibromochloromethane	ND	ug/m3	2.2	0.52	1.3		01/25/21 00:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.0	0.29	1.3		01/25/21 00:38	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.6	0.44	1.3		01/25/21 00:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.6	0.50	1.3		01/25/21 00:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.0	0.69	1.3		01/25/21 00:38	106-46-7	
Dichlorodifluoromethane	1.6	ug/m3	1.3	0.26	1.3		01/25/21 00:38	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.22	1.3		01/25/21 00:38	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.53	0.25	1.3		01/25/21 00:38	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.0	0.24	1.3		01/25/21 00:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.0	0.20	1.3		01/25/21 00:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.0	0.18	1.3		01/25/21 00:38	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.2	0.20	1.3		01/25/21 00:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.2	0.24	1.3		01/25/21 00:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.2	0.21	1.3		01/25/21 00:38	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.8	0.53	1.3		01/25/21 00:38	76-14-2	
Ethanol	10.5	ug/m3	2.5	1.2	1.3		01/25/21 00:38	64-17-5	
Ethyl acetate	ND	ug/m3	0.95	0.27	1.3		01/25/21 00:38	141-78-6	
Ethylbenzene	ND	ug/m3	1.1	0.26	1.3		01/25/21 00:38	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.2	0.45	1.3		01/25/21 00:38	622-96-8	
n-Heptane	ND	ug/m3	1.1	0.30	1.3		01/25/21 00:38	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	7.0	3.2	1.3		01/25/21 00:38	87-68-3	
n-Hexane	2.0	ug/m3	0.93	0.28	1.3		01/25/21 00:38	110-54-3	
2-Hexanone	ND	ug/m3	5.4	0.64	1.3		01/25/21 00:38	591-78-6	
Methylene Chloride	ND	ug/m3	4.6	2.0	1.3		01/25/21 00:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.4	0.28	1.3		01/25/21 00:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	4.8	0.17	1.3		01/25/21 00:38	1634-04-4	
Naphthalene	ND	ug/m3	3.5	1.6	1.3		01/25/21 00:38	91-20-3	
2-Propanol	ND	ug/m3	3.2	1.0	1.3		01/25/21 00:38	67-63-0	
Propylene	ND	ug/m3	0.46	0.17	1.3		01/25/21 00:38	115-07-1	
Styrene	ND	ug/m3	1.1	0.42	1.3		01/25/21 00:38	100-42-5	

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ANALYTICAL RESULTS

Project: CHW8271N MDCC

Pace Project No.: 10544972

Sample: SG-1 **Lab ID: 10544972001** Collected: 01/12/21 08:42 Received: 01/14/21 09:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.8	0.20	1.3		01/25/21 00:38	79-34-5	
Tetrachloroethene	1.8	ug/m3	0.90	0.43	1.3		01/25/21 00:38	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.78	0.18	1.3		01/25/21 00:38	109-99-9	
Toluene	ND	ug/m3	1.0	0.25	1.3		01/25/21 00:38	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	9.8	4.3	1.3		01/25/21 00:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.4	0.22	1.3		01/25/21 00:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.72	0.22	1.3		01/25/21 00:38	79-00-5	
Trichloroethene	ND	ug/m3	0.71	0.22	1.3		01/25/21 00:38	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.5	0.50	1.3		01/25/21 00:38	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.0	0.44	1.3		01/25/21 00:38	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.3	0.45	1.3		01/25/21 00:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.3	0.35	1.3		01/25/21 00:38	108-67-8	
Vinyl acetate	ND	ug/m3	0.93	0.18	1.3		01/25/21 00:38	108-05-4	
Vinyl chloride	ND	ug/m3	0.34	0.074	1.3		01/25/21 00:38	75-01-4	
m&p-Xylene	ND	ug/m3	2.3	0.54	1.3		01/25/21 00:38	179601-23-1	
o-Xylene	ND	ug/m3	1.1	0.30	1.3		01/25/21 00:38	95-47-6	

Sample: SG-2 **Lab ID: 10544972002** Collected: 01/12/21 09:17 Received: 01/14/21 09:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	ND	ug/m3	7.9	2.7	1.3		01/25/21 01:11	67-64-1	
Benzene	ND	ug/m3	0.42	0.11	1.3		01/25/21 01:11	71-43-2	
Benzyl chloride	ND	ug/m3	3.4	0.58	1.3		01/25/21 01:11	100-44-7	
Bromodichloromethane	ND	ug/m3	1.8	0.39	1.3		01/25/21 01:11	75-27-4	
Bromoform	ND	ug/m3	6.8	2.4	1.3		01/25/21 01:11	75-25-2	
Bromomethane	ND	ug/m3	1.0	0.30	1.3		01/25/21 01:11	74-83-9	
1,3-Butadiene	ND	ug/m3	0.58	0.15	1.3		01/25/21 01:11	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.9	0.87	1.3		01/25/21 01:11	78-93-3	
Carbon disulfide	1.9	ug/m3	0.82	0.31	1.3		01/25/21 01:11	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.7	0.45	1.3		01/25/21 01:11	56-23-5	
Chlorobenzene	ND	ug/m3	1.2	0.28	1.3		01/25/21 01:11	108-90-7	
Chloroethane	ND	ug/m3	0.70	0.14	1.3		01/25/21 01:11	75-00-3	
Chloroform	ND	ug/m3	0.64	0.20	1.3		01/25/21 01:11	67-66-3	
Chloromethane	ND	ug/m3	0.55	0.15	1.3		01/25/21 01:11	74-87-3	
Cyclohexane	ND	ug/m3	2.3	0.25	1.3		01/25/21 01:11	110-82-7	
Dibromochloromethane	ND	ug/m3	2.2	0.52	1.3		01/25/21 01:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.0	0.29	1.3		01/25/21 01:11	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.6	0.44	1.3		01/25/21 01:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.6	0.50	1.3		01/25/21 01:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.0	0.69	1.3		01/25/21 01:11	106-46-7	

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ANALYTICAL RESULTS

Project: CHW8271N MDCC

Pace Project No.: 10544972

Sample: SG-2 **Lab ID: 10544972002** Collected: 01/12/21 09:17 Received: 01/14/21 09:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
Dichlorodifluoromethane	ND	ug/m3	1.3	0.26	1.3		01/25/21 01:11	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.22	1.3		01/25/21 01:11	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.53	0.25	1.3		01/25/21 01:11	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.0	0.24	1.3		01/25/21 01:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.0	0.20	1.3		01/25/21 01:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.0	0.18	1.3		01/25/21 01:11	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.2	0.20	1.3		01/25/21 01:11	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.2	0.24	1.3		01/25/21 01:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.2	0.21	1.3		01/25/21 01:11	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.8	0.53	1.3		01/25/21 01:11	76-14-2	
Ethanol	5.0	ug/m3	2.5	1.2	1.3		01/25/21 01:11	64-17-5	
Ethyl acetate	ND	ug/m3	0.95	0.27	1.3		01/25/21 01:11	141-78-6	
Ethylbenzene	ND	ug/m3	1.1	0.26	1.3		01/25/21 01:11	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.2	0.45	1.3		01/25/21 01:11	622-96-8	
n-Heptane	ND	ug/m3	1.1	0.30	1.3		01/25/21 01:11	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	7.0	3.2	1.3		01/25/21 01:11	87-68-3	
n-Hexane	ND	ug/m3	0.93	0.28	1.3		01/25/21 01:11	110-54-3	
2-Hexanone	ND	ug/m3	5.4	0.64	1.3		01/25/21 01:11	591-78-6	
Methylene Chloride	ND	ug/m3	4.6	2.0	1.3		01/25/21 01:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.4	0.28	1.3		01/25/21 01:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	4.8	0.17	1.3		01/25/21 01:11	1634-04-4	
Naphthalene	ND	ug/m3	3.5	1.6	1.3		01/25/21 01:11	91-20-3	
2-Propanol	ND	ug/m3	3.2	1.0	1.3		01/25/21 01:11	67-63-0	
Propylene	ND	ug/m3	0.46	0.17	1.3		01/25/21 01:11	115-07-1	
Styrene	ND	ug/m3	1.1	0.42	1.3		01/25/21 01:11	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.8	0.20	1.3		01/25/21 01:11	79-34-5	
Tetrachloroethene	6.4	ug/m3	0.90	0.43	1.3		01/25/21 01:11	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.78	0.18	1.3		01/25/21 01:11	109-99-9	
Toluene	ND	ug/m3	1.0	0.25	1.3		01/25/21 01:11	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	9.8	4.3	1.3		01/25/21 01:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.4	0.22	1.3		01/25/21 01:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.72	0.22	1.3		01/25/21 01:11	79-00-5	
Trichloroethene	ND	ug/m3	0.71	0.22	1.3		01/25/21 01:11	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.5	0.50	1.3		01/25/21 01:11	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.0	0.44	1.3		01/25/21 01:11	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.3	0.45	1.3		01/25/21 01:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.3	0.35	1.3		01/25/21 01:11	108-67-8	
Vinyl acetate	ND	ug/m3	0.93	0.18	1.3		01/25/21 01:11	108-05-4	
Vinyl chloride	ND	ug/m3	0.34	0.074	1.3		01/25/21 01:11	75-01-4	
m&p-Xylene	ND	ug/m3	2.3	0.54	1.3		01/25/21 01:11	179601-23-1	
o-Xylene	ND	ug/m3	1.1	0.30	1.3		01/25/21 01:11	95-47-6	

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ANALYTICAL RESULTS

Project: CHW8271N MDCC

Pace Project No.: 10544972

Sample: SG-3 **Lab ID: 10544972003** Collected: 01/12/21 09:59 Received: 01/14/21 09:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
Acetone	17.2	ug/m3	7.9	2.7	1.3		01/25/21 01:44	67-64-1	
Benzene	ND	ug/m3	0.42	0.11	1.3		01/25/21 01:44	71-43-2	
Benzyl chloride	ND	ug/m3	3.4	0.58	1.3		01/25/21 01:44	100-44-7	
Bromodichloromethane	ND	ug/m3	1.8	0.39	1.3		01/25/21 01:44	75-27-4	
Bromoform	ND	ug/m3	6.8	2.4	1.3		01/25/21 01:44	75-25-2	
Bromomethane	ND	ug/m3	1.0	0.30	1.3		01/25/21 01:44	74-83-9	
1,3-Butadiene	ND	ug/m3	0.58	0.15	1.3		01/25/21 01:44	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.9	0.87	1.3		01/25/21 01:44	78-93-3	
Carbon disulfide	1.2	ug/m3	0.82	0.31	1.3		01/25/21 01:44	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.7	0.45	1.3		01/25/21 01:44	56-23-5	
Chlorobenzene	ND	ug/m3	1.2	0.28	1.3		01/25/21 01:44	108-90-7	
Chloroethane	ND	ug/m3	0.70	0.14	1.3		01/25/21 01:44	75-00-3	
Chloroform	2.2	ug/m3	0.64	0.20	1.3		01/25/21 01:44	67-66-3	
Chloromethane	ND	ug/m3	0.55	0.15	1.3		01/25/21 01:44	74-87-3	
Cyclohexane	ND	ug/m3	2.3	0.25	1.3		01/25/21 01:44	110-82-7	
Dibromochloromethane	ND	ug/m3	2.2	0.52	1.3		01/25/21 01:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.0	0.29	1.3		01/25/21 01:44	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.6	0.44	1.3		01/25/21 01:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.6	0.50	1.3		01/25/21 01:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.0	0.69	1.3		01/25/21 01:44	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.3	0.26	1.3		01/25/21 01:44	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.22	1.3		01/25/21 01:44	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.53	0.25	1.3		01/25/21 01:44	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.0	0.24	1.3		01/25/21 01:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.0	0.20	1.3		01/25/21 01:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.0	0.18	1.3		01/25/21 01:44	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.2	0.20	1.3		01/25/21 01:44	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.2	0.24	1.3		01/25/21 01:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.2	0.21	1.3		01/25/21 01:44	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.8	0.53	1.3		01/25/21 01:44	76-14-2	
Ethanol	17.0	ug/m3	2.5	1.2	1.3		01/25/21 01:44	64-17-5	
Ethyl acetate	ND	ug/m3	0.95	0.27	1.3		01/25/21 01:44	141-78-6	
Ethylbenzene	ND	ug/m3	1.1	0.26	1.3		01/25/21 01:44	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.2	0.45	1.3		01/25/21 01:44	622-96-8	
n-Heptane	ND	ug/m3	1.1	0.30	1.3		01/25/21 01:44	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	7.0	3.2	1.3		01/25/21 01:44	87-68-3	
n-Hexane	ND	ug/m3	0.93	0.28	1.3		01/25/21 01:44	110-54-3	
2-Hexanone	ND	ug/m3	5.4	0.64	1.3		01/25/21 01:44	591-78-6	
Methylene Chloride	ND	ug/m3	4.6	2.0	1.3		01/25/21 01:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.4	0.28	1.3		01/25/21 01:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	4.8	0.17	1.3		01/25/21 01:44	1634-04-4	
Naphthalene	ND	ug/m3	3.5	1.6	1.3		01/25/21 01:44	91-20-3	
2-Propanol	9.5	ug/m3	3.2	1.0	1.3		01/25/21 01:44	67-63-0	
Propylene	ND	ug/m3	0.46	0.17	1.3		01/25/21 01:44	115-07-1	
Styrene	ND	ug/m3	1.1	0.42	1.3		01/25/21 01:44	100-42-5	

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ANALYTICAL RESULTS

Project: CHW8271N MDCC

Pace Project No.: 10544972

Sample: SG-3 **Lab ID: 10544972003** Collected: 01/12/21 09:59 Received: 01/14/21 09:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.8	0.20	1.3		01/25/21 01:44	79-34-5	
Tetrachloroethene	16.4	ug/m3	0.90	0.43	1.3		01/25/21 01:44	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.78	0.18	1.3		01/25/21 01:44	109-99-9	
Toluene	ND	ug/m3	1.0	0.25	1.3		01/25/21 01:44	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	9.8	4.3	1.3		01/25/21 01:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.4	0.22	1.3		01/25/21 01:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.72	0.22	1.3		01/25/21 01:44	79-00-5	
Trichloroethene	2.1	ug/m3	0.71	0.22	1.3		01/25/21 01:44	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.5	0.50	1.3		01/25/21 01:44	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.0	0.44	1.3		01/25/21 01:44	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.3	0.45	1.3		01/25/21 01:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.3	0.35	1.3		01/25/21 01:44	108-67-8	
Vinyl acetate	ND	ug/m3	0.93	0.18	1.3		01/25/21 01:44	108-05-4	
Vinyl chloride	ND	ug/m3	0.34	0.074	1.3		01/25/21 01:44	75-01-4	
m&p-Xylene	ND	ug/m3	2.3	0.54	1.3		01/25/21 01:44	179601-23-1	
o-Xylene	ND	ug/m3	1.1	0.30	1.3		01/25/21 01:44	95-47-6	

Sample: SG-5 **Lab ID: 10544972004** Collected: 01/12/21 11:36 Received: 01/14/21 09:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	ND	ug/m3	162	54.9	26.8		01/25/21 02:12	67-64-1	
Benzene	ND	ug/m3	8.7	2.3	26.8		01/25/21 02:12	71-43-2	
Benzyl chloride	ND	ug/m3	70.5	12.0	26.8		01/25/21 02:12	100-44-7	
Bromodichloromethane	ND	ug/m3	36.4	8.0	26.8		01/25/21 02:12	75-27-4	
Bromoform	ND	ug/m3	141	48.5	26.8		01/25/21 02:12	75-25-2	
Bromomethane	ND	ug/m3	21.1	6.2	26.8		01/25/21 02:12	74-83-9	
1,3-Butadiene	ND	ug/m3	12.1	3.1	26.8		01/25/21 02:12	106-99-0	
2-Butanone (MEK)	ND	ug/m3	80.4	18.0	26.8		01/25/21 02:12	78-93-3	
Carbon disulfide	ND	ug/m3	17.0	6.4	26.8		01/25/21 02:12	75-15-0	
Carbon tetrachloride	ND	ug/m3	34.3	9.2	26.8		01/25/21 02:12	56-23-5	
Chlorobenzene	ND	ug/m3	25.1	5.8	26.8		01/25/21 02:12	108-90-7	
Chloroethane	ND	ug/m3	14.4	2.8	26.8		01/25/21 02:12	75-00-3	
Chloroform	ND	ug/m3	13.3	4.0	26.8		01/25/21 02:12	67-66-3	
Chloromethane	ND	ug/m3	11.3	3.2	26.8		01/25/21 02:12	74-87-3	
Cyclohexane	ND	ug/m3	46.9	5.1	26.8		01/25/21 02:12	110-82-7	
Dibromochloromethane	ND	ug/m3	46.4	10.7	26.8		01/25/21 02:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	20.9	5.9	26.8		01/25/21 02:12	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	32.7	9.0	26.8		01/25/21 02:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	32.7	10.3	26.8		01/25/21 02:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	82.0	14.2	26.8		01/25/21 02:12	106-46-7	

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ANALYTICAL RESULTS

Project: CHW8271N MDCC

Pace Project No.: 10544972

Sample: SG-5 **Lab ID: 10544972004** Collected: 01/12/21 11:36 Received: 01/14/21 09:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
Dichlorodifluoromethane	ND	ug/m3	27.1	5.3	26.8		01/25/21 02:12	75-71-8	
1,1-Dichloroethane	ND	ug/m3	22.1	4.6	26.8		01/25/21 02:12	75-34-3	
1,2-Dichloroethane	ND	ug/m3	11.0	5.1	26.8		01/25/21 02:12	107-06-2	
1,1-Dichloroethene	ND	ug/m3	21.6	4.9	26.8		01/25/21 02:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	21.6	4.0	26.8		01/25/21 02:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	21.6	3.8	26.8		01/25/21 02:12	156-60-5	
1,2-Dichloropropane	ND	ug/m3	25.2	4.2	26.8		01/25/21 02:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	24.7	4.9	26.8		01/25/21 02:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	24.7	4.2	26.8		01/25/21 02:12	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	38.1	10.9	26.8		01/25/21 02:12	76-14-2	
Ethanol	ND	ug/m3	51.5	25.2	26.8		01/25/21 02:12	64-17-5	
Ethyl acetate	ND	ug/m3	19.6	5.7	26.8		01/25/21 02:12	141-78-6	
Ethylbenzene	ND	ug/m3	23.7	5.3	26.8		01/25/21 02:12	100-41-4	
4-Ethyltoluene	ND	ug/m3	67.0	9.4	26.8		01/25/21 02:12	622-96-8	
n-Heptane	ND	ug/m3	22.3	6.2	26.8		01/25/21 02:12	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	145	65.1	26.8		01/25/21 02:12	87-68-3	
n-Hexane	ND	ug/m3	19.2	5.7	26.8		01/25/21 02:12	110-54-3	
2-Hexanone	ND	ug/m3	111	13.3	26.8		01/25/21 02:12	591-78-6	
Methylene Chloride	ND	ug/m3	94.6	42.1	26.8		01/25/21 02:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	111	5.8	26.8		01/25/21 02:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	98.1	3.5	26.8		01/25/21 02:12	1634-04-4	
Naphthalene	ND	ug/m3	71.3	33.2	26.8		01/25/21 02:12	91-20-3	
2-Propanol	ND	ug/m3	67.0	21.1	26.8		01/25/21 02:12	67-63-0	
Propylene	ND	ug/m3	9.4	3.5	26.8		01/25/21 02:12	115-07-1	
Styrene	ND	ug/m3	23.2	8.7	26.8		01/25/21 02:12	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	37.4	4.1	26.8		01/25/21 02:12	79-34-5	
Tetrachloroethene	2520	ug/m3	18.5	8.8	26.8		01/25/21 02:12	127-18-4	
Tetrahydrofuran	ND	ug/m3	16.1	3.7	26.8		01/25/21 02:12	109-99-9	
Toluene	ND	ug/m3	20.5	5.3	26.8		01/25/21 02:12	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	202	88.7	26.8		01/25/21 02:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	29.7	4.4	26.8		01/25/21 02:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	14.9	4.5	26.8		01/25/21 02:12	79-00-5	
Trichloroethene	180	ug/m3	14.6	4.5	26.8		01/25/21 02:12	79-01-6	
Trichlorofluoromethane	ND	ug/m3	30.6	10.3	26.8		01/25/21 02:12	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	41.8	9.0	26.8		01/25/21 02:12	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	26.8	9.4	26.8		01/25/21 02:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	26.8	7.2	26.8		01/25/21 02:12	108-67-8	
Vinyl acetate	ND	ug/m3	19.2	3.6	26.8		01/25/21 02:12	108-05-4	
Vinyl chloride	ND	ug/m3	7.0	1.5	26.8		01/25/21 02:12	75-01-4	
m&p-Xylene	ND	ug/m3	47.4	11.1	26.8		01/25/21 02:12	179601-23-1	
o-Xylene	ND	ug/m3	23.7	6.3	26.8		01/25/21 02:12	95-47-6	

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ANALYTICAL RESULTS

Project: CHW8271N MDCC

Pace Project No.: 10544972

Sample: SG-5A **Lab ID: 10544972005** Collected: 01/12/21 11:36 Received: 01/14/21 09:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
Acetone	ND	ug/m3	162	54.9	26.8		01/25/21 02:41	67-64-1	
Benzene	ND	ug/m3	8.7	2.3	26.8		01/25/21 02:41	71-43-2	
Benzyl chloride	ND	ug/m3	70.5	12.0	26.8		01/25/21 02:41	100-44-7	
Bromodichloromethane	ND	ug/m3	36.4	8.0	26.8		01/25/21 02:41	75-27-4	
Bromoform	ND	ug/m3	141	48.5	26.8		01/25/21 02:41	75-25-2	
Bromomethane	ND	ug/m3	21.1	6.2	26.8		01/25/21 02:41	74-83-9	
1,3-Butadiene	ND	ug/m3	12.1	3.1	26.8		01/25/21 02:41	106-99-0	
2-Butanone (MEK)	ND	ug/m3	80.4	18.0	26.8		01/25/21 02:41	78-93-3	
Carbon disulfide	ND	ug/m3	17.0	6.4	26.8		01/25/21 02:41	75-15-0	
Carbon tetrachloride	ND	ug/m3	34.3	9.2	26.8		01/25/21 02:41	56-23-5	
Chlorobenzene	ND	ug/m3	25.1	5.8	26.8		01/25/21 02:41	108-90-7	
Chloroethane	ND	ug/m3	14.4	2.8	26.8		01/25/21 02:41	75-00-3	
Chloroform	ND	ug/m3	13.3	4.0	26.8		01/25/21 02:41	67-66-3	
Chloromethane	ND	ug/m3	11.3	3.2	26.8		01/25/21 02:41	74-87-3	
Cyclohexane	ND	ug/m3	46.9	5.1	26.8		01/25/21 02:41	110-82-7	
Dibromochloromethane	ND	ug/m3	46.4	10.7	26.8		01/25/21 02:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	20.9	5.9	26.8		01/25/21 02:41	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	32.7	9.0	26.8		01/25/21 02:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	32.7	10.3	26.8		01/25/21 02:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	82.0	14.2	26.8		01/25/21 02:41	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	27.1	5.3	26.8		01/25/21 02:41	75-71-8	
1,1-Dichloroethane	ND	ug/m3	22.1	4.6	26.8		01/25/21 02:41	75-34-3	
1,2-Dichloroethane	ND	ug/m3	11.0	5.1	26.8		01/25/21 02:41	107-06-2	
1,1-Dichloroethene	ND	ug/m3	21.6	4.9	26.8		01/25/21 02:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	21.6	4.0	26.8		01/25/21 02:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	21.6	3.8	26.8		01/25/21 02:41	156-60-5	
1,2-Dichloropropane	ND	ug/m3	25.2	4.2	26.8		01/25/21 02:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	24.7	4.9	26.8		01/25/21 02:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	24.7	4.2	26.8		01/25/21 02:41	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	38.1	10.9	26.8		01/25/21 02:41	76-14-2	
Ethanol	ND	ug/m3	51.5	25.2	26.8		01/25/21 02:41	64-17-5	
Ethyl acetate	ND	ug/m3	19.6	5.7	26.8		01/25/21 02:41	141-78-6	
Ethylbenzene	ND	ug/m3	23.7	5.3	26.8		01/25/21 02:41	100-41-4	
4-Ethyltoluene	ND	ug/m3	67.0	9.4	26.8		01/25/21 02:41	622-96-8	
n-Heptane	ND	ug/m3	22.3	6.2	26.8		01/25/21 02:41	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	145	65.1	26.8		01/25/21 02:41	87-68-3	
n-Hexane	ND	ug/m3	19.2	5.7	26.8		01/25/21 02:41	110-54-3	
2-Hexanone	ND	ug/m3	111	13.3	26.8		01/25/21 02:41	591-78-6	
Methylene Chloride	ND	ug/m3	94.6	42.1	26.8		01/25/21 02:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	111	5.8	26.8		01/25/21 02:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	98.1	3.5	26.8		01/25/21 02:41	1634-04-4	
Naphthalene	ND	ug/m3	71.3	33.2	26.8		01/25/21 02:41	91-20-3	
2-Propanol	ND	ug/m3	67.0	21.1	26.8		01/25/21 02:41	67-63-0	
Propylene	ND	ug/m3	9.4	3.5	26.8		01/25/21 02:41	115-07-1	
Styrene	ND	ug/m3	23.2	8.7	26.8		01/25/21 02:41	100-42-5	

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ANALYTICAL RESULTS

Project: CHW8271N MDCC

Pace Project No.: 10544972

Sample: SG-5A **Lab ID: 10544972005** Collected: 01/12/21 11:36 Received: 01/14/21 09:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,1,2,2-Tetrachloroethane	ND	ug/m3	37.4	4.1	26.8		01/25/21 02:41	79-34-5	
Tetrachloroethene	2410	ug/m3	18.5	8.8	26.8		01/25/21 02:41	127-18-4	
Tetrahydrofuran	ND	ug/m3	16.1	3.7	26.8		01/25/21 02:41	109-99-9	
Toluene	ND	ug/m3	20.5	5.3	26.8		01/25/21 02:41	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	202	88.7	26.8		01/25/21 02:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	29.7	4.4	26.8		01/25/21 02:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	14.9	4.5	26.8		01/25/21 02:41	79-00-5	
Trichloroethene	181	ug/m3	14.6	4.5	26.8		01/25/21 02:41	79-01-6	
Trichlorofluoromethane	ND	ug/m3	30.6	10.3	26.8		01/25/21 02:41	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	41.8	9.0	26.8		01/25/21 02:41	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	26.8	9.4	26.8		01/25/21 02:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	26.8	7.2	26.8		01/25/21 02:41	108-67-8	
Vinyl acetate	ND	ug/m3	19.2	3.6	26.8		01/25/21 02:41	108-05-4	
Vinyl chloride	ND	ug/m3	7.0	1.5	26.8		01/25/21 02:41	75-01-4	
m&p-Xylene	ND	ug/m3	47.4	11.1	26.8		01/25/21 02:41	179601-23-1	
o-Xylene	ND	ug/m3	23.7	6.3	26.8		01/25/21 02:41	95-47-6	

Sample: SG-6 **Lab ID: 10544972006** Collected: 01/12/21 12:20 Received: 01/14/21 09:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	ND	ug/m3	236	80.0	39		01/25/21 03:09	67-64-1	
Benzene	ND	ug/m3	12.7	3.3	39		01/25/21 03:09	71-43-2	
Benzyl chloride	ND	ug/m3	103	17.5	39		01/25/21 03:09	100-44-7	
Bromodichloromethane	ND	ug/m3	53.0	11.6	39		01/25/21 03:09	75-27-4	
Bromoform	ND	ug/m3	205	70.6	39		01/25/21 03:09	75-25-2	
Bromomethane	ND	ug/m3	30.8	9.1	39		01/25/21 03:09	74-83-9	
1,3-Butadiene	ND	ug/m3	17.6	4.5	39		01/25/21 03:09	106-99-0	
2-Butanone (MEK)	ND	ug/m3	117	26.2	39		01/25/21 03:09	78-93-3	
Carbon disulfide	ND	ug/m3	24.7	9.3	39		01/25/21 03:09	75-15-0	
Carbon tetrachloride	ND	ug/m3	49.9	13.4	39		01/25/21 03:09	56-23-5	
Chlorobenzene	ND	ug/m3	36.5	8.4	39		01/25/21 03:09	108-90-7	
Chloroethane	ND	ug/m3	20.9	4.1	39		01/25/21 03:09	75-00-3	
Chloroform	ND	ug/m3	19.3	5.8	39		01/25/21 03:09	67-66-3	
Chloromethane	ND	ug/m3	16.4	4.6	39		01/25/21 03:09	74-87-3	
Cyclohexane	ND	ug/m3	68.2	7.4	39		01/25/21 03:09	110-82-7	
Dibromochloromethane	ND	ug/m3	67.5	15.5	39		01/25/21 03:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	30.5	8.6	39		01/25/21 03:09	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	47.6	13.1	39		01/25/21 03:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	47.6	15.1	39		01/25/21 03:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	119	20.6	39		01/25/21 03:09	106-46-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CHW8271N MDCC

Pace Project No.: 10544972

Sample: SG-6 **Lab ID: 10544972006** Collected: 01/12/21 12:20 Received: 01/14/21 09:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
Dichlorodifluoromethane	ND	ug/m3	39.4	7.7	39		01/25/21 03:09	75-71-8	
1,1-Dichloroethane	1700	ug/m3	32.1	6.6	39		01/25/21 03:09	75-34-3	
1,2-Dichloroethane	ND	ug/m3	16.0	7.5	39		01/25/21 03:09	107-06-2	
1,1-Dichloroethene	36.8	ug/m3	31.4	7.2	39		01/25/21 03:09	75-35-4	
cis-1,2-Dichloroethene	1810	ug/m3	31.4	5.8	39		01/25/21 03:09	156-59-2	
trans-1,2-Dichloroethene	164	ug/m3	31.4	5.5	39		01/25/21 03:09	156-60-5	
1,2-Dichloropropane	ND	ug/m3	36.6	6.0	39		01/25/21 03:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	36.0	7.2	39		01/25/21 03:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	36.0	6.2	39		01/25/21 03:09	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	55.4	15.9	39		01/25/21 03:09	76-14-2	
Ethanol	ND	ug/m3	74.9	36.7	39		01/25/21 03:09	64-17-5	
Ethyl acetate	ND	ug/m3	28.6	8.2	39		01/25/21 03:09	141-78-6	
Ethylbenzene	ND	ug/m3	34.4	7.7	39		01/25/21 03:09	100-41-4	
4-Ethyltoluene	ND	ug/m3	97.5	13.6	39		01/25/21 03:09	622-96-8	
n-Heptane	ND	ug/m3	32.5	9.1	39		01/25/21 03:09	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	211	94.8	39		01/25/21 03:09	87-68-3	
n-Hexane	ND	ug/m3	27.9	8.3	39		01/25/21 03:09	110-54-3	
2-Hexanone	ND	ug/m3	162	19.3	39		01/25/21 03:09	591-78-6	
Methylene Chloride	ND	ug/m3	138	61.2	39		01/25/21 03:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	162	8.5	39		01/25/21 03:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	143	5.0	39		01/25/21 03:09	1634-04-4	
Naphthalene	ND	ug/m3	104	48.4	39		01/25/21 03:09	91-20-3	
2-Propanol	ND	ug/m3	97.5	30.8	39		01/25/21 03:09	67-63-0	
Propylene	ND	ug/m3	13.6	5.0	39		01/25/21 03:09	115-07-1	
Styrene	ND	ug/m3	33.8	12.7	39		01/25/21 03:09	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	54.4	6.0	39		01/25/21 03:09	79-34-5	
Tetrachloroethene	ND	ug/m3	26.9	12.8	39		01/25/21 03:09	127-18-4	
Tetrahydrofuran	ND	ug/m3	23.4	5.4	39		01/25/21 03:09	109-99-9	
Toluene	ND	ug/m3	29.9	7.6	39		01/25/21 03:09	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	294	129	39		01/25/21 03:09	120-82-1	
1,1,1-Trichloroethane	720	ug/m3	43.3	6.5	39		01/25/21 03:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	21.6	6.6	39		01/25/21 03:09	79-00-5	
Trichloroethene	316	ug/m3	21.3	6.6	39		01/25/21 03:09	79-01-6	
Trichlorofluoromethane	ND	ug/m3	44.5	15.0	39		01/25/21 03:09	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	60.8	13.1	39		01/25/21 03:09	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	39.0	13.6	39		01/25/21 03:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	39.0	10.4	39		01/25/21 03:09	108-67-8	
Vinyl acetate	ND	ug/m3	27.9	5.3	39		01/25/21 03:09	108-05-4	
Vinyl chloride	1960	ug/m3	10.1	2.2	39		01/25/21 03:09	75-01-4	
m&p-Xylene	ND	ug/m3	69.0	16.1	39		01/25/21 03:09	179601-23-1	
o-Xylene	ND	ug/m3	34.4	9.1	39		01/25/21 03:09	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CHW8271N MDCC

Pace Project No.: 10544972

Sample: SG-7 **Lab ID: 10544972007** Collected: 01/12/21 13:02 Received: 01/14/21 09:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	ND	ug/m3	243	82.4	40.2		01/25/21 03:37	67-64-1	
Benzene	ND	ug/m3	13.1	3.4	40.2		01/25/21 03:37	71-43-2	
Benzyl chloride	ND	ug/m3	106	18.0	40.2		01/25/21 03:37	100-44-7	
Bromodichloromethane	ND	ug/m3	54.7	12.0	40.2		01/25/21 03:37	75-27-4	
Bromoform	ND	ug/m3	211	72.8	40.2		01/25/21 03:37	75-25-2	
Bromomethane	ND	ug/m3	31.7	9.4	40.2		01/25/21 03:37	74-83-9	
1,3-Butadiene	ND	ug/m3	18.1	4.7	40.2		01/25/21 03:37	106-99-0	
2-Butanone (MEK)	ND	ug/m3	121	27.0	40.2		01/25/21 03:37	78-93-3	
Carbon disulfide	ND	ug/m3	25.4	9.6	40.2		01/25/21 03:37	75-15-0	
Carbon tetrachloride	ND	ug/m3	51.5	13.8	40.2		01/25/21 03:37	56-23-5	
Chlorobenzene	ND	ug/m3	37.6	8.7	40.2		01/25/21 03:37	108-90-7	
Chloroethane	ND	ug/m3	21.5	4.2	40.2		01/25/21 03:37	75-00-3	
Chloroform	ND	ug/m3	19.9	6.0	40.2		01/25/21 03:37	67-66-3	
Chloromethane	ND	ug/m3	16.9	4.7	40.2		01/25/21 03:37	74-87-3	
Cyclohexane	ND	ug/m3	70.4	7.6	40.2		01/25/21 03:37	110-82-7	
Dibromochloromethane	ND	ug/m3	69.5	16.0	40.2		01/25/21 03:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	31.4	8.9	40.2		01/25/21 03:37	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	49.0	13.5	40.2		01/25/21 03:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	49.0	15.5	40.2		01/25/21 03:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	123	21.2	40.2		01/25/21 03:37	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	40.6	8.0	40.2		01/25/21 03:37	75-71-8	
1,1-Dichloroethane	ND	ug/m3	33.1	6.8	40.2		01/25/21 03:37	75-34-3	
1,2-Dichloroethane	ND	ug/m3	16.5	7.7	40.2		01/25/21 03:37	107-06-2	
1,1-Dichloroethene	ND	ug/m3	32.4	7.4	40.2		01/25/21 03:37	75-35-4	
cis-1,2-Dichloroethene	1090	ug/m3	32.4	6.0	40.2		01/25/21 03:37	156-59-2	
trans-1,2-Dichloroethene	177	ug/m3	32.4	5.7	40.2		01/25/21 03:37	156-60-5	
1,2-Dichloropropane	ND	ug/m3	37.7	6.2	40.2		01/25/21 03:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	37.1	7.4	40.2		01/25/21 03:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	37.1	6.4	40.2		01/25/21 03:37	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	57.1	16.4	40.2		01/25/21 03:37	76-14-2	
Ethanol	ND	ug/m3	77.2	37.9	40.2		01/25/21 03:37	64-17-5	
Ethyl acetate	ND	ug/m3	29.5	8.5	40.2		01/25/21 03:37	141-78-6	
Ethylbenzene	ND	ug/m3	35.5	8.0	40.2		01/25/21 03:37	100-41-4	
4-Ethyltoluene	ND	ug/m3	100	14.0	40.2		01/25/21 03:37	622-96-8	
n-Heptane	ND	ug/m3	33.5	9.4	40.2		01/25/21 03:37	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	218	97.7	40.2		01/25/21 03:37	87-68-3	
n-Hexane	ND	ug/m3	28.8	8.6	40.2		01/25/21 03:37	110-54-3	
2-Hexanone	ND	ug/m3	167	19.9	40.2		01/25/21 03:37	591-78-6	
Methylene Chloride	ND	ug/m3	142	63.1	40.2		01/25/21 03:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	167	8.7	40.2		01/25/21 03:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	147	5.2	40.2		01/25/21 03:37	1634-04-4	
Naphthalene	ND	ug/m3	107	49.8	40.2		01/25/21 03:37	91-20-3	
2-Propanol	ND	ug/m3	100	31.7	40.2		01/25/21 03:37	67-63-0	
Propylene	ND	ug/m3	14.1	5.2	40.2		01/25/21 03:37	115-07-1	
Styrene	ND	ug/m3	34.8	13.1	40.2		01/25/21 03:37	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CHW8271N MDCC

Pace Project No.: 10544972

Sample: SG-7 **Lab ID: 10544972007** Collected: 01/12/21 13:02 Received: 01/14/21 09:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,1,2,2-Tetrachloroethane	ND	ug/m3	56.1	6.2	40.2		01/25/21 03:37	79-34-5	
Tetrachloroethene	35.1	ug/m3	27.7	13.2	40.2		01/25/21 03:37	127-18-4	
Tetrahydrofuran	ND	ug/m3	24.1	5.5	40.2		01/25/21 03:37	109-99-9	
Toluene	ND	ug/m3	30.8	7.9	40.2		01/25/21 03:37	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	303	133	40.2		01/25/21 03:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	44.6	6.7	40.2		01/25/21 03:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	22.3	6.8	40.2		01/25/21 03:37	79-00-5	
Trichloroethene	44.8	ug/m3	21.9	6.8	40.2		01/25/21 03:37	79-01-6	
Trichlorofluoromethane	ND	ug/m3	45.8	15.4	40.2		01/25/21 03:37	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	62.7	13.5	40.2		01/25/21 03:37	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	40.2	14.0	40.2		01/25/21 03:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	40.2	10.7	40.2		01/25/21 03:37	108-67-8	
Vinyl acetate	ND	ug/m3	28.8	5.4	40.2		01/25/21 03:37	108-05-4	
Vinyl chloride	ND	ug/m3	10.5	2.3	40.2		01/25/21 03:37	75-01-4	
m&p-Xylene	ND	ug/m3	71.2	16.6	40.2		01/25/21 03:37	179601-23-1	
o-Xylene	ND	ug/m3	35.5	9.4	40.2		01/25/21 03:37	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CHW8271N MDCC

Pace Project No.: 10544972

QC Batch: 721881

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10544972001, 10544972002, 10544972003, 10544972004, 10544972005, 10544972006, 10544972007

METHOD BLANK: 3850172

Matrix: Air

Associated Lab Samples: 10544972001, 10544972002, 10544972003, 10544972004, 10544972005, 10544972006, 10544972007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	01/24/21 12:32	
1,1,2,2-Tetrachloroethane	ug/m3	ND	1.4	01/24/21 12:32	MN
1,1,2-Trichloroethane	ug/m3	ND	0.56	01/24/21 12:32	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	01/24/21 12:32	
1,1-Dichloroethane	ug/m3	ND	0.82	01/24/21 12:32	
1,1-Dichloroethene	ug/m3	ND	0.81	01/24/21 12:32	
1,2,4-Trichlorobenzene	ug/m3	ND	7.5	01/24/21 12:32	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	01/24/21 12:32	
1,2-Dibromoethane (EDB)	ug/m3	ND	0.78	01/24/21 12:32	
1,2-Dichlorobenzene	ug/m3	ND	1.2	01/24/21 12:32	
1,2-Dichloroethane	ug/m3	ND	0.41	01/24/21 12:32	
1,2-Dichloropropane	ug/m3	ND	0.94	01/24/21 12:32	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	01/24/21 12:32	
1,3-Butadiene	ug/m3	ND	0.45	01/24/21 12:32	
1,3-Dichlorobenzene	ug/m3	ND	1.2	01/24/21 12:32	
1,4-Dichlorobenzene	ug/m3	ND	3.1	01/24/21 12:32	
2-Butanone (MEK)	ug/m3	ND	3.0	01/24/21 12:32	
2-Hexanone	ug/m3	ND	4.2	01/24/21 12:32	
2-Propanol	ug/m3	ND	2.5	01/24/21 12:32	
4-Ethyltoluene	ug/m3	ND	2.5	01/24/21 12:32	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	01/24/21 12:32	
Acetone	ug/m3	ND	6.0	01/24/21 12:32	
Benzene	ug/m3	ND	0.32	01/24/21 12:32	
Benzyl chloride	ug/m3	ND	2.6	01/24/21 12:32	
Bromodichloromethane	ug/m3	ND	1.4	01/24/21 12:32	
Bromoform	ug/m3	ND	5.2	01/24/21 12:32	
Bromomethane	ug/m3	ND	0.79	01/24/21 12:32	
Carbon disulfide	ug/m3	ND	0.63	01/24/21 12:32	
Carbon tetrachloride	ug/m3	ND	1.3	01/24/21 12:32	
Chlorobenzene	ug/m3	ND	0.94	01/24/21 12:32	
Chloroethane	ug/m3	ND	0.54	01/24/21 12:32	
Chloroform	ug/m3	ND	0.50	01/24/21 12:32	
Chloromethane	ug/m3	ND	0.42	01/24/21 12:32	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	01/24/21 12:32	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	01/24/21 12:32	
Cyclohexane	ug/m3	ND	1.8	01/24/21 12:32	
Dibromochloromethane	ug/m3	ND	1.7	01/24/21 12:32	
Dichlorodifluoromethane	ug/m3	ND	1.0	01/24/21 12:32	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	01/24/21 12:32	
Ethanol	ug/m3	ND	1.9	01/24/21 12:32	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: CHW8271N MDCC

Pace Project No.: 10544972

METHOD BLANK: 3850172

Matrix: Air

Associated Lab Samples: 10544972001, 10544972002, 10544972003, 10544972004, 10544972005, 10544972006, 10544972007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl acetate	ug/m3	ND	0.73	01/24/21 12:32	
Ethylbenzene	ug/m3	ND	0.88	01/24/21 12:32	
Hexachloro-1,3-butadiene	ug/m3	ND	5.4	01/24/21 12:32	
m&p-Xylene	ug/m3	ND	1.8	01/24/21 12:32	
Methyl-tert-butyl ether	ug/m3	ND	3.7	01/24/21 12:32	
Methylene Chloride	ug/m3	ND	3.5	01/24/21 12:32	
n-Heptane	ug/m3	ND	0.83	01/24/21 12:32	
n-Hexane	ug/m3	ND	0.72	01/24/21 12:32	
Naphthalene	ug/m3	ND	2.7	01/24/21 12:32	
o-Xylene	ug/m3	ND	0.88	01/24/21 12:32	
Propylene	ug/m3	ND	0.35	01/24/21 12:32	
Styrene	ug/m3	ND	0.87	01/24/21 12:32	
Tetrachloroethene	ug/m3	ND	0.69	01/24/21 12:32	
Tetrahydrofuran	ug/m3	ND	0.60	01/24/21 12:32	
Toluene	ug/m3	ND	0.77	01/24/21 12:32	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	01/24/21 12:32	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	01/24/21 12:32	
Trichloroethene	ug/m3	ND	0.55	01/24/21 12:32	
Trichlorofluoromethane	ug/m3	ND	1.1	01/24/21 12:32	
Vinyl acetate	ug/m3	ND	0.72	01/24/21 12:32	
Vinyl chloride	ug/m3	ND	0.26	01/24/21 12:32	

LABORATORY CONTROL SAMPLE: 3850173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	57	53.2	93	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	71.9	73.7	103	62-130	
1,1,2-Trichloroethane	ug/m3	57.3	57.9	101	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	80.3	70.9	88	70-130	
1,1-Dichloroethane	ug/m3	42.7	38.9	91	70-130	
1,1-Dichloroethene	ug/m3	41.4	39.3	95	70-130	
1,2,4-Trichlorobenzene	ug/m3	156	165	106	69-144	
1,2,4-Trimethylbenzene	ug/m3	51.5	63.7	124	60-136	
1,2-Dibromoethane (EDB)	ug/m3	80.3	86.1	107	70-130	
1,2-Dichlorobenzene	ug/m3	63.1	73.6	117	67-130	
1,2-Dichloroethane	ug/m3	42.4	44.3	105	70-130	
1,2-Dichloropropane	ug/m3	48.6	48.8	100	70-130	
1,3,5-Trimethylbenzene	ug/m3	51.6	63.7	123	69-130	
1,3-Butadiene	ug/m3	23.3	21.9	94	69-134	
1,3-Dichlorobenzene	ug/m3	63.4	75.6	119	69-130	
1,4-Dichlorobenzene	ug/m3	63.4	80.7	127	70-133	
2-Butanone (MEK)	ug/m3	31.4	25.6	82	65-137	
2-Hexanone	ug/m3	42.8	42.7	100	70-145	
2-Propanol	ug/m3	119	129	108	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CHW8271N MDCC

Pace Project No.: 10544972

LABORATORY CONTROL SAMPLE: 3850173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Ethyltoluene	ug/m3	52.4	66.9	128	70-134	
4-Methyl-2-pentanone (MIBK)	ug/m3	43.6	51.1	117	70-135	
Acetone	ug/m3	126	127	101	60-130	
Benzene	ug/m3	33.5	33.9	101	70-130	
Benzyl chloride	ug/m3	55.1	55.7	101	68-147	
Bromodichloromethane	ug/m3	71.5	68.2	95	70-130	
Bromoform	ug/m3	110	122	111	64-141	
Bromomethane	ug/m3	41.3	44.0	107	70-130	
Carbon disulfide	ug/m3	33.3	30.3	91	70-130	
Carbon tetrachloride	ug/m3	66.2	61.3	93	70-134	
Chlorobenzene	ug/m3	48.3	45.3	94	67-130	
Chloroethane	ug/m3	28.1	25.6	91	70-137	
Chloroform	ug/m3	51.1	52.9	104	70-130	
Chloromethane	ug/m3	21.9	22.5	103	70-130	
cis-1,2-Dichloroethene	ug/m3	41.6	40.8	98	70-130	
cis-1,3-Dichloropropene	ug/m3	47.7	54.6	115	70-137	
Cyclohexane	ug/m3	36.7	42.1	115	70-139	
Dibromochloromethane	ug/m3	90.7	91.2	101	70-130	
Dichlorodifluoromethane	ug/m3	51.6	53.7	104	70-130	
Dichlorotetrafluoroethane	ug/m3	72.7	64.9	89	70-130	
Ethanol	ug/m3	103	108	105	65-130	
Ethyl acetate	ug/m3	38.6	40.1	104	70-131	
Ethylbenzene	ug/m3	45.6	52.1	114	70-130	
Hexachloro-1,3-butadiene	ug/m3	112	122	109	62-142	
m&p-Xylene	ug/m3	91.2	107	117	70-130	
Methyl-tert-butyl ether	ug/m3	38.4	41.2	107	70-138	
Methylene Chloride	ug/m3	182	162	89	70-130	
n-Heptane	ug/m3	43.6	43.9	101	70-134	
n-Hexane	ug/m3	37.6	43.8	117	69-140	
Naphthalene	ug/m3	57.7	61.4	106	70-138	
o-Xylene	ug/m3	45.5	52.7	116	70-130	
Propylene	ug/m3	18.2	16.8	92	70-137	
Styrene	ug/m3	44.9	45.3	101	70-134	
Tetrachloroethene	ug/m3	71	75.6	106	68-130	
Tetrahydrofuran	ug/m3	31.5	34.7	110	70-137	
Toluene	ug/m3	39.5	45.2	114	70-133	
trans-1,2-Dichloroethene	ug/m3	42.2	41.6	98	70-130	
trans-1,3-Dichloropropene	ug/m3	47.7	59.6	125	70-141	
Trichloroethene	ug/m3	56.3	59.2	105	70-130	
Trichlorofluoromethane	ug/m3	59.7	63.5	106	70-130	
Vinyl acetate	ug/m3	34.5	39.4	114	70-143	
Vinyl chloride	ug/m3	26.7	27.6	103	70-130	

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QUALITY CONTROL DATA

Project: CHW8271N MDCC

Pace Project No.: 10544972

SAMPLE DUPLICATE: 3850537

Parameter	Units	10545671003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	.49J		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	ND	ND		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	ND		25	
1,3-Butadiene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	ND	ND		25	
2-Hexanone	ug/m3	ND	ND		25	
2-Propanol	ug/m3	ND	1.3J		25	
4-Ethyltoluene	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	ND	ND		25	
Benzene	ug/m3	ND	ND		25	
Benzyl chloride	ug/m3	ND	ND		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	ND		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	2.2	2.4	9	25	
Dichlorotetrafluoroethane	ug/m3	ND	ND		25	
Ethanol	ug/m3	6.3	6.8	8	25	
Ethyl acetate	ug/m3	ND	ND		25	
Ethylbenzene	ug/m3	ND	ND		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	ND	ND		25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	ND	ND		25	
n-Heptane	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Project: CHW8271N MDCC

Pace Project No.: 10544972

SAMPLE DUPLICATE: 3850537

Parameter	Units	10545671003 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	ND	ND		25	
Naphthalene	ug/m3	ND	2.7J		25	
o-Xylene	ug/m3	ND	ND		25	
Propylene	ug/m3	ND	ND		25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	26.4	27.1	3	25	
Tetrahydrofuran	ug/m3	ND	ND		25	
Toluene	ug/m3	ND	ND		25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Trichlorofluoromethane	ug/m3	ND	.76J		25	
Vinyl acetate	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

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QUALIFIERS

Project: CHW8271N MDCC

Pace Project No.: 10544972

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

MN The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CHW8271N MDCC

Pace Project No.: 10544972

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10544972001	SG-1	TO-15	721881		
10544972002	SG-2	TO-15	721881		
10544972003	SG-3	TO-15	721881		
10544972004	SG-5	TO-15	721881		
10544972005	SG-5A	TO-15	721881		
10544972006	SG-6	TO-15	721881		
10544972007	SG-7	TO-15	721881		

REPORT OF LABORATORY ANALYSIS

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

42705

Page: 1 of 1

Section A Required Client Information: Company: <u>Geosyntec</u> Address: <u>10600 N. Port Washington St, #100, Mequon, WI 53092</u> Email To: <u>d.zob@geosyntec.com</u> Phone: <u>490-6103</u> Fax: Requested Due Date/TAT:	Section B Required Project Information: Report To: <u>Jeremiah Johnson</u> Copy To: Purchase Order No.: Project Name: <u>MDCC</u> Project Number: <u>CHW8271N</u>	Section C Invoice Information: Attention: <u>Jeremiah Johnson</u> Company Name: <u>Geosyntec</u> Address: <u>10600 N. Port Washington Rd, Mequon WI</u> Pace Quote Reference: Pace Project Manager/Sales Rep.: Pace Profile #: <u>41348</u>	Program <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other Location of Sampling by State: <u>WI</u> Reporting Units ug/m ³ mg/m ³ PPBV PPMV Other Report Level II ___ III ___ IV ___ Other ___
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

ITEM #	'Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10	MEDIA CODE	PID Reading (Client only)	COLLECTED				Summa Can Number	Flow Control Number	Method:							Pace Lab ID			
					COMPOSITE START		COMPOSITE - END/GRAB				Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	PM10	3C - Fixed Gas (%)	TO-2 BTEX	TO-3M (Methane)	TO-14		TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated
					DATE	TIME	DATE	TIME													
1	SG-1		606		1/12/21	842	27.1	-0.9	0514	1664								001			
2	SG-2					917	27.7	0	0988	1655								002			
3	SG-3					959	26.6	-0.8	0835	1634								003			
4	SG-5					1136	27.8	-1.1	0146	1583								004			
5	SG-5 A					1136	27.7	-1.1	0583	1660								005			
6	SG-6					1220	27.8	0	0002	1001								006			
7	SG-7					1302	27.7	-1.0	0433	1823								007			
8-12	DZ																				

Comments :

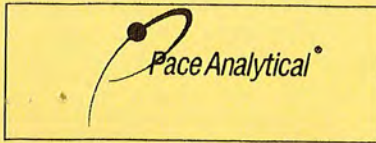
RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<u>[Signature]</u> / Geosyntec	1/12/21		<u>[Signature]</u> Pace	11421	930	Y/N Y/N Y/N Y/N Y/N
						Temp in °C Received on Ice Custody Sealed Cooler Samples Intact

WO#: 10544972



ORIGINAL

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: D. Zob
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed (MM / DD / YY): 01/12/21



Document Name:
Sample Condition Upon Receipt (SCUR) - Air

Document No.:
ENV-FRM-MIN4-0113 Rev.00

Document Revised: 24Mar2020
Page 1 of 1
 Pace Analytical Services -
Minneapolis

Air Sample Condition Upon Receipt

Client Name: Geosyntec

Project #:

WO#: 10544972
 PM: AW1 Due Date: 01/28/21
 CLIENT: ENV MON&TECH

Courier: Fed Ex UPS USPS Client
 Pace Speedee Commercial See Exception

Tracking Number: 1723 2548 5828 + 5839

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____

Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): Corrected Temp (°C):

Thermometer Used: G87A9170600254
 G87A9155100842

Temp should be above freezing to 6°C Correction Factor:

Date & Initials of Person Examining Contents: M 11421

Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? (Tedlar bags not acceptable container for TO-14, TO-15 or APH)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact? (visual inspection/no leaks when pressurized)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11. Individually Certified Cans <u>Y</u> <u>N</u> (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
Do cans need to be pressurized? (DO NOT PRESSURIZE 3C or ASTM 1946!!!)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13.

Gauge # 10AIR26 10AIR34 10AIR35 4097

Canisters

Canisters

Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
5G-1	8514	1664	.5	5					
2	988	1655	.5						
3	224	1634	.5						
5	146	1583	0						
5A	583	1660	0						
6	2	1001	.5						
7	433	1823	0						

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Ashley Williams

Date: 1/14/21

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Memorandum

Date: March 29, 2021
To: Jeremiah Johnson
From: Jennifer Pinion
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Pace Analytical Project Number 10544972**

SITE: Milwaukee Die Casting Company Site, Milwaukee, WI

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of six soil gas samples and one field duplicate sample collected on January 12, 2021, during a Milwaukee Die Casting Company Site sampling event. The analyses were performed by Pace Analytical Services LLC., Minneapolis, Minnesota. The samples were analyzed for the following test:

- United States (US) Environmental Protection Agency (EPA) Method TO-15 –Volatile Organic Compounds (VOCs)

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the following documents, the pertinent method referenced by the laboratory report and professional and technical judgment:

- Updated Site Investigation Work Plan, Milwaukee Die Casting Company Site, 4132 North Holton Street, Milwaukee, Wisconsin, November 12, 2019
- National Functional Guidelines for Organic Superfund Methods Data Review, January 2017 (US EPA 540-R-2017-002)

The following samples were analyzed and validated at a Stage 2A level in the data set:

Laboratory IDs	Client IDs
10544972001	SG-1

Laboratory IDs	Client IDs
10544972002	SG-2

Laboratory IDs	Client IDs
10544972003	SG-3
10544972004	SG-5
10544972005	SG-5A

Laboratory IDs	Client IDs
10544972006	SG-6
10544972007	SG-7

Incorrect error corrections were observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

The sample relinquished by time is missing from the COC. In addition, the first sample accepted by and the second sample relinquished by signatures, dates and times are missing from the COC.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for selected VOCs per US EPA Method TO-15.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ⊗ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ⊗ Electronic Data Deliverable Review

1.1 Overall Assessment

1.1.1 Completeness

The VOC data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.2 Analysis Anomaly

The final canister vacuums for samples SG-5, SG-5A and SG-7 were measured at 0.00 inches of Mercury (in Hg) upon receipt at the laboratory. Since the final measured vacuums were above ambient, the results are considered estimated. Therefore, based on professional and technical judgement, the VOC concentrations in samples SG-5, SG-5A and SG-7 were J qualified as estimated and the non-detect results were UJ qualified as estimated less than the limit of quantitations (LOQs). These qualifications are summarized in Attachment 3.

1.2 Holding Time

The holding time for the TO-15 analysis of an air sample collected in a canister is 30 days from collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 721881). VOCs were not detected in the method blank above the LOQs.

1.4 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

1.5 Laboratory Duplicate

One batch laboratory duplicate was reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.6 Field Duplicate

One field duplicate was collected with the sample set, SG-5A. Acceptable precision [relative percent difference (RPD) $\leq 30\%$] was demonstrated between the field duplicate and the original sample SG-5.

1.7 Sensitivity

The samples were reported to the LOQs. Elevated non-detect results were reported due to the dilutions analyzed.

1.8 Electronic Data Deliverable (EDD) Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The LOQs and LODs were reported for the samples; however, practical quantitation limits (PQLs) were reported in the EDD. It was noted the PQLs reported in the EDD were equivalent to the RLs reported in the level II report. No other discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Extraction or analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside of limits
5	LCS recovery outside of limits or RPD outside of limits (LCS/LCSD)
6	Surrogate recovery outside of limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed: no validation qualification required

RPD-relative percent difference

ATTACHMENT 3
Qualifications for Canisters Vacuums

Sample ID	Compound	Laboratory Result (µg/m3)	Laboratory Flag	Validation Result (µg/m3)	Validation Qualifier*	Reason Code**
SG-5	Tetrachloroethene	2520	NA	2520	J	1
SG-5	Trichloroethene	180	NA	180	J	1
SG-5A	Tetrachloroethene	2410	NA	2410	J	1
SG-5A	Trichloroethene	181	NA	181	J	1
SG-7	Tetrachloroethene	35.1	NA	35.1	J	1
SG-7	Trichloroethene	44.8	NA	44.8	J	1
SG-7	cis-1,2-Dichloroethene	1090	NA	1090	J	1
SG-7	trans-1,2-Dichloroethene	177	NA	177	J	1
SG-5	1,1,1-Trichloroethane	29.7	U	29.7	UJ	1
SG-5	1,1,2,2-Tetrachloroethane	37.4	U	37.4	UJ	1
SG-5	1,1,2-Trichloroethane	14.9	U	14.9	UJ	1
SG-5	1,1,2-Trichlorotrifluoroethane	41.8	U	41.8	UJ	1
SG-5	1,1-Dichloroethane	22.1	U	22.1	UJ	1
SG-5	1,1-Dichloroethene	21.6	U	21.6	UJ	1
SG-5	1,2,4-Trichlorobenzene	202	U	202	UJ	1
SG-5	1,2,4-Trimethylbenzene	26.8	U	26.8	UJ	1
SG-5	1,2-Dibromoethane (EDB)	20.9	U	20.9	UJ	1
SG-5	1,2-Dichlorobenzene	32.7	U	32.7	UJ	1
SG-5	1,2-Dichloroethane	11	U	11	UJ	1
SG-5	1,2-Dichloropropane	25.2	U	25.2	UJ	1
SG-5	1,3,5-Trimethylbenzene	26.8	U	26.8	UJ	1
SG-5	1,3-Butadiene	12.1	U	12.1	UJ	1
SG-5	1,3-Dichlorobenzene	32.7	U	32.7	UJ	1
SG-5	1,4-Dichlorobenzene	82	U	82	UJ	1
SG-5	2-Butanone (MEK)	80.4	U	80.4	UJ	1
SG-5	2-Hexanone	111	U	111	UJ	1
SG-5	2-Propanol	67	U	67	UJ	1
SG-5	4-Ethyltoluene	67	U	67	UJ	1
SG-5	4-Methyl-2-pentanone (MIBK)	111	U	111	UJ	1
SG-5	Acetone	162	U	162	UJ	1
SG-5	Benzene	8.7	U	8.7	UJ	1
SG-5	Benzyl chloride	70.5	U	70.5	UJ	1
SG-5	Bromodichloromethane	36.4	U	36.4	UJ	1

Milwaukee Die Casting Company Data Validation

March 29, 2021

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Sample ID	Compound	Laboratory Result (µg/m3)	Laboratory Flag	Validation Result (µg/m3)	Validation Qualifier*	Reason Code**
SG-5	Bromoform	141	U	141	UJ	1
SG-5	Bromomethane	21.1	U	21.1	UJ	1
SG-5	Carbon disulfide	17	U	17	UJ	1
SG-5	Carbon tetrachloride	34.3	U	34.3	UJ	1
SG-5	Chlorobenzene	25.1	U	25.1	UJ	1
SG-5	Chloroethane	14.4	U	14.4	UJ	1
SG-5	Chloroform	13.3	U	13.3	UJ	1
SG-5	Chloromethane	11.3	U	11.3	UJ	1
SG-5	Cyclohexane	46.9	U	46.9	UJ	1
SG-5	Dibromochloromethane	46.4	U	46.4	UJ	1
SG-5	Dichlorodifluoromethane	27.1	U	27.1	UJ	1
SG-5	Dichlorotetrafluoroethane	38.1	U	38.1	UJ	1
SG-5	Ethanol	51.5	U	51.5	UJ	1
SG-5	Ethyl acetate	19.6	U	19.6	UJ	1
SG-5	Ethylbenzene	23.7	U	23.7	UJ	1
SG-5	Hexachloro-1,3-butadiene	145	U	145	UJ	1
SG-5	Methyl-tert-butyl ether	98.1	U	98.1	UJ	1
SG-5	Methylene Chloride	94.6	U	94.6	UJ	1
SG-5	Naphthalene	71.3	U	71.3	UJ	1
SG-5	Propylene	9.4	U	9.4	UJ	1
SG-5	Styrene	23.2	U	23.2	UJ	1
SG-5	Tetrahydrofuran	16.1	U	16.1	UJ	1
SG-5	Toluene	20.5	U	20.5	UJ	1
SG-5	Trichlorofluoromethane	30.6	U	30.6	UJ	1
SG-5	Vinyl acetate	19.2	U	19.2	UJ	1
SG-5	Vinyl chloride	7.0	U	7.0	UJ	1
SG-5	cis-1,2-Dichloroethene	21.6	U	21.6	UJ	1
SG-5	cis-1,3-Dichloropropene	24.7	U	24.7	UJ	1
SG-5	m&p-Xylene	47.4	U	47.4	UJ	1
SG-5	n-Heptane	22.3	U	22.3	UJ	1
SG-5	n-Hexane	19.2	U	19.2	UJ	1
SG-5	o-Xylene	23.7	U	23.7	UJ	1
SG-5	trans-1,2-Dichloroethene	21.6	U	21.6	UJ	1
SG-5	trans-1,3-Dichloropropene	24.7	U	24.7	UJ	1
SG-5A	1,1,1-Trichloroethane	29.7	U	29.7	UJ	1
SG-5A	1,1,2,2-Tetrachloroethane	37.4	U	37.4	UJ	1
SG-5A	1,1,2-Trichloroethane	14.9	U	14.9	UJ	1

Milwaukee Die Casting Company Data Validation

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Sample ID	Compound	Laboratory Result (µg/m3)	Laboratory Flag	Validation Result (µg/m3)	Validation Qualifier*	Reason Code**
SG-5A	1,1,2-Trichlorotrifluoroethane	41.8	U	41.8	UJ	1
SG-5A	1,1-Dichloroethane	22.1	U	22.1	UJ	1
SG-5A	1,1-Dichloroethene	21.6	U	21.6	UJ	1
SG-5A	1,2,4-Trichlorobenzene	202	U	202	UJ	1
SG-5A	1,2,4-Trimethylbenzene	26.8	U	26.8	UJ	1
SG-5A	1,2-Dibromoethane (EDB)	20.9	U	20.9	UJ	1
SG-5A	1,2-Dichlorobenzene	32.7	U	32.7	UJ	1
SG-5A	1,2-Dichloroethane	11	U	11	UJ	1
SG-5A	1,2-Dichloropropane	25.2	U	25.2	UJ	1
SG-5A	1,3,5-Trimethylbenzene	26.8	U	26.8	UJ	1
SG-5A	1,3-Butadiene	12.1	U	12.1	UJ	1
SG-5A	1,3-Dichlorobenzene	32.7	U	32.7	UJ	1
SG-5A	1,4-Dichlorobenzene	82	U	82	UJ	1
SG-5A	2-Butanone (MEK)	80.4	U	80.4	UJ	1
SG-5A	2-Hexanone	111	U	111	UJ	1
SG-5A	2-Propanol	67	U	67	UJ	1
SG-5A	4-Ethyltoluene	67	U	67	UJ	1
SG-5A	4-Methyl-2-pentanone (MIBK)	111	U	111	UJ	1
SG-5A	Acetone	162	U	162	UJ	1
SG-5A	Benzene	8.7	U	8.7	UJ	1
SG-5A	Benzyl chloride	70.5	U	70.5	UJ	1
SG-5A	Bromodichloromethane	36.4	U	36.4	UJ	1
SG-5A	Bromoform	141	U	141	UJ	1
SG-5A	Bromomethane	21.1	U	21.1	UJ	1
SG-5A	Carbon disulfide	17	U	17	UJ	1
SG-5A	Carbon tetrachloride	34.3	U	34.3	UJ	1
SG-5A	Chlorobenzene	25.1	U	25.1	UJ	1
SG-5A	Chloroethane	14.4	U	14.4	UJ	1
SG-5A	Chloroform	13.3	U	13.3	UJ	1
SG-5A	Chloromethane	11.3	U	11.3	UJ	1
SG-5A	Cyclohexane	46.9	U	46.9	UJ	1
SG-5A	Dibromochloromethane	46.4	U	46.4	UJ	1
SG-5A	Dichlorodifluoromethane	27.1	U	27.1	UJ	1
SG-5A	Dichlorotetrafluoroethane	38.1	U	38.1	UJ	1
SG-5A	Ethanol	51.5	U	51.5	UJ	1
SG-5A	Ethyl acetate	19.6	U	19.6	UJ	1

Milwaukee Die Casting Company Data Validation

March 29, 2021

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Sample ID	Compound	Laboratory Result (µg/m3)	Laboratory Flag	Validation Result (µg/m3)	Validation Qualifier*	Reason Code**
SG-5A	Ethylbenzene	23.7	U	23.7	UJ	1
SG-5A	Hexachloro-1,3-butadiene	145	U	145	UJ	1
SG-5A	Methyl-tert-butyl ether	98.1	U	98.1	UJ	1
SG-5A	Methylene Chloride	94.6	U	94.6	UJ	1
SG-5A	Naphthalene	71.3	U	71.3	UJ	1
SG-5A	Propylene	9.4	U	9.4	UJ	1
SG-5A	Styrene	23.2	U	23.2	UJ	1
SG-5A	Tetrahydrofuran	16.1	U	16.1	UJ	1
SG-5A	Toluene	20.5	U	20.5	UJ	1
SG-5A	Trichlorofluoromethane	30.6	U	30.6	UJ	1
SG-5A	Vinyl acetate	19.2	U	19.2	UJ	1
SG-5A	Vinyl chloride	7.0	U	7.0	UJ	1
SG-5A	cis-1,2-Dichloroethene	21.6	U	21.6	UJ	1
SG-5A	cis-1,3-Dichloropropene	24.7	U	24.7	UJ	1
SG-5A	m&p-Xylene	47.4	U	47.4	UJ	1
SG-5A	n-Heptane	22.3	U	22.3	UJ	1
SG-5A	n-Hexane	19.2	U	19.2	UJ	1
SG-5A	o-Xylene	23.7	U	23.7	UJ	1
SG-5A	trans-1,2-Dichloroethene	21.6	U	21.6	UJ	1
SG-5A	trans-1,3-Dichloropropene	24.7	U	24.7	UJ	1
SG-7	1,1,1-Trichloroethane	44.6	U	44.6	UJ	1
SG-7	1,1,2,2-Tetrachloroethane	56.1	U	56.1	UJ	1
SG-7	1,1,2-Trichloroethane	22.3	U	22.3	UJ	1
SG-7	1,1,2-Trichlorotrifluoroethane	62.7	U	62.7	UJ	1
SG-7	1,1-Dichloroethane	33.1	U	33.1	UJ	1
SG-7	1,1-Dichloroethene	32.4	U	32.4	UJ	1
SG-7	1,2,4-Trichlorobenzene	303	U	303	UJ	1
SG-7	1,2,4-Trimethylbenzene	40.2	U	40.2	UJ	1
SG-7	1,2-Dibromoethane (EDB)	31.4	U	31.4	UJ	1
SG-7	1,2-Dichlorobenzene	49	U	49	UJ	1
SG-7	1,2-Dichloroethane	16.5	U	16.5	UJ	1
SG-7	1,2-Dichloropropane	37.7	U	37.7	UJ	1
SG-7	1,3,5-Trimethylbenzene	40.2	U	40.2	UJ	1
SG-7	1,3-Butadiene	18.1	U	18.1	UJ	1
SG-7	1,3-Dichlorobenzene	49	U	49	UJ	1
SG-7	1,4-Dichlorobenzene	123	U	123	UJ	1

Milwaukee Die Casting Company Data Validation

March 29, 2021

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Sample ID	Compound	Laboratory Result (µg/m3)	Laboratory Flag	Validation Result (µg/m3)	Validation Qualifier*	Reason Code**
SG-7	2-Butanone (MEK)	121	U	121	UJ	1
SG-7	2-Hexanone	167	U	167	UJ	1
SG-7	2-Propanol	100	U	100	UJ	1
SG-7	4-Ethyltoluene	100	U	100	UJ	1
SG-7	4-Methyl-2-pentanone (MIBK)	167	U	167	UJ	1
SG-7	Acetone	243	U	243	UJ	1
SG-7	Benzene	13.1	U	13.1	UJ	1
SG-7	Benzyl chloride	106	U	106	UJ	1
SG-7	Bromodichloromethane	54.7	U	54.7	UJ	1
SG-7	Bromoform	211	U	211	UJ	1
SG-7	Bromomethane	31.7	U	31.7	UJ	1
SG-7	Carbon disulfide	25.4	U	25.4	UJ	1
SG-7	Carbon tetrachloride	51.5	U	51.5	UJ	1
SG-7	Chlorobenzene	37.6	U	37.6	UJ	1
SG-7	Chloroethane	21.5	U	21.5	UJ	1
SG-7	Chloroform	19.9	U	19.9	UJ	1
SG-7	Chloromethane	16.9	U	16.9	UJ	1
SG-7	Cyclohexane	70.4	U	70.4	UJ	1
SG-7	Dibromochloromethane	69.5	U	69.5	UJ	1
SG-7	Dichlorodifluoromethane	40.6	U	40.6	UJ	1
SG-7	Dichlorotetrafluoroethane	57.1	U	57.1	UJ	1
SG-7	Ethanol	77.2	U	77.2	UJ	1
SG-7	Ethyl acetate	29.5	U	29.5	UJ	1
SG-7	Ethylbenzene	35.5	U	35.5	UJ	1
SG-7	Hexachloro-1,3-butadiene	218	U	218	UJ	1
SG-7	Methyl-tert-butyl ether	147	U	147	UJ	1
SG-7	Methylene Chloride	142	U	142	UJ	1
SG-7	Naphthalene	107	U	107	UJ	1
SG-7	Propylene	14.1	U	14.1	UJ	1
SG-7	Styrene	34.8	U	34.8	UJ	1
SG-7	Tetrahydrofuran	24.1	U	24.1	UJ	1
SG-7	Toluene	30.8	U	30.8	UJ	1
SG-7	Trichlorofluoromethane	45.8	U	45.8	UJ	1
SG-7	Vinyl acetate	28.8	U	28.8	UJ	1
SG-7	Vinyl chloride	10.5	U	10.5	UJ	1
SG-7	cis-1,3-Dichloropropene	37.1	U	37.1	UJ	1

Milwaukee Die Casting Company Data Validation

March 29, 2021

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Sample ID	Compound	Laboratory Result (µg/m3)	Laboratory Flag	Validation Result (µg/m3)	Validation Qualifier*	Reason Code**
SG-7	m&p-Xylene	71.2	U	71.2	UJ	1
SG-7	n-Heptane	33.5	U	33.5	UJ	1
SG-7	n-Hexane	28.8	U	28.8	UJ	1
SG-7	o-Xylene	35.5	U	35.5	UJ	1
SG-7	trans-1,3-Dichloropropene	37.1	U	37.1	UJ	1

µg/m3-microgram per cubic meter

U-not detected at or above the MRL

NA-not applicable

* Validation qualifiers are defined in Attachment 1 of this report

**Reason codes are defined in Attachment 2 of this report

APPENDIX 7

Soil Gas Data Evaluation Information

TABLE A7-1
Evaluation of Soil Gas Sample Analytical Data - Sewer to Building Vapor Risk Screening
Milwaukee Die Casting Company Site
4132 North Holton Street
Milwaukee, Wisconsin

Soil Gas Probe Identification	Soil Gas Probes Adjacent to Off-Site East Storm Sewer						WDNR Deep Soil Gas VRSLs	Sewer to Building VRSLs			
	SG-5		SG-6		SG-7			VAL	Large Commercial/ Industrial VRSL	Large Commercial/ Industrial	
Approximate Screen Interval (ft bgs)	6.5-7		6.5-7		6.5-7		AF=0.001			Protocol ¹	Range ¹
Sample Date	10/14/2020	1/12/2021	10/14/2020	1/12/2021	10/14/2020	1/12/2021					
Analytical Parameters											
Detected CVOCs (µg/m³)									0.03	0.05	0.001
1,1-Dichloroethane	< 0.26	< 4.6	6,520	1,700	19.6	< 6.8	77	77,000	2,541,000	1,540,000	77,000,000
1,1-Dichloroethene	< 0.28	< 4.9	60.8	36.8	< 0.27	< 7.4	880	880,000	29,040,000	17,600,000	880,000,000
cis-1,2-Dichloroethene	< 0.23	< 4.0	7,660	1,810	3,050	1,090	--	--	--	--	--
trans-1,2-Dichloroethene	< 0.21	< 3.8	616	164	558	177	--	--	--	--	--
Tetrachloroethene	8,150	2,520	96.5	< 12.8	116	35.1	180	180,000	5,940,000	3,600,000	180,000,000
1,1,1-Trichloroethane	10.5	< 4.4	3,680	720	5.0	< 6.7	22,000	22,000,000	726,000,000	440,000,000	22,000,000,000
Trichloroethene	527	180	1,610	316	117	44.8	8.8	8,800	290,400	176,000	8,800,000
Vinyl chloride	< 0.086	< 1.5	2,630	1,960	2.5	< 2.3	28	28,000	924,000	560,000	28,000,000

Notes:

¹ DOD ESTCP guidance documents that “sewer to building VOC attenuation” ranges from 20X to >1,000X (corresponding to attenuation factors of 0.05 to 0.001) and provides a suggested “protocol” attenuation factor of 0.03 (33X attenuation)

-- - not established

AF - WDNR attenuation factor for deep soil gas

CVOCs - chlorinated volatile organic compounds

DOD ESTCP - Department of Defense Environmental Security Technology Certification Program

ft bgs - feet below ground surface

µg/m³ - micrograms per cubic meter

VAL - WDNR vapor action level

VRSL - vapor risk screening level

WDNR - Wisconsin Department of Natural Resources

APPENDIX 8

Investigation Derived Waste Characterization Soil Sample Data Data Validation Reports Disposal Documentation

Table A8-1
Summary of Characterization Soil Sample Analytical Data - IDW Disposal Profiling
 Milwaukee Die Casting Company Site
 4132 North Holton Street
 Milwaukee, Wisconsin

Soil Boring ID	PZ-1	PZ-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	PZ-10	MW-12	MW-13	MW-14
Sample Collection Date	8/20/2020	8/18/2020	8/17/2020	8/18/2020	8/24/2020	8/26/2020	8/19/2020	8/20/2020	8/26/2020	8/27/2020	8/24/2020	8/19/2020	8/19/2020	8/26/2020
Detected PCBs (mg/kg)														
PCB-1248 (Aroclor 1248)	0.308	<0.0996	<0.0999	0.815	<0.109	<0.110	<0.100	<0.0998	<0.118	<0.118	<0.108	<0.0994	<0.0992	<0.112
PCB, Total	0.308	<0.299	<0.300	0.815	<0.326	<0.329	<0.300	<0.299	<0.355	<0.355	<0.324	<0.298	<0.298	<0.337
Detected VOCs (µg/kg)														
1,1-Dichloroethane	<0.893	<1.22	<1.10	<0.911	<0.849	32.8	<0.878	<1.06	<1.14	<0.906	<1.04	<0.789	<1.06	<0.998
1,1-Dichloroethene	<0.446	<0.610	<0.548	<0.455	<0.424	3.40	<0.439	<0.531	<0.572	<0.453	<0.519	<0.394	<0.531	<0.499
cis-1,2-Dichloroethene	369	<1.22	<1.10	23.8	5.87	1,260	<0.878	<1.06	<1.14	<0.906	<1.04	<0.789	<1.06	42.8
trans-1,2-Dichloroethene	<0.893	<1.22	<1.10	<0.911	<0.849	17.3	<0.878	<1.06	<1.14	<0.906	<1.04	<0.789	<1.06	4.56
Tetrachloroethene	5.13	<1.22	<1.10	4.11	<0.849	2.56	<0.878	<1.06	<1.14	<0.906	<1.04	19.4	<1.06	<0.998
Toluene	<0.446	<0.610	<0.548	<0.455	0.921	1.26	<0.439	<0.531	<0.572	<0.453	<0.519	<0.394	<0.531	<0.499
1,1,1-Trichloroethane	<0.446	<0.610	<0.548	337	<0.424	1,490	<0.439	<0.531	<0.572	<0.453	<0.519	<0.394	<0.531	<0.499
Trichloroethene	<0.446	<0.610	<0.548	241	5.57	1,270	<0.439	<0.531	<0.572	<0.453	<0.519	<0.394	<0.531	1.79
Vinyl chloride	16.4	9.20	<1.10	<0.911	<0.849	<1.02	<0.878	<1.06	<1.14	<0.906	<1.04	<0.789	<1.06	<0.998

Notes:

-- not analyzed, not established or not applicable

bgs - below ground surface

IDW - investigation derived waste

J - estimated concentration at or above the limit of detection and below the limit of quantitation

mg/kg - milligrams per kilogram

PCBs - polychlorinated biphenyls

VOCs - volatile organic compounds

µg/kg - micrograms per kilogram

Analytical Report

Jeremiah Johnson
Geosyntec Consultants
10600 N. Port Washington Rd.
Mequon, WI 53092

June 16, 2020

Work Order: 20F0385

RE: Protocol B

Dear Jeremiah Johnson:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,



Tim Witrzek For Nicole Ryan
Federal Project Manager
847.967.6666
nryan@emt.com

Approved for release: 6/16/2020 11:10:36AM

Approved by,



Nathan Fey
Laboratory Operations Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Wisconsin Dept of Natural Resources, Cert No. 999888890

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Sample Summary

<u>Sample ID</u>	<u>Laboratory ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
WC-01 (West)	20F0385-01	Solid	06/05/20 09:30	06/08/20 11:45
WC-01 (East)	20F0385-02	Solid	06/05/20 10:30	06/08/20 11:45

Case Narrative

Client: Geosyntec Consultants

Date: 05/07/2021

Project: Protocol B

Work Order: 20F0385

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 20F0385

The samples were received on 06/08/20 11:45. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was:

<u>Cooler</u>	<u>Temp C°</u>
Default Cooler	2.1

R1) This report has been modified to include PCB results on sample 02.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

GCMS Semivolatiles

8270D SVOC TCLP

20F0385-01: The sample was utilized for MS/MSD purposes. The RPD between the MS and MSD for several compounds exceeded criteria. This would indicate potential greater uncertainty in quantitative results. As the sample was non-detect for the compounds, the exceedance did not impact sample data.

Client Sample Results

Client: Geosyntec Consultants
Project: Protocol B
Work Order: 20F0385

Client Sample ID: WC-01 (West)
Report Date: 05/07/2021
Collection Date: 06/05/2020 09:30
Matrix: Solid
Lab ID: 20F0385-01

Analyses	Result	EMT Reporting		Units	Date/Time Analyzed	Batch	Analyst
		Limit	Qual				

Metals by ICP-AES

Method: SW6010C / SW3015 / SW1311

Arsenic, TCLP	< 0.0400	0.0500		mg/L	06/11/20 19:07	B0F0415	KJ1
Barium, TCLP	0.354	0.0500		mg/L	06/11/20 19:07	B0F0415	KJ1
Cadmium, TCLP	< 0.00400	0.00500		mg/L	06/11/20 19:07	B0F0415	KJ1
Chromium, TCLP	< 0.0100	0.0500	Q, S2	mg/L	06/11/20 19:07	B0F0415	KJ1
Copper, TCLP	< 0.0200	0.0500		mg/L	06/11/20 19:07	B0F0415	KJ1
Lead, TCLP	< 0.0400	0.0500		mg/L	06/11/20 19:07	B0F0415	KJ1
Nickel, TCLP	< 0.0200	0.0500	Q, S2	mg/L	06/11/20 19:07	B0F0415	KJ1
Selenium, TCLP	< 0.0400	0.0500		mg/L	06/11/20 19:07	B0F0415	KJ1
Silver, TCLP	< 0.00400	0.00500		mg/L	06/11/20 19:07	B0F0415	KJ1
Zinc, TCLP	< 0.0400	0.0500	Q, S2	mg/L	06/11/20 19:07	B0F0415	KJ1

Mercury by CVAA

Method: SW7470A / SW1311

Mercury, TCLP	< 0.00040	0.00050		mg/L	06/11/20 12:25	B0F0405	GSB
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Anions by Ion Chromatography

Method: SW9056A / SW5050

Chlorine	< 0.0950	0.0950		% (Percent)	06/12/20 14:24	B0F0460	MM7
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Wet Chemistry

Method: ASTM D5057-90

Specific Gravity	2.17			No unit	06/10/20 13:01	B0F0379	OH1
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Method: ASTM D92-90

Ignitability (open cup)	>180	35.0		°F	06/09/20 13:16	B0F0344	OH1
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Method: SM2540G

Total Solids	88.1	0.100		% (Percent)	06/09/20 04:44	B0F0312	MKP
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Method: SW7.3.3.2/9014 by Discrete

Reactive Cyanide	< 2.00	2.00	Q, S1	mg/L	06/09/20 10:11	B0F0315	SP1
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Method: SW7.3.4.2

Reactive Sulfide	< 10.0	10.0		mg/L	06/09/20 10:46	B0F0307	SP1
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Method: SW9045C

pH	7.73			pH Units	06/10/20 14:46	B0F0391	PK1
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Method: SW9065

Phenolics, Total Recoverable	< 2.16	5.40		mg/Kg	06/11/20 16:17	B0F0428	SP1
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Method: SW9095

Free Liquid	Pass			Pass/Fail	1	06/10/20 13:50	B0F0381	OH1
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Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Protocol B
Work Order: 20F0385

Client Sample ID: WC-01 (West)
Report Date: 05/07/2021
Collection Date: 06/05/2020 09:30
Matrix: Solid
Lab ID: 20F0385-01 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	Date/Time Analyzed	Batch	Analyst
		Limit						

Polychlorinated Biphenyls (PCBs) by GC/ECD

Method: SW8082A / SW3546

Aroclor 1016	< 0.150	0.200			mg/Kg	06/09/20 17:26	B0F0251	CS2
Aroclor 1221	< 0.299	0.499			mg/Kg	06/09/20 17:26	B0F0251	CS2
Aroclor 1232	< 0.0998	0.200			mg/Kg	06/09/20 17:26	B0F0251	CS2
Aroclor 1242	< 0.0998	0.200			mg/Kg	06/09/20 17:26	B0F0251	CS2
Aroclor 1248	< 0.0998	0.200			mg/Kg	06/09/20 17:26	B0F0251	CS2
Aroclor 1254	< 0.0998	0.200			mg/Kg	06/09/20 17:26	B0F0251	CS2
Aroclor 1260	< 0.150	0.200			mg/Kg	06/09/20 17:26	B0F0251	CS2
Total PCB	< 0.299	0.499			mg/Kg	06/09/20 17:26	B0F0251	CS2

Surrogate: Decachlorobiphenyl

Recovery: 75%

Limits: 10-127

06/09/20 17:26

B0F0251

CS2

Surrogate: 2,4,5,6-Tetrachloro-m-xylene

Recovery: 81%

Limits: 11-119

06/09/20 17:26

B0F0251

CS2

Volatile Organic Compounds by GC/MS

Method: SW1311 / SW8260B / SW5030B / SW1311

1,1-Dichloroethane, TCLP	< 0.100	0.200			mg/L	06/14/20 17:38	B0F0527	WZZ
1,2-Dichloroethane, TCLP	< 0.200	0.400			mg/L	06/14/20 17:38	B0F0527	WZZ
1,4-Dichlorobenzene, TCLP	< 0.100	0.200	J2		mg/L	06/14/20 17:38	B0F0527	WZZ
2-Butanone, TCLP	< 1.00	2.00			mg/L	06/14/20 17:38	B0F0527	WZZ
Benzene, TCLP	< 0.100	0.200			mg/L	06/14/20 17:38	B0F0527	WZZ
Carbon tetrachloride, TCLP	< 0.100	0.200			mg/L	06/14/20 17:38	B0F0527	WZZ
Chlorobenzene, TCLP	< 0.100	0.200			mg/L	06/14/20 17:38	B0F0527	WZZ
Chloroform, TCLP	< 0.200	0.400			mg/L	06/14/20 17:38	B0F0527	WZZ
Tetrachloroethene, TCLP	< 0.100	0.200			mg/L	06/14/20 17:38	B0F0527	WZZ
Trichloroethene, TCLP	< 0.100	0.200			mg/L	06/14/20 17:38	B0F0527	WZZ
Vinyl chloride, TCLP	< 0.100	0.200			mg/L	06/14/20 17:38	B0F0527	WZZ

Surrogate: Dibromofluoromethane, TCLP

Recovery: 95%

Limits: 78-119

06/14/20 17:38

B0F0527

WZZ

Surrogate: 1,2-Dichloroethane-d4, TCLP

Recovery: 103%

Limits: 71-136

06/14/20 17:38

B0F0527

WZZ

Surrogate: Fluorobenzene, TCLP

Recovery: 99%

Limits: 81-114

06/14/20 17:38

B0F0527

WZZ

Surrogate: Toluene-d8, TCLP

Recovery: 102%

Limits: 85-116

06/14/20 17:38

B0F0527

WZZ

Surrogate: 4-Bromofluorobenzene, TCLP

Recovery: 111%

Limits: 79-119

06/14/20 17:38

B0F0527

WZZ

Surrogate: 1,2-Dichlorobenzene-d4, TCLP

Recovery: 105%

Limits: 80-120

06/14/20 17:38

B0F0527

WZZ

Semivolatile Organic Compounds by GC/MS

Method: SW1311 / SW8270D / SW3510 / SW1311

Cresols, Total, TCLP	< 0.0193	0.0386			mg/L	06/12/20 16:26	B0F0447	CP1
1,4-Dichlorobenzene, TCLP	< 0.0096	0.0193			mg/L	06/12/20 16:26	B0F0447	CP1
2,4,5-Trichlorophenol, TCLP	< 0.0048	0.0096	J2		mg/L	06/12/20 16:26	B0F0447	CP1
2,4,6-Trichlorophenol, TCLP	< 0.0048	0.0096			mg/L	06/12/20 16:26	B0F0447	CP1
2,4-Dinitrotoluene, TCLP	< 0.0096	0.0193			mg/L	06/12/20 16:26	B0F0447	CP1
2-Methylphenol, TCLP	< 0.0048	0.0096			mg/L	06/12/20 16:26	B0F0447	CP1
3 & 4-Methylphenol, TCLP	< 0.0048	0.0096			mg/L	06/12/20 16:26	B0F0447	CP1
Hexachlorobenzene, TCLP	< 0.0048	0.0096	J2		mg/L	06/12/20 16:26	B0F0447	CP1
Hexachlorobutadiene, TCLP	< 0.0048	0.0096	J2		mg/L	06/12/20 16:26	B0F0447	CP1

Client Sample Results

(Continued)

Client: Geosyntec Consultants**Client Sample ID:** WC-01 (West)**Project:** Protocol B**Report Date:** 05/07/2021**Work Order:** 20F0385**Collection Date:** 06/05/2020 09:30**Matrix:** Solid**Lab ID:** 20F0385-01 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	Date/Time Analyzed	Batch	Analyst
		Limit						

Semivolatile Organic Compounds by GC/MS (Continued)

Method: SW1311 / SW8270D / SW3510 / SW1311 (Continued)

Hexachloroethane, TCLP	< 0.0048	0.0096			mg/L	06/12/20 16:26	B0F0447	CP1		
Nitrobenzene, TCLP	< 0.0029	0.0058			mg/L	06/12/20 16:26	B0F0447	CP1		
Pentachlorophenol, TCLP	< 0.0964	0.289	J2		mg/L	06/12/20 16:26	B0F0447	CP1		
Pyridine, TCLP	< 0.0482	0.0964	J2		mg/L	06/12/20 16:26	B0F0447	CP1		
<i>Surrogate: 2-Fluorophenol, TCLP</i>						<i>Recovery: 38%</i>	<i>Limits: 10-85</i>	<i>06/12/20 16:26</i>	<i>B0F0447</i>	<i>CP1</i>
<i>Surrogate: Phenol-d5, TCLP</i>						<i>Recovery: 28%</i>	<i>Limits: 10-62</i>	<i>06/12/20 16:26</i>	<i>B0F0447</i>	<i>CP1</i>
<i>Surrogate: Nitrobenzene-d5, TCLP</i>						<i>Recovery: 53%</i>	<i>Limits: 25-126</i>	<i>06/12/20 16:26</i>	<i>B0F0447</i>	<i>CP1</i>
<i>Surrogate: 2-Fluorobiphenyl, TCLP</i>						<i>Recovery: 48%</i>	<i>Limits: 21-113</i>	<i>06/12/20 16:26</i>	<i>B0F0447</i>	<i>CP1</i>
<i>Surrogate: 2,4,6-Tribromophenol, TCLP</i>						<i>Recovery: 67%</i>	<i>Limits: 19-131</i>	<i>06/12/20 16:26</i>	<i>B0F0447</i>	<i>CP1</i>
<i>Surrogate: 4-Terphenyl-d14, TCLP</i>						<i>Recovery: 88%</i>	<i>Limits: 32-133</i>	<i>06/12/20 16:26</i>	<i>B0F0447</i>	<i>CP1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Protocol B
Work Order: 20F0385

Client Sample ID: WC-01 (East)
Report Date: 05/07/2021
Collection Date: 06/05/2020 10:30
Matrix: Solid
Lab ID: 20F0385-02

Analyses	Result	EMT Reporting		Qual	Units	Date/Time Analyzed	Batch	Analyst	
		Limit							
Metals by ICP-AES									
Method: SW6010C / SW3015 / SW1311									
Arsenic, TCLP	< 0.0400	0.0500			mg/L	06/11/20 19:20	B0F0415	KJ1	
Barium, TCLP	0.701	0.0500			mg/L	06/11/20 19:20	B0F0415	KJ1	
Cadmium, TCLP	< 0.00400	0.00500			mg/L	06/11/20 19:20	B0F0415	KJ1	
Chromium, TCLP	< 0.0100	0.0500	Q, S2		mg/L	06/11/20 19:20	B0F0415	KJ1	
Copper, TCLP	< 0.0200	0.0500			mg/L	06/11/20 19:20	B0F0415	KJ1	
Lead, TCLP	< 0.0400	0.0500			mg/L	06/11/20 19:20	B0F0415	KJ1	
Nickel, TCLP	< 0.0200	0.0500	Q, S2		mg/L	06/11/20 19:20	B0F0415	KJ1	
Selenium, TCLP	< 0.0400	0.0500			mg/L	06/11/20 19:20	B0F0415	KJ1	
Silver, TCLP	< 0.00400	0.00500	J2		mg/L	06/11/20 19:20	B0F0415	KJ1	
Zinc, TCLP	0.360	0.0500	Q, S2		mg/L	06/11/20 19:20	B0F0415	KJ1	
Mercury by CVAA									
Method: SW7470A / SW1311									
Mercury, TCLP	< 0.00040	0.00050			mg/L	06/11/20 12:27	B0F0405	GSB	
Anions by Ion Chromatography									
Method: SW9056A / SW5050									
Chlorine	< 0.0994	0.0994			% (Percent)	06/12/20 14:52	B0F0460	MM7	
Wet Chemistry									
Method: ASTM D5057-90									
Specific Gravity	2.09				No unit	06/10/20 13:01	B0F0379	OH1	
Method: ASTM D92-90									
Ignitability (open cup)	>180	35.0			°F	06/09/20 13:16	B0F0344	OH1	
Method: SM2540G									
Total Solids	88.2	0.100			% (Percent)	06/09/20 04:46	B0F0312	MKP	
Method: SW7.3.3.2/9014 by Discrete									
Reactive Cyanide	< 2.00	2.00	Q, S1		mg/L	06/09/20 10:13	B0F0315	SP1	
Method: SW7.3.4.2									
Reactive Sulfide	< 10.0	10.0			mg/L	06/09/20 10:46	B0F0307	SP1	
Method: SW9045C									
pH	7.93				pH Units	06/10/20 14:46	B0F0391	PK1	
Method: SW9065									
Phenolics, Total Recoverable	< 2.14	5.35			mg/Kg	06/11/20 16:17	B0F0428	SP1	
Method: SW9095									
Free Liquid	Pass				Pass/Fail	1	06/10/20 13:50	B0F0381	OH1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Protocol B
Work Order: 20F0385

Client Sample ID: WC-01 (East)
Report Date: 05/07/2021
Collection Date: 06/05/2020 10:30
Matrix: Solid
Lab ID: 20F0385-02 (Continued)

Analyses	Result	EMT Reporting		Units	Date/Time Analyzed	Batch	Analyst
		Limit	Qual				

Polychlorinated Biphenyls (PCBs) by GC/ECD

Method: SW8082A / SW3546

Aroclor 1016	< 0.149	0.199		mg/Kg	06/09/20 15:45	B0F0251	CS2
Aroclor 1221	< 0.298	0.496		mg/Kg	06/09/20 15:45	B0F0251	CS2
Aroclor 1232	< 0.0993	0.199		mg/Kg	06/09/20 15:45	B0F0251	CS2
Aroclor 1242	< 0.0993	0.199		mg/Kg	06/09/20 15:45	B0F0251	CS2
Aroclor 1248	< 0.0993	0.199		mg/Kg	06/09/20 15:45	B0F0251	CS2
Aroclor 1254	< 0.0993	0.199		mg/Kg	06/09/20 15:45	B0F0251	CS2
Aroclor 1260	< 0.149	0.199		mg/Kg	06/09/20 15:45	B0F0251	CS2
Total PCB	< 0.298	0.496		mg/Kg	06/09/20 15:45	B0F0251	CS2

Surrogate: Decachlorobiphenyl

Recovery: 88%

Limits: 10-127

06/09/20 15:45

B0F0251

CS2

Surrogate: 2,4,5,6-Tetrachloro-m-xylene

Recovery: 76%

Limits: 11-119

06/09/20 15:45

B0F0251

CS2

Volatile Organic Compounds by GC/MS

Method: SW1311 / SW8260B / SW5030B / SW1311

1,1-Dichloroethane, TCLP	< 0.100	0.200		mg/L	06/14/20 18:03	B0F0527	WZZ
1,2-Dichloroethane, TCLP	< 0.200	0.400		mg/L	06/14/20 18:03	B0F0527	WZZ
1,4-Dichlorobenzene, TCLP	< 0.100	0.200		mg/L	06/14/20 18:03	B0F0527	WZZ
2-Butanone, TCLP	< 1.00	2.00		mg/L	06/14/20 18:03	B0F0527	WZZ
Benzene, TCLP	< 0.100	0.200		mg/L	06/14/20 18:03	B0F0527	WZZ
Carbon tetrachloride, TCLP	< 0.100	0.200		mg/L	06/14/20 18:03	B0F0527	WZZ
Chlorobenzene, TCLP	< 0.100	0.200		mg/L	06/14/20 18:03	B0F0527	WZZ
Chloroform, TCLP	< 0.200	0.400		mg/L	06/14/20 18:03	B0F0527	WZZ
Tetrachloroethene, TCLP	< 0.100	0.200		mg/L	06/14/20 18:03	B0F0527	WZZ
Trichloroethene, TCLP	< 0.100	0.200		mg/L	06/14/20 18:03	B0F0527	WZZ
Vinyl chloride, TCLP	< 0.100	0.200		mg/L	06/14/20 18:03	B0F0527	WZZ

Surrogate: Dibromofluoromethane, TCLP

Recovery: 99%

Limits: 78-119

06/14/20 18:03

B0F0527

WZZ

Surrogate: 1,2-Dichloroethane-d4, TCLP

Recovery: 104%

Limits: 71-136

06/14/20 18:03

B0F0527

WZZ

Surrogate: Fluorobenzene, TCLP

Recovery: 94%

Limits: 81-114

06/14/20 18:03

B0F0527

WZZ

Surrogate: Toluene-d8, TCLP

Recovery: 106%

Limits: 85-116

06/14/20 18:03

B0F0527

WZZ

Surrogate: 4-Bromofluorobenzene, TCLP

Recovery: 99%

Limits: 79-119

06/14/20 18:03

B0F0527

WZZ

Surrogate: 1,2-Dichlorobenzene-d4, TCLP

Recovery: 100%

Limits: 80-120

06/14/20 18:03

B0F0527

WZZ

Semivolatile Organic Compounds by GC/MS

Method: SW1311 / SW8270D / SW3510 / SW1311

Cresols, Total, TCLP	< 0.0192	0.0385		mg/L	06/12/20 17:43	B0F0447	CP1
1,4-Dichlorobenzene, TCLP	< 0.0096	0.0192		mg/L	06/12/20 17:43	B0F0447	CP1
2,4,5-Trichlorophenol, TCLP	< 0.0048	0.0096		mg/L	06/12/20 17:43	B0F0447	CP1
2,4,6-Trichlorophenol, TCLP	< 0.0048	0.0096		mg/L	06/12/20 17:43	B0F0447	CP1
2,4-Dinitrotoluene, TCLP	< 0.0096	0.0192		mg/L	06/12/20 17:43	B0F0447	CP1
2-Methylphenol, TCLP	< 0.0048	0.0096		mg/L	06/12/20 17:43	B0F0447	CP1
3 & 4-Methylphenol, TCLP	< 0.0048	0.0096		mg/L	06/12/20 17:43	B0F0447	CP1
Hexachlorobenzene, TCLP	< 0.0048	0.0096		mg/L	06/12/20 17:43	B0F0447	CP1
Hexachlorobutadiene, TCLP	< 0.0048	0.0096		mg/L	06/12/20 17:43	B0F0447	CP1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Protocol B
Work Order: 20F0385

Client Sample ID: WC-01 (East)
Report Date: 05/07/2021
Collection Date: 06/05/2020 10:30
Matrix: Solid
Lab ID: 20F0385-02 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	Date/Time Analyzed	Batch	Analyst
		Limit						
Semivolatile Organic Compounds by GC/MS (Continued)								
Method: SW1311 / SW8270D / SW3510 / SW1311 (Continued)								
Hexachloroethane, TCLP	< 0.0048	0.0096			mg/L	06/12/20 17:43	B0F0447	CP1
Nitrobenzene, TCLP	< 0.0029	0.0058			mg/L	06/12/20 17:43	B0F0447	CP1
Pentachlorophenol, TCLP	< 0.0962	0.288			mg/L	06/12/20 17:43	B0F0447	CP1
Pyridine, TCLP	< 0.0481	0.0962			mg/L	06/12/20 17:43	B0F0447	CP1
<hr/>								
Surrogate: 2-Fluorophenol, TCLP					Recovery: 40%	Limits: 10-85	06/12/20 17:43	B0F0447 CP1
Surrogate: Phenol-d5, TCLP					Recovery: 33%	Limits: 10-62	06/12/20 17:43	B0F0447 CP1
Surrogate: Nitrobenzene-d5, TCLP					Recovery: 56%	Limits: 25-126	06/12/20 17:43	B0F0447 CP1
Surrogate: 2-Fluorobiphenyl, TCLP					Recovery: 46%	Limits: 21-113	06/12/20 17:43	B0F0447 CP1
Surrogate: 2,4,6-Tribromophenol, TCLP					Recovery: 62%	Limits: 19-131	06/12/20 17:43	B0F0447 CP1
Surrogate: 4-Terphenyl-d14, TCLP					Recovery: 71%	Limits: 32-133	06/12/20 17:43	B0F0447 CP1

Dates Report

Client: Geosyntec Consultants

Report Date: 05/07/2021

Project: Protocol B

Work Order: 20F0385

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
20F0385-01	WC-01 (West)	06/05/20	Solid	Polychlorinated Biphenyls by GC/ECD		06/08/20 16:10	06/09/20 17:26	B0F0251	S0F0163
				Sulfide, Reactive		06/08/20 15:28	06/09/20 10:46	B0F0307	
				Total Solids / Percent Moisture		06/09/20 04:16	06/09/20 04:44	B0F0312	
				Cyanide, Reactive		06/09/20 07:41	06/09/20 10:11	B0F0315	S0F0152
				Flash Point, Open Cup		06/09/20 09:00	06/09/20 13:16	B0F0344	
				Specific Gravity		06/10/20 11:20	06/10/20 13:01	B0F0379	
				Paint Filter Test		06/10/20 13:35	06/10/20 13:50	B0F0381	
				pH / Corrosivity- 50% mix for solid		06/10/20 14:45	06/10/20 14:46	B0F0391	
				Mercury, TCLP CVAA	06/10/20 09:12	06/11/20 08:10	06/11/20 12:25	B0F0405	S0F0193
				Copper, TCLP ICP-AES	06/10/20 09:12	06/11/20 09:47	06/11/20 19:07	B0F0415	S0F0204
				Zinc, TCLP ICP-AES	06/10/20 09:12	06/11/20 09:47	06/11/20 19:07		
				Selenium, TCLP ICP-AES	06/10/20 09:12	06/11/20 09:47	06/11/20 19:07		
				Nickel, TCLP ICP-AES	06/10/20 09:12	06/11/20 09:47	06/11/20 19:07		
				Chromium, TCLP ICP-AES	06/10/20 09:12	06/11/20 09:47	06/11/20 19:07		
				Cadmium, TCLP ICP-AES	06/10/20 09:12	06/11/20 09:47	06/11/20 19:07		
				Barium, TCLP ICP-AES	06/10/20 09:12	06/11/20 09:47	06/11/20 19:07		
				Arsenic, TCLP ICP-AES	06/10/20 09:12	06/11/20 09:47	06/11/20 19:07		
				Silver, TCLP ICP-AES	06/10/20 09:12	06/11/20 09:47	06/11/20 19:07		
				Lead, TCLP ICP-AES	06/10/20 09:12	06/11/20 09:47	06/11/20 19:07		
				Phenol, Total		06/11/20 09:10	06/11/20 16:17	B0F0428	S0F0202
				Semivolatile Organic Compounds TCLP by GC/MS	06/10/20 09:12	06/12/20 10:17	06/12/20 16:26	B0F0447	S0F0217
				Chlorine, Percent		06/12/20 10:38	06/12/20 14:24	B0F0460	S0F0223
				Volatile Organic Compounds TCLP by GC/MS	06/10/20 12:02	06/14/20 14:00	06/14/20 17:38	B0F0527	S0F0243
20F0385-02	WC-01 (East)	06/05/20	Solid	Polychlorinated Biphenyls by GC/ECD		06/08/20 16:10	06/09/20 15:45	B0F0251	S0F0163
				Sulfide, Reactive		06/08/20 15:28	06/09/20 10:46	B0F0307	
				Total Solids / Percent Moisture		06/09/20 04:16	06/09/20 04:46	B0F0312	
				Cyanide, Reactive		06/09/20 07:41	06/09/20 10:13	B0F0315	S0F0152
				Flash Point, Open Cup		06/09/20 12:40	06/09/20 13:16	B0F0344	
				Specific Gravity		06/10/20 12:35	06/10/20 13:01	B0F0379	
				Paint Filter Test		06/10/20 13:20	06/10/20 13:50	B0F0381	
				pH / Corrosivity- 50% mix for solid		06/10/20 14:45	06/10/20 14:46	B0F0391	
				Mercury, TCLP CVAA	06/10/20 09:12	06/11/20 08:10	06/11/20 12:27	B0F0405	S0F0193
				Arsenic, TCLP ICP-AES	06/10/20 09:12	06/11/20 09:47	06/11/20 19:20	B0F0415	S0F0204
				Zinc, TCLP ICP-AES	06/10/20 09:12	06/11/20 09:47	06/11/20 19:20		
				Selenium, TCLP ICP-AES	06/10/20 09:12	06/11/20 09:47	06/11/20 19:20		
				Lead, TCLP ICP-AES	06/10/20 09:12	06/11/20 09:47	06/11/20 19:20		
				Nickel, TCLP ICP-AES	06/10/20 09:12	06/11/20 09:47	06/11/20 19:20		
				Copper, TCLP ICP-AES	06/10/20 09:12	06/11/20 09:47	06/11/20 19:20		
				Chromium, TCLP ICP-AES	06/10/20 09:12	06/11/20 09:47	06/11/20 19:20		
				Barium, TCLP ICP-AES	06/10/20 09:12	06/11/20 09:47	06/11/20 19:20		

Dates Report

(Continued)

Client: Geosyntec Consultants**Report Date:** 05/07/2021**Project:** Protocol B**Work Order:** 20F0385

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached		Analysis Date	Batch ID	Sequence
					Prep Date	Prep Date			
20F0385-02	WC-01 (East)	06/05/20	Solid	Silver, TCLP ICP-AES	06/10/20 09:12	06/11/20 09:47	06/11/20 19:20	B0F0415	S0F0204
				Cadmium, TCLP ICP-AES	06/10/20 09:12	06/11/20 09:47	06/11/20 19:20		
				Phenol, Total		06/11/20 09:10	06/11/20 16:17	B0F0428	S0F0202
				Semivolatile Organic Compounds TCLP by GC/MS	06/10/20 09:12	06/12/20 10:17	06/12/20 17:43	B0F0447	S0F0217
				Chlorine, Percent		06/12/20 10:38	06/12/20 14:52	B0F0460	S0F0223
				Volatile Organic Compounds TCLP by GC/MS	06/10/20 12:02	06/14/20 14:00	06/14/20 18:03	B0F0527	S0F0243

Quality Control

Client: Geosyntec DoD
Project: Protocol B

Report Date: 05/07/2021
Matrix: Solid

Work Order: 20F0385

Anions by Ion Chromatography

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B0F0460 - SW5050										
Blank (B0F0460-BLK1) <i>Prepared: 06/12/2020 10:38 Analyzed: 06/12/2020 11:37</i>										
Chlorine	< 0.000100	0.000100	%							
Blank (B0F0460-BLK2) <i>Prepared: 06/12/2020 10:38 Analyzed: 06/12/2020 13:00</i>										
Chlorine	< 0.0101	0.0101	%							
LCS (B0F0460-BS1) <i>Prepared: 06/12/2020 10:38 Analyzed: 06/12/2020 12:05</i>										
Chlorine	0.0000191	0.000100	%	0.00002000		95.3	80-120			
LCS (B0F0460-BS2) <i>Prepared: 06/12/2020 10:38 Analyzed: 06/12/2020 12:33</i>										
Chlorine	0.000483	0.000100	%	0.0005000		96.5	80-120			
Duplicate (B0F0460-DUP1) Source: 20D0976-01 <i>Prepared: 06/12/2020 10:38 Analyzed: 06/13/2020 02:27</i>										
Chlorine	< 0.00440	0.0999	%		0.00489				20	
Duplicate (B0F0460-DUP2) Source: 20D0979-01 <i>Prepared: 06/12/2020 10:38 Analyzed: 06/13/2020 04:18</i>										
Chlorine	< 0.00432	0.0983	%		ND				20	
Matrix Spike (B0F0460-MS1) Source: 20D0976-01 <i>Prepared: 06/12/2020 10:38 Analyzed: 06/13/2020 02:55</i>										
Chlorine	0.245	0.0975	%	0.2439	0.00489	98.6	70-130			
Matrix Spike (B0F0460-MS2) Source: 20D0979-01 <i>Prepared: 06/12/2020 10:38 Analyzed: 06/13/2020 04:46</i>										
Chlorine	0.240	0.0967	%	0.2430	ND	98.9	70-130			
Matrix Spike Dup (B0F0460-MSD1) Source: 20D0976-01 <i>Prepared: 06/12/2020 10:38 Analyzed: 06/13/2020 03:23</i>										
Chlorine	0.245	0.0975	%	0.2439	0.00489	98.6	70-130	0.0198	20	
Matrix Spike Dup (B0F0460-MSD2) Source: 20D0979-01 <i>Prepared: 06/12/2020 10:38 Analyzed: 06/13/2020 06:37</i>										
Chlorine	0.239	0.0967	%	0.2430	ND	98.4	70-130	0.480	20	
Reference (B0F0460-SRM2) <i>Prepared: 06/12/2020 10:38 Analyzed: 06/12/2020 13:28</i>										
Chlorine	0.0362	0.0194	%	0.03800		95.2	50-150			

Quality Control

(Continued)

Client: Geosyntec DoD**Report Date:** 05/07/2021**Project:** Protocol B**Matrix:** Solid**Work Order:** 20F0385**Wet Chemistry**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0F0312**Blank (B0F0312-BLK1)**

Prepared: 06/09/2020 04:16 Analyzed: 06/09/2020 04:50

Total Solids <0.0500 0.100 %

LCS (B0F0312-BS1)

Prepared: 06/09/2020 04:16 Analyzed: 06/09/2020 04:52

Total Solids 0.192 0.100 % 0.2058 93.5 83.9-103

Duplicate (B0F0312-DUP1)**Source: 20F0385-02**

Prepared: 06/09/2020 04:16 Analyzed: 06/09/2020 04:54

Total Solids 88.5 0.100 % 88.2 0.356 5

Batch: B0F0381**Duplicate (B0F0381-DUP1)****Source: 20F0385-01**

Prepared: 06/10/2020 13:20 Analyzed: 06/10/2020 13:50

Free Liquid Pass 1 Pass/Fail ND 200

Duplicate (B0F0381-DUP2)**Source: 20F0385-02**

Prepared: 06/10/2020 13:35 Analyzed: 06/10/2020 13:50

Free Liquid Pass 1 Pass/Fail ND 200

Batch: B0F0391**LCS (B0F0391-BS1)**

Prepared: 06/10/2020 14:45 Analyzed: 06/10/2020 14:46

pH 7.01 pH Units 7.000 100 90-110

Duplicate (B0F0391-DUP1)**Source: 20F0385-02**

Prepared: 06/10/2020 14:45 Analyzed: 06/10/2020 14:46

pH 7.83 pH Units 7.93 1.27 10

Batch: B0F0428**Blank (B0F0428-BLK1)**

Prepared: 06/11/2020 09:10 Analyzed: 06/11/2020 16:23

Phenolics, Total Recoverable <0.0200 0.0500 mg/Kg

LCS (B0F0428-BS1)

Prepared: 06/11/2020 09:10 Analyzed: 06/11/2020 16:24

Phenolics, Total Recoverable 0.0457 0.0500 mg/Kg 0.05000 91.4 85-115

Matrix Spike (B0F0428-MS1)**Source: 20F0385-02**

Prepared: 06/11/2020 09:10 Analyzed: 06/11/2020 16:20

Phenolics, Total Recoverable 5.03 5.52 mg/Kg 5.515 ND 91.2 80-120

Matrix Spike Dup (B0F0428-MSD1)**Source: 20F0385-02**

Prepared: 06/11/2020 09:10 Analyzed: 06/11/2020 16:20

Phenolics, Total Recoverable 4.92 5.48 mg/Kg 5.478 ND 89.8 80-120 2.23 20

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Protocol B

Report Date: 05/07/2021
Matrix: Solid

Work Order: 20F0385**Polychlorinated Biphenyls (PCBs) by GC/ECD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0F0251 - SW3546**Blank (B0F0251-BLK1)**

Prepared: 06/08/2020 16:10 Analyzed: 06/09/2020 15:45

Aroclor 1016	<0.150	0.199	mg/Kg							
Aroclor 1221	<0.299	0.498	mg/Kg							
Aroclor 1232	<0.0997	0.199	mg/Kg							
Aroclor 1242	<0.0997	0.199	mg/Kg							
Aroclor 1248	<0.0997	0.199	mg/Kg							
Aroclor 1254	<0.0997	0.199	mg/Kg							
Aroclor 1260	<0.150	0.199	mg/Kg							
Total PCB	<0.299	0.498	mg/Kg							

Surrogate: Decachlorobiphenyl 0.197 mg/Kg 0.1994 99 10-127

Surrogate: 2,4,5,6-Tetrachloro-m-xylene 0.172 mg/Kg 0.1994 86 11-119

LCS (B0F0251-BS1)

Prepared: 06/08/2020 16:10 Analyzed: 06/09/2020 16:02

Aroclor 1016	0.366	0.198	mg/Kg	0.3965		92	47-134			
Aroclor 1260	0.331	0.198	mg/Kg	0.3965		83	53-140			
Surrogate: Decachlorobiphenyl	0.194		mg/Kg	0.1983		98	10-127			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.168		mg/Kg	0.1983		85	11-119			

Matrix Spike (B0F0251-MS1)**Source: 20F0342-01**

Prepared: 06/08/2020 16:10 Analyzed: 06/09/2020 18:52

Aroclor 1016	0.288	0.198	mg/Kg	0.3961	ND	73	50-150			
Aroclor 1260	0.243	0.198	mg/Kg	0.3961	ND	61	50-150			
Surrogate: Decachlorobiphenyl	0.134		mg/Kg	0.1981		68	10-127			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.139		mg/Kg	0.1981		70	11-119			

Matrix Spike Dup (B0F0251-MSD1)**Source: 20F0342-01**

Prepared: 06/08/2020 16:10 Analyzed: 06/09/2020 19:09

Aroclor 1016	0.334	0.199	mg/Kg	0.3984	ND	84	50-150	15	30	
Aroclor 1260	0.278	0.199	mg/Kg	0.3984	ND	70	50-150	14	30	
Surrogate: Decachlorobiphenyl	0.153		mg/Kg	0.1992		77	10-127			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.156		mg/Kg	0.1992		79	11-119			

Quality Control

(Continued)

Client: Geosyntec DoD

Report Date: 05/07/2021

Project: Protocol B

Matrix: Solid

Work Order: 20F0385

Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0F0527 - SW5030B**Blank (B0F0527-BLK1)**

Prepared: 06/14/2020 14:00 Analyzed: 06/14/2020 17:14

1,1-Dichloroethene	<0.00200	0.00400	mg/L							
1,2-Dichloroethane	<0.00400	0.00800	mg/L							
1,4-Dichlorobenzene	<0.00200	0.00400	mg/L							
2-Butanone	<0.0200	0.0400	mg/L							
Benzene	<0.00200	0.00400	mg/L							
Carbon tetrachloride	<0.00200	0.00400	mg/L							
Chlorobenzene	<0.00200	0.00400	mg/L							
Chloroform	<0.00400	0.00800	mg/L							
Tetrachloroethene	<0.00200	0.00400	mg/L							
Trichloroethene	<0.00200	0.00400	mg/L							
Vinyl chloride	<0.00200	0.00400	mg/L							

Surrogate: Dibromofluoromethane	18.6		ug/L	20.00		93	78-119			
Surrogate: 1,2-Dichloroethane-d4	21.6		ug/L	20.00		108	71-136			
Surrogate: Fluorobenzene	19.8		ug/L	20.00		99	81-114			
Surrogate: Toluene-d8	20.1		ug/L	20.00		101	85-116			
Surrogate: 4-Bromofluorobenzene	9.50		ug/L	10.00		95	79-119			
Surrogate: 1,2-Dichlorobenzene-d4	21.3		ug/L	20.00		106	80-120			

LCS (B0F0527-BS1)

Prepared: 06/14/2020 14:00 Analyzed: 06/14/2020 16:00

1,1-Dichloroethene	0.0430	0.00400	mg/L	0.04000		107	71-131			
1,2-Dichloroethane	0.0410	0.00800	mg/L	0.04000		103	73-128			
1,4-Dichlorobenzene	0.0435	0.00400	mg/L	0.04000		109	84-129			
2-Butanone	0.144	0.0400	mg/L	0.1400		103	71-119			
Benzene	0.0406	0.00400	mg/L	0.04000		102	79-120			
Carbon tetrachloride	0.0413	0.00400	mg/L	0.04000		103	75-125			
Chlorobenzene	0.0421	0.00400	mg/L	0.04000		105	82-118			
Chloroform	0.0418	0.00800	mg/L	0.04000		105	79-124			
Tetrachloroethene	0.0407	0.00400	mg/L	0.04000		102	74-129			
Trichloroethene	0.0410	0.00400	mg/L	0.04000		102	84-129			
Vinyl chloride	0.0433	0.00400	mg/L	0.04000		108	58-137			

Surrogate: Dibromofluoromethane	20.8		ug/L	20.00		104	78-119			
Surrogate: 1,2-Dichloroethane-d4	20.2		ug/L	20.00		101	71-136			
Surrogate: Fluorobenzene	20.4		ug/L	20.00		102	81-114			
Surrogate: Toluene-d8	19.8		ug/L	20.00		99	85-116			
Surrogate: 4-Bromofluorobenzene	10.6		ug/L	10.00		106	79-119			
Surrogate: 1,2-Dichlorobenzene-d4	20.8		ug/L	20.00		104	80-120			

LCS Dup (B0F0527-BSD1)

Prepared: 06/14/2020 14:00 Analyzed: 06/14/2020 16:25

1,1-Dichloroethene	0.0417	0.00400	mg/L	0.04000		104	71-131	3	20	
1,2-Dichloroethane	0.0405	0.00800	mg/L	0.04000		101	73-128	1	20	
1,4-Dichlorobenzene	0.0384	0.00400	mg/L	0.04000		96	84-129	12	20	
2-Butanone	0.140	0.0400	mg/L	0.1400		100	71-119	3	20	

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Protocol B

Report Date: 05/07/2021
Matrix: Solid
Work Order: 20F0385**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0F0527 - SW5030B (Continued)**LCS Dup (B0F0527-BSD1) (Continued)**

Prepared: 06/14/2020 14:00 Analyzed: 06/14/2020 16:25

Benzene	0.0399	0.00400	mg/L	0.04000		100	79-120	2	20	
Carbon tetrachloride	0.0386	0.00400	mg/L	0.04000		97	75-125	7	20	
Chlorobenzene	0.0416	0.00400	mg/L	0.04000		104	82-118	1	20	
Chloroform	0.0404	0.00800	mg/L	0.04000		101	79-124	4	20	
Tetrachloroethene	0.0388	0.00400	mg/L	0.04000		97	74-129	5	20	
Trichloroethene	0.0397	0.00400	mg/L	0.04000		99	84-129	3	20	
Vinyl chloride	0.0431	0.00400	mg/L	0.04000		108	58-137	0.6	20	
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Surrogate: Dibromofluoromethane	22.0		ug/L	20.00		110	78-119			
Surrogate: 1,2-Dichloroethane-d4	20.4		ug/L	20.00		102	71-136			
Surrogate: Fluorobenzene	20.0		ug/L	20.00		100	81-114			
Surrogate: Toluene-d8	19.8		ug/L	20.00		99	85-116			
Surrogate: 4-Bromofluorobenzene	9.51		ug/L	10.00		95	79-119			
Surrogate: 1,2-Dichlorobenzene-d4	19.0		ug/L	20.00		95	80-120			

Matrix Spike (B0F0527-MS1)**Source: 20F0385-01**

Prepared: 06/14/2020 14:00 Analyzed: 06/14/2020 18:27

1,1-Dichloroethene	0.0437	0.00400	mg/L	0.04000	ND	109	70-130			
1,2-Dichloroethane	0.0426	0.00800	mg/L	0.04000	ND	107	70-130			
1,4-Dichlorobenzene	0.0398	0.00400	mg/L	0.04000	0.0165	58	70-130			S
2-Butanone	0.140	0.0400	mg/L	0.14000	ND	100	70-130			
Benzene	0.0409	0.00400	mg/L	0.04000	ND	102	70-130			
Carbon tetrachloride	0.0428	0.00400	mg/L	0.04000	ND	107	70-130			
Chlorobenzene	0.0436	0.00400	mg/L	0.04000	ND	109	70-130			
Chloroform	0.0418	0.00800	mg/L	0.04000	ND	105	70-130			
Tetrachloroethene	0.0402	0.00400	mg/L	0.04000	ND	101	70-130			
Trichloroethene	0.0411	0.00400	mg/L	0.04000	ND	103	70-130			
Vinyl chloride	0.0447	0.00400	mg/L	0.04000	ND	112	70-130			
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Surrogate: Dibromofluoromethane	19.8		ug/L	20.00		99	78-119			
Surrogate: 1,2-Dichloroethane-d4	20.6		ug/L	20.00		103	71-136			
Surrogate: Fluorobenzene	20.2		ug/L	20.00		101	81-114			
Surrogate: Toluene-d8	20.6		ug/L	20.00		103	85-116			
Surrogate: 4-Bromofluorobenzene	10.8		ug/L	10.00		108	79-119			
Surrogate: 1,2-Dichlorobenzene-d4	20.6		ug/L	20.00		103	80-120			

Matrix Spike Dup (B0F0527-MSD1)**Source: 20F0385-01**

Prepared: 06/14/2020 14:00 Analyzed: 06/14/2020 18:52

1,1-Dichloroethene	0.0420	0.00400	mg/L	0.04000	ND	105	70-130			20
1,2-Dichloroethane	0.0401	0.00800	mg/L	0.04000	ND	100	70-130			20
1,4-Dichlorobenzene	0.0374	0.00400	mg/L	0.04000	0.0165	52	70-130			20 S
2-Butanone	0.125	0.0400	mg/L	0.14000	ND	89	70-130			20
Benzene	0.0396	0.00400	mg/L	0.04000	ND	99	70-130			20
Carbon tetrachloride	0.0405	0.00400	mg/L	0.04000	ND	101	70-130	5		20
Chlorobenzene	0.0406	0.00400	mg/L	0.04000	ND	102	70-130	7		20
Chloroform	0.0413	0.00800	mg/L	0.04000	ND	103	70-130			20

Quality Control

(Continued)

Client: Geosyntec DoD

Report Date: 05/07/2021

Project: Protocol B

Matrix: Solid

Work Order: 20F0385

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0F0527 - SW5030B (Continued)

Matrix Spike Dup (B0F0527-MSD1) (Continued)

Source: 20F0385-01

Prepared: 06/14/2020 14:00 Analyzed: 06/14/2020 18:52

Tetrachloroethene	0.0376	0.00400	mg/L	0.04000	ND	94	70-130		20	
Trichloroethene	0.0401	0.00400	mg/L	0.04000	ND	100	70-130		20	
Vinyl chloride	0.0413	0.00400	mg/L	0.04000	ND	103	70-130		20	

Surrogate: Dibromofluoromethane	19.0		ug/L	20.00		95	78-119			
Surrogate: 1,2-Dichloroethane-d4	20.0		ug/L	20.00		100	71-136			
Surrogate: Fluorobenzene	20.0		ug/L	20.00		100	81-114			
Surrogate: Toluene-d8	19.9		ug/L	20.00		99	85-116			
Surrogate: 4-Bromofluorobenzene	9.62		ug/L	10.00		96	79-119			
Surrogate: 1,2-Dichlorobenzene-d4	19.5		ug/L	20.00		97	80-120			

Quality Control

(Continued)

Client: Geosyntec DoD

Report Date: 05/07/2021

Project: Protocol B

Matrix: Waste

Work Order: 20F0385

Wet Chemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0F0379
Duplicate (B0F0379-DUP1)

Source: 20F0385-01

Prepared: 06/10/2020 11:20 Analyzed: 06/10/2020 13:01

Specific Gravity	2.18		No unit		2.17			0.363	10	
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Duplicate (B0F0379-DUP2)

Source: 20F0385-02

Prepared: 06/10/2020 12:35 Analyzed: 06/10/2020 13:01

Specific Gravity	2.13		No unit		2.09			2.14	10	
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Quality Control

(Continued)

Client: Geosyntec DoD
Project: Protocol B

Report Date: 05/07/2021
Matrix: Water

Work Order: 20F0385**Metals by ICP-AES**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0F0415 - SW3015**Blank (B0F0415-BLK1)**

Prepared: 06/11/2020 09:47 Analyzed: 06/11/2020 18:51

Arsenic	<0.0400	0.0500	mg/L							
Barium	<0.0200	0.0500	mg/L							
Cadmium	<0.00400	0.00500	mg/L							
Chromium	<0.0100	0.0500	mg/L							
Copper	<0.0200	0.0500	mg/L							
Lead	<0.0400	0.0500	mg/L							
Nickel	<0.0200	0.0500	mg/L							
Selenium	<0.0400	0.0500	mg/L							
Silver	<0.00400	0.00500	mg/L							
Zinc	<0.0400	0.0500	mg/L							

TCLP Blank (B0F0415-BLK2)

Prepared: 06/11/2020 09:47 Analyzed: 06/11/2020 18:55

Arsenic	<0.0400	0.0500	mg/L							
Barium	<0.0200	0.0500	mg/L							
Cadmium	<0.00400	0.00500	mg/L							
Chromium	<0.0100	0.0500	mg/L							
Copper	<0.0200	0.0500	mg/L							
Lead	<0.0400	0.0500	mg/L							
Nickel	<0.0200	0.0500	mg/L							
Selenium	<0.0400	0.0500	mg/L							
Silver	<0.00400	0.00500	mg/L							
Zinc	<0.0400	0.0500	mg/L							

LCS (B0F0415-BS1)

Prepared: 06/11/2020 09:47 Analyzed: 06/11/2020 18:59

Arsenic	1.29	0.0500	mg/L	1.250	103	87.3-103				
Barium	1.35	0.0500	mg/L	1.250	108	85-111				
Cadmium	0.140	0.00500	mg/L	0.1250	112	85-112				
Chromium	1.38	0.0500	mg/L	1.250	111	85.3-109				S
Copper	1.41	0.0500	mg/L	1.250	113	85-114				
Lead	1.36	0.0500	mg/L	1.250	109	90.4-109				
Nickel	1.36	0.0500	mg/L	1.250	109	88.3-108				S
Selenium	1.37	0.0500	mg/L	1.250	109	85-110				
Silver	0.140	0.00500	mg/L	0.1250	112	85-112				
Zinc	1.36	0.0500	mg/L	1.250	109	86.5-108				S

Serial Dilution (B0F0415-DUP1)**Source: 20F0385-02**

Prepared: 06/11/2020 09:47 Analyzed: 06/11/2020 19:37

Arsenic	<0.200	0.250	mg/L		ND				10	
Barium	0.716	0.250	mg/L		0.701			2.01	10	
Cadmium	<0.0200	0.0250	mg/L		ND				10	
Chromium	<0.0500	0.250	mg/L		ND				10	
Copper	<0.100	0.250	mg/L		ND				10	
Lead	<0.200	0.250	mg/L		ND				10	

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Protocol B

Report Date: 05/07/2021**Matrix:** Water**Work Order:** 20F0385**Metals by ICP-AES**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0F0415 - SW3015 (Continued)**Serial Dilution (B0F0415-DUP1) (Continued)****Source: 20F0385-02**

Prepared: 06/11/2020 09:47 Analyzed: 06/11/2020 19:37

Nickel	<0.100	0.250	mg/L		ND				10	
Selenium	<0.200	0.250	mg/L		ND				10	
Silver	0.0131	0.0250	mg/L		ND			133	10	P
Zinc	0.358	0.250	mg/L		0.360			0.593	10	

MRL Check (B0F0415-MRL1)

Prepared: 06/11/2020 09:47 Analyzed: 06/11/2020 19:03

Arsenic	0.0648	0.0500	mg/L	0.06250		104	70-130			
Barium	0.0648	0.0500	mg/L	0.06250		104	70-130			
Cadmium	0.00662	0.00500	mg/L	0.006250		106	70-130			
Chromium	0.0662	0.0500	mg/L	0.06250		106	70-130			
Copper	0.0691	0.0500	mg/L	0.06250		111	70-130			
Lead	0.0675	0.0500	mg/L	0.06250		108	70-130			
Nickel	0.0662	0.0500	mg/L	0.06250		106	70-130			
Selenium	0.0586	0.0500	mg/L	0.06250		93.8	70-130			
Silver	0.0101	0.00500	mg/L	0.006250		162	70-130			S
Zinc	0.0640	0.0500	mg/L	0.06250		102	70-130			

Matrix Spike (B0F0415-MS1)**Source: 20F0385-02**

Prepared: 06/11/2020 09:47 Analyzed: 06/11/2020 19:24

Arsenic	1.27	0.0500	mg/L	1.250	ND	102	75-125			
Barium	2.04	0.0500	mg/L	1.250	0.701	107	75-125			
Cadmium	0.132	0.00500	mg/L	0.1250	0.00438	102	75-125			
Chromium	1.31	0.0500	mg/L	1.250	ND	105	75-125			
Copper	1.39	0.0500	mg/L	1.250	0.0102	110	75-125			
Lead	1.27	0.0500	mg/L	1.250	0.0418	98.6	75-125			
Nickel	1.25	0.0500	mg/L	1.250	0.0116	99.1	75-125			
Selenium	1.43	0.0500	mg/L	1.250	ND	115	75-125			
Silver	0.135	0.00500	mg/L	0.1250	0.00262	106	75-125			
Zinc	1.70	0.0500	mg/L	1.250	0.360	108	75-125			

Matrix Spike Dup (B0F0415-MSD1)**Source: 20F0385-02**

Prepared: 06/11/2020 09:47 Analyzed: 06/11/2020 19:28

Arsenic	1.26	0.0500	mg/L	1.250	ND	100	75-125	1.38	20	
Barium	2.02	0.0500	mg/L	1.250	0.701	106	75-125	1.05	20	
Cadmium	0.129	0.00500	mg/L	0.1250	0.00438	100	75-125	2.29	20	
Chromium	1.28	0.0500	mg/L	1.250	ND	103	75-125	2.21	20	
Copper	1.37	0.0500	mg/L	1.250	0.0102	109	75-125	1.18	20	
Lead	1.25	0.0500	mg/L	1.250	0.0418	96.9	75-125	1.68	20	
Nickel	1.22	0.0500	mg/L	1.250	0.0116	96.6	75-125	2.47	20	
Selenium	1.40	0.0500	mg/L	1.250	ND	112	75-125	2.11	20	
Silver	0.128	0.00500	mg/L	0.1250	0.00262	101	75-125	4.75	20	
Zinc	1.66	0.0500	mg/L	1.250	0.360	104	75-125	2.38	20	

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Protocol B

Report Date: 05/07/2021**Matrix:** Water**Work Order:** 20F0385**Metals by ICP-AES**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0F0415 - SW3015 (Continued)**Post Spike (B0F0415-PS1)****Source: 20F0385-02**

Prepared: 06/11/2020 09:47 Analyzed: 06/11/2020 19:33

Arsenic	0.736	0.0556	mg/L	0.6944	ND	106	80-120			
Barium	1.42	0.0556	mg/L	0.6944	0.701	104	80-120			
Cadmium	0.701	0.00556	mg/L	0.6944	0.00438	100	80-120			
Chromium	0.709	0.0556	mg/L	0.6944	ND	102	80-120			
Copper	0.753	0.0556	mg/L	0.6944	0.0102	107	80-120			
Lead	0.729	0.0556	mg/L	0.6944	0.0418	99.0	80-120			
Nickel	0.701	0.0556	mg/L	0.6944	0.0116	99.2	80-120			
Selenium	0.761	0.0556	mg/L	0.6944	ND	110	80-120			
Silver	0.336	0.00556	mg/L	0.6944	0.00262	48.0	80-120			S
Zinc	1.09	0.0556	mg/L	0.6944	0.360	105	80-120			

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Protocol B

Report Date: 05/07/2021
Matrix: Water

Work Order: 20F0385**Mercury by CVAA**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0F0405**Blank (B0F0405-BLK1)***Prepared: 06/11/2020 08:10 Analyzed: 06/11/2020 11:51*

Mercury <0.00040 0.00050 mg/L

TCLP Blank (B0F0405-BLK2)*Prepared: 06/11/2020 08:10 Analyzed: 06/11/2020 12:28*

Mercury <0.00040 0.00050 mg/L

TCLP Blank (B0F0405-BLK3)*Prepared: 06/11/2020 08:10 Analyzed: 06/11/2020 12:30*

Mercury <0.00040 0.00050 mg/L

TCLP Blank (B0F0405-BLK4)*Prepared: 06/11/2020 08:10 Analyzed: 06/11/2020 12:32*

Mercury <0.00040 0.00050 mg/L

LCS (B0F0405-BS1)*Prepared: 06/11/2020 08:10 Analyzed: 06/11/2020 11:53*

Mercury 0.00526 0.00050 mg/L 0.005000 105 87.6-112

MRL Check (B0F0405-MRL1)*Prepared: 06/11/2020 08:10 Analyzed: 06/11/2020 10:40*

Mercury 0.00046 0.00050 mg/L 0.0005000 91.4 70-130

Matrix Spike (B0F0405-MS1)**Source: 20F0338-01** *Prepared: 06/11/2020 08:10 Analyzed: 06/11/2020 12:08*

Mercury 0.00177 0.00050 mg/L 0.002000 ND 88.5 75-125

Matrix Spike (B0F0405-MS2)**Source: 20D0438-21** *Prepared: 06/11/2020 08:10 Analyzed: 06/11/2020 12:17*

Mercury 0.00170 0.00050 mg/L 0.002000 ND 85.2 75-125

Matrix Spike Dup (B0F0405-MSD1)**Source: 20F0338-01** *Prepared: 06/11/2020 08:10 Analyzed: 06/11/2020 12:10*

Mercury 0.00172 0.00050 mg/L 0.002000 ND 85.8 75-125 3.06 20

Matrix Spike Dup (B0F0405-MSD2)**Source: 20D0438-21** *Prepared: 06/11/2020 08:10 Analyzed: 06/11/2020 12:19*

Mercury 0.00174 0.00050 mg/L 0.002000 ND 86.9 75-125 2.00 20

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Protocol B

Report Date: 05/07/2021
Matrix: Water

Work Order: 20F0385**Wet Chemistry**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0F0307**Blank (B0F0307-BLK1)**

Prepared: 06/08/2020 15:28 Analyzed: 06/09/2020 10:46

Reactive Sulfide < 10.0 10.0 mg/L

LCS (B0F0307-BS1)

Prepared: 06/08/2020 15:28 Analyzed: 06/09/2020 10:46

Reactive Sulfide 150 mg/L 154.0 97.4 80-120

Duplicate (B0F0307-DUP1)**Source: 20F0385-01**

Prepared: 06/08/2020 15:28 Analyzed: 06/09/2020 10:46

Reactive Sulfide < 6.80 10.0 mg/L ND 20

Batch: B0F0315**Blank (B0F0315-BLK1)**

Prepared: 06/09/2020 07:41 Analyzed: 06/09/2020 10:08

Reactive Cyanide < 2.00 2.00 mg/L

LCS (B0F0315-BS1)

Prepared: 06/09/2020 07:41 Analyzed: 06/09/2020 10:10

Reactive Cyanide 0.470 mg/L 1.980 23.8 0.58-22 S

Duplicate (B0F0315-DUP1)**Source: 20F0385-02**

Prepared: 06/09/2020 07:41 Analyzed: 06/09/2020 10:15

Reactive Cyanide < 0.0280 2.00 mg/L ND 10

Quality Control

(Continued)

Client: Geosyntec DoD

Report Date: 05/07/2021

Project: Protocol B

Matrix: Water

Work Order: 20F0385

Semivolatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0F0447 - SW3510**Blank (B0F0447-BLK1)**

Prepared: 06/12/2020 10:17 Analyzed: 06/12/2020 15:34

Cresols, Total	<0.0020	0.0040	mg/L							
1,4-Dichlorobenzene	<0.0010	0.0020	mg/L							
2,4,5-Trichlorophenol	<0.0005	0.0010	mg/L							
2,4,6-Trichlorophenol	<0.0005	0.0010	mg/L							
2,4-Dinitrotoluene	<0.0010	0.0020	mg/L							
2-Methylphenol	<0.0005	0.0010	mg/L							
3 & 4-Methylphenol	<0.0005	0.0010	mg/L							
Hexachlorobenzene	<0.0005	0.0010	mg/L							
Hexachlorobutadiene	<0.0005	0.0010	mg/L							
Hexachloroethane	<0.0005	0.0010	mg/L							
Nitrobenzene	<0.0003	0.0006	mg/L							
Pentachlorophenol	<0.0100	0.0300	mg/L							
Pyridine	<0.0050	0.0100	mg/L							

Surrogate: 2-Fluorophenol	ND		mg/L	0.06667		47	10-85			
Surrogate: Phenol-d5	ND		mg/L	0.06667		37	10-62			
Surrogate: Nitrobenzene-d5	0.0413		mg/L	0.06667		62	25-126			
Surrogate: 2-Fluorobiphenyl	ND		mg/L	0.06667		54	21-113			
Surrogate: 2,4,6-Tribromophenol	ND		mg/L	0.06667		60	19-131			
Surrogate: 4-Terphenyl-d14	0.0513		mg/L	0.06667		77	32-133			

LCS (B0F0447-BS1)

Prepared: 06/12/2020 10:17 Analyzed: 06/12/2020 16:00

Cresols, Total	0.0586	0.0040	mg/L	0.08000		73	32-104			
1,4-Dichlorobenzene	0.0245	0.0020	mg/L	0.04000		61	31-97			
2,4,5-Trichlorophenol	0.0320	0.0010	mg/L	0.04000		80	38-126			
2,4,6-Trichlorophenol	0.0314	0.0010	mg/L	0.04000		79	38-124			
2,4-Dinitrotoluene	0.0337	0.0020	mg/L	0.04000		84	39-124			
2-Methylphenol	0.0281	0.0010	mg/L	0.04000		70	34-105			
3 & 4-Methylphenol	0.0306	0.0010	mg/L	0.04000		76	34-102			
Hexachlorobenzene	0.0313	0.0010	mg/L	0.04000		78	44-112			
Hexachlorobutadiene	0.0225	0.0010	mg/L	0.04000		56	32-100			
Hexachloroethane	0.0208	0.0010	mg/L	0.04000		52	29-98			
Nitrobenzene	0.0267	0.0006	mg/L	0.04000		67	42-111			
Pentachlorophenol	0.0274	0.0300	mg/L	0.04000		69	29-120			
Pyridine	0.0207	0.0100	mg/L	0.04000		52	24-89			

Surrogate: 2-Fluorophenol	0.0337		mg/L	0.06667		51	10-85			
Surrogate: Phenol-d5	0.0274		mg/L	0.06667		41	10-62			
Surrogate: Nitrobenzene-d5	0.0482		mg/L	0.06667		72	25-126			
Surrogate: 2-Fluorobiphenyl	0.0458		mg/L	0.06667		69	21-113			
Surrogate: 2,4,6-Tribromophenol	0.0487		mg/L	0.06667		73	19-131			
Surrogate: 4-Terphenyl-d14	0.0524		mg/L	0.06667		79	32-133			

Quality Control

(Continued)

Client: Geosyntec DoD

Report Date: 05/07/2021

Project: Protocol B

Matrix: Water

Work Order: 20F0385

Semivolatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0F0447 - SW3510 (Continued)**Matrix Spike (B0F0447-MS1)**

Source: 20F0385-01

Prepared: 06/12/2020 10:17 Analyzed: 06/12/2020 16:51

Cresols, Total	0.421	0.0397	mg/L	0.7944	ND	53	28-105			
1,4-Dichlorobenzene	0.166	0.0199	mg/L	0.3972	ND	42	31-88			
2,4,5-Trichlorophenol	0.249	0.0099	mg/L	0.3972	ND	63	54-120			
2,4,6-Trichlorophenol	0.257	0.0099	mg/L	0.3972	ND	65	51-117			
2,4-Dinitrotoluene	0.264	0.0199	mg/L	0.3972	ND	66	49-124			
2-Methylphenol	0.200	0.0099	mg/L	0.3972	ND	50	32-107			
3 & 4-Methylphenol	0.221	0.0099	mg/L	0.3972	ND	56	20-115			
Hexachlorobenzene	0.240	0.0099	mg/L	0.3972	ND	60	51-110			
Hexachlorobutadiene	0.149	0.0099	mg/L	0.3972	ND	37	29-94			
Hexachloroethane	0.143	0.0099	mg/L	0.3972	ND	36	25-89			
Nitrobenzene	0.199	0.0060	mg/L	0.3972	ND	50	39-113			
Pentachlorophenol	0.0987	0.298	mg/L	0.3972	ND	25	12-122			
Pyridine	0.146	0.0993	mg/L	0.3972	ND	37	14-91			
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Surrogate: 2-Fluorophenol	0.262		mg/L	0.6621		40	10-85			
Surrogate: Phenol-d5	0.205		mg/L	0.6621		31	10-62			
Surrogate: Nitrobenzene-d5	0.364		mg/L	0.6621		55	25-126			
Surrogate: 2-Fluorobiphenyl	0.367		mg/L	0.6621		55	21-113			
Surrogate: 2,4,6-Tribromophenol	0.379		mg/L	0.6621		57	19-131			
Surrogate: 4-Terphenyl-d14	0.416		mg/L	0.6621		63	32-133			

Matrix Spike Dup (B0F0447-MSD1)

Source: 20F0385-01

Prepared: 06/12/2020 10:17 Analyzed: 06/12/2020 17:17

Cresols, Total	0.558	0.0383	mg/L	0.7656	ND	73	28-105	28	30	
1,4-Dichlorobenzene	0.227	0.0191	mg/L	0.3828	ND	59	31-88	31	32	
2,4,5-Trichlorophenol	0.317	0.0096	mg/L	0.3828	ND	83	54-120	24	22	P
2,4,6-Trichlorophenol	0.322	0.0096	mg/L	0.3828	ND	84	51-117	22	33	
2,4-Dinitrotoluene	0.314	0.0191	mg/L	0.3828	ND	82	49-124	17	23	
2-Methylphenol	0.271	0.0096	mg/L	0.3828	ND	71	32-107	30	32	
3 & 4-Methylphenol	0.287	0.0096	mg/L	0.3828	ND	75	20-115	26	32	
Hexachlorobenzene	0.295	0.0096	mg/L	0.3828	ND	77	51-110	21	20	P
Hexachlorobutadiene	0.212	0.0096	mg/L	0.3828	ND	55	29-94	35	28	P
Hexachloroethane	0.196	0.0096	mg/L	0.3828	ND	51	25-89	31	32	
Nitrobenzene	0.252	0.0057	mg/L	0.3828	ND	66	39-113	23	30	
Pentachlorophenol	0.159	0.287	mg/L	0.3828	ND	42	12-122	47	46	P
Pyridine	0.199	0.0957	mg/L	0.3828	ND	52	14-91	31	30	P
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Surrogate: 2-Fluorophenol	0.331		mg/L	0.6380		52	10-85			
Surrogate: Phenol-d5	0.272		mg/L	0.6380		43	10-62			
Surrogate: Nitrobenzene-d5	0.468		mg/L	0.6380		73	25-126			
Surrogate: 2-Fluorobiphenyl	0.472		mg/L	0.6380		74	21-113			
Surrogate: 2,4,6-Tribromophenol	0.483		mg/L	0.6380		76	19-131			
Surrogate: 4-Terphenyl-d14	0.514		mg/L	0.6380		81	32-133			

Certified Analyses included in this Report

Analyte	CAS #	Certifications
SM2540G in Solid		
Total Solids	Moist	WDNR,DoD
SW1311 / SW8260B in Solid		
1,1-Dichloroethene, TCLP	75-35-4	AKDEC,WDNR,DoD,ILEPA
1,2-Dichloroethane, TCLP	107-06-2	AKDEC,WDNR,DoD,ILEPA
1,4-Dichlorobenzene, TCLP	106-46-7	WDNR,DoD,ILEPA
2-Butanone, TCLP	78-93-3	WDNR,DoD,ILEPA
Benzene, TCLP	71-43-2	WDNR,DoD,ILEPA
Carbon tetrachloride, TCLP	56-23-5	AKDEC,WDNR,DoD,ILEPA
Chlorobenzene, TCLP	108-90-7	AKDEC,WDNR,DoD,ILEPA
Chloroform, TCLP	67-66-3	AKDEC,WDNR,DoD,ILEPA
Tetrachloroethene, TCLP	127-18-4	WDNR,DoD,ILEPA
Trichloroethene, TCLP	79-01-6	AKDEC,WDNR,DoD,ILEPA
Vinyl chloride, TCLP	75-01-4	AKDEC,WDNR,DoD,ILEPA
SW1311 / SW8270D in Water		
Cresols, Total, TCLP	1319-77-3	DoD,WDNR
1,4-Dichlorobenzene, TCLP	106-46-7	DoD,WDNR,ILEPA
2,4,5-Trichlorophenol, TCLP	95-95-4	DoD,WDNR,ILEPA
2,4,6-Trichlorophenol, TCLP	88-06-2	DoD,WDNR,ILEPA
2,4-Dinitrotoluene, TCLP	121-14-2	DoD,WDNR,ILEPA
2-Methylphenol, TCLP	95-48-7	DoD,WDNR,ILEPA
3 & 4-Methylphenol, TCLP	84989-04-8	DoD,WDNR,ILEPA
Hexachlorobenzene, TCLP	118-74-1	DoD,WDNR,ILEPA
Hexachlorobutadiene, TCLP	87-68-3	DoD,WDNR,ILEPA
Hexachloroethane, TCLP	67-72-1	DoD,WDNR,ILEPA
Nitrobenzene, TCLP	98-95-3	DoD,WDNR,ILEPA
Pentachlorophenol, TCLP	87-86-5	DoD,WDNR,ILEPA
Pyridine, TCLP	110-86-1	DoD,WDNR,ILEPA
SW6010C in Water		
Arsenic, TCLP	7440-38-2	AKDEC,ISO,WDNR,DoD,ILEPA
Barium, TCLP	7440-39-3	AKDEC,ISO,WDNR,DoD,ILEPA
Cadmium, TCLP	7440-43-9	AKDEC,ISO,WDNR,DoD,ILEPA
Chromium, TCLP	7440-47-3	AKDEC,ISO,WDNR,DoD,ILEPA
Copper, TCLP	7440-50-8	ISO,WDNR,DoD,ILEPA
Lead, TCLP	7439-92-1	AKDEC,ISO,WDNR,DoD,ILEPA
Nickel, TCLP	7440-02-0	AKDEC,ISO,WDNR,DoD,ILEPA
Selenium, TCLP	7782-49-2	ISO,WDNR,DoD,ILEPA
Silver, TCLP	7440-22-4	ISO,WDNR,DoD,ILEPA
Zinc, TCLP	7440-66-6	ISO,WDNR,DoD,ILEPA
SW7470A in Water		

Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW7470A in Water (Continued)		
Mercury, TCLP	7439-97-6	DoD, ILEPA, WDNR
SW8082A in Solid		
Aroclor 1016	12674-11-2	AKDEC, WDNR, DoD, ILEPA
Aroclor 1016	12674-11-2	AKDEC, WDNR, DoD, ILEPA
Aroclor 1221	11104-28-2	AKDEC, WDNR, DoD, ILEPA
Aroclor 1221	11104-28-2	AKDEC, WDNR, DoD, ILEPA
Aroclor 1232	11141-16-5	AKDEC, WDNR, DoD, ILEPA
Aroclor 1232	11141-16-5	AKDEC, WDNR, DoD, ILEPA
Aroclor 1242	53469-21-9	AKDEC, WDNR, DoD, ILEPA
Aroclor 1242	53469-21-9	AKDEC, WDNR, DoD, ILEPA
Aroclor 1248	12672-29-6	AKDEC, WDNR, DoD, ILEPA
Aroclor 1248	12672-29-6	AKDEC, WDNR, DoD, ILEPA
Aroclor 1254	11097-69-1	AKDEC, WDNR, DoD, ILEPA
Aroclor 1254	11097-69-1	AKDEC, WDNR, DoD, ILEPA
Aroclor 1260	11096-82-5	AKDEC, WDNR, DoD, ILEPA
Aroclor 1260	11096-82-5	AKDEC, WDNR, DoD, ILEPA
Total PCB	1336-36-3	AKDEC, WDNR, DoD, ILEPA
Total PCB	1336-36-3	AKDEC, WDNR, DoD, ILEPA
SW9045C in Solid		
pH		DoD, ILEPA, WDNR
SW9065 in Solid		
Phenolics, Total Recoverable		DoD, ILEPA, WDNR
SW9095 in Solid		
Free Liquid		ILEPA

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	17-011	05/31/2022
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L18-184-R1	03/31/2021
DoD	Department of Defense, Accredited by PJLA	L18-183-R3	03/31/2022
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	1002562020-3	07/27/2021
ISO	ISO/IEC 17025, Accredited by PJLA	L18-184-R1	03/31/2022
TX	Texas Commission of Environmental Quality	T104704554-20-5	10/31/2021
WA	Washington State Department of Ecology	C1057	01/05/2022
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2021

Qualifiers and Definitions

Item	Description
J2	The MS/MSD or duplicate recoveries are outside the quality control criteria due to difficult sample matrix.
P	The quality control sample %RPD is above the laboratory control limit.
Q	One or more quality control results were outside of the acceptance limits (e.g. LCS recovery, surrogate spike recovery, or CCV recovery).
S	The quality control sample recovery is outside of the laboratory control limits.
S1	The percent recovery is above the limits (e.g. LCS recovery, surrogate spike recovery, or CCV recovery), but the analyte was not detected in the sample. Data is acceptable.
S2	The percent recovery is outside the lab control limits, but within the method acceptable limits. Data is acceptable.
%Rec	Percent Recovery
MDL	In the state of Wisconsin MDL is equivalent to LOD; in all other applications MDL is equivalent to MDL. In the state of Wisconsin the Reporting Limit is equivalent to LOQ.



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

509 N. 3rd Avenue
Des Plaines, IL 60016



20F0385
PM: Nicole Ryan
Geosyntec DoD
Protocol B

847-967-6666
FAX: 847-967-6735
www.emt.com

Record

TURNAROUND TIME:
 RUSH
 _____ day turnaround
 ROUTINE

Due Date: _____ COC #: **236349**

Company: Geosyntec Consultants
 Address: 10600 N. Port Washington Rd, Suite 100
Megan, IL 60052
 Phone #: (708) 834-0228 Fax #: ()
 P.O. #: _____ Proj. #: 01252719
 Client Contact: Jeremiah Johnson
 Project ID / Location: MOU / m: m: m: kll

Sample Type:
 1. Waste Water 4. Sludge 7. Groundwater (filtered)
 2. Drinking Water 5. Oil 8. Other
 3. Soil 6. Groundwater

Container Type:
 P - Plastic V - VOC Vial O - Other
 G - Glass B - Tedlar Bag

Preservative:
 1. None 4. NaOH 7. Zn Ace
 2. H₂SO₄ 5. HCl 8. Other
 3. HNO₃ 6. MeOH

Analyses

EMT
USE
ONLY

EMT
WORKORDER

#20F0385

Revised B

Sample I.D.	Sample Type	Container			Sampling					Preservation		EMT USE ONLY	
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab		
WC-01 (West)	3	162 9oz	G	2	JJ	6-8-20	0930	-	-	-		X	01
WC-02 (East)	3	162 9oz	G	2	JJ	6-8-20	1030	-	-	-		X	02
<i>[Handwritten signature]</i>													

Relinquished By: <i>[Signature]</i>	Date: <u>6-8-20</u> 6-5-20	Received By: <i>[Signature]</i>	Date: <u>6-8-20</u>	EMT USE ONLY	<input checked="" type="checkbox"/> SAMPLE RECEIVED ON ICE <input type="checkbox"/> TEMPERATURE 2.1 EMT SAMPLE RETURN POLICY ON BACK
Relinquished By: <i>[Signature]</i>	Date: <u>6-8-20</u>	Received By:	Date: - -	Client Code:	
Relinquished By:	Date: - -	Received For Lab By: <i>[Signature]</i>	Date: <u>6-8-20</u>	EMT Project I.D.	
	Time: <u>0830</u>		Time: <u>0830</u>	Jar Lot No.	
	Time: <u>1145</u>		Time: :		
	Time: :		Time: <u>11:45</u>		

SPECIAL INSTRUCTIONS:

Sample Receipt Checklist

Work Order: 20F0385

Printed: 6/8/2020 12:22:14PM

Client: Geosyntec DoD
Project: Protocol B

Date Due: Monday, June 15, 2020

Received By: Keith Wesseling
Logged In By: Keith Wesseling

Date Received: 06/08/20 11:45
Date Logged In: 06/08/20 12:17

Sample Temperature at Receipt:	2.1°C
How were samples received?	EMT
Custody Seals Present	No
Custody Seals Intact	NA
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	No

Comments

92 aw
6/8/20

Memorandum

Date: May 7, 2021
To: Jeremiah Johnson
From: Jennifer Pinion
CC: J. Caprio
Subject: **Stage 2A Data Validation – Level II Data Deliverable – Environmental Monitoring and Technologies Work Order # 20F0385**

SITE: Milwaukee Die Casting Company Site, Milwaukee, WI

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of two solid samples, collected on June 5, 2020, during a Milwaukee Die Casting Company Site sampling event. The analyses were performed by Environmental Monitoring and Technologies (EMT), Inc, Des Plaines, Illinois. The samples were analyzed for the following tests:

- Toxicity Characteristic Leaching Procedure (TCLP) Volatile Organic Compounds (VOCs) by United States (US) Environmental Protection Agency (EPA) Methods 1311/5030B/8260B
- TCLP Semi-volatile Organic Compounds (SVOCs) by US EPA Methods 1311/3510/8270D
- Polychlorinated Biphenyls (PCBs) by US EPA Methods 3546/8082A
- TCLP Metals by US EPA Methods 1311/3015/6010C
- TCLP Mercury by Cold Vapor Atomic Absorption (CVAA) by US EPA Methods 1311/7470A
- Chlorine by US EPA 5050/9056A
- Specific Gravity by American Society for Testing and Materials (ASTM) Method D5057-90
- Ignitability by ASTM Method D92-90
- Total Solids by Standard Methods (SM) 2540G
- Reactive Cyanide by SW-846 7.3.3.2/9014 Discrete
- Reactive Sulfide by SW-846 7.3.4.2
- pH by SW-846 9045C
- Phenolics by SW-846 9065
- Free Liquid by SW-846 9095B

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the pertinent methods referenced by the data package, professional and technical judgment and the following documents:

- Updated Site Investigation Work Plan, Milwaukee Die Casting Company Site, 4132 North Holton Street. Milwaukee, Wisconsin, November 12, 2019
- US EPA National Functional Guidelines for Organic Superfund Methods Data Review, November 2020 (EPA 540-R-20-005)
- US EPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006)

The following samples were analyzed in the data set and validated at a Stage 2A level:

Laboratory IDs	Client IDs
20F0385-01	WC-01 (West)

Laboratory IDs	Client IDs
20F0385-02	WC-01 (East)

The samples were received at the laboratory at 2.1°C within the temperature criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

Incorrect error corrections were observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

The laboratory report was revised on 6/16/2020 to include PCB results for sample WC-01 (East). The laboratory report was revised again on 5/7/2021 to correct the client name to Geosyntec Consultants.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for TCLP VOCs per US EPA Methods 1311/5030B/8260B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine the impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times and Preservation
- ✓ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Trip Blank
- ✓ Surrogates
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 **Overall Assessment**

The VOC data reported in this package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for the sample set is 100%.

1.2 **Holding Times and Preservation**

The holding time for the TCLP VOC analysis of a solid sample is 14 days from collection to TCLP extraction and 14 days from TCLP extraction to analysis. The holding times were met for the sample analysis.

1.3 **Method Blank**

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch B0F0527). VOCs were not detected in the method blank above the method detection limits (MDLs).

1.4 **Matrix Spike/Matrix Spike Duplicate (MS/MSD)**

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample WC-01 (West). The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exception.

The recovery of 1,4-dichlorobenzene in the MS/MSD pair was low and outside the laboratory specified acceptance criteria. Therefore, the non-detect 1,4-dichlorobenzene result in sample WC-01 (West) was UJ qualified as estimated less than the limit of detection (LOD).

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WC-01 (West)	1,4-Dichlorobenzene	0.100	U	0.100	UJ	4

mg/L-milligram per liter

U-not detected at a concentration greater than or equal to the LOD

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCS duplicate (LCSD) pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

1.6 Trip Blank

Trip blanks were not submitted with the sample set.

1.7 Surrogates

The surrogate recoveries were within the laboratory specified acceptance criteria.

1.8 Sensitivity

The samples were assessed to the MDLs; however, the non-detects were reported as not detected at the LODs. Elevated non-detect results were not reported.

1.9 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for TCLP SVOCs per US EPA Methods 1311/3510/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine the impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 **Overall Assessment**

The SVOC data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for the data set is 100%.

2.2 **Holding Times**

The holding times for the SVOC analysis of solid samples are 14 days from sample collection to TCLP extraction, 7 days from TCLP extraction to preparation and 40 days from preparation to analysis. The holding times were met for the sample analyses.

2.3 **Method Blank**

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch B0F0447). SVOCs were not detected in the method blank above the MDLs.

2.4 **Matrix Spike/Matrix Spike Duplicate**

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample

WC-01 (West). The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The RPD results for 2,4,5-trichlorophenol, pentachlorophenol, hexachlorobenzene, pyridine and hexachlorobutadiene in the MS/MSD pair using sample WC-01 (West) were high and outside the laboratory specified acceptance criteria. Since 2,4,5-trichlorophenol, pentachlorophenol, hexachlorobenzene, pyridine and hexachlorobutadiene were not detected in sample WC-01 (West), no qualifications were applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

The surrogate recoveries were within the laboratory specified acceptance criteria.

2.7 Sensitivity

The samples were assessed to the MDLs; however, the non-detects were reported as not detected at the LODs. Elevated non-detect results were not reported.

2.8 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs per US EPA Methods 3546/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank

- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this package are considered to be usable for supporting project objectives. The results are considered to be valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for the project is 100%.

3.2 Holding Times

The holding times for the PCB analysis of a solid sample are one year from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch B0F0251). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One batch MS/MSD pair was reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Surrogates

The surrogate recoveries were within the laboratory specified acceptance criteria.

3.7 Sensitivity

The samples were assessed to the MDLs; however, the non-detects were reported as not detected at the LODs. Elevated non-detect results were not reported.

3.8 Electronic Data Deliverable Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

4.0 TCLP METALS

The samples were analyzed for TCLP metals per US EPA Methods 1311/3015/6020C. (TCLP mercury was evaluated separately in Section 3.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ⊗ Laboratory Control Sample
- ⊗ Serial Dilutions
- ✓ Post Digestion Spike
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The TCLP metals data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as

estimated) to the total number of analytical results requested on samples submitted for these analyses, for this data set is 100%.

4.2 Holding Time

The holding times for the metals analysis of a solid sample is 180 days from collection to TCLP extraction and 180 days from TCLP extraction to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch B0F0415). Metals were not detected in the method blank above the MDLs.

A TCLP extraction blank was also reported in batch B0F0415. Metals were not detected in the TCLP extraction blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample specific MS/MSD pair was reported for TCLP metals, using sample WC-01 (East). The recovery and RPD results were within the laboratory specified acceptance criteria.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria, with the following exceptions.

The recovery results for chromium, nickel and zinc were high and outside the laboratory specified acceptance criteria. Therefore, the concentration of zinc in sample WC-01 (East) was J+ qualified as estimated with a high bias. No qualifications were applied to the non-detect chromium, nickel and zinc results in the associated samples.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WC-01 (East)	Zinc	0.36	Q, S2	0.36	J+	5

mg/L- milligram per liter

Q-laboratory flag indicating that one or more laboratory specified acceptance criteria was outside specified limits

S2-laboratory flag indicating the percent recovery is outside lab control limits, but within the method acceptable limits.

A method reporting limit (MRL) check standard was also reported. Assessment of the MRL standard indicated the recoveries were within the laboratory acceptance criteria and did not lead to any qualifications of the data with the following exceptions.

The recovery of silver in the MRL check standard was high and outside the laboratory specified acceptance criteria. Since silver was not detected in the associated samples and based on professional and technical judgement, no qualifications were applied to the data.

4.6 Serial Dilutions

Serial dilutions were reported for metals, using sample WC-01 (East). The RPD results were within the laboratory specified acceptance criteria, with the following exception.

The RPD of silver in the serial dilution was high and outside the laboratory specified acceptance criteria. Therefore, based on professional and technical judgement, the non-detect silver result in sample WC-01 (East) was UJ qualified as estimated less than the LOD.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WC-01 (East)	Silver	0.0040	U, J2	0.0040	UJ	8

mg/L- milligram per liter

U-not detected at or above the LOD

J2-laboratory flag indicating the MS/MSD or duplicate recoveries are outside the laboratory specified acceptance criteria

4.7 Post Digestion Spike

A post digestion spike was reported for metals, using sample WC-01 (East). The recovery results were within the laboratory specified acceptance criteria, with the following exception.

The recovery of silver in the post digestion spike was low and outside the laboratory specified acceptance criteria. Since the recoveries of silver in the MS/MSD were within the laboratory specified acceptance criteria and based on professional and technical judgement, no qualifications were applied to the data.

4.8 Sensitivity

The samples were assessed to the MDLs; however, the non-detects were reported as not detected at the LODs. Elevated non-detect results were reported due to the dilutions analyzed.

4.9 Electronic Data Deliverable Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

5.0 TCLP MERCURY

The samples were analyzed for TCLP mercury per US EPA Methods 1311/7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The mercury data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

5.2 Holding Time

The holding times for the TCLP mercury analysis of a solid sample are 28 days from sample collection to TCLP extraction and 28 days from TCLP extraction to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch B0F0405). Mercury was not detected in the method blank above the MDL.

Three TCLP extraction blanks were also reported. Mercury was not detected in the extraction blanks greater than the MDLs.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two batch MS/MSD pairs were reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

A MRL check standard was also reported. Assessment of the MRL standard indicated the recoveries were within the laboratory acceptance criteria and did not lead to any qualifications of the data

5.6 Sensitivity

The samples were assessed to the MDLs; however, the non-detects were reported as not detected at the LODs. Elevated non-detect results were not reported.

5.7 Electronic Data Deliverable Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

6.0 WET CHEMISTRY

The samples were analyzed for chlorine by US EPA 5050/9056A, specific gravity by ASTM D5057-90, ignitability by ASTM D92-90, total solids by SM2540G, reactive cyanide by SW7.3.3.2/9014 by Discrete, reactive sulfide by SW 7.3.4.2, pH by SW9045C, phenolics by SW 9065 and free liquid by SW 9095.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The wet chemistry data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this data set is 100%.

6.2 Holding Time

The holding time for the wet chemistry parameters are listed in the table below. The holding times were met for the sample analyses.

Analyte	Method	Holding Time
Chlorine	US EPA 5050/9056A	28 days from collection to analysis
Specific Gravity	ASTM D5057-90	28 days from collection to analysis
Total Solids	SM2540G	7 days from collection to analysis
Reactive Cyanide	SW-846 7.3.3.2/9014 by Discrete	14 days from collection to extraction
Reactive Sulfide	SW-846 7.3.4.2	7 days from collection to analysis
pH	SW-846 9045C	7 days from collection to analysis
Phenolics	SW-846 9065	28 days from collection to analysis
Ignitability	ASTM D92	30 days from collection to analysis

6.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Method blanks were reported for each method as required (chlorine batch B0F0460, total solids batch B0F0312, phenolics batch B0F0428, reactive sulfide batch B0F0307 and reactive cyanide B0F0315). The wet chemistry parameters were not detected in the method blanks above the MDLs.

6.4 Matrix Spike/Matrix Spike Duplicate

One sample specific MS/MSD pair was reported for phenolics, using sample WC-01 (East). The recovery and RPD results were within the laboratory specified acceptance criteria.

Two batch MS/MSD pairs were reported for chlorine. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

6.5 Laboratory Control Sample

LCSs were reported for chlorine, total solids, pH, phenolics, reactive sulfide and reactive cyanide. The recovery results were within the laboratory specified acceptance criteria, with the following exception.

The LCS recovery of reactive cyanide was high and outside the laboratory specified acceptance criteria. Since reactive cyanide was not detected in the associated samples, no qualifications were applied to the data.

6.6 Laboratory Duplicate

Sample specific laboratory duplicates were reported for total solids, pH, and reactive cyanide, using sample WC-01 (East), for reactive sulfide using sample WC-01 (West), and for free liquid and specific gravity using samples WC-01 (West) and WC-01 (East), respectively. The RPD results were within the laboratory specified acceptance criteria.

6.7 Sensitivity

The samples were assessed to the MDLs; however, the non-detects were reported as not detected at the LODs. Elevated non-detect results were reported due to the dilutions analyzed.

6.8 Electronic Data Deliverable Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
 Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Analytical Report

Jeremiah Johnson
Geosyntec Consultants
10600 N. Port Washington Rd.
Mequon, WI 53092

August 28, 2020

Work Order: 20H0680

RE: Milw Die Cast
CHW8271N

Dear Jeremiah Johnson:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,



Tim Witrzek For Nicole Ryan
Federal Project Manager
847.967.6666
nryan@emt.com

Approved for release: 8/28/2020 2:15:14PM

Approved by,



Gerald L. Bagnowski Jr.
Laboratory Special Projects Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Wisconsin Dept of Natural Resources, Cert No. 999888890

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Sample Summary

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PZ-1	20H0680-01	Soil	08/20/20 11:00	08/21/20 15:20
PZ-2	20H0680-02	Soil	08/20/20 14:20	08/21/20 15:20
MW-3	20H0680-03	Soil	08/20/20 14:00	08/21/20 15:20
MW-4	20H0680-04	Soil	08/20/20 10:55	08/21/20 15:20
MW-7	20H0680-05	Soil	08/20/20 10:45	08/21/20 15:20
MW-8	20H0680-06	Soil	08/20/20 15:35	08/21/20 15:20
MW-12	20H0680-07	Soil	08/20/20 14:10	08/21/20 15:20
MW-13	20H0680-08	Soil	08/20/20 12:40	08/21/20 15:20

Case Narrative

Client: Geosyntec Consultants

Date: 05/07/2021

Project: Milw Die Cast
CHW8271N

Work Order: 20H0680

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 20H0680

The samples were received on 08/21/20 15:20. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was:

<u>Cooler</u>	<u>Temp C°</u>
Default Cooler	1.4

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Client Sample Results

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0680

Client Sample ID: PZ-1
Report Date: 05/07/2021
Collection Date: 08/20/2020 11:00
Matrix: Soil
Lab ID: 20H0680-01

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit							
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3546										
Aroclor 1016	< 0.150	0.199			mg/Kg wet	0.0466	08/27/20 09:01	B0H0658	CS2	1
Aroclor 1221	< 0.299	0.499			mg/Kg wet	0.132	08/27/20 09:01	B0H0658	CS2	1
Aroclor 1232	< 0.0997	0.199			mg/Kg wet	0.0401	08/27/20 09:01	B0H0658	CS2	1
Aroclor 1242	< 0.0997	0.199			mg/Kg wet	0.0377	08/27/20 09:01	B0H0658	CS2	1
Aroclor 1248	0.308	0.199			mg/Kg wet	0.0414	08/27/20 09:36	B0H0658	CS2	1
Aroclor 1254	< 0.0997	0.199			mg/Kg wet	0.0419	08/27/20 09:01	B0H0658	CS2	1
Aroclor 1260	< 0.150	0.199			mg/Kg wet	0.0515	08/27/20 09:01	B0H0658	CS2	1
Total PCB	< 0.299	0.499			mg/Kg wet	0.132	08/27/20 09:36	B0H0658	CS2	1
<i>Surrogate: Decachlorobiphenyl</i>					<i>Recovery: 74%</i>	<i>Limits: 10-127</i>	<i>08/27/20 09:36</i>	<i>B0H0658</i>	<i>CS2</i>	<i>1</i>
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					<i>Recovery: 65%</i>	<i>Limits: 11-119</i>	<i>08/27/20 09:36</i>	<i>B0H0658</i>	<i>CS2</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0680

Client Sample ID: PZ-2
Report Date: 05/07/2021
Collection Date: 08/20/2020 14:20
Matrix: Soil
Lab ID: 20H0680-02

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Limit								
Polychlorinated Biphenyls (PCBs) by GC/ECD											
Method: SW8082A / SW3546											
Aroclor 1016	< 0.149	0.199			mg/Kg wet	0.0465	08/27/20 09:19	B0H0658	CS2	1	
Aroclor 1221	< 0.299	0.498			mg/Kg wet	0.132	08/27/20 09:19	B0H0658	CS2	1	
Aroclor 1232	< 0.0996	0.199			mg/Kg wet	0.0400	08/27/20 09:19	B0H0658	CS2	1	
Aroclor 1242	< 0.0996	0.199			mg/Kg wet	0.0376	08/27/20 09:19	B0H0658	CS2	1	
Aroclor 1248	< 0.0996	0.199			mg/Kg wet	0.0413	08/27/20 09:19	B0H0658	CS2	1	
Aroclor 1254	< 0.0996	0.199			mg/Kg wet	0.0418	08/27/20 09:19	B0H0658	CS2	1	
Aroclor 1260	< 0.149	0.199			mg/Kg wet	0.0514	08/27/20 09:19	B0H0658	CS2	1	
Total PCB	< 0.299	0.498			mg/Kg wet	0.132	08/27/20 09:19	B0H0658	CS2	1	
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 52%		Limits: 10-127		08/27/20 09:19	B0H0658	CS2 1
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 51%		Limits: 11-119		08/27/20 09:19	B0H0658	CS2 1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0680

Client Sample ID: MW-3
Report Date: 05/07/2021
Collection Date: 08/20/2020 14:00
Matrix: Soil
Lab ID: 20H0680-03

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF		
		Limit										
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3546												
Aroclor 1016	< 0.150	0.200			mg/Kg wet	0.0467	08/26/20 09:32	B0H0658	CS2	1		
Aroclor 1221	< 0.300	0.500			mg/Kg wet	0.132	08/26/20 09:32	B0H0658	CS2	1		
Aroclor 1232	< 0.0999	0.200			mg/Kg wet	0.0402	08/26/20 09:32	B0H0658	CS2	1		
Aroclor 1242	< 0.0999	0.200			mg/Kg wet	0.0378	08/26/20 09:32	B0H0658	CS2	1		
Aroclor 1248	< 0.0999	0.200			mg/Kg wet	0.0415	08/26/20 09:32	B0H0658	CS2	1		
Aroclor 1254	< 0.0999	0.200			mg/Kg wet	0.0420	08/26/20 09:32	B0H0658	CS2	1		
Aroclor 1260	< 0.150	0.200			mg/Kg wet	0.0516	08/26/20 09:32	B0H0658	CS2	1		
Total PCB	< 0.300	0.500			mg/Kg wet	0.132	08/26/20 09:32	B0H0658	CS2	1		
<i>Surrogate: Decachlorobiphenyl</i>					<i>Recovery: 64%</i>		<i>Limits: 10-127</i>		<i>08/26/20 09:32</i>	<i>B0H0658</i>	<i>CS2</i>	<i>1</i>
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					<i>Recovery: 60%</i>		<i>Limits: 11-119</i>		<i>08/26/20 09:32</i>	<i>B0H0658</i>	<i>CS2</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0680

Client Sample ID: MW-4
Report Date: 05/07/2021
Collection Date: 08/20/2020 10:55
Matrix: Soil
Lab ID: 20H0680-04

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit								
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3546										
Aroclor 1016	< 0.150	0.200			mg/Kg wet	0.0466	08/27/20 10:10	B0H0658	CS2	1
Aroclor 1221	< 0.299	0.499			mg/Kg wet	0.132	08/27/20 10:10	B0H0658	CS2	1
Aroclor 1232	< 0.0998	0.200			mg/Kg wet	0.0401	08/27/20 10:10	B0H0658	CS2	1
Aroclor 1242	< 0.0998	0.200			mg/Kg wet	0.0377	08/27/20 10:10	B0H0658	CS2	1
Aroclor 1248	0.815	0.200			mg/Kg wet	0.0414	08/27/20 10:10	B0H0658	CS2	1
Aroclor 1254	< 0.0998	0.200			mg/Kg wet	0.0419	08/27/20 10:10	B0H0658	CS2	1
Aroclor 1260	< 0.150	0.200			mg/Kg wet	0.0515	08/27/20 10:10	B0H0658	CS2	1
Total PCB	0.815	0.499			mg/Kg wet	0.132	08/27/20 10:10	B0H0658	CS2	1
<i>Surrogate: Decachlorobiphenyl</i>					<i>Recovery: 61%</i>	<i>Limits: 10-127</i>	<i>08/27/20 10:10</i>	<i>B0H0658</i>	<i>CS2</i>	<i>1</i>
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					<i>Recovery: 56%</i>	<i>Limits: 11-119</i>	<i>08/27/20 10:10</i>	<i>B0H0658</i>	<i>CS2</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0680

Client Sample ID: MW-7
Report Date: 05/07/2021
Collection Date: 08/20/2020 10:45
Matrix: Soil
Lab ID: 20H0680-05

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit								
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3546										
Aroclor 1016	< 0.150	0.200			mg/Kg wet	0.0467	08/26/20 10:06	B0H0658	CS2	1
Aroclor 1221	< 0.300	0.500			mg/Kg wet	0.132	08/26/20 10:06	B0H0658	CS2	1
Aroclor 1232	< 0.100	0.200			mg/Kg wet	0.0402	08/26/20 10:06	B0H0658	CS2	1
Aroclor 1242	< 0.100	0.200			mg/Kg wet	0.0378	08/26/20 10:06	B0H0658	CS2	1
Aroclor 1248	< 0.100	0.200			mg/Kg wet	0.0415	08/26/20 10:06	B0H0658	CS2	1
Aroclor 1254	< 0.100	0.200			mg/Kg wet	0.0420	08/26/20 10:06	B0H0658	CS2	1
Aroclor 1260	< 0.150	0.200			mg/Kg wet	0.0516	08/26/20 10:06	B0H0658	CS2	1
Total PCB	< 0.300	0.500			mg/Kg wet	0.132	08/26/20 10:06	B0H0658	CS2	1
<i>Surrogate: Decachlorobiphenyl</i>					Recovery: 63%		Limits: 10-127		08/26/20 10:06 B0H0658 CS2 1	
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					Recovery: 60%		Limits: 11-119		08/26/20 10:06 B0H0658 CS2 1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0680

Client Sample ID: MW-8
Report Date: 05/07/2021
Collection Date: 08/20/2020 15:35
Matrix: Soil
Lab ID: 20H0680-06

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF		
		Limit	Limit									
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3546												
Aroclor 1016	< 0.150	0.200			mg/Kg wet	0.0466	08/27/20 09:53	B0H0658	CS2	1		
Aroclor 1221	< 0.299	0.499			mg/Kg wet	0.132	08/27/20 09:53	B0H0658	CS2	1		
Aroclor 1232	< 0.0998	0.200			mg/Kg wet	0.0401	08/27/20 09:53	B0H0658	CS2	1		
Aroclor 1242	< 0.0998	0.200			mg/Kg wet	0.0377	08/27/20 09:53	B0H0658	CS2	1		
Aroclor 1248	< 0.0998	0.200			mg/Kg wet	0.0414	08/27/20 09:53	B0H0658	CS2	1		
Aroclor 1254	< 0.0998	0.200			mg/Kg wet	0.0419	08/27/20 09:53	B0H0658	CS2	1		
Aroclor 1260	< 0.150	0.200			mg/Kg wet	0.0515	08/27/20 09:53	B0H0658	CS2	1		
Total PCB	< 0.299	0.499			mg/Kg wet	0.132	08/27/20 09:53	B0H0658	CS2	1		
<i>Surrogate: Decachlorobiphenyl</i>					<i>Recovery: 61%</i>		<i>Limits: 10-127</i>		<i>08/27/20 09:53</i>	<i>B0H0658</i>	<i>CS2</i>	<i>1</i>
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					<i>Recovery: 61%</i>		<i>Limits: 11-119</i>		<i>08/27/20 09:53</i>	<i>B0H0658</i>	<i>CS2</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0680

Client Sample ID: MW-12
Report Date: 05/07/2021
Collection Date: 08/20/2020 14:10
Matrix: Soil
Lab ID: 20H0680-07

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit							
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3546										
Aroclor 1016	< 0.149	0.199			mg/Kg wet	0.0464	08/27/20 10:10	B0H0658	CS2	1
Aroclor 1221	< 0.298	0.497			mg/Kg wet	0.131	08/27/20 10:10	B0H0658	CS2	1
Aroclor 1232	< 0.0994	0.199			mg/Kg wet	0.0399	08/27/20 10:10	B0H0658	CS2	1
Aroclor 1242	< 0.0994	0.199			mg/Kg wet	0.0376	08/27/20 10:10	B0H0658	CS2	1
Aroclor 1248	< 0.0994	0.199			mg/Kg wet	0.0412	08/27/20 10:10	B0H0658	CS2	1
Aroclor 1254	< 0.0994	0.199			mg/Kg wet	0.0417	08/27/20 10:10	B0H0658	CS2	1
Aroclor 1260	< 0.149	0.199			mg/Kg wet	0.0513	08/27/20 10:10	B0H0658	CS2	1
Total PCB	< 0.298	0.497			mg/Kg wet	0.131	08/27/20 10:10	B0H0658	CS2	1
<i>Surrogate: Decachlorobiphenyl</i>					<i>Recovery: 58%</i>	<i>Limits: 10-127</i>	<i>08/27/20 10:10</i>	<i>B0H0658</i>	<i>CS2</i>	<i>1</i>
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					<i>Recovery: 59%</i>	<i>Limits: 11-119</i>	<i>08/27/20 10:10</i>	<i>B0H0658</i>	<i>CS2</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0680

Client Sample ID: MW-13
Report Date: 05/07/2021
Collection Date: 08/20/2020 12:40
Matrix: Soil
Lab ID: 20H0680-08

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF		
		Limit	Limit									
Polychlorinated Biphenyls (PCBs) by GC/ECD												
Method: SW8082A / SW3546												
Aroclor 1016	< 0.149	0.198			mg/Kg wet	0.0463	08/27/20 10:27	B0H0658	CS2	1		
Aroclor 1221	< 0.298	0.496			mg/Kg wet	0.131	08/27/20 10:27	B0H0658	CS2	1		
Aroclor 1232	< 0.0992	0.198			mg/Kg wet	0.0399	08/27/20 10:27	B0H0658	CS2	1		
Aroclor 1242	< 0.0992	0.198			mg/Kg wet	0.0375	08/27/20 10:27	B0H0658	CS2	1		
Aroclor 1248	< 0.0992	0.198			mg/Kg wet	0.0412	08/27/20 10:27	B0H0658	CS2	1		
Aroclor 1254	< 0.0992	0.198			mg/Kg wet	0.0417	08/27/20 10:27	B0H0658	CS2	1		
Aroclor 1260	< 0.149	0.198			mg/Kg wet	0.0512	08/27/20 10:27	B0H0658	CS2	1		
Total PCB	< 0.298	0.496			mg/Kg wet	0.131	08/27/20 10:27	B0H0658	CS2	1		
<i>Surrogate: Decachlorobiphenyl</i>					<i>Recovery: 65%</i>		<i>Limits: 10-127</i>		<i>08/27/20 10:27</i>	<i>B0H0658</i>	<i>CS2</i>	<i>1</i>
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene</i>					<i>Recovery: 65%</i>		<i>Limits: 11-119</i>		<i>08/27/20 10:27</i>	<i>B0H0658</i>	<i>CS2</i>	<i>1</i>

Dates Report

Client: Geosyntec Consultants

Report Date: 05/07/2021

Project: Milw Die Cast
CHW8271N

Work Order: 20H0680

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
20H0680-01	PZ-1	08/20/20	Soil	Polychlorinated Biphenyls by GC/ECD		08/24/20 13:30	08/27/20 09:36	B0H0658	S0H0372
				Polychlorinated Biphenyls by GC/ECD		08/24/20 13:30	08/27/20 09:01		
20H0680-02	PZ-2	08/20/20		Polychlorinated Biphenyls by GC/ECD		08/24/20 13:30	08/27/20 09:19		
20H0680-03	MW-3	08/20/20		Polychlorinated Biphenyls by GC/ECD		08/24/20 13:30	08/26/20 09:32		S0H0340
20H0680-04	MW-4	08/20/20		Polychlorinated Biphenyls by GC/ECD		08/24/20 13:30	08/27/20 10:10		S0H0372
20H0680-05	MW-7	08/20/20		Polychlorinated Biphenyls by GC/ECD		08/24/20 13:30	08/26/20 10:06		S0H0340
20H0680-06	MW-8	08/20/20		Polychlorinated Biphenyls by GC/ECD		08/24/20 13:30	08/27/20 09:53		S0H0372
20H0680-07	MW-12	08/20/20		Polychlorinated Biphenyls by GC/ECD		08/24/20 13:30	08/27/20 10:10		
20H0680-08	MW-13	08/20/20		Polychlorinated Biphenyls by GC/ECD		08/24/20 13:30	08/27/20 10:27		

Quality Control

Client: Geosyntec DoD
Project: Milw Die Cast
CHW8271N
Work Order: 20H0680

Report Date: 05/07/2021
Matrix: Solid

Polychlorinated Biphenyls (PCBs) by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	------	----

Batch: B0H0658 - SW3546

Blank (B0H0658-BLK1)

Prepared: 08/24/2020 13:30 Analyzed: 08/26/2020 08:41

Aroclor 1016	<0.0150	0.0199	mg/Kg wet								1
Aroclor 1221	<0.0299	0.0499	mg/Kg wet								1
Aroclor 1232	<0.00997	0.0199	mg/Kg wet								1
Aroclor 1242	<0.00997	0.0199	mg/Kg wet								1
Aroclor 1248	<0.00997	0.0199	mg/Kg wet								1
Aroclor 1254	<0.00997	0.0199	mg/Kg wet								1
Aroclor 1260	<0.0150	0.0199	mg/Kg wet								1
Total PCB	<0.0299	0.0499	mg/Kg wet								1
Surrogate: Decachlorobiphenyl	0.0162		mg/Kg wet	0.01994		81	10-127				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.0102		mg/Kg wet	0.01994		51	11-119				1

LCS (B0H0658-BS1)

Prepared: 08/24/2020 13:30 Analyzed: 08/26/2020 08:58

Aroclor 1016	0.324	0.199	mg/Kg wet	0.3973		82	70-130				1
Aroclor 1260	0.334	0.199	mg/Kg wet	0.3973		84	55-155				1
Surrogate: Decachlorobiphenyl	0.186		mg/Kg wet	0.1987		94	10-127				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.153		mg/Kg wet	0.1987		77	11-119				1

Matrix Spike (B0H0658-MS1)

Source: 20H0616-01

Prepared: 08/24/2020 13:30 Analyzed: 08/26/2020 09:49

Aroclor 1016	0.341	0.235	mg/Kg dry	0.4693	ND	73	35-128				1
Aroclor 1260	0.264	0.235	mg/Kg dry	0.4693	ND	56	14-142				1
Surrogate: Decachlorobiphenyl	0.151		mg/Kg dry	0.2346		64	10-127				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.147		mg/Kg dry	0.2346		63	11-119				1

Matrix Spike Dup (B0H0658-MSD1)

Source: 20H0616-01

Prepared: 08/24/2020 13:30 Analyzed: 08/26/2020 10:06

Aroclor 1016	0.324	0.234	mg/Kg dry	0.4677	ND	69	35-128	5	28		1
Aroclor 1260	0.283	0.234	mg/Kg dry	0.4677	ND	61	14-142	7	33		1
Surrogate: Decachlorobiphenyl	0.156		mg/Kg dry	0.2338		67	10-127				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.151		mg/Kg dry	0.2338		65	11-119				1

Certified Analyses included in this Report

Analyte	CAS #	Certifications
SW8082A in Solid		
Aroclor 1016	12674-11-2	AKDEC,WDNR,DoD,ILEPA
Aroclor 1016	12674-11-2	AKDEC,WDNR,DoD,ILEPA
Aroclor 1221	11104-28-2	AKDEC,WDNR,DoD,ILEPA
Aroclor 1221	11104-28-2	AKDEC,WDNR,DoD,ILEPA
Aroclor 1232	11141-16-5	AKDEC,WDNR,DoD,ILEPA
Aroclor 1232	11141-16-5	AKDEC,WDNR,DoD,ILEPA
Aroclor 1242	53469-21-9	AKDEC,WDNR,DoD,ILEPA
Aroclor 1242	53469-21-9	AKDEC,WDNR,DoD,ILEPA
Aroclor 1248	12672-29-6	AKDEC,WDNR,DoD,ILEPA
Aroclor 1248	12672-29-6	AKDEC,WDNR,DoD,ILEPA
Aroclor 1254	11097-69-1	AKDEC,WDNR,DoD,ILEPA
Aroclor 1254	11097-69-1	AKDEC,WDNR,DoD,ILEPA
Aroclor 1260	11096-82-5	AKDEC,WDNR,DoD,ILEPA
Aroclor 1260	11096-82-5	AKDEC,WDNR,DoD,ILEPA
Total PCB	1336-36-3	AKDEC,WDNR,DoD,ILEPA
Total PCB	1336-36-3	AKDEC,WDNR,DoD,ILEPA

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	17-011	05/31/2022
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L18-184-R1	03/31/2021
DoD	Department of Defense, Accredited by PJLA	L18-183-R3	03/31/2022
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	1002562020-3	07/27/2021
ISO	ISO/IEC 17025, Accredited by PJLA	L18-184-R1	03/31/2022
TX	Texas Commission of Environmental Quality	T104704554-20-5	10/31/2021
WA	Washington State Department of Ecology	C1057	01/05/2022
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2021

Qualifiers and Definitions

Item	Description
%Rec	Percent Recovery



ENVIRONMENTAL MONITORING TECHNOLOGIES

509 N. 3rd Avenue
Des Plaines, IL 60016



20H0680
PM: Nicole Ryan
Geosyntec DoD
Milw Die Cast

Chain of Custody Record

6666
7-967-6735
www.emt.com

TURNAROUND TIME:

- RUSH
 day turnaround
 ROUTINE

Due Date: _____ COC #: **237560**

Company: Geosyntec Consultants
 Address: 10600 North Port Washington Road
Suite 100
Megun, WI 53092
 Phone #: (262) 834-0228 Fax #: ()
 P.O. #: _____ Proj. #: CHW8271N
 Client Contact: Jeremiah Johnson
 Project ID / Location: MDC / M/I Waunakee, WI

Sample Type:
 1. Waste Water 4. Sludge 7. Groundwater (filtered)
 2. Drinking Water 5. Oil 8. Other
 3. Soil 6. Groundwater

Container Type:
 P - Plastic V - VOC Vial O - Other
 G - Glass B - Tedlar Bag

Preservative:
 1. None 4. NaOH 7. Zn Ace
 2. H2SO4 5. HCl 8. Other
 3. HNO3 6. MeOH

Analyses

EMT USE ONLY

EMT WORKORDER

20H0680

PCB

Sample I.D.	Sample Type	Container			Sampling					Preservation		EMT USE ONLY
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab	
PZ-1	3	90Z	G	1	CK	8/20/20	1100	/	/	1		X
PZ-2						8/18/20	1400	/	/			
MW-3						8/17/20	1400	2	/			
MW-4						8/18/20	1055	/	/			
MW-7						8/19/20	1045	/	/			
MW-8						8/20/20	1535	/	/			
MW-12						8/19/20	1410	/	/			
MW-13						8/19/20	1240	/	/			
		END 8/21/20										

Relinquished By: _____ Date: 8-21-2020

Codeyunkobg

Time: 1130

Received By: _____

N. Howard

Date: 08-21-20

Time: 1130

EMT USE ONLY

SAMPLE RECEIVED ON ICE

Client Code:

TEMPERATURE

Relinquished By: _____ Date: 08-21-20

N. Howard

Time: 1520

Received By: _____

N. Howard

Date: - -

Time: :

EMT Project I.D.

Relinquished By: _____ Date: - -

N. Howard

Time: :

Received For Lab By: _____

Aquiescha Cabawa

Date: 08-21-2020

Time: 15:20

Jar Lot No.

1.4

EMT SAMPLE RETURN POLICY ON BACK

SPECIAL INSTRUCTIONS:

Sample Receipt Checklist

Work Order: 20H0680

Printed: 8/21/2020 4:38:56PM

Client: Geosyntec DoD
Project: Milw Die Cast

Date Due: Friday, August 28, 2020

Received By: Agnieszka B. Zabawa
Logged In By: Agnieszka B. Zabawa

Date Received: 08/21/20 15:20
Date Logged In: 08/21/20 16:38

Sample Temperature at Receipt:	1.4°C
How were samples received?	EMT
Custody Seals Present	No
Custody Seals Intact	NA
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	No

Comments

ABZ

08/21/2020

Memorandum

Date: May 7, 2021
To: Jeremiah Johnson
From: Jennifer Pinion
CC: J. Caprio
Subject: Stage 2A Data Validation – Level II Data Deliverable – Environmental Monitoring and Technologies Work Order # 20H0680

SITE: Milwaukee Die Casting Company Site, Milwaukee, WI

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of eight soil samples, collected between August 17 and 20, 2020, during a Milwaukee Die Casting Company Site sampling event. The analyses were performed by Environmental Monitoring and Technologies (EMT), Inc, Des Plaines, Illinois. The samples were analyzed for the following tests:

- Polychlorinated Biphenyls (PCBs) by United States (US) Environmental Protection Agency (EPA) Methods 3546/8082A

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data are usable for supporting project objectives.

The data were reviewed based on the pertinent methods referenced by the data package, professional and technical judgment and the following documents:

- Updated Site Investigation Work Plan, Milwaukee Die Casting Company Site, 4132 North Holton Street, Milwaukee, Wisconsin, November 12, 2019
- US EPA National Functional Guidelines for Organic Superfund Methods Data Review, November 2020 (EPA 540-R-20-005)

The following samples were analyzed in the data set and validated at a Stage 2A level:

Laboratory IDs	Client IDs
20H0680-01	PZ-1
20H0680-02	PZ-2
20H0680-03	MW-3
20H0680-04	MW-4

Laboratory IDs	Client IDs
20H0680-05	MW-7
20H0680-06	MW-8
20H0680-07	MW-12
20H0680-08	MW-13

The samples were received at the laboratory at 1.4°C within the temperature criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

Incorrect error correction was observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correction, and initials and date of person making the correction.

The laboratory report was revised on 8/28/2021 to correct the sample collection times to match the chain of custody (COC). The laboratory report was revised again on 5/6/2021 to correct the client name to Geosyntec Consultants.

1.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs per US EPA Methods 3546/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The PCB data reported in this package are considered to be usable for supporting project objectives. The results are considered to be valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as

estimated) to the total number of analytical results requested on samples submitted for analysis, for the project is 100%.

1.2 Holding Times

The holding times for the PCB analysis of a solid sample are one year from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch B0H0658). PCBs were not detected in the method blank above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One batch MS/MSD pair was reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Surrogates

The surrogate recoveries were within the laboratory specified acceptance criteria.

1.7 Sensitivity

The samples were assessed to the MDLs; however, the non-detects were reported as not detected at the associated limit of detection (LOD). Elevated non-detect results were not reported.

1.8 Electronic Data Deliverable Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Analytical Report

Jeremiah Johnson
Geosyntec Consultants
10600 N. Port Washington Rd.
Mequon, WI 53092

August 28, 2020

Work Order: 20H0681

RE: Milw Die Cast
CHW8271N

Dear Jeremiah Johnson:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,



Tim Witrzek For Nicole Ryan
Federal Project Manager
847.967.6666
nryan@emt.com

Approved for release: 8/28/2020 1:58:06PM

Approved by,



Matthew Gregory
Technical Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Wisconsin Dept of Natural Resources, Cert No. 999888890

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Sample Summary

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PZ-1(6-8)	20H0681-01	Soil	08/21/20 09:40	08/21/20 15:20
PZ-2(6-8)	20H0681-02	Soil	08/21/20 12:50	08/21/20 15:20
MW-3 (8-10)	20H0681-03	Soil	08/21/20 13:55	08/21/20 15:20
MW-4 (8-10)	20H0681-04	Soil	08/21/20 10:50	08/21/20 15:20
MW-7 (8-9)	20H0681-05	Soil	08/21/20 10:40	08/21/20 15:20
MW-8 (2-4)	20H0681-06	Soil	08/21/20 15:25	08/21/20 15:20
MW-12 (6-8)	20H0681-07	Soil	08/21/20 14:05	08/21/20 15:20
MW-13 (10-12)	20H0681-08	Soil	08/21/20 12:35	08/21/20 15:20

Case Narrative

Client: Geosyntec Consultants

Date: 05/07/2021

Project: Milw Die Cast
CHW8271N

Work Order: 20H0681

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 20H0681

The samples were received on 08/21/20 15:20. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was:

<u>Cooler</u>	<u>Temp C°</u>
Default Cooler	1.4

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

GC-MS Volatiles

8260B VOC 5035 LOW

S0H0334-CCV1 recovery of Bromomethane was just below the control limit of 80.0% at 79.0%. The LCS and LCS duplicate samples prior to the analysis of the samples had acceptable recoveries at 83.0 and 88.0% respectively. Given the number of reported compounds, one outlier is within the marginal exceedance acceptance criteria and was followed by two acceptable standards.

Client Sample Results

Client: Geosyntec Consultants
Project: Milw Die Cast
CHW8271N
Work Order: 20H0681

Client Sample ID: PZ-1(6-8)
Report Date: 05/07/2021
Collection Date: 08/21/2020 09:40
Matrix: Soil
Lab ID: 20H0681-01

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	92.2	0.100		% (Percent)	0.0240	08/24/20 06:50	B0H0678	MKP	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5035										
1,1,1,2-Tetrachloroethane	< 0.446	0.893		ug/Kg dry	0.181	08/23/20 17:40	B0H0766	KS1	1	
1,1,1-Trichloroethane	< 0.446	0.893		ug/Kg dry	0.183	08/23/20 17:40	B0H0766	KS1	1	
1,1,2,2-Tetrachloroethane	< 0.446	0.893		ug/Kg dry	0.159	08/23/20 17:40	B0H0766	KS1	1	
1,1,2-Trichloroethane	< 0.446	0.893		ug/Kg dry	0.196	08/23/20 17:40	B0H0766	KS1	1	
1,1-Dichloroethane	< 0.893	1.79		ug/Kg dry	0.242	08/23/20 17:40	B0H0766	KS1	1	
1,1-Dichloroethene	< 0.446	2.00		ug/Kg dry	0.193	08/23/20 17:40	B0H0766	KS1	1	
1,1-Dichloropropene	< 0.893	1.79		ug/Kg dry	0.253	08/23/20 17:40	B0H0766	KS1	1	
1,2,3-Trichlorobenzene	< 1.79	3.57		ug/Kg dry	0.522	08/23/20 17:40	B0H0766	KS1	1	
1,2,3-Trichloropropane	< 0.893	1.79		ug/Kg dry	0.218	08/23/20 17:40	B0H0766	KS1	1	
1,2,4-Trichlorobenzene	< 1.79	3.57		ug/Kg dry	0.477	08/23/20 17:40	B0H0766	KS1	1	
1,2,4-Trimethylbenzene	< 1.79	3.57		ug/Kg dry	0.481	08/23/20 17:40	B0H0766	KS1	1	
1,2-Dibromo-3-chloropropane	< 1.79	3.57		ug/Kg dry	0.740	08/23/20 17:40	B0H0766	KS1	1	
1,2-Dibromoethane	< 0.446	0.893		ug/Kg dry	0.121	08/23/20 17:40	B0H0766	KS1	1	
1,2-Dichloroethane	< 0.446	0.893		ug/Kg dry	0.183	08/23/20 17:40	B0H0766	KS1	1	
1,2-Dichloropropane	< 0.446	0.893		ug/Kg dry	0.216	08/23/20 17:40	B0H0766	KS1	1	
1,3,5-Trimethylbenzene	< 0.893	1.79		ug/Kg dry	0.446	08/23/20 17:40	B0H0766	KS1	1	
1,3-Dichloropropane	< 0.446	0.893		ug/Kg dry	0.200	08/23/20 17:40	B0H0766	KS1	1	
2,2-Dichloropropane	< 0.446	0.893		ug/Kg dry	0.148	08/23/20 17:40	B0H0766	KS1	1	
2-Butanone	< 6.25	12.5		ug/Kg dry	3.04	08/23/20 17:40	B0H0766	KS1	1	
2-Chlorotoluene	< 0.893	1.79		ug/Kg dry	0.391	08/23/20 17:40	B0H0766	KS1	1	
2-Hexanone	< 6.25	12.5		ug/Kg dry	2.37	08/23/20 17:40	B0H0766	KS1	1	
4-Chlorotoluene	< 0.893	1.79		ug/Kg dry	0.391	08/23/20 17:40	B0H0766	KS1	1	
4-Isopropyltoluene	< 1.79	3.57		ug/Kg dry	0.523	08/23/20 17:40	B0H0766	KS1	1	
4-Methyl-2-pentanone	< 6.25	12.5		ug/Kg dry	1.82	08/23/20 17:40	B0H0766	KS1	1	
Acetone	< 12.5	31.2		ug/Kg dry	5.40	08/23/20 17:40	B0H0766	KS1	1	
Benzene	< 0.446	0.893		ug/Kg dry	0.129	08/23/20 17:40	B0H0766	KS1	1	
Bromobenzene	< 0.893	1.79		ug/Kg dry	0.251	08/23/20 17:40	B0H0766	KS1	1	
Bromochloromethane	< 0.893	1.79		ug/Kg dry	0.313	08/23/20 17:40	B0H0766	KS1	1	
Bromodichloromethane	< 0.446	0.893		ug/Kg dry	0.215	08/23/20 17:40	B0H0766	KS1	1	
Bromoform	< 0.893	1.79		ug/Kg dry	0.281	08/23/20 17:40	B0H0766	KS1	1	
Bromomethane	< 3.57	8.93	Q	ug/Kg dry	1.07	08/23/20 17:40	B0H0766	KS1	1	
Carbon disulfide	< 0.893	1.79		ug/Kg dry	0.269	08/23/20 17:40	B0H0766	KS1	1	
Carbon tetrachloride	< 0.268	0.893		ug/Kg dry	0.101	08/23/20 17:40	B0H0766	KS1	1	
Chlorobenzene	< 0.446	0.893		ug/Kg dry	0.115	08/23/20 17:40	B0H0766	KS1	1	
Chloroethane	< 1.79	3.57		ug/Kg dry	0.631	08/23/20 17:40	B0H0766	KS1	1	
Chloroform	< 0.893	1.79		ug/Kg dry	0.326	08/23/20 17:40	B0H0766	KS1	1	
Chloromethane	< 1.79	3.57		ug/Kg dry	0.652	08/23/20 17:40	B0H0766	KS1	1	
cis-1,2-Dichloroethene	369	103		ug/Kg dry	13.1	08/26/20 17:33	B0H0831	WZZ	50	
cis-1,3-Dichloropropene	< 0.893	1.79		ug/Kg dry	0.309	08/23/20 17:40	B0H0766	KS1	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0681

Client Sample ID: PZ-1(6-8)
Report Date: 05/07/2021
Collection Date: 08/21/2020 09:40
Matrix: Soil
Lab ID: 20H0681-01 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5035 (Continued)										
Dibromochloromethane	< 0.446	0.893		ug/Kg dry	0.212	08/23/20 17:40	B0H0766	KS1	1	
Dibromomethane	< 0.446	0.893		ug/Kg dry	0.163	08/23/20 17:40	B0H0766	KS1	1	
Dichlorodifluoromethane	< 0.446	0.893		ug/Kg dry	0.165	08/23/20 17:40	B0H0766	KS1	1	
Ethylbenzene	< 1.79	3.57		ug/Kg dry	0.462	08/23/20 17:40	B0H0766	KS1	1	
Isopropylbenzene	< 0.893	1.79		ug/Kg dry	0.443	08/23/20 17:40	B0H0766	KS1	1	
m,p-Xylene	< 1.79	3.57		ug/Kg dry	0.722	08/23/20 17:40	B0H0766	KS1	1	
Methyl tert-butyl ether	< 0.446	0.893		ug/Kg dry	0.149	08/23/20 17:40	B0H0766	KS1	1	
Methylene chloride	< 1.79	3.57		ug/Kg dry	0.752	08/23/20 17:40	B0H0766	KS1	1	
n-Butylbenzene	< 0.893	1.79		ug/Kg dry	0.433	08/23/20 17:40	B0H0766	KS1	1	
n-Propylbenzene	< 0.893	1.79		ug/Kg dry	0.427	08/23/20 17:40	B0H0766	KS1	1	
o-Xylene	< 1.79	3.57		ug/Kg dry	0.456	08/23/20 17:40	B0H0766	KS1	1	
sec-Butylbenzene	< 0.893	1.79		ug/Kg dry	0.438	08/23/20 17:40	B0H0766	KS1	1	
Styrene	< 1.79	3.57		ug/Kg dry	0.490	08/23/20 17:40	B0H0766	KS1	1	
tert-Butylbenzene	< 1.79	3.57		ug/Kg dry	0.523	08/23/20 17:40	B0H0766	KS1	1	
Tetrachloroethene	5.13	1.79		ug/Kg dry	0.261	08/23/20 17:40	B0H0766	KS1	1	
Toluene	< 0.446	0.893		ug/Kg dry	0.161	08/23/20 17:40	B0H0766	KS1	1	
trans-1,2-Dichloroethene	< 0.893	1.79		ug/Kg dry	0.413	08/23/20 17:40	B0H0766	KS1	1	
trans-1,3-Dichloropropene	< 0.893	1.79		ug/Kg dry	0.365	08/23/20 17:40	B0H0766	KS1	1	
Trichloroethene	< 0.446	3.00		ug/Kg dry	0.217	08/23/20 17:40	B0H0766	KS1	1	
Trichlorofluoromethane	< 0.446	0.893		ug/Kg dry	0.185	08/23/20 17:40	B0H0766	KS1	1	
Vinyl chloride	16.4	1.79		ug/Kg dry	0.319	08/23/20 17:40	B0H0766	KS1	1	
Xylenes, Total	< 2.68	5.36		ug/Kg dry	1.14	08/23/20 17:40	B0H0766	KS1	1	
1,3-Dichloropropene, Total	< 1.79	3.57		ug/Kg dry	0.662	08/23/20 17:40	B0H0766	KS1	1	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 92%</i>	<i>Limits: 86-150</i>	<i>08/23/20 17:40</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 118%</i>	<i>Limits: 89-150</i>	<i>08/23/20 17:40</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 94%</i>	<i>Limits: 88-111</i>	<i>08/23/20 17:40</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 100%</i>	<i>Limits: 66-113</i>	<i>08/23/20 17:40</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 111%</i>	<i>Limits: 82-137</i>	<i>08/23/20 17:40</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 109%</i>	<i>Limits: 77-142</i>	<i>08/23/20 17:40</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0681

Client Sample ID: PZ-2(6-8)
Report Date: 05/07/2021
Collection Date: 08/21/2020 12:50
Matrix: Soil
Lab ID: 20H0681-02

Analyses	Result	EMT		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Reporting Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	91.8	0.100		% (Percent)	0.0240	08/24/20 06:52	B0H0678	MKP	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5035										
1,1,1,2-Tetrachloroethane	< 0.610	1.22		ug/Kg dry	0.247	08/23/20 18:05	B0H0766	KS1	1	
1,1,1-Trichloroethane	< 0.610	1.22		ug/Kg dry	0.250	08/23/20 18:05	B0H0766	KS1	1	
1,1,2,2-Tetrachloroethane	< 0.610	1.22		ug/Kg dry	0.217	08/23/20 18:05	B0H0766	KS1	1	
1,1,2-Trichloroethane	< 0.610	1.22		ug/Kg dry	0.268	08/23/20 18:05	B0H0766	KS1	1	
1,1-Dichloroethane	< 1.22	2.44		ug/Kg dry	0.331	08/23/20 18:05	B0H0766	KS1	1	
1,1-Dichloroethene	< 0.610	1.22		ug/Kg dry	0.265	08/23/20 18:05	B0H0766	KS1	1	
1,1-Dichloropropene	< 1.22	2.44		ug/Kg dry	0.346	08/23/20 18:05	B0H0766	KS1	1	
1,2,3-Trichlorobenzene	< 2.44	4.88		ug/Kg dry	0.714	08/23/20 18:05	B0H0766	KS1	1	
1,2,3-Trichloropropane	< 1.22	2.44		ug/Kg dry	0.299	08/23/20 18:05	B0H0766	KS1	1	
1,2,4-Trichlorobenzene	< 2.44	4.88		ug/Kg dry	0.653	08/23/20 18:05	B0H0766	KS1	1	
1,2,4-Trimethylbenzene	< 2.44	4.88		ug/Kg dry	0.657	08/23/20 18:05	B0H0766	KS1	1	
1,2-Dibromo-3-chloropropane	< 2.44	4.88		ug/Kg dry	1.01	08/23/20 18:05	B0H0766	KS1	1	
1,2-Dibromoethane	< 0.610	1.22		ug/Kg dry	0.166	08/23/20 18:05	B0H0766	KS1	1	
1,2-Dichloroethane	< 0.610	1.22		ug/Kg dry	0.251	08/23/20 18:05	B0H0766	KS1	1	
1,2-Dichloropropane	< 0.610	1.22		ug/Kg dry	0.295	08/23/20 18:05	B0H0766	KS1	1	
1,3,5-Trimethylbenzene	< 1.22	2.44		ug/Kg dry	0.610	08/23/20 18:05	B0H0766	KS1	1	
1,3-Dichloropropane	< 0.610	1.22		ug/Kg dry	0.273	08/23/20 18:05	B0H0766	KS1	1	
2,2-Dichloropropane	< 0.610	1.22		ug/Kg dry	0.202	08/23/20 18:05	B0H0766	KS1	1	
2-Butanone	< 8.54	17.1		ug/Kg dry	4.16	08/23/20 18:05	B0H0766	KS1	1	
2-Chlorotoluene	< 1.22	2.44		ug/Kg dry	0.535	08/23/20 18:05	B0H0766	KS1	1	
2-Hexanone	< 8.54	17.1		ug/Kg dry	3.24	08/23/20 18:05	B0H0766	KS1	1	
4-Chlorotoluene	< 1.22	2.44		ug/Kg dry	0.535	08/23/20 18:05	B0H0766	KS1	1	
4-Isopropyltoluene	< 2.44	4.88		ug/Kg dry	0.715	08/23/20 18:05	B0H0766	KS1	1	
4-Methyl-2-pentanone	< 8.54	17.1		ug/Kg dry	2.49	08/23/20 18:05	B0H0766	KS1	1	
Acetone	< 17.1	42.7		ug/Kg dry	7.38	08/23/20 18:05	B0H0766	KS1	1	
Benzene	< 0.610	1.22		ug/Kg dry	0.176	08/23/20 18:05	B0H0766	KS1	1	
Bromobenzene	< 1.22	2.44		ug/Kg dry	0.343	08/23/20 18:05	B0H0766	KS1	1	
Bromochloromethane	< 1.22	2.44		ug/Kg dry	0.428	08/23/20 18:05	B0H0766	KS1	1	
Bromodichloromethane	< 0.610	1.22		ug/Kg dry	0.294	08/23/20 18:05	B0H0766	KS1	1	
Bromoform	< 1.22	2.44		ug/Kg dry	0.384	08/23/20 18:05	B0H0766	KS1	1	
Bromomethane	< 4.88	12.2	Q	ug/Kg dry	1.47	08/23/20 18:05	B0H0766	KS1	1	
Carbon disulfide	< 1.22	2.44		ug/Kg dry	0.367	08/23/20 18:05	B0H0766	KS1	1	
Carbon tetrachloride	< 0.366	1.22		ug/Kg dry	0.138	08/23/20 18:05	B0H0766	KS1	1	
Chlorobenzene	< 0.610	1.22		ug/Kg dry	0.158	08/23/20 18:05	B0H0766	KS1	1	
Chloroethane	< 2.44	4.88		ug/Kg dry	0.863	08/23/20 18:05	B0H0766	KS1	1	
Chloroform	< 1.22	2.44		ug/Kg dry	0.446	08/23/20 18:05	B0H0766	KS1	1	
Chloromethane	< 2.44	4.88		ug/Kg dry	0.891	08/23/20 18:05	B0H0766	KS1	1	
cis-1,2-Dichloroethene	< 1.22	5.00		ug/Kg dry	0.348	08/23/20 18:05	B0H0766	KS1	1	
cis-1,3-Dichloropropene	< 1.22	2.44		ug/Kg dry	0.422	08/23/20 18:05	B0H0766	KS1	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0681

Client Sample ID: PZ-2(6-8)
Report Date: 05/07/2021
Collection Date: 08/21/2020 12:50
Matrix: Soil
Lab ID: 20H0681-02 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5035 (Continued)										
Dibromochloromethane	< 0.610	1.22		ug/Kg dry	0.290	08/23/20 18:05	B0H0766	KS1	1	
Dibromomethane	< 0.610	1.22		ug/Kg dry	0.223	08/23/20 18:05	B0H0766	KS1	1	
Dichlorodifluoromethane	< 0.610	1.22		ug/Kg dry	0.226	08/23/20 18:05	B0H0766	KS1	1	
Ethylbenzene	< 2.44	4.88		ug/Kg dry	0.631	08/23/20 18:05	B0H0766	KS1	1	
Isopropylbenzene	< 1.22	2.44		ug/Kg dry	0.606	08/23/20 18:05	B0H0766	KS1	1	
m,p-Xylene	< 2.44	4.88		ug/Kg dry	0.987	08/23/20 18:05	B0H0766	KS1	1	
Methyl tert-butyl ether	< 0.610	1.22		ug/Kg dry	0.204	08/23/20 18:05	B0H0766	KS1	1	
Methylene chloride	< 2.44	4.88		ug/Kg dry	1.03	08/23/20 18:05	B0H0766	KS1	1	
n-Butylbenzene	< 1.22	2.44		ug/Kg dry	0.592	08/23/20 18:05	B0H0766	KS1	1	
n-Propylbenzene	< 1.22	2.44		ug/Kg dry	0.584	08/23/20 18:05	B0H0766	KS1	1	
o-Xylene	< 2.44	4.88		ug/Kg dry	0.623	08/23/20 18:05	B0H0766	KS1	1	
sec-Butylbenzene	< 1.22	2.44		ug/Kg dry	0.599	08/23/20 18:05	B0H0766	KS1	1	
Styrene	< 2.44	4.88		ug/Kg dry	0.670	08/23/20 18:05	B0H0766	KS1	1	
tert-Butylbenzene	< 2.44	4.88		ug/Kg dry	0.715	08/23/20 18:05	B0H0766	KS1	1	
Tetrachloroethene	< 1.22	2.44		ug/Kg dry	0.357	08/23/20 18:05	B0H0766	KS1	1	
Toluene	< 0.610	1.22		ug/Kg dry	0.221	08/23/20 18:05	B0H0766	KS1	1	
trans-1,2-Dichloroethene	< 1.22	2.44		ug/Kg dry	0.565	08/23/20 18:05	B0H0766	KS1	1	
trans-1,3-Dichloropropene	< 1.22	2.44		ug/Kg dry	0.499	08/23/20 18:05	B0H0766	KS1	1	
Trichloroethene	< 0.610	1.22		ug/Kg dry	0.296	08/23/20 18:05	B0H0766	KS1	1	
Trichlorofluoromethane	< 0.610	1.22		ug/Kg dry	0.253	08/23/20 18:05	B0H0766	KS1	1	
Vinyl chloride	9.20	2.44		ug/Kg dry	0.436	08/23/20 18:05	B0H0766	KS1	1	
Xylenes, Total	< 3.66	7.32		ug/Kg dry	1.56	08/23/20 18:05	B0H0766	KS1	1	
1,3-Dichloropropene, Total	< 2.44	4.88		ug/Kg dry	0.905	08/23/20 18:05	B0H0766	KS1	1	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 90%</i>	<i>Limits: 86-150</i>	<i>08/23/20 18:05</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 116%</i>	<i>Limits: 89-150</i>	<i>08/23/20 18:05</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 97%</i>	<i>Limits: 88-111</i>	<i>08/23/20 18:05</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 96%</i>	<i>Limits: 66-113</i>	<i>08/23/20 18:05</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 96%</i>	<i>Limits: 82-137</i>	<i>08/23/20 18:05</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 106%</i>	<i>Limits: 77-142</i>	<i>08/23/20 18:05</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
CHW8271N
Work Order: 20H0681

Client Sample ID: MW-3 (8-10)
Report Date: 05/07/2021
Collection Date: 08/21/2020 13:55
Matrix: Soil
Lab ID: 20H0681-03

Analyses	Result	EMT		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Reporting Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	92.0	0.100		% (Percent)	0.0240	08/24/20 06:54	B0H0678	MKP	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5035										
1,1,1,2-Tetrachloroethane	< 0.548	1.10		ug/Kg dry	0.222	08/23/20 18:30	B0H0766	KS1	1	
1,1,1-Trichloroethane	< 0.548	1.10		ug/Kg dry	0.224	08/23/20 18:30	B0H0766	KS1	1	
1,1,2,2-Tetrachloroethane	< 0.548	1.10		ug/Kg dry	0.195	08/23/20 18:30	B0H0766	KS1	1	
1,1,2-Trichloroethane	< 0.548	1.10		ug/Kg dry	0.240	08/23/20 18:30	B0H0766	KS1	1	
1,1-Dichloroethane	< 1.10	2.19		ug/Kg dry	0.297	08/23/20 18:30	B0H0766	KS1	1	
1,1-Dichloroethene	< 0.548	1.10		ug/Kg dry	0.238	08/23/20 18:30	B0H0766	KS1	1	
1,1-Dichloropropene	< 1.10	2.19		ug/Kg dry	0.310	08/23/20 18:30	B0H0766	KS1	1	
1,2,3-Trichlorobenzene	< 2.19	4.38		ug/Kg dry	0.641	08/23/20 18:30	B0H0766	KS1	1	
1,2,3-Trichloropropane	< 1.10	2.19		ug/Kg dry	0.268	08/23/20 18:30	B0H0766	KS1	1	
1,2,4-Trichlorobenzene	< 2.19	4.38		ug/Kg dry	0.586	08/23/20 18:30	B0H0766	KS1	1	
1,2,4-Trimethylbenzene	< 2.19	4.38		ug/Kg dry	0.590	08/23/20 18:30	B0H0766	KS1	1	
1,2-Dibromo-3-chloropropane	< 2.19	4.38		ug/Kg dry	0.909	08/23/20 18:30	B0H0766	KS1	1	
1,2-Dibromoethane	< 0.548	1.10		ug/Kg dry	0.149	08/23/20 18:30	B0H0766	KS1	1	
1,2-Dichloroethane	< 0.548	1.10		ug/Kg dry	0.225	08/23/20 18:30	B0H0766	KS1	1	
1,2-Dichloropropane	< 0.548	1.10		ug/Kg dry	0.265	08/23/20 18:30	B0H0766	KS1	1	
1,3,5-Trimethylbenzene	< 1.10	2.19		ug/Kg dry	0.547	08/23/20 18:30	B0H0766	KS1	1	
1,3-Dichloropropane	< 0.548	1.10		ug/Kg dry	0.245	08/23/20 18:30	B0H0766	KS1	1	
2,2-Dichloropropane	< 0.548	1.10		ug/Kg dry	0.181	08/23/20 18:30	B0H0766	KS1	1	
2-Butanone	< 7.67	15.3		ug/Kg dry	3.73	08/23/20 18:30	B0H0766	KS1	1	
2-Chlorotoluene	< 1.10	2.19		ug/Kg dry	0.480	08/23/20 18:30	B0H0766	KS1	1	
2-Hexanone	< 7.67	15.3		ug/Kg dry	2.91	08/23/20 18:30	B0H0766	KS1	1	
4-Chlorotoluene	< 1.10	2.19		ug/Kg dry	0.480	08/23/20 18:30	B0H0766	KS1	1	
4-Isopropyltoluene	< 2.19	4.38		ug/Kg dry	0.642	08/23/20 18:30	B0H0766	KS1	1	
4-Methyl-2-pentanone	< 7.67	15.3		ug/Kg dry	2.23	08/23/20 18:30	B0H0766	KS1	1	
Acetone	< 15.3	38.4		ug/Kg dry	6.63	08/23/20 18:30	B0H0766	KS1	1	
Benzene	< 0.548	1.10		ug/Kg dry	0.158	08/23/20 18:30	B0H0766	KS1	1	
Bromobenzene	< 1.10	2.19		ug/Kg dry	0.308	08/23/20 18:30	B0H0766	KS1	1	
Bromochloromethane	< 1.10	2.19		ug/Kg dry	0.384	08/23/20 18:30	B0H0766	KS1	1	
Bromodichloromethane	< 0.548	1.10		ug/Kg dry	0.264	08/23/20 18:30	B0H0766	KS1	1	
Bromoform	< 1.10	2.19		ug/Kg dry	0.345	08/23/20 18:30	B0H0766	KS1	1	
Bromomethane	< 4.38	11.0	Q	ug/Kg dry	1.32	08/23/20 18:30	B0H0766	KS1	1	
Carbon disulfide	< 1.10	2.19		ug/Kg dry	0.330	08/23/20 18:30	B0H0766	KS1	1	
Carbon tetrachloride	< 0.329	1.10		ug/Kg dry	0.124	08/23/20 18:30	B0H0766	KS1	1	
Chlorobenzene	< 0.548	1.10		ug/Kg dry	0.142	08/23/20 18:30	B0H0766	KS1	1	
Chloroethane	< 2.19	4.38		ug/Kg dry	0.775	08/23/20 18:30	B0H0766	KS1	1	
Chloroform	< 1.10	2.19		ug/Kg dry	0.401	08/23/20 18:30	B0H0766	KS1	1	
Chloromethane	< 2.19	4.38		ug/Kg dry	0.800	08/23/20 18:30	B0H0766	KS1	1	
cis-1,2-Dichloroethene	< 1.10	2.19		ug/Kg dry	0.313	08/23/20 18:30	B0H0766	KS1	1	
cis-1,3-Dichloropropene	< 1.10	2.19		ug/Kg dry	0.379	08/23/20 18:30	B0H0766	KS1	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0681

Client Sample ID: MW-3 (8-10)
Report Date: 05/07/2021
Collection Date: 08/21/2020 13:55
Matrix: Soil
Lab ID: 20H0681-03 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5035 (Continued)										
Dibromochloromethane	< 0.548	1.10		ug/Kg dry	0.261	08/23/20 18:30	B0H0766	KS1	1	
Dibromomethane	< 0.548	1.10		ug/Kg dry	0.200	08/23/20 18:30	B0H0766	KS1	1	
Dichlorodifluoromethane	< 0.548	1.10		ug/Kg dry	0.202	08/23/20 18:30	B0H0766	KS1	1	
Ethylbenzene	< 2.19	4.38		ug/Kg dry	0.567	08/23/20 18:30	B0H0766	KS1	1	
Isopropylbenzene	< 1.10	2.19		ug/Kg dry	0.544	08/23/20 18:30	B0H0766	KS1	1	
m,p-Xylene	< 2.19	4.38		ug/Kg dry	0.886	08/23/20 18:30	B0H0766	KS1	1	
Methyl tert-butyl ether	< 0.548	1.10		ug/Kg dry	0.183	08/23/20 18:30	B0H0766	KS1	1	
Methylene chloride	< 2.19	4.38		ug/Kg dry	0.923	08/23/20 18:30	B0H0766	KS1	1	
n-Butylbenzene	< 1.10	2.19		ug/Kg dry	0.531	08/23/20 18:30	B0H0766	KS1	1	
n-Propylbenzene	< 1.10	2.19		ug/Kg dry	0.524	08/23/20 18:30	B0H0766	KS1	1	
o-Xylene	< 2.19	4.38		ug/Kg dry	0.560	08/23/20 18:30	B0H0766	KS1	1	
sec-Butylbenzene	< 1.10	2.19		ug/Kg dry	0.538	08/23/20 18:30	B0H0766	KS1	1	
Styrene	< 2.19	4.38		ug/Kg dry	0.601	08/23/20 18:30	B0H0766	KS1	1	
tert-Butylbenzene	< 2.19	4.38		ug/Kg dry	0.642	08/23/20 18:30	B0H0766	KS1	1	
Tetrachloroethene	< 1.10	2.19		ug/Kg dry	0.320	08/23/20 18:30	B0H0766	KS1	1	
Toluene	< 0.548	2.00		ug/Kg dry	0.198	08/23/20 18:30	B0H0766	KS1	1	
trans-1,2-Dichloroethene	< 1.10	2.19		ug/Kg dry	0.507	08/23/20 18:30	B0H0766	KS1	1	
trans-1,3-Dichloropropene	< 1.10	2.19		ug/Kg dry	0.448	08/23/20 18:30	B0H0766	KS1	1	
Trichloroethene	< 0.548	1.10		ug/Kg dry	0.266	08/23/20 18:30	B0H0766	KS1	1	
Trichlorofluoromethane	< 0.548	1.10		ug/Kg dry	0.227	08/23/20 18:30	B0H0766	KS1	1	
Vinyl chloride	< 1.10	2.19		ug/Kg dry	0.391	08/23/20 18:30	B0H0766	KS1	1	
Xylenes, Total	< 3.29	6.57		ug/Kg dry	1.40	08/23/20 18:30	B0H0766	KS1	1	
1,3-Dichloropropene, Total	< 2.19	4.38		ug/Kg dry	0.812	08/23/20 18:30	B0H0766	KS1	1	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 86%</i>	<i>Limits: 86-150</i>	<i>08/23/20 18:30</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 112%</i>	<i>Limits: 89-150</i>	<i>08/23/20 18:30</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 99%</i>	<i>Limits: 88-111</i>	<i>08/23/20 18:30</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 99%</i>	<i>Limits: 66-113</i>	<i>08/23/20 18:30</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 109%</i>	<i>Limits: 82-137</i>	<i>08/23/20 18:30</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 106%</i>	<i>Limits: 77-142</i>	<i>08/23/20 18:30</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
CHW8271N
Work Order: 20H0681

Client Sample ID: MW-4 (8-10)
Report Date: 05/07/2021
Collection Date: 08/21/2020 10:50
Matrix: Soil
Lab ID: 20H0681-04

Analyses	Result	EMT		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Reporting Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	90.8	0.100		% (Percent)	0.0240	08/24/20 06:56	B0H0678	MKP	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5035										
1,1,1,2-Tetrachloroethane	< 0.455	0.911		ug/Kg dry	0.184	08/23/20 18:54	B0H0766	KS1	1	
1,1,1-Trichloroethane	337	68.1		ug/Kg dry	11.6	08/23/20 22:35	B0H0786	KS1	50	
1,1,2,2-Tetrachloroethane	< 0.455	0.911		ug/Kg dry	0.162	08/23/20 18:54	B0H0766	KS1	1	
1,1,2-Trichloroethane	< 0.455	0.911		ug/Kg dry	0.200	08/23/20 18:54	B0H0766	KS1	1	
1,1-Dichloroethane	< 0.911	1.82		ug/Kg dry	0.247	08/23/20 18:54	B0H0766	KS1	1	
1,1-Dichloroethene	< 0.455	2.00		ug/Kg dry	0.197	08/23/20 18:54	B0H0766	KS1	1	
1,1-Dichloropropene	< 0.911	1.82		ug/Kg dry	0.258	08/23/20 18:54	B0H0766	KS1	1	
1,2,3-Trichlorobenzene	< 1.82	3.64		ug/Kg dry	0.533	08/23/20 18:54	B0H0766	KS1	1	
1,2,3-Trichloropropane	< 0.911	1.82		ug/Kg dry	0.223	08/23/20 18:54	B0H0766	KS1	1	
1,2,4-Trichlorobenzene	< 1.82	3.64		ug/Kg dry	0.487	08/23/20 18:54	B0H0766	KS1	1	
1,2,4-Trimethylbenzene	< 1.82	3.64		ug/Kg dry	0.490	08/23/20 18:54	B0H0766	KS1	1	
1,2-Dibromo-3-chloropropane	< 1.82	3.64		ug/Kg dry	0.755	08/23/20 18:54	B0H0766	KS1	1	
1,2-Dibromoethane	< 0.455	0.911		ug/Kg dry	0.124	08/23/20 18:54	B0H0766	KS1	1	
1,2-Dichloroethane	< 0.455	0.911		ug/Kg dry	0.187	08/23/20 18:54	B0H0766	KS1	1	
1,2-Dichloropropane	< 0.455	0.911		ug/Kg dry	0.220	08/23/20 18:54	B0H0766	KS1	1	
1,3,5-Trimethylbenzene	< 0.911	1.82		ug/Kg dry	0.455	08/23/20 18:54	B0H0766	KS1	1	
1,3-Dichloropropane	< 0.455	0.911		ug/Kg dry	0.204	08/23/20 18:54	B0H0766	KS1	1	
2,2-Dichloropropane	< 0.455	0.911		ug/Kg dry	0.151	08/23/20 18:54	B0H0766	KS1	1	
2-Butanone	< 6.37	12.7		ug/Kg dry	3.10	08/23/20 18:54	B0H0766	KS1	1	
2-Chlorotoluene	< 0.911	1.82		ug/Kg dry	0.399	08/23/20 18:54	B0H0766	KS1	1	
2-Hexanone	< 6.37	12.7		ug/Kg dry	2.42	08/23/20 18:54	B0H0766	KS1	1	
4-Chlorotoluene	< 0.911	1.82		ug/Kg dry	0.399	08/23/20 18:54	B0H0766	KS1	1	
4-Isopropyltoluene	< 1.82	3.64		ug/Kg dry	0.533	08/23/20 18:54	B0H0766	KS1	1	
4-Methyl-2-pentanone	< 6.37	12.7		ug/Kg dry	1.86	08/23/20 18:54	B0H0766	KS1	1	
Acetone	< 12.7	31.9		ug/Kg dry	5.51	08/23/20 18:54	B0H0766	KS1	1	
Benzene	< 0.455	0.911		ug/Kg dry	0.131	08/23/20 18:54	B0H0766	KS1	1	
Bromobenzene	< 0.911	1.82		ug/Kg dry	0.256	08/23/20 18:54	B0H0766	KS1	1	
Bromochloromethane	< 0.911	1.82		ug/Kg dry	0.319	08/23/20 18:54	B0H0766	KS1	1	
Bromodichloromethane	< 0.455	0.911		ug/Kg dry	0.219	08/23/20 18:54	B0H0766	KS1	1	
Bromoform	< 0.911	1.82		ug/Kg dry	0.287	08/23/20 18:54	B0H0766	KS1	1	
Bromomethane	< 3.64	9.11	Q	ug/Kg dry	1.09	08/23/20 18:54	B0H0766	KS1	1	
Carbon disulfide	< 0.911	1.82		ug/Kg dry	0.274	08/23/20 18:54	B0H0766	KS1	1	
Carbon tetrachloride	< 0.273	0.911		ug/Kg dry	0.103	08/23/20 18:54	B0H0766	KS1	1	
Chlorobenzene	< 0.455	0.911		ug/Kg dry	0.118	08/23/20 18:54	B0H0766	KS1	1	
Chloroethane	< 1.82	3.64		ug/Kg dry	0.644	08/23/20 18:54	B0H0766	KS1	1	
Chloroform	< 0.911	1.82		ug/Kg dry	0.333	08/23/20 18:54	B0H0766	KS1	1	
Chloromethane	< 1.82	3.64		ug/Kg dry	0.665	08/23/20 18:54	B0H0766	KS1	1	
cis-1,2-Dichloroethene	23.8	1.82		ug/Kg dry	0.260	08/23/20 18:54	B0H0766	KS1	1	
cis-1,3-Dichloropropene	< 0.911	1.82		ug/Kg dry	0.315	08/23/20 18:54	B0H0766	KS1	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0681

Client Sample ID: MW-4 (8-10)
Report Date: 05/07/2021
Collection Date: 08/21/2020 10:50
Matrix: Soil
Lab ID: 20H0681-04 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5035 (Continued)										
Dibromochloromethane	< 0.455	0.911		ug/Kg dry	0.217	08/23/20 18:54	B0H0766	KS1	1	
Dibromomethane	< 0.455	0.911		ug/Kg dry	0.167	08/23/20 18:54	B0H0766	KS1	1	
Dichlorodifluoromethane	< 0.455	0.911		ug/Kg dry	0.168	08/23/20 18:54	B0H0766	KS1	1	
Ethylbenzene	< 1.82	3.64		ug/Kg dry	0.471	08/23/20 18:54	B0H0766	KS1	1	
Isopropylbenzene	< 0.911	1.82		ug/Kg dry	0.452	08/23/20 18:54	B0H0766	KS1	1	
m,p-Xylene	< 1.82	3.64		ug/Kg dry	0.737	08/23/20 18:54	B0H0766	KS1	1	
Methyl tert-butyl ether	< 0.455	0.911		ug/Kg dry	0.152	08/23/20 18:54	B0H0766	KS1	1	
Methylene chloride	< 1.82	3.64		ug/Kg dry	0.767	08/23/20 18:54	B0H0766	KS1	1	
n-Butylbenzene	< 0.911	1.82		ug/Kg dry	0.442	08/23/20 18:54	B0H0766	KS1	1	
n-Propylbenzene	< 0.911	1.82		ug/Kg dry	0.436	08/23/20 18:54	B0H0766	KS1	1	
o-Xylene	< 1.82	3.64		ug/Kg dry	0.465	08/23/20 18:54	B0H0766	KS1	1	
sec-Butylbenzene	< 0.911	1.82		ug/Kg dry	0.447	08/23/20 18:54	B0H0766	KS1	1	
Styrene	< 1.82	3.64		ug/Kg dry	0.500	08/23/20 18:54	B0H0766	KS1	1	
tert-Butylbenzene	< 1.82	3.64		ug/Kg dry	0.534	08/23/20 18:54	B0H0766	KS1	1	
Tetrachloroethene	4.11	1.82		ug/Kg dry	0.266	08/23/20 18:54	B0H0766	KS1	1	
Toluene	< 0.455	2.00		ug/Kg dry	0.165	08/23/20 18:54	B0H0766	KS1	1	
trans-1,2-Dichloroethene	< 0.911	1.82		ug/Kg dry	0.421	08/23/20 18:54	B0H0766	KS1	1	
trans-1,3-Dichloropropene	< 0.911	1.82		ug/Kg dry	0.373	08/23/20 18:54	B0H0766	KS1	1	
Trichloroethene	241	68.1		ug/Kg dry	9.64	08/23/20 22:35	B0H0786	KS1	50	
Trichlorofluoromethane	< 0.455	0.911		ug/Kg dry	0.189	08/23/20 18:54	B0H0766	KS1	1	
Vinyl chloride	< 0.911	1.82		ug/Kg dry	0.325	08/23/20 18:54	B0H0766	KS1	1	
Xylenes, Total	< 2.73	5.46		ug/Kg dry	1.17	08/23/20 18:54	B0H0766	KS1	1	
1,3-Dichloropropene, Total	< 1.82	3.64		ug/Kg dry	0.675	08/23/20 18:54	B0H0766	KS1	1	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 93%</i>	<i>Limits: 86-150</i>	<i>08/23/20 18:54</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 121%</i>	<i>Limits: 89-150</i>	<i>08/23/20 18:54</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 98%</i>	<i>Limits: 88-111</i>	<i>08/23/20 18:54</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 96%</i>	<i>Limits: 66-113</i>	<i>08/23/20 18:54</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 100%</i>	<i>Limits: 82-137</i>	<i>08/23/20 18:54</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 104%</i>	<i>Limits: 77-142</i>	<i>08/23/20 18:54</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
CHW8271N
Work Order: 20H0681

Client Sample ID: MW-7 (8-9)
Report Date: 05/07/2021
Collection Date: 08/21/2020 10:40
Matrix: Soil
Lab ID: 20H0681-05

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	83.8	0.100		% (Percent)	0.0240	08/24/20 06:58	B0H0678	MKP	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5035										
1,1,1,2-Tetrachloroethane	< 0.439	0.878		ug/Kg dry	0.178	08/23/20 19:19	B0H0766	KS1	1	
1,1,1-Trichloroethane	< 0.439	0.878		ug/Kg dry	0.180	08/23/20 19:19	B0H0766	KS1	1	
1,1,2,2-Tetrachloroethane	< 0.439	0.878		ug/Kg dry	0.156	08/23/20 19:19	B0H0766	KS1	1	
1,1,2-Trichloroethane	< 0.439	0.878		ug/Kg dry	0.193	08/23/20 19:19	B0H0766	KS1	1	
1,1-Dichloroethane	< 0.878	1.76		ug/Kg dry	0.238	08/23/20 19:19	B0H0766	KS1	1	
1,1-Dichloroethene	< 0.439	0.878		ug/Kg dry	0.190	08/23/20 19:19	B0H0766	KS1	1	
1,1-Dichloropropene	< 0.878	1.76		ug/Kg dry	0.249	08/23/20 19:19	B0H0766	KS1	1	
1,2,3-Trichlorobenzene	< 1.76	3.51		ug/Kg dry	0.514	08/23/20 19:19	B0H0766	KS1	1	
1,2,3-Trichloropropane	< 0.878	1.76		ug/Kg dry	0.215	08/23/20 19:19	B0H0766	KS1	1	
1,2,4-Trichlorobenzene	< 1.76	3.51		ug/Kg dry	0.470	08/23/20 19:19	B0H0766	KS1	1	
1,2,4-Trimethylbenzene	< 1.76	3.51		ug/Kg dry	0.473	08/23/20 19:19	B0H0766	KS1	1	
1,2-Dibromo-3-chloropropane	< 1.76	3.51		ug/Kg dry	0.728	08/23/20 19:19	B0H0766	KS1	1	
1,2-Dibromoethane	< 0.439	0.878		ug/Kg dry	0.119	08/23/20 19:19	B0H0766	KS1	1	
1,2-Dichloroethane	< 0.439	0.878		ug/Kg dry	0.180	08/23/20 19:19	B0H0766	KS1	1	
1,2-Dichloropropane	< 0.439	0.878		ug/Kg dry	0.212	08/23/20 19:19	B0H0766	KS1	1	
1,3,5-Trimethylbenzene	< 0.878	1.76		ug/Kg dry	0.438	08/23/20 19:19	B0H0766	KS1	1	
1,3-Dichloropropane	< 0.439	0.878		ug/Kg dry	0.196	08/23/20 19:19	B0H0766	KS1	1	
2,2-Dichloropropane	< 0.439	0.878		ug/Kg dry	0.145	08/23/20 19:19	B0H0766	KS1	1	
2-Butanone	< 6.14	12.3		ug/Kg dry	2.99	08/23/20 19:19	B0H0766	KS1	1	
2-Chlorotoluene	< 0.878	1.76		ug/Kg dry	0.385	08/23/20 19:19	B0H0766	KS1	1	
2-Hexanone	< 6.14	12.3		ug/Kg dry	2.33	08/23/20 19:19	B0H0766	KS1	1	
4-Chlorotoluene	< 0.878	1.76		ug/Kg dry	0.385	08/23/20 19:19	B0H0766	KS1	1	
4-Isopropyltoluene	< 1.76	3.51		ug/Kg dry	0.514	08/23/20 19:19	B0H0766	KS1	1	
4-Methyl-2-pentanone	< 6.14	12.3		ug/Kg dry	1.79	08/23/20 19:19	B0H0766	KS1	1	
Acetone	< 12.3	30.7		ug/Kg dry	5.31	08/23/20 19:19	B0H0766	KS1	1	
Benzene	< 0.439	0.878		ug/Kg dry	0.126	08/23/20 19:19	B0H0766	KS1	1	
Bromobenzene	< 0.878	1.76		ug/Kg dry	0.247	08/23/20 19:19	B0H0766	KS1	1	
Bromochloromethane	< 0.878	1.76		ug/Kg dry	0.308	08/23/20 19:19	B0H0766	KS1	1	
Bromodichloromethane	< 0.439	0.878		ug/Kg dry	0.211	08/23/20 19:19	B0H0766	KS1	1	
Bromoform	< 0.878	1.76		ug/Kg dry	0.276	08/23/20 19:19	B0H0766	KS1	1	
Bromomethane	< 3.51	8.78	Q	ug/Kg dry	1.05	08/23/20 19:19	B0H0766	KS1	1	
Carbon disulfide	< 0.878	1.76		ug/Kg dry	0.264	08/23/20 19:19	B0H0766	KS1	1	
Carbon tetrachloride	< 0.263	0.878		ug/Kg dry	0.0994	08/23/20 19:19	B0H0766	KS1	1	
Chlorobenzene	< 0.439	0.878		ug/Kg dry	0.114	08/23/20 19:19	B0H0766	KS1	1	
Chloroethane	< 1.76	3.51		ug/Kg dry	0.621	08/23/20 19:19	B0H0766	KS1	1	
Chloroform	< 0.878	1.76		ug/Kg dry	0.321	08/23/20 19:19	B0H0766	KS1	1	
Chloromethane	< 1.76	3.51		ug/Kg dry	0.641	08/23/20 19:19	B0H0766	KS1	1	
cis-1,2-Dichloroethene	< 0.878	1.76		ug/Kg dry	0.250	08/23/20 19:19	B0H0766	KS1	1	
cis-1,3-Dichloropropene	< 0.878	1.76		ug/Kg dry	0.304	08/23/20 19:19	B0H0766	KS1	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0681

Client Sample ID: MW-7 (8-9)
Report Date: 05/07/2021
Collection Date: 08/21/2020 10:40
Matrix: Soil
Lab ID: 20H0681-05 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5035 (Continued)										
Dibromochloromethane	< 0.439	0.878		ug/Kg dry	0.209	08/23/20 19:19	B0H0766	KS1	1	
Dibromomethane	< 0.439	0.878		ug/Kg dry	0.161	08/23/20 19:19	B0H0766	KS1	1	
Dichlorodifluoromethane	< 0.439	0.878		ug/Kg dry	0.162	08/23/20 19:19	B0H0766	KS1	1	
Ethylbenzene	< 1.76	3.51		ug/Kg dry	0.454	08/23/20 19:19	B0H0766	KS1	1	
Isopropylbenzene	< 0.878	1.76		ug/Kg dry	0.436	08/23/20 19:19	B0H0766	KS1	1	
m,p-Xylene	< 1.76	3.51		ug/Kg dry	0.710	08/23/20 19:19	B0H0766	KS1	1	
Methyl tert-butyl ether	< 0.439	0.878		ug/Kg dry	0.147	08/23/20 19:19	B0H0766	KS1	1	
Methylene chloride	< 1.76	3.51		ug/Kg dry	0.739	08/23/20 19:19	B0H0766	KS1	1	
n-Butylbenzene	< 0.878	1.76		ug/Kg dry	0.426	08/23/20 19:19	B0H0766	KS1	1	
n-Propylbenzene	< 0.878	1.76		ug/Kg dry	0.420	08/23/20 19:19	B0H0766	KS1	1	
o-Xylene	< 1.76	3.51		ug/Kg dry	0.448	08/23/20 19:19	B0H0766	KS1	1	
sec-Butylbenzene	< 0.878	1.76		ug/Kg dry	0.431	08/23/20 19:19	B0H0766	KS1	1	
Styrene	< 1.76	3.51		ug/Kg dry	0.482	08/23/20 19:19	B0H0766	KS1	1	
tert-Butylbenzene	< 1.76	3.51		ug/Kg dry	0.514	08/23/20 19:19	B0H0766	KS1	1	
Tetrachloroethene	< 0.878	1.76		ug/Kg dry	0.256	08/23/20 19:19	B0H0766	KS1	1	
Toluene	< 0.439	0.878		ug/Kg dry	0.159	08/23/20 19:19	B0H0766	KS1	1	
trans-1,2-Dichloroethene	< 0.878	1.76		ug/Kg dry	0.406	08/23/20 19:19	B0H0766	KS1	1	
trans-1,3-Dichloropropene	< 0.878	1.76		ug/Kg dry	0.359	08/23/20 19:19	B0H0766	KS1	1	
Trichloroethene	< 0.439	0.878		ug/Kg dry	0.213	08/23/20 19:19	B0H0766	KS1	1	
Trichlorofluoromethane	< 0.439	0.878		ug/Kg dry	0.182	08/23/20 19:19	B0H0766	KS1	1	
Vinyl chloride	< 0.878	1.76		ug/Kg dry	0.314	08/23/20 19:19	B0H0766	KS1	1	
Xylenes, Total	< 2.63	5.27		ug/Kg dry	1.12	08/23/20 19:19	B0H0766	KS1	1	
1,3-Dichloropropene, Total	< 1.76	3.51		ug/Kg dry	0.651	08/23/20 19:19	B0H0766	KS1	1	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 91%</i>	<i>Limits: 86-150</i>	<i>08/23/20 19:19</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 117%</i>	<i>Limits: 89-150</i>	<i>08/23/20 19:19</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 98%</i>	<i>Limits: 88-111</i>	<i>08/23/20 19:19</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 97%</i>	<i>Limits: 66-113</i>	<i>08/23/20 19:19</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 105%</i>	<i>Limits: 82-137</i>	<i>08/23/20 19:19</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 108%</i>	<i>Limits: 77-142</i>	<i>08/23/20 19:19</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
CHW8271N
Work Order: 20H0681

Client Sample ID: MW-8 (2-4)
Report Date: 05/07/2021
Collection Date: 08/21/2020 15:25
Matrix: Soil
Lab ID: 20H0681-06

Analyses	Result	EMT		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Reporting Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	81.4	0.100		% (Percent)	0.0240	08/25/20 05:08	B0H0725	MKP	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5035										
1,1,1,2-Tetrachloroethane	< 0.531	1.06		ug/Kg dry	0.215	08/23/20 19:43	B0H0766	KS1	1	
1,1,1-Trichloroethane	< 0.531	1.06		ug/Kg dry	0.217	08/23/20 19:43	B0H0766	KS1	1	
1,1,2,2-Tetrachloroethane	< 0.531	1.06		ug/Kg dry	0.189	08/23/20 19:43	B0H0766	KS1	1	
1,1,2-Trichloroethane	< 0.531	1.06		ug/Kg dry	0.233	08/23/20 19:43	B0H0766	KS1	1	
1,1-Dichloroethane	< 1.06	2.12		ug/Kg dry	0.288	08/23/20 19:43	B0H0766	KS1	1	
1,1-Dichloroethene	< 0.531	1.06		ug/Kg dry	0.230	08/23/20 19:43	B0H0766	KS1	1	
1,1-Dichloropropene	< 1.06	2.12		ug/Kg dry	0.300	08/23/20 19:43	B0H0766	KS1	1	
1,2,3-Trichlorobenzene	< 2.12	4.25		ug/Kg dry	0.621	08/23/20 19:43	B0H0766	KS1	1	
1,2,3-Trichloropropane	< 1.06	2.12		ug/Kg dry	0.260	08/23/20 19:43	B0H0766	KS1	1	
1,2,4-Trichlorobenzene	< 2.12	4.25		ug/Kg dry	0.568	08/23/20 19:43	B0H0766	KS1	1	
1,2,4-Trimethylbenzene	< 2.12	4.25		ug/Kg dry	0.572	08/23/20 19:43	B0H0766	KS1	1	
1,2-Dibromo-3-chloropropane	< 2.12	4.25		ug/Kg dry	0.880	08/23/20 19:43	B0H0766	KS1	1	
1,2-Dibromoethane	< 0.531	1.06		ug/Kg dry	0.144	08/23/20 19:43	B0H0766	KS1	1	
1,2-Dichloroethane	< 0.531	1.06		ug/Kg dry	0.218	08/23/20 19:43	B0H0766	KS1	1	
1,2-Dichloropropane	< 0.531	1.06		ug/Kg dry	0.256	08/23/20 19:43	B0H0766	KS1	1	
1,3,5-Trimethylbenzene	< 1.06	2.12		ug/Kg dry	0.530	08/23/20 19:43	B0H0766	KS1	1	
1,3-Dichloropropane	< 0.531	1.06		ug/Kg dry	0.237	08/23/20 19:43	B0H0766	KS1	1	
2,2-Dichloropropane	< 0.531	1.06		ug/Kg dry	0.176	08/23/20 19:43	B0H0766	KS1	1	
2-Butanone	< 7.43	14.9		ug/Kg dry	3.61	08/23/20 19:43	B0H0766	KS1	1	
2-Chlorotoluene	< 1.06	2.12		ug/Kg dry	0.465	08/23/20 19:43	B0H0766	KS1	1	
2-Hexanone	< 7.43	14.9		ug/Kg dry	2.82	08/23/20 19:43	B0H0766	KS1	1	
4-Chlorotoluene	< 1.06	2.12		ug/Kg dry	0.465	08/23/20 19:43	B0H0766	KS1	1	
4-Isopropyltoluene	< 2.12	4.25		ug/Kg dry	0.622	08/23/20 19:43	B0H0766	KS1	1	
4-Methyl-2-pentanone	< 7.43	14.9		ug/Kg dry	2.16	08/23/20 19:43	B0H0766	KS1	1	
Acetone	< 14.9	37.1		ug/Kg dry	6.42	08/23/20 19:43	B0H0766	KS1	1	
Benzene	< 0.531	1.06		ug/Kg dry	0.153	08/23/20 19:43	B0H0766	KS1	1	
Bromobenzene	< 1.06	2.12		ug/Kg dry	0.298	08/23/20 19:43	B0H0766	KS1	1	
Bromochloromethane	< 1.06	2.12		ug/Kg dry	0.372	08/23/20 19:43	B0H0766	KS1	1	
Bromodichloromethane	< 0.531	1.06		ug/Kg dry	0.256	08/23/20 19:43	B0H0766	KS1	1	
Bromoform	< 1.06	2.12		ug/Kg dry	0.334	08/23/20 19:43	B0H0766	KS1	1	
Bromomethane	< 4.25	10.6	Q	ug/Kg dry	1.28	08/23/20 19:43	B0H0766	KS1	1	
Carbon disulfide	< 1.06	2.12		ug/Kg dry	0.319	08/23/20 19:43	B0H0766	KS1	1	
Carbon tetrachloride	< 0.318	1.06		ug/Kg dry	0.120	08/23/20 19:43	B0H0766	KS1	1	
Chlorobenzene	< 0.531	1.06		ug/Kg dry	0.137	08/23/20 19:43	B0H0766	KS1	1	
Chloroethane	< 2.12	4.25		ug/Kg dry	0.751	08/23/20 19:43	B0H0766	KS1	1	
Chloroform	< 1.06	2.12		ug/Kg dry	0.388	08/23/20 19:43	B0H0766	KS1	1	
Chloromethane	< 2.12	4.25		ug/Kg dry	0.775	08/23/20 19:43	B0H0766	KS1	1	
cis-1,2-Dichloroethene	< 1.06	2.12		ug/Kg dry	0.303	08/23/20 19:43	B0H0766	KS1	1	
cis-1,3-Dichloropropene	< 1.06	2.12		ug/Kg dry	0.367	08/23/20 19:43	B0H0766	KS1	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0681

Client Sample ID: MW-8 (2-4)
Report Date: 05/07/2021
Collection Date: 08/21/2020 15:25
Matrix: Soil
Lab ID: 20H0681-06 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5035 (Continued)										
Dibromochloromethane	< 0.531	1.06		ug/Kg dry	0.252	08/23/20 19:43	B0H0766	KS1	1	
Dibromomethane	< 0.531	1.06		ug/Kg dry	0.194	08/23/20 19:43	B0H0766	KS1	1	
Dichlorodifluoromethane	< 0.531	1.06		ug/Kg dry	0.196	08/23/20 19:43	B0H0766	KS1	1	
Ethylbenzene	< 2.12	4.25		ug/Kg dry	0.549	08/23/20 19:43	B0H0766	KS1	1	
Isopropylbenzene	< 1.06	2.12		ug/Kg dry	0.527	08/23/20 19:43	B0H0766	KS1	1	
m,p-Xylene	< 2.12	4.25		ug/Kg dry	0.859	08/23/20 19:43	B0H0766	KS1	1	
Methyl tert-butyl ether	< 0.531	1.06		ug/Kg dry	0.178	08/23/20 19:43	B0H0766	KS1	1	
Methylene chloride	< 2.12	4.25		ug/Kg dry	0.894	08/23/20 19:43	B0H0766	KS1	1	
n-Butylbenzene	< 1.06	2.12		ug/Kg dry	0.515	08/23/20 19:43	B0H0766	KS1	1	
n-Propylbenzene	< 1.06	2.12		ug/Kg dry	0.508	08/23/20 19:43	B0H0766	KS1	1	
o-Xylene	< 2.12	4.25		ug/Kg dry	0.542	08/23/20 19:43	B0H0766	KS1	1	
sec-Butylbenzene	< 1.06	2.12		ug/Kg dry	0.521	08/23/20 19:43	B0H0766	KS1	1	
Styrene	< 2.12	4.25		ug/Kg dry	0.582	08/23/20 19:43	B0H0766	KS1	1	
tert-Butylbenzene	< 2.12	4.25		ug/Kg dry	0.622	08/23/20 19:43	B0H0766	KS1	1	
Tetrachloroethene	< 1.06	2.12		ug/Kg dry	0.310	08/23/20 19:43	B0H0766	KS1	1	
Toluene	< 0.531	1.06		ug/Kg dry	0.192	08/23/20 19:43	B0H0766	KS1	1	
trans-1,2-Dichloroethene	< 1.06	2.12		ug/Kg dry	0.491	08/23/20 19:43	B0H0766	KS1	1	
trans-1,3-Dichloropropene	< 1.06	2.12		ug/Kg dry	0.434	08/23/20 19:43	B0H0766	KS1	1	
Trichloroethene	< 0.531	1.06		ug/Kg dry	0.257	08/23/20 19:43	B0H0766	KS1	1	
Trichlorofluoromethane	< 0.531	1.06		ug/Kg dry	0.220	08/23/20 19:43	B0H0766	KS1	1	
Vinyl chloride	< 1.06	2.12		ug/Kg dry	0.379	08/23/20 19:43	B0H0766	KS1	1	
Xylenes, Total	< 3.18	6.37		ug/Kg dry	1.36	08/23/20 19:43	B0H0766	KS1	1	
1,3-Dichloropropene, Total	< 2.12	4.25		ug/Kg dry	0.787	08/23/20 19:43	B0H0766	KS1	1	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 91%</i>	<i>Limits: 86-150</i>	<i>08/23/20 19:43</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 118%</i>	<i>Limits: 89-150</i>	<i>08/23/20 19:43</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 93%</i>	<i>Limits: 88-111</i>	<i>08/23/20 19:43</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 96%</i>	<i>Limits: 66-113</i>	<i>08/23/20 19:43</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 98%</i>	<i>Limits: 82-137</i>	<i>08/23/20 19:43</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 108%</i>	<i>Limits: 77-142</i>	<i>08/23/20 19:43</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
CHW8271N
Work Order: 20H0681

Client Sample ID: MW-12 (6-8)
Report Date: 05/07/2021
Collection Date: 08/21/2020 14:05
Matrix: Soil
Lab ID: 20H0681-07

Analyses	Result	EMT		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Reporting Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	90.7	0.100		% (Percent)	0.0240	08/25/20 05:10	B0H0725	MKP	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5035										
1,1,1,2-Tetrachloroethane	< 0.394	0.789		ug/Kg dry	0.160	08/23/20 20:08	B0H0766	KS1	1	
1,1,1-Trichloroethane	< 0.394	0.789		ug/Kg dry	0.161	08/23/20 20:08	B0H0766	KS1	1	
1,1,2,2-Tetrachloroethane	< 0.394	0.789		ug/Kg dry	0.141	08/23/20 20:08	B0H0766	KS1	1	
1,1,2-Trichloroethane	< 0.394	0.789		ug/Kg dry	0.173	08/23/20 20:08	B0H0766	KS1	1	
1,1-Dichloroethane	< 0.789	1.58		ug/Kg dry	0.214	08/23/20 20:08	B0H0766	KS1	1	
1,1-Dichloroethene	< 0.394	0.789		ug/Kg dry	0.171	08/23/20 20:08	B0H0766	KS1	1	
1,1-Dichloropropene	< 0.789	1.58		ug/Kg dry	0.223	08/23/20 20:08	B0H0766	KS1	1	
1,2,3-Trichlorobenzene	< 1.58	3.16		ug/Kg dry	0.461	08/23/20 20:08	B0H0766	KS1	1	
1,2,3-Trichloropropane	< 0.789	1.58		ug/Kg dry	0.193	08/23/20 20:08	B0H0766	KS1	1	
1,2,4-Trichlorobenzene	< 1.58	3.16		ug/Kg dry	0.422	08/23/20 20:08	B0H0766	KS1	1	
1,2,4-Trimethylbenzene	< 1.58	3.16		ug/Kg dry	0.425	08/23/20 20:08	B0H0766	KS1	1	
1,2-Dibromo-3-chloropropane	< 1.58	3.16		ug/Kg dry	0.654	08/23/20 20:08	B0H0766	KS1	1	
1,2-Dibromoethane	< 0.394	0.789		ug/Kg dry	0.107	08/23/20 20:08	B0H0766	KS1	1	
1,2-Dichloroethane	< 0.394	0.789		ug/Kg dry	0.162	08/23/20 20:08	B0H0766	KS1	1	
1,2-Dichloropropane	< 0.394	0.789		ug/Kg dry	0.191	08/23/20 20:08	B0H0766	KS1	1	
1,3,5-Trimethylbenzene	< 0.789	1.58		ug/Kg dry	0.394	08/23/20 20:08	B0H0766	KS1	1	
1,3-Dichloropropane	< 0.394	0.789		ug/Kg dry	0.176	08/23/20 20:08	B0H0766	KS1	1	
2,2-Dichloropropane	< 0.394	0.789		ug/Kg dry	0.131	08/23/20 20:08	B0H0766	KS1	1	
2-Butanone	< 5.52	11.0		ug/Kg dry	2.69	08/23/20 20:08	B0H0766	KS1	1	
2-Chlorotoluene	< 0.789	1.58		ug/Kg dry	0.346	08/23/20 20:08	B0H0766	KS1	1	
2-Hexanone	< 5.52	11.0		ug/Kg dry	2.09	08/23/20 20:08	B0H0766	KS1	1	
4-Chlorotoluene	< 0.789	1.58		ug/Kg dry	0.346	08/23/20 20:08	B0H0766	KS1	1	
4-Isopropyltoluene	< 1.58	3.16		ug/Kg dry	0.462	08/23/20 20:08	B0H0766	KS1	1	
4-Methyl-2-pentanone	< 5.52	11.0		ug/Kg dry	1.61	08/23/20 20:08	B0H0766	KS1	1	
Acetone	< 11.0	27.6		ug/Kg dry	4.77	08/23/20 20:08	B0H0766	KS1	1	
Benzene	< 0.394	2.00		ug/Kg dry	0.114	08/23/20 20:08	B0H0766	KS1	1	
Bromobenzene	< 0.789	1.58		ug/Kg dry	0.222	08/23/20 20:08	B0H0766	KS1	1	
Bromochloromethane	< 0.789	1.58		ug/Kg dry	0.277	08/23/20 20:08	B0H0766	KS1	1	
Bromodichloromethane	< 0.394	0.789		ug/Kg dry	0.190	08/23/20 20:08	B0H0766	KS1	1	
Bromoform	< 0.789	1.58		ug/Kg dry	0.248	08/23/20 20:08	B0H0766	KS1	1	
Bromomethane	< 3.16	7.89	Q	ug/Kg dry	0.948	08/23/20 20:08	B0H0766	KS1	1	
Carbon disulfide	< 0.789	1.58		ug/Kg dry	0.237	08/23/20 20:08	B0H0766	KS1	1	
Carbon tetrachloride	< 0.237	0.789		ug/Kg dry	0.0893	08/23/20 20:08	B0H0766	KS1	1	
Chlorobenzene	< 0.394	0.789		ug/Kg dry	0.102	08/23/20 20:08	B0H0766	KS1	1	
Chloroethane	< 1.58	3.16		ug/Kg dry	0.558	08/23/20 20:08	B0H0766	KS1	1	
Chloroform	< 0.789	1.58		ug/Kg dry	0.288	08/23/20 20:08	B0H0766	KS1	1	
Chloromethane	< 1.58	3.16		ug/Kg dry	0.576	08/23/20 20:08	B0H0766	KS1	1	
cis-1,2-Dichloroethene	< 0.789	1.58		ug/Kg dry	0.225	08/23/20 20:08	B0H0766	KS1	1	
cis-1,3-Dichloropropene	< 0.789	1.58		ug/Kg dry	0.273	08/23/20 20:08	B0H0766	KS1	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0681

Client Sample ID: MW-12 (6-8)
Report Date: 05/07/2021
Collection Date: 08/21/2020 14:05
Matrix: Soil
Lab ID: 20H0681-07 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5035 (Continued)										
Dibromochloromethane	< 0.394	0.789		ug/Kg dry	0.188	08/23/20 20:08	B0H0766	KS1	1	
Dibromomethane	< 0.394	0.789		ug/Kg dry	0.144	08/23/20 20:08	B0H0766	KS1	1	
Dichlorodifluoromethane	< 0.394	0.789		ug/Kg dry	0.146	08/23/20 20:08	B0H0766	KS1	1	
Ethylbenzene	< 1.58	3.16		ug/Kg dry	0.408	08/23/20 20:08	B0H0766	KS1	1	
Isopropylbenzene	< 0.789	1.58		ug/Kg dry	0.392	08/23/20 20:08	B0H0766	KS1	1	
m,p-Xylene	< 1.58	3.16		ug/Kg dry	0.638	08/23/20 20:08	B0H0766	KS1	1	
Methyl tert-butyl ether	< 0.394	0.789		ug/Kg dry	0.132	08/23/20 20:08	B0H0766	KS1	1	
Methylene chloride	< 1.58	3.16		ug/Kg dry	0.664	08/23/20 20:08	B0H0766	KS1	1	
n-Butylbenzene	< 0.789	1.58		ug/Kg dry	0.383	08/23/20 20:08	B0H0766	KS1	1	
n-Propylbenzene	< 0.789	1.58		ug/Kg dry	0.377	08/23/20 20:08	B0H0766	KS1	1	
o-Xylene	< 1.58	3.16		ug/Kg dry	0.403	08/23/20 20:08	B0H0766	KS1	1	
sec-Butylbenzene	< 0.789	1.58		ug/Kg dry	0.387	08/23/20 20:08	B0H0766	KS1	1	
Styrene	< 1.58	3.16		ug/Kg dry	0.433	08/23/20 20:08	B0H0766	KS1	1	
tert-Butylbenzene	< 1.58	3.16		ug/Kg dry	0.462	08/23/20 20:08	B0H0766	KS1	1	
Tetrachloroethene	19.4	1.58		ug/Kg dry	0.230	08/23/20 20:08	B0H0766	KS1	1	
Toluene	< 0.394	2.00		ug/Kg dry	0.143	08/23/20 20:08	B0H0766	KS1	1	
trans-1,2-Dichloroethene	< 0.789	1.58		ug/Kg dry	0.365	08/23/20 20:08	B0H0766	KS1	1	
trans-1,3-Dichloropropene	< 0.789	1.58		ug/Kg dry	0.323	08/23/20 20:08	B0H0766	KS1	1	
Trichloroethene	< 0.394	0.789		ug/Kg dry	0.191	08/23/20 20:08	B0H0766	KS1	1	
Trichlorofluoromethane	< 0.394	0.789		ug/Kg dry	0.163	08/23/20 20:08	B0H0766	KS1	1	
Vinyl chloride	< 0.789	1.58		ug/Kg dry	0.282	08/23/20 20:08	B0H0766	KS1	1	
Xylenes, Total	< 2.37	4.73		ug/Kg dry	1.01	08/23/20 20:08	B0H0766	KS1	1	
1,3-Dichloropropene, Total	< 1.58	3.16		ug/Kg dry	0.585	08/23/20 20:08	B0H0766	KS1	1	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 90%</i>	<i>Limits: 86-150</i>	<i>08/23/20 20:08</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 122%</i>	<i>Limits: 89-150</i>	<i>08/23/20 20:08</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 97%</i>	<i>Limits: 88-111</i>	<i>08/23/20 20:08</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 95%</i>	<i>Limits: 66-113</i>	<i>08/23/20 20:08</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 102%</i>	<i>Limits: 82-137</i>	<i>08/23/20 20:08</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 106%</i>	<i>Limits: 77-142</i>	<i>08/23/20 20:08</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
CHW8271N
Work Order: 20H0681

Client Sample ID: MW-13 (10-12)
Report Date: 05/07/2021
Collection Date: 08/21/2020 12:35
Matrix: Soil
Lab ID: 20H0681-08

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	94.5	0.100		% (Percent)	0.0240	08/25/20 05:12	B0H0725	MKP	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5035										
1,1,1,2-Tetrachloroethane	< 0.531	1.06		ug/Kg dry	0.215	08/23/20 20:33	B0H0766	KS1	1	
1,1,1-Trichloroethane	< 0.531	1.06		ug/Kg dry	0.217	08/23/20 20:33	B0H0766	KS1	1	
1,1,2,2-Tetrachloroethane	< 0.531	1.06		ug/Kg dry	0.189	08/23/20 20:33	B0H0766	KS1	1	
1,1,2-Trichloroethane	< 0.531	1.06		ug/Kg dry	0.233	08/23/20 20:33	B0H0766	KS1	1	
1,1-Dichloroethane	< 1.06	2.12		ug/Kg dry	0.288	08/23/20 20:33	B0H0766	KS1	1	
1,1-Dichloroethene	< 0.531	1.06		ug/Kg dry	0.230	08/23/20 20:33	B0H0766	KS1	1	
1,1-Dichloropropene	< 1.06	2.12		ug/Kg dry	0.300	08/23/20 20:33	B0H0766	KS1	1	
1,2,3-Trichlorobenzene	< 2.12	4.25		ug/Kg dry	0.621	08/23/20 20:33	B0H0766	KS1	1	
1,2,3-Trichloropropane	< 1.06	2.12		ug/Kg dry	0.260	08/23/20 20:33	B0H0766	KS1	1	
1,2,4-Trichlorobenzene	< 2.12	4.25		ug/Kg dry	0.568	08/23/20 20:33	B0H0766	KS1	1	
1,2,4-Trimethylbenzene	< 2.12	4.25		ug/Kg dry	0.572	08/23/20 20:33	B0H0766	KS1	1	
1,2-Dibromo-3-chloropropane	< 2.12	4.25		ug/Kg dry	0.880	08/23/20 20:33	B0H0766	KS1	1	
1,2-Dibromoethane	< 0.531	1.06		ug/Kg dry	0.144	08/23/20 20:33	B0H0766	KS1	1	
1,2-Dichloroethane	< 0.531	1.06		ug/Kg dry	0.218	08/23/20 20:33	B0H0766	KS1	1	
1,2-Dichloropropane	< 0.531	1.06		ug/Kg dry	0.256	08/23/20 20:33	B0H0766	KS1	1	
1,3,5-Trimethylbenzene	< 1.06	2.12		ug/Kg dry	0.530	08/23/20 20:33	B0H0766	KS1	1	
1,3-Dichloropropane	< 0.531	1.06		ug/Kg dry	0.237	08/23/20 20:33	B0H0766	KS1	1	
2,2-Dichloropropane	< 0.531	1.06		ug/Kg dry	0.176	08/23/20 20:33	B0H0766	KS1	1	
2-Butanone	< 7.43	14.9		ug/Kg dry	3.61	08/23/20 20:33	B0H0766	KS1	1	
2-Chlorotoluene	< 1.06	2.12		ug/Kg dry	0.465	08/23/20 20:33	B0H0766	KS1	1	
2-Hexanone	< 7.43	14.9		ug/Kg dry	2.82	08/23/20 20:33	B0H0766	KS1	1	
4-Chlorotoluene	< 1.06	2.12		ug/Kg dry	0.465	08/23/20 20:33	B0H0766	KS1	1	
4-Isopropyltoluene	< 2.12	4.25		ug/Kg dry	0.622	08/23/20 20:33	B0H0766	KS1	1	
4-Methyl-2-pentanone	< 7.43	14.9		ug/Kg dry	2.16	08/23/20 20:33	B0H0766	KS1	1	
Acetone	< 14.9	37.1		ug/Kg dry	6.42	08/23/20 20:33	B0H0766	KS1	1	
Benzene	< 0.531	1.06		ug/Kg dry	0.153	08/23/20 20:33	B0H0766	KS1	1	
Bromobenzene	< 1.06	2.12		ug/Kg dry	0.298	08/23/20 20:33	B0H0766	KS1	1	
Bromochloromethane	< 1.06	2.12		ug/Kg dry	0.372	08/23/20 20:33	B0H0766	KS1	1	
Bromodichloromethane	< 0.531	1.06		ug/Kg dry	0.256	08/23/20 20:33	B0H0766	KS1	1	
Bromoform	< 1.06	2.12		ug/Kg dry	0.334	08/23/20 20:33	B0H0766	KS1	1	
Bromomethane	< 4.25	10.6	Q	ug/Kg dry	1.28	08/23/20 20:33	B0H0766	KS1	1	
Carbon disulfide	< 1.06	2.12		ug/Kg dry	0.319	08/23/20 20:33	B0H0766	KS1	1	
Carbon tetrachloride	< 0.318	1.06		ug/Kg dry	0.120	08/23/20 20:33	B0H0766	KS1	1	
Chlorobenzene	< 0.531	1.06		ug/Kg dry	0.137	08/23/20 20:33	B0H0766	KS1	1	
Chloroethane	< 2.12	4.25		ug/Kg dry	0.750	08/23/20 20:33	B0H0766	KS1	1	
Chloroform	< 1.06	2.12		ug/Kg dry	0.388	08/23/20 20:33	B0H0766	KS1	1	
Chloromethane	< 2.12	4.25		ug/Kg dry	0.775	08/23/20 20:33	B0H0766	KS1	1	
cis-1,2-Dichloroethene	< 1.06	2.12		ug/Kg dry	0.303	08/23/20 20:33	B0H0766	KS1	1	
cis-1,3-Dichloropropene	< 1.06	2.12		ug/Kg dry	0.367	08/23/20 20:33	B0H0766	KS1	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0681

Client Sample ID: MW-13 (10-12)
Report Date: 05/07/2021
Collection Date: 08/21/2020 12:35
Matrix: Soil
Lab ID: 20H0681-08 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5035 (Continued)										
Dibromochloromethane	< 0.531	1.06		ug/Kg dry	0.252	08/23/20 20:33	B0H0766	KS1	1	
Dibromomethane	< 0.531	1.06		ug/Kg dry	0.194	08/23/20 20:33	B0H0766	KS1	1	
Dichlorodifluoromethane	< 0.531	1.06		ug/Kg dry	0.196	08/23/20 20:33	B0H0766	KS1	1	
Ethylbenzene	< 2.12	4.25		ug/Kg dry	0.549	08/23/20 20:33	B0H0766	KS1	1	
Isopropylbenzene	< 1.06	2.12		ug/Kg dry	0.527	08/23/20 20:33	B0H0766	KS1	1	
m,p-Xylene	< 2.12	4.25		ug/Kg dry	0.859	08/23/20 20:33	B0H0766	KS1	1	
Methyl tert-butyl ether	< 0.531	1.06		ug/Kg dry	0.178	08/23/20 20:33	B0H0766	KS1	1	
Methylene chloride	< 2.12	4.25		ug/Kg dry	0.894	08/23/20 20:33	B0H0766	KS1	1	
n-Butylbenzene	< 1.06	2.12		ug/Kg dry	0.515	08/23/20 20:33	B0H0766	KS1	1	
n-Propylbenzene	< 1.06	2.12		ug/Kg dry	0.508	08/23/20 20:33	B0H0766	KS1	1	
o-Xylene	< 2.12	4.25		ug/Kg dry	0.542	08/23/20 20:33	B0H0766	KS1	1	
sec-Butylbenzene	< 1.06	2.12		ug/Kg dry	0.521	08/23/20 20:33	B0H0766	KS1	1	
Styrene	< 2.12	4.25		ug/Kg dry	0.582	08/23/20 20:33	B0H0766	KS1	1	
tert-Butylbenzene	< 2.12	4.25		ug/Kg dry	0.622	08/23/20 20:33	B0H0766	KS1	1	
Tetrachloroethene	< 1.06	2.12		ug/Kg dry	0.310	08/23/20 20:33	B0H0766	KS1	1	
Toluene	< 0.531	1.06		ug/Kg dry	0.192	08/23/20 20:33	B0H0766	KS1	1	
trans-1,2-Dichloroethene	< 1.06	2.12		ug/Kg dry	0.491	08/23/20 20:33	B0H0766	KS1	1	
trans-1,3-Dichloropropene	< 1.06	2.12		ug/Kg dry	0.434	08/23/20 20:33	B0H0766	KS1	1	
Trichloroethene	< 0.531	1.06		ug/Kg dry	0.257	08/23/20 20:33	B0H0766	KS1	1	
Trichlorofluoromethane	< 0.531	1.06		ug/Kg dry	0.220	08/23/20 20:33	B0H0766	KS1	1	
Vinyl chloride	< 1.06	2.12		ug/Kg dry	0.379	08/23/20 20:33	B0H0766	KS1	1	
Xylenes, Total	< 3.18	6.37		ug/Kg dry	1.36	08/23/20 20:33	B0H0766	KS1	1	
1,3-Dichloropropene, Total	< 2.12	4.25		ug/Kg dry	0.787	08/23/20 20:33	B0H0766	KS1	1	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 87%</i>	<i>Limits: 86-150</i>	<i>08/23/20 20:33</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 117%</i>	<i>Limits: 89-150</i>	<i>08/23/20 20:33</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 94%</i>	<i>Limits: 88-111</i>	<i>08/23/20 20:33</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 97%</i>	<i>Limits: 66-113</i>	<i>08/23/20 20:33</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 101%</i>	<i>Limits: 82-137</i>	<i>08/23/20 20:33</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 113%</i>	<i>Limits: 77-142</i>	<i>08/23/20 20:33</i>	<i>B0H0766</i>	<i>KS1</i>	<i>1</i>	

Dates Report

Client: Geosyntec Consultants

Report Date: 05/07/2021

Project: Milw Die Cast
CHW8271N

Work Order: 20H0681

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
20H0681-01	PZ-1(6-8)	08/21/20	Soil	Total Solids / Percent Moisture		08/24/20 06:05	08/24/20 06:50	B0H0678	
				Volatile Organic Compounds by GC/MS		08/23/20 12:43	08/23/20 17:40	B0H0766	S0H0334
				Volatile Organic Compounds by GC/MS		08/26/20 14:00	08/26/20 17:33	B0H0831	S0H0360
20H0681-02	PZ-2(6-8)	08/21/20		Total Solids / Percent Moisture		08/24/20 06:05	08/24/20 06:52	B0H0678	
				Volatile Organic Compounds by GC/MS		08/23/20 12:43	08/23/20 18:05	B0H0766	S0H0334
				Total Solids / Percent Moisture		08/24/20 06:05	08/24/20 06:54	B0H0678	
20H0681-03	MW-3 (8-10)	08/21/20		Total Solids / Percent Moisture		08/24/20 06:05	08/24/20 06:54	B0H0678	
				Volatile Organic Compounds by GC/MS		08/23/20 12:43	08/23/20 18:30	B0H0766	S0H0334
				Total Solids / Percent Moisture		08/24/20 06:05	08/24/20 06:56	B0H0678	
20H0681-04	MW-4 (8-10)	08/21/20		Total Solids / Percent Moisture		08/24/20 06:05	08/24/20 06:56	B0H0678	
				Volatile Organic Compounds by GC/MS		08/23/20 12:43	08/23/20 18:54	B0H0766	S0H0334
				Volatile Organic Compounds by GC/MS		08/23/20 12:43	08/23/20 22:35	B0H0786	
20H0681-05	MW-7 (8-9)	08/21/20		Total Solids / Percent Moisture		08/24/20 06:05	08/24/20 06:58	B0H0678	
				Volatile Organic Compounds by GC/MS		08/23/20 12:43	08/23/20 19:19	B0H0766	S0H0334
				Total Solids / Percent Moisture		08/25/20 04:40	08/25/20 05:08	B0H0725	
20H0681-06	MW-8 (2-4)	08/21/20		Total Solids / Percent Moisture		08/25/20 04:40	08/25/20 05:08	B0H0725	
				Volatile Organic Compounds by GC/MS		08/23/20 12:43	08/23/20 19:43	B0H0766	S0H0334
				Total Solids / Percent Moisture		08/25/20 04:40	08/25/20 05:10	B0H0725	
20H0681-07	MW-12 (6-8)	08/21/20		Total Solids / Percent Moisture		08/25/20 04:40	08/25/20 05:10	B0H0725	
				Volatile Organic Compounds by GC/MS		08/23/20 12:43	08/23/20 20:08	B0H0766	S0H0334
				Total Solids / Percent Moisture		08/25/20 04:40	08/25/20 05:12	B0H0725	
20H0681-08	MW-13 (10-12)	08/21/20		Total Solids / Percent Moisture		08/25/20 04:40	08/25/20 05:12	B0H0725	
				Volatile Organic Compounds by GC/MS		08/23/20 12:43	08/23/20 20:33	B0H0766	S0H0334
				Volatile Organic Compounds by GC/MS		08/23/20 12:43	08/23/20 20:33	B0H0766	S0H0334

Quality Control

Client: Geosyntec DoD
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0681

Report Date: 05/07/2021
Matrix: Solid

Wet Chemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0H0678

Blank (B0H0678-BLK1)

Prepared: 08/24/2020 06:05 Analyzed: 08/24/2020 07:00

Total Solids	<0.0500	0.100	%								1
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LCS (B0H0678-BS1)

Prepared: 08/24/2020 06:05 Analyzed: 08/24/2020 07:02

Total Solids	0.190	0.100	%	0.2035		93.2	83.9-103				1
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Duplicate (B0H0678-DUP1)

Source: 20H0668-03

Prepared: 08/24/2020 06:05 Analyzed: 08/24/2020 07:04

Total Solids	90.6	0.100	%		90.2			0.418	5		1
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Duplicate (B0H0678-DUP2)

Source: 20H0673-05

Prepared: 08/24/2020 06:05 Analyzed: 08/24/2020 07:06

Total Solids	84.9	0.100	%		85.2			0.418	5		1
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Batch: B0H0725

Blank (B0H0725-BLK1)

Prepared: 08/25/2020 04:40 Analyzed: 08/25/2020 05:18

Total Solids	<0.0500	0.100	%								1
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LCS (B0H0725-BS1)

Prepared: 08/25/2020 04:40 Analyzed: 08/25/2020 05:20

Total Solids	0.196	0.100	%	0.2035		96.3	83.9-103				1
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Duplicate (B0H0725-DUP1)

Source: 20H0681-08

Prepared: 08/25/2020 04:40 Analyzed: 08/25/2020 05:22

Total Solids	95.0	0.100	%		94.5			0.518	5		1
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Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast
CHW8271N
Work Order: 20H0681

Report Date: 05/07/2021
Matrix: Solid

Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0H0766 - SW5035**Blank (B0H0766-BLK1)**

Prepared: 08/23/2020 12:43 Analyzed: 08/23/2020 16:02

1,1,1,2-Tetrachloroethane	<1.00	2.00	ug/Kg wet								1
1,1,1-Trichloroethane	<1.00	2.00	ug/Kg wet								1
1,1,2,2-Tetrachloroethane	<1.00	2.00	ug/Kg wet								1
1,1,2-Trichloroethane	<1.00	2.00	ug/Kg wet								1
1,1-Dichloroethane	<2.00	4.00	ug/Kg wet								1
1,1-Dichloroethene	<1.00	2.00	ug/Kg wet								1
1,1-Dichloropropene	<2.00	4.00	ug/Kg wet								1
1,2,3-Trichlorobenzene	<4.00	8.00	ug/Kg wet								1
1,2,3-Trichloropropane	<2.00	4.00	ug/Kg wet								1
1,2,4-Trichlorobenzene	<4.00	8.00	ug/Kg wet								1
1,2,4-Trimethylbenzene	<4.00	8.00	ug/Kg wet								1
1,2-Dibromo-3-chloropropane	<4.00	8.00	ug/Kg wet								1
1,2-Dibromoethane	<1.00	2.00	ug/Kg wet								1
1,2-Dichloroethane	<1.00	2.00	ug/Kg wet								1
1,2-Dichloropropane	<1.00	2.00	ug/Kg wet								1
1,3,5-Trimethylbenzene	<2.00	4.00	ug/Kg wet								1
1,3-Dichloropropane	<1.00	2.00	ug/Kg wet								1
1-Butanol	<100	200	ug/Kg wet								1
2,2-Dichloropropane	<1.00	2.00	ug/Kg wet								1
2-Butanone	<14.0	28.0	ug/Kg wet								1
2-Chlorotoluene	<2.00	4.00	ug/Kg wet								1
2-Hexanone	<14.0	28.0	ug/Kg wet								1
4-Chlorotoluene	<2.00	4.00	ug/Kg wet								1
4-Isopropyltoluene	<4.00	8.00	ug/Kg wet								1
4-Methyl-2-pentanone	<14.0	28.0	ug/Kg wet								1
Acetone	<28.0	70.0	ug/Kg wet								1
Benzene	<1.00	2.00	ug/Kg wet								1
Bromobenzene	<2.00	4.00	ug/Kg wet								1
Bromochloromethane	<2.00	4.00	ug/Kg wet								1
Bromodichloromethane	<1.00	2.00	ug/Kg wet								1
Bromoform	<2.00	4.00	ug/Kg wet								1
Bromomethane	<8.00	20.0	ug/Kg wet								1
Carbon disulfide	<2.00	4.00	ug/Kg wet								1
Carbon tetrachloride	<0.600	2.00	ug/Kg wet								1
Chlorobenzene	<1.00	2.00	ug/Kg wet								1
Chloroethane	<4.00	8.00	ug/Kg wet								1
Chloroform	<2.00	4.00	ug/Kg wet								1
Chloromethane	<4.00	8.00	ug/Kg wet								1
cis-1,2-Dichloroethene	<2.00	4.00	ug/Kg wet								1
cis-1,3-Dichloropropene	<2.00	4.00	ug/Kg wet								1
Dibromochloromethane	<1.00	2.00	ug/Kg wet								1
Dibromomethane	<1.00	2.00	ug/Kg wet								1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0681

Report Date: 05/07/2021
Matrix: Solid

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0H0766 - SW5035 (Continued)**Blank (B0H0766-BLK1) (Continued)**

Prepared: 08/23/2020 12:43 Analyzed: 08/23/2020 16:02

Dichlorodifluoromethane	<1.00	2.00	ug/Kg wet								1
Ethylbenzene	<4.00	8.00	ug/Kg wet								1
Isopropylbenzene	<2.00	4.00	ug/Kg wet								1
m,p-Xylene	<4.00	8.00	ug/Kg wet								1
Methyl tert-butyl ether	<1.00	2.00	ug/Kg wet								1
Methylene chloride	<4.00	8.00	ug/Kg wet								1
n-Butylbenzene	<2.00	4.00	ug/Kg wet								1
n-Propylbenzene	<2.00	4.00	ug/Kg wet								1
o-Xylene	<4.00	8.00	ug/Kg wet								1
sec-Butylbenzene	<2.00	4.00	ug/Kg wet								1
Styrene	<4.00	8.00	ug/Kg wet								1
tert-Butylbenzene	<4.00	8.00	ug/Kg wet								1
Tetrachloroethene	<2.00	4.00	ug/Kg wet								1
Toluene	<1.00	2.00	ug/Kg wet								1
trans-1,2-Dichloroethene	<2.00	4.00	ug/Kg wet								1
trans-1,3-Dichloropropene	<2.00	4.00	ug/Kg wet								1
Trichloroethene	<1.00	2.00	ug/Kg wet								1
Trichlorofluoromethane	<1.00	2.00	ug/Kg wet								1
Vinyl acetate	<8.00	20.0	ug/Kg wet								1
Vinyl chloride	<2.00	4.00	ug/Kg wet								1
Xylenes, Total	<6.00	12.0	ug/Kg wet								1
1,3-Dichloropropene, Total	<4.00	8.00	ug/Kg wet								1

Surrogate: Dibromofluoromethane	17.6		ug/Kg	20.00		88	86-150				1
Surrogate: 1,2-Dichloroethane-d4	19.9		ug/Kg	20.00		100	89-150				1
Surrogate: Fluorobenzene	19.0		ug/Kg	20.00		95	88-111				1
Surrogate: Toluene-d8	19.2		ug/Kg	20.00		96	66-113				1
Surrogate: 4-Bromofluorobenzene	10.1		ug/Kg	10.00		101	82-137				1
Surrogate: 1,2-Dichlorobenzene-d4	20.4		ug/Kg	20.00		102	77-142				1

LCS (B0H0766-BS1)

Prepared: 08/23/2020 12:43 Analyzed: 08/23/2020 14:33

1,1,1,2-Tetrachloroethane	38.7	2.00	ug/Kg wet	40.00		97	78-125				1
1,1,1-Trichloroethane	34.1	2.00	ug/Kg wet	40.00		85	73-113				1
1,1,2,2-Tetrachloroethane	35.9	2.00	ug/Kg wet	40.00		90	70-124				1
1,1,2-Trichloroethane	42.7	2.00	ug/Kg wet	40.00		107	78-121				1
1,1-Dichloroethane	35.8	4.00	ug/Kg wet	40.00		90	76-125				1
1,1-Dichloroethene	38.8	2.00	ug/Kg wet	40.00		97	70-131				1
1,1-Dichloropropene	34.5	4.00	ug/Kg wet	40.00		86	76-125				1
1,2,3-Trichlorobenzene	40.0	8.00	ug/Kg wet	40.00		100	66-130				1
1,2,3-Trichloropropane	40.4	4.00	ug/Kg wet	40.00		101	73-125				1
1,2,4-Trichlorobenzene	39.3	8.00	ug/Kg wet	40.00		98	67-129				1
1,2,4-Trimethylbenzene	37.2	8.00	ug/Kg wet	40.00		93	75-123				1
1,2-Dibromo-3-chloropropane	36.2	8.00	ug/Kg wet	40.00		91	69-128				1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast
CHW8271N
Work Order: 20H0681

Report Date: 05/07/2021
Matrix: Solid

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0H0766 - SW5035 (Continued)**LCS (B0H0766-BS1) (Continued)**

Prepared: 08/23/2020 12:43 Analyzed: 08/23/2020 14:33

1,2-Dibromoethane	42.5	2.00	ug/Kg wet	40.00		106	78-122				1
1,2-Dichloroethane	38.7	2.00	ug/Kg wet	40.00		97	73-128				1
1,2-Dichloropropane	40.0	2.00	ug/Kg wet	40.00		100	76-123				1
1,3,5-Trimethylbenzene	37.3	4.00	ug/Kg wet	40.00		93	71-128				1
1,3-Dichloropropane	41.4	2.00	ug/Kg wet	40.00		104	77-121				1
1-Butanol	419	200	ug/Kg wet	400.0		105	70-130				1
2,2-Dichloropropane	34.1	2.00	ug/Kg wet	40.00		85	67-133				1
2-Butanone	142	28.0	ug/Kg wet	140.0		101	66-147				1
2-Chlorotoluene	36.0	4.00	ug/Kg wet	40.00		90	75-122				1
2-Hexanone	176	28.0	ug/Kg wet	140.0		126	60-145				1
4-Chlorotoluene	36.8	4.00	ug/Kg wet	40.00		92	72-124				1
4-Isopropyltoluene	36.5	8.00	ug/Kg wet	40.00		91	73-127				1
4-Methyl-2-pentanone	152	28.0	ug/Kg wet	140.0		108	65-135				1
Acetone	154	70.0	ug/Kg wet	140.0		110	36-164				1
Benzene	37.8	2.00	ug/Kg wet	40.00		94	77-121				1
Bromobenzene	36.1	4.00	ug/Kg wet	40.00		90	78-121				1
Bromochloromethane	36.7	4.00	ug/Kg wet	40.00		92	78-125				1
Bromodichloromethane	37.5	2.00	ug/Kg wet	40.00		94	75-127				1
Bromoform	39.1	4.00	ug/Kg wet	40.00		98	67-132				1
Bromomethane	33.4	20.0	ug/Kg wet	40.00		83	53-143				1
Carbon disulfide	31.7	4.00	ug/Kg wet	40.00		79	63-132				1
Carbon tetrachloride	41.3	2.00	ug/Kg wet	40.00		103	70-135				1
Chlorobenzene	39.2	2.00	ug/Kg wet	40.00		98	73-123				1
Chloroethane	40.7	8.00	ug/Kg wet	40.00		102	59-139				1
Chloroform	35.9	4.00	ug/Kg wet	40.00		90	73-127				1
Chloromethane	47.5	8.00	ug/Kg wet	40.00		119	50-136				1
cis-1,2-Dichloroethene	34.6	4.00	ug/Kg wet	40.00		86	77-123				1
cis-1,3-Dichloropropene	37.0	4.00	ug/Kg wet	40.00		92	74-126				1
Dibromochloromethane	39.0	2.00	ug/Kg wet	40.00		97	74-126				1
Dibromomethane	44.2	2.00	ug/Kg wet	40.00		110	78-125				1
Dichlorodifluoromethane	50.0	2.00	ug/Kg wet	40.00		125	29-149				1
Ethylbenzene	39.6	8.00	ug/Kg wet	40.00		99	76-122				1
Isopropylbenzene	35.7	4.00	ug/Kg wet	40.00		89	68-134				1
m,p-Xylene	79.6	8.00	ug/Kg wet	80.00		100	77-124				1
Methyl tert-butyl ether	34.5	2.00	ug/Kg wet	40.00		86	73-118				1
Methylene chloride	41.0	8.00	ug/Kg wet	40.00		103	70-128				1
n-Butylbenzene	38.2	4.00	ug/Kg wet	40.00		95	70-128				1
n-Propylbenzene	35.7	4.00	ug/Kg wet	40.00		89	73-125				1
o-Xylene	35.6	8.00	ug/Kg wet	40.00		89	77-123				1
sec-Butylbenzene	36.8	4.00	ug/Kg wet	40.00		92	73-126				1
Styrene	38.2	8.00	ug/Kg wet	40.00		95	76-124				1
tert-Butylbenzene	36.5	8.00	ug/Kg wet	40.00		91	73-125				1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast
CHW8271N
Work Order: 20H0681

Report Date: 05/07/2021
Matrix: Solid

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0H0766 - SW5035 (Continued)**LCS (B0H0766-BS1) (Continued)**

Prepared: 08/23/2020 12:43 Analyzed: 08/23/2020 14:33

Tetrachloroethene	42.9	4.00	ug/Kg wet	40.00		107	73-125				1
Toluene	36.9	2.00	ug/Kg wet	40.00		92	77-121				1
trans-1,2-Dichloroethene	34.9	4.00	ug/Kg wet	40.00		87	74-125				1
trans-1,3-Dichloropropene	36.2	4.00	ug/Kg wet	40.00		90	71-130				1
Trichloroethene	38.6	2.00	ug/Kg wet	40.00		97	72-126				1
Trichlorofluoromethane	38.4	2.00	ug/Kg wet	40.00		96	62-140				1
Vinyl acetate	37.4	20.0	ug/Kg wet	40.00		94	50-151				1
Vinyl chloride	41.1	4.00	ug/Kg wet	40.00		103	56-135				1
Xylenes, Total	115	12.0	ug/Kg wet	120.0		96	78-124				1
1,3-Dichloropropene, Total	73.1	8.00	ug/Kg wet	80.00		91	77-126				1
<i>Surrogate: Dibromofluoromethane</i>	17.8		ug/Kg	20.00		89	86-150				1
<i>Surrogate: 1,2-Dichloroethane-d4</i>	18.9		ug/Kg	20.00		94	89-150				1
<i>Surrogate: Fluorobenzene</i>	19.3		ug/Kg	20.00		97	88-111				1
<i>Surrogate: Toluene-d8</i>	19.2		ug/Kg	20.00		96	66-113				1
<i>Surrogate: 4-Bromofluorobenzene</i>	9.39		ug/Kg	10.00		94	82-137				1
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	19.4		ug/Kg	20.00		97	77-142				1

LCS Dup (B0H0766-BSD1)

Prepared: 08/23/2020 12:43 Analyzed: 08/23/2020 14:58

1,1,1,2-Tetrachloroethane	39.3	2.00	ug/Kg wet	40.00		98	78-125	2	20		1
1,1,1-Trichloroethane	36.1	2.00	ug/Kg wet	40.00		90	73-113	6	20		1
1,1,2,2-Tetrachloroethane	37.1	2.00	ug/Kg wet	40.00		93	70-124	3	20		1
1,1,2-Trichloroethane	42.1	2.00	ug/Kg wet	40.00		105	78-121	1	20		1
1,1-Dichloroethane	37.8	4.00	ug/Kg wet	40.00		95	76-125	5	20		1
1,1-Dichloroethene	39.8	2.00	ug/Kg wet	40.00		99	70-131	2	20		1
1,1-Dichloropropene	36.2	4.00	ug/Kg wet	40.00		90	76-125	5	20		1
1,2,3-Trichlorobenzene	37.9	8.00	ug/Kg wet	40.00		95	66-130	5	20		1
1,2,3-Trichloropropane	41.5	4.00	ug/Kg wet	40.00		104	73-125	3	20		1
1,2,4-Trichlorobenzene	38.2	8.00	ug/Kg wet	40.00		95	67-129	3	20		1
1,2,4-Trimethylbenzene	38.0	8.00	ug/Kg wet	40.00		95	75-123	2	20		1
1,2-Dibromo-3-chloropropane	38.0	8.00	ug/Kg wet	40.00		95	69-128	5	20		1
1,2-Dibromoethane	41.8	2.00	ug/Kg wet	40.00		105	78-122	2	20		1
1,2-Dichloroethane	41.1	2.00	ug/Kg wet	40.00		103	73-128	6	20		1
1,2-Dichloropropane	40.4	2.00	ug/Kg wet	40.00		101	76-123	1	20		1
1,3,5-Trimethylbenzene	38.2	4.00	ug/Kg wet	40.00		96	71-128	2	20		1
1,3-Dichloropropane	41.7	2.00	ug/Kg wet	40.00		104	77-121	0.6	20		1
1-Butanol	423	200	ug/Kg wet	400.0		106	70-130	0.9	20		1
2,2-Dichloropropane	35.2	2.00	ug/Kg wet	40.00		88	67-133	3	20		1
2-Butanone	128	28.0	ug/Kg wet	140.0		91	66-147	10	20		1
2-Chlorotoluene	37.1	4.00	ug/Kg wet	40.00		93	75-122	3	20		1
2-Hexanone	154	28.0	ug/Kg wet	140.0		110	60-145	14	20		1
4-Chlorotoluene	38.2	4.00	ug/Kg wet	40.00		96	72-124	4	20		1
4-Isopropyltoluene	37.8	8.00	ug/Kg wet	40.00		94	73-127	3	20		1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast
CHW8271N
Work Order: 20H0681

Report Date: 05/07/2021
Matrix: Solid

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0H0766 - SW5035 (Continued)**LCS Dup (B0H0766-BSD1)** (Continued)

Prepared: 08/23/2020 12:43 Analyzed: 08/23/2020 14:58

4-Methyl-2-pentanone	141	28.0	ug/Kg wet	140.0		101	65-135	7	20		1
Acetone	134	70.0	ug/Kg wet	140.0		96	36-164	14	20		1
Benzene	37.8	2.00	ug/Kg wet	40.00		94	77-121	0.1	20		1
Bromobenzene	36.8	4.00	ug/Kg wet	40.00		92	78-121	2	20		1
Bromochloromethane	38.4	4.00	ug/Kg wet	40.00		96	78-125	5	20		1
Bromodichloromethane	37.2	2.00	ug/Kg wet	40.00		93	75-127	1	20		1
Bromoform	39.3	4.00	ug/Kg wet	40.00		98	67-132	0.6	20		1
Bromomethane	35.2	20.0	ug/Kg wet	40.00		88	53-143	6	20		1
Carbon disulfide	32.9	4.00	ug/Kg wet	40.00		82	63-132	4	20		1
Carbon tetrachloride	40.9	2.00	ug/Kg wet	40.00		102	70-135	0.8	20		1
Chlorobenzene	38.7	2.00	ug/Kg wet	40.00		97	73-123	1	20		1
Chloroethane	42.5	8.00	ug/Kg wet	40.00		106	59-139	4	20		1
Chloroform	37.6	4.00	ug/Kg wet	40.00		94	73-127	5	20		1
Chloromethane	48.4	8.00	ug/Kg wet	40.00		121	50-136	2	20		1
cis-1,2-Dichloroethene	36.1	4.00	ug/Kg wet	40.00		90	77-123	4	20		1
cis-1,3-Dichloropropene	36.5	4.00	ug/Kg wet	40.00		91	74-126	1	20		1
Dibromochloromethane	39.1	2.00	ug/Kg wet	40.00		98	74-126	0.3	20		1
Dibromomethane	43.6	2.00	ug/Kg wet	40.00		109	78-125	1	20		1
Dichlorodifluoromethane	51.2	2.00	ug/Kg wet	40.00		128	29-149	2	20		1
Ethylbenzene	39.0	8.00	ug/Kg wet	40.00		97	76-122	2	20		1
Isopropylbenzene	36.7	4.00	ug/Kg wet	40.00		92	68-134	3	20		1
m,p-Xylene	77.7	8.00	ug/Kg wet	80.00		97	77-124	2	20		1
Methyl tert-butyl ether	36.5	2.00	ug/Kg wet	40.00		91	73-118	6	20		1
Methylene chloride	43.6	8.00	ug/Kg wet	40.00		109	70-128	6	20		1
n-Butylbenzene	37.7	4.00	ug/Kg wet	40.00		94	70-128	1	20		1
n-Propylbenzene	36.5	4.00	ug/Kg wet	40.00		91	73-125	2	20		1
o-Xylene	36.8	8.00	ug/Kg wet	40.00		92	77-123	3	20		1
sec-Butylbenzene	36.7	4.00	ug/Kg wet	40.00		92	73-126	0.3	20		1
Styrene	38.0	8.00	ug/Kg wet	40.00		95	76-124	0.3	20		1
tert-Butylbenzene	37.8	8.00	ug/Kg wet	40.00		94	73-125	3	20		1
Tetrachloroethene	39.9	4.00	ug/Kg wet	40.00		100	73-125	7	20		1
Toluene	37.2	2.00	ug/Kg wet	40.00		93	77-121	0.7	20		1
trans-1,2-Dichloroethene	36.0	4.00	ug/Kg wet	40.00		90	74-125	3	20		1
trans-1,3-Dichloropropene	35.3	4.00	ug/Kg wet	40.00		88	71-130	3	20		1
Trichloroethene	37.5	2.00	ug/Kg wet	40.00		94	72-126	3	20		1
Trichlorofluoromethane	40.6	2.00	ug/Kg wet	40.00		102	62-140	6	20		1
Vinyl acetate	39.9	20.0	ug/Kg wet	40.00		100	50-151	6	20		1
Vinyl chloride	43.6	4.00	ug/Kg wet	40.00		109	56-135	6	20		1
Xylenes, Total	114	12.0	ug/Kg wet	120.0		95	78-124	0.7	20		1
1,3-Dichloropropene, Total	71.8	8.00	ug/Kg wet	80.00		90	77-126	2	20		1
Surrogate: Dibromofluoromethane	19.1		ug/Kg	20.00		96	86-150				1
Surrogate: 1,2-Dichloroethane-d4	20.2		ug/Kg	20.00		101	89-150				1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast
CHW8271N
Work Order: 20H0681

Report Date: 05/07/2021
Matrix: Solid

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0H0766 - SW5035 (Continued)**LCS Dup (B0H0766-BSD1) (Continued)**

Prepared: 08/23/2020 12:43 Analyzed: 08/23/2020 14:58

Surrogate: Fluorobenzene	18.9		ug/Kg	20.00		95	88-111				1
Surrogate: Toluene-d8	19.7		ug/Kg	20.00		99	66-113				1
Surrogate: 4-Bromofluorobenzene	9.85		ug/Kg	10.00		98	82-137				1
Surrogate: 1,2-Dichlorobenzene-d4	19.5		ug/Kg	20.00		98	77-142				1

Batch: B0H0786 - SW5035**Blank (B0H0786-BLK1)**

Prepared: 08/23/2020 12:43 Analyzed: 08/23/2020 16:02

1,1,1-Trichloroethane	<2.00	4.00	ug/Kg wet								1
Trichloroethene	<2.00	4.00	ug/Kg wet								1
Surrogate: Dibromofluoromethane	17.6		ug/Kg	20.00		88	84-150				1
Surrogate: 1,2-Dichloroethane-d4	19.9		ug/Kg	20.00		100	72-150				1
Surrogate: Fluorobenzene	19.0		ug/Kg	20.00		95	87-109				1
Surrogate: Toluene-d8	19.2		ug/Kg	20.00		96	72-107				1
Surrogate: 4-Bromofluorobenzene	10.1		ug/Kg	10.00		101	80-126				1
Surrogate: 1,2-Dichlorobenzene-d4	20.4		ug/Kg	20.00		102	84-138				1

LCS (B0H0786-BS1)

Prepared: 08/23/2020 12:43 Analyzed: 08/23/2020 14:33

1,1,1-Trichloroethane	34.1	4.00	ug/Kg wet	40.00		85	65-127				1
Trichloroethene	38.6	4.00	ug/Kg wet	40.00		97	77-125				1
Surrogate: Dibromofluoromethane	17.8		ug/Kg	20.00		89	84-150				1
Surrogate: 1,2-Dichloroethane-d4	18.9		ug/Kg	20.00		94	72-150				1
Surrogate: Fluorobenzene	19.3		ug/Kg	20.00		97	87-109				1
Surrogate: Toluene-d8	19.2		ug/Kg	20.00		96	72-107				1
Surrogate: 4-Bromofluorobenzene	9.39		ug/Kg	10.00		94	80-126				1
Surrogate: 1,2-Dichlorobenzene-d4	19.4		ug/Kg	20.00		97	84-138				1

LCS Dup (B0H0786-BSD1)

Prepared: 08/23/2020 12:43 Analyzed: 08/23/2020 14:58

1,1,1-Trichloroethane	36.1	4.00	ug/Kg wet	40.00		90	65-127	6	20		1
Trichloroethene	37.5	4.00	ug/Kg wet	40.00		94	77-125	3	20		1
Surrogate: Dibromofluoromethane	19.1		ug/Kg	20.00		96	84-150				1
Surrogate: 1,2-Dichloroethane-d4	20.2		ug/Kg	20.00		101	72-150				1
Surrogate: Fluorobenzene	18.9		ug/Kg	20.00		95	87-109				1
Surrogate: Toluene-d8	19.7		ug/Kg	20.00		99	72-107				1
Surrogate: 4-Bromofluorobenzene	9.85		ug/Kg	10.00		98	80-126				1
Surrogate: 1,2-Dichlorobenzene-d4	19.5		ug/Kg	20.00		98	84-138				1

Batch: B0H0831 - SW5035**Blank (B0H0831-BLK1)**

Prepared: 08/26/2020 14:00 Analyzed: 08/26/2020 16:34

cis-1,2-Dichloroethene	<2.00	4.00	ug/Kg wet								1
Surrogate: Dibromofluoromethane	17.8		ug/Kg	20.00		89	84-150				1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0681

Report Date: 05/07/2021
Matrix: Solid

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0H0831 - SW5035 (Continued)**Blank (B0H0831-BLK1) (Continued)**

Prepared: 08/26/2020 14:00 Analyzed: 08/26/2020 16:34

Surrogate: 1,2-Dichloroethane-d4	19.6		ug/Kg	20.00		98	72-150				1
Surrogate: Fluorobenzene	19.0		ug/Kg	20.00		95	87-109				1
Surrogate: Toluene-d8	19.5		ug/Kg	20.00		98	72-107				1
Surrogate: 4-Bromofluorobenzene	9.87		ug/Kg	10.00		99	80-126				1
Surrogate: 1,2-Dichlorobenzene-d4	20.5		ug/Kg	20.00		102	84-138				1

LCS (B0H0831-BS1)

Prepared: 08/26/2020 14:00 Analyzed: 08/26/2020 15:20

cis-1,2-Dichloroethene	37.7	4.00	ug/Kg wet	40.00		94	77-123				1
Surrogate: Dibromofluoromethane	18.6		ug/Kg	20.00		93	84-150				1
Surrogate: 1,2-Dichloroethane-d4	19.1		ug/Kg	20.00		96	72-150				1
Surrogate: Fluorobenzene	18.9		ug/Kg	20.00		95	87-109				1
Surrogate: Toluene-d8	19.0		ug/Kg	20.00		95	72-107				1
Surrogate: 4-Bromofluorobenzene	9.47		ug/Kg	10.00		95	80-126				1
Surrogate: 1,2-Dichlorobenzene-d4	19.8		ug/Kg	20.00		99	84-138				1

LCS Dup (B0H0831-BSD1)

Prepared: 08/26/2020 14:00 Analyzed: 08/26/2020 15:44

cis-1,2-Dichloroethene	38.4	4.00	ug/Kg wet	40.00		96	77-123	2	20		1
Surrogate: Dibromofluoromethane	19.0		ug/Kg	20.00		95	84-150				1
Surrogate: 1,2-Dichloroethane-d4	19.5		ug/Kg	20.00		98	72-150				1
Surrogate: Fluorobenzene	19.2		ug/Kg	20.00		96	87-109				1
Surrogate: Toluene-d8	19.4		ug/Kg	20.00		97	72-107				1
Surrogate: 4-Bromofluorobenzene	9.87		ug/Kg	10.00		99	80-126				1
Surrogate: 1,2-Dichlorobenzene-d4	20.1		ug/Kg	20.00		100	84-138				1

Certified Analyses included in this Report

Analyte	CAS #	Certifications
SM2540G in Solid		
Total Solids	Moist	WDNR,DoD
SW8260B in Solid		
1,1,1,2-Tetrachloroethane	630-20-6	WDNR,DoD,ILEPA
1,1,1-Trichloroethane	71-55-6	AKDEC,WDNR,DoD,ILEPA
1,1,1-Trichloroethane	71-55-6	AKDEC,WDNR,DoD,ILEPA
1,1,2,2-Tetrachloroethane	79-34-5	AKDEC,WDNR,DoD,ILEPA
1,1,2-Trichloroethane	79-00-5	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloroethane	75-34-3	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloroethene	75-35-4	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloropropene	563-58-6	WDNR,DoD,ILEPA
1,2,3-Trichlorobenzene	87-61-6	WDNR,DoD,ILEPA
1,2,3-Trichloropropane	96-18-4	AKDEC,WDNR,DoD,ILEPA
1,2,4-Trichlorobenzene	120-82-1	WDNR,DoD,ILEPA
1,2,4-Trimethylbenzene	95-63-6	WDNR,DoD,ILEPA
1,2-Dibromo-3-chloropropane	96-12-8	AKDEC,WDNR,DoD,ILEPA
1,2-Dibromoethane	106-93-4	AKDEC,WDNR,DoD,ILEPA
1,2-Dichloroethane	107-06-2	AKDEC,WDNR,DoD,ILEPA
1,2-Dichloropropane	78-87-5	AKDEC,WDNR,DoD,ILEPA
1,3,5-Trimethylbenzene	108-67-8	WDNR,DoD,ILEPA
1,3-Dichloropropane	142-28-9	WDNR,DoD,ILEPA
2,2-Dichloropropane	594-20-7	WDNR,DoD,ILEPA
2-Butanone	78-93-3	WDNR,DoD,ILEPA
2-Chlorotoluene	95-49-8	WDNR,DoD,ILEPA
2-Hexanone	591-78-6	WDNR,DoD,ILEPA
4-Chlorotoluene	106-43-4	WDNR,DoD,ILEPA
4-Isopropyltoluene	99-87-6	WDNR,DoD,ILEPA
4-Methyl-2-pentanone	108-10-1	WDNR,DoD,ILEPA
Acetone	67-64-1	WDNR,DoD,ILEPA
Benzene	71-43-2	WDNR,DoD,ILEPA
Bromobenzene	108-86-1	WDNR,DoD,ILEPA
Bromochloromethane	74-97-5	WDNR,DoD,ILEPA
Bromodichloromethane	75-27-4	AKDEC,WDNR,DoD,ILEPA
Bromoform	75-25-2	AKDEC,WDNR,DoD,ILEPA
Bromomethane	74-83-9	AKDEC,WDNR,DoD,ILEPA
Carbon disulfide	75-15-0	WDNR,DoD,ILEPA
Carbon tetrachloride	56-23-5	AKDEC,WDNR,DoD,ILEPA
Chlorobenzene	108-90-7	AKDEC,WDNR,DoD,ILEPA
Chloroethane	75-00-3	WDNR,DoD,ILEPA
Chloroform	67-66-3	AKDEC,WDNR,DoD,ILEPA
Chloromethane	74-87-3	AKDEC,WDNR,DoD,ILEPA

Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW8260B in Solid (Continued)		
cis-1,2-Dichloroethene	156-59-2	WDNR,DoD,ILEPA
cis-1,2-Dichloroethene	156-59-2	WDNR,DoD,ILEPA
cis-1,3-Dichloropropene	10061-01-5	AKDEC,WDNR,DoD,ILEPA
Dibromochloromethane	124-48-1	AKDEC,WDNR,DoD,ILEPA
Dibromomethane	74-95-3	WDNR,DoD,ILEPA
Dichlorodifluoromethane	75-71-8	WDNR,DoD,ILEPA
Ethylbenzene	100-41-4	WDNR,DoD,ILEPA
Isopropylbenzene	98-82-8	WDNR,DoD,ILEPA
m,p-Xylene	179601-23-1	WDNR,DoD,ILEPA
Methyl tert-butyl ether	1634-04-4	WDNR,DoD,ILEPA
Methylene chloride	75-09-2	AKDEC,WDNR,DoD,ILEPA
n-Butylbenzene	104-51-8	WDNR,DoD,ILEPA
n-Propylbenzene	103-65-1	WDNR,DoD,ILEPA
o-Xylene	95-47-6	WDNR,DoD,ILEPA
sec-Butylbenzene	135-98-8	WDNR,DoD,ILEPA
Styrene	100-42-5	WDNR,DoD
tert-Butylbenzene	98-06-6	WDNR,DoD,ILEPA
Tetrachloroethene	127-18-4	WDNR,DoD,ILEPA
Toluene	108-88-3	AKDEC,WDNR,DoD,ILEPA
trans-1,2-Dichloroethene	156-60-5	AKDEC,WDNR,DoD,ILEPA
trans-1,3-Dichloropropene	10061-02-6	AKDEC,WDNR,DoD,ILEPA
Trichloroethene	79-01-6	AKDEC,WDNR,DoD,ILEPA
Trichloroethene	79-01-6	AKDEC,WDNR,DoD,ILEPA
Trichlorofluoromethane	75-69-4	AKDEC,WDNR,DoD,ILEPA
Vinyl chloride	75-01-4	AKDEC,WDNR,DoD,ILEPA
Xylenes, Total	1330-20-7	WDNR,DoD,ILEPA
1,3-Dichloropropene, Total	542-75-6	AKDEC,WDNR,DoD,ILEPA

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	17-011	05/31/2022
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L18-184-R1	03/31/2021
DoD	Department of Defense, Accredited by PJLA	L18-183-R3	03/31/2022
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	1002562020-3	07/27/2021
ISO	ISO/IEC 17025, Accredited by PJLA	L18-184-R1	03/31/2022
TX	Texas Commission of Environmental Quality	T104704554-20-5	10/31/2021
WA	Washington State Department of Ecology	C1057	01/05/2022
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2021

Qualifiers and Definitions

Item	Description
Q	One or more quality control results were outside of the acceptance limits (e.g. LCS recovery, surrogate spike recovery, or CCV recovery).
S	The quality control sample recovery is outside of the laboratory control limits.
%Rec	Percent Recovery
MDL	In the state of Wisconsin MDL is equivalent to LOD; in all other applications MDL is equivalent to MDL. In the state of Wisconsin the Reporting Limit is equivalent to LOQ.



ENVIRONMENTAL MONITORING TECHNOLOGIES

509 N. 3rd Avenue
Des Plaines, IL 60016



20H0681
PM: Nicole Ryan
Geosyntec DoD
Milw Die Cast

Chain of Custody Record

566
67-6735
com

TURNAROUND TIME:
 RUSH
 _____ day turnaround
 ROUTINE

Due Date: _____ COC #: **237563**

Company: Geosyntec Consultants
 Address: 10600 North Port Washington Road
Suite 100
Mequon, WI 53092
 Phone #: (262) 834-0228 Fax #: (____) _____
 P.O. #: _____ Proj. #: CHW8271N
 Client Contact: Jeremiah Johnson
 Project ID / Location: MDCCL / Milwaukee, WI

Sample Type:
 1. Waste Water 4. Sludge 7. Groundwater (filtered)
 2. Drinking Water 5. Oil 8. Other
 3. Soil 6. Groundwater _____

Container Type:
 P - Plastic V - VOC Vial O - Other
 G - Glass B - Tedlar Bag _____

Preservative:
 1. None 4. NaOH 7. Zn Ace
 2. H2SO4 5. HCl 8. Other
 3. HNO3 6. MeOH NaHSO4

Analyses

EMT
USE
ONLY

EMT
WORKORDER
ZOH0681

Sample I.D.	Sample Type	Container			Sampling					Preservation		VOC	EMT USE ONLY
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab		
PZ-1(6-8)	3	40ml 202	V/G	3/1	CK	8-20	0940	/	/	6/8/1		x	O1A-D
PZ-2(6-8)						8/8/20	1250	/	/				O2A-D
MW-3(8-10)						8/17/20	1355	/	/				O3A-D
MW-4(8-10)						8/18/20	1050	/	/				O4A-D
MW-7(8-9)						8/19/20	1040	/	/				O5A-D
MW-8(2-4)						8/20/20	1525	/	/				O6A-D
MW-12(6-8)						8/19/20	1405	/	/				O7A-D
MW-13(10-12)						8/19/20	1235	/	/				O8A-D
END 8/21/20													
CK													

Relinquished By: <u>Cody Ann Kog</u>	Date: <u>08-21-2020</u> Time: <u>11:30</u>	Received By: <u>[Signature]</u>	Date: <u>08-21-20</u> Time: <u>11:30</u>	EMT USE ONLY	<input checked="" type="checkbox"/> SAMPLE RECEIVED ON ICE <input type="checkbox"/> TEMPERATURE <u>1.4</u> EMT SAMPLE RETURN POLICY ON BACK
Relinquished By: <u>[Signature]</u>	Date: <u>08-21-20</u> Time: <u>15:20</u>	Received By:	Date: - - Time: :	Client Code: EMT Project I.D.	
Relinquished By:	Date: - - Time: :	Received For Lab By: <u>Aqnescha Zabawa</u>	Date: <u>08-21-2020</u> Time: <u>15:20</u>	Jar Lot No.	

SPECIAL INSTRUCTIONS:

Sample Receipt Checklist

Work Order: 20H0681

Printed: 8/21/2020 4:39:24PM

Client: Geosyntec DoD
Project: Milw Die Cast

Date Due: Friday, August 28, 2020

Received By: Agnieszka B. Zabawa
Logged In By: Agnieszka B. Zabawa

Date Received: 08/21/20 15:20
Date Logged In: 08/21/20 16:39

Sample Temperature at Receipt:	1.4°C
How were samples received?	EMT
Custody Seals Present	No
Custody Seals Intact	NA
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	No

Comments

ABZ

08/21/2020

Memorandum

Date: May 7, 2021
To: Jeremiah Johnson
From: Jennifer Pinion
CC: J. Caprio
Subject: Stage 2A Data Validation – Level II Data Deliverable – Environmental Monitoring and Technologies Work Order # 20H0681

SITE: Milwaukee Die Casting Company Site, Milwaukee, WI

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of eight soil samples, collected between August 17 and 20, 2020, during a Milwaukee Die Casting Company Site sampling event. The analyses were performed by Environmental Monitoring and Technologies (EMT), Inc, Des Plaines, Illinois. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by United States (US) Environmental Protection Agency (EPA) Methods 5035/8260B

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the pertinent methods referenced by the data package, professional and technical judgment and the following documents:

- Updated Site Investigation Work Plan, Milwaukee Die Casting Company Site, 4132 North Holton Street. Milwaukee, Wisconsin, November 12, 2019
- US EPA National Functional Guidelines for Organic Superfund Methods Data Review, November 2020 (EPA 540-R-20-005)

The following samples were analyzed in the data set and validated at a Stage 2A level:

Laboratory IDs	Client IDs
20H0681-01	PZ-1(6-8)
20H0681-02	PZ-2(6-8)
20H0681-03	MW-3 (8-10)
20H0681-04	MW-4 (8-10)

Laboratory IDs	Client IDs
20H0681-05	MW-7 (8-9)
20H0681-06	MW-8 (2-4)
20H0681-07	MW-12 (6-8)
20H0681-08	MW-13 (10-12)

The samples were received at the laboratory at 1.4°C within the temperature criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The laboratory report was revised on 5/6/2021 to correct the client name to Geosyntec Consultants.

The total solids data, used to report the sample on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs per US EPA Methods 5035/8260B

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine the impact on data quality and usability.

- ⊗ Overall Assessment
- ✓ Holding Times and Preservation
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Trip Blank
- ✓ Surrogates
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

1.1.1 Completeness

The VOC data reported in this package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for the sample set is 100%.

1.1.2 Analysis Anomaly

Additional information from the laboratory indicated that the percent difference (%D) for bromomethane in the continuing calibration verification (CCV) in batch B0H0766 was outside the laboratory acceptance limits with low bias. Therefore, the non-detect results of bromomethane in the associated samples were UJ qualified as estimated less than the limits of detection (LODs).

Sample ID	Compound	Laboratory Result (µg/Kg dry)	Laboratory Flag	Validation Result (µg/Kg dry)	Validation Qualifier*	Reason Code**
PZ-1(6-8)	Bromomethane	3.57	U, Q	3.57	UJ	9
PZ-2(6-8)	Bromomethane	4.88	U, Q	4.88	UJ	9
MW-3 (8-10)	Bromomethane	4.38	U, Q	4.38	UJ	9
MW-4 (8-10)	Bromomethane	3.64	U, Q	3.64	UJ	9
MW-7 (8-9)	Bromomethane	3.51	U, Q	3.51	UJ	9
MW-8 (2-4)	Bromomethane	4.25	U, Q	4.25	UJ	9
MW-12 (6-8)	Bromomethane	3.16	U, Q	3.16	UJ	9
MW-13 (10-12)	Bromomethane	4.25	U, Q	4.25	UJ	9

µg/Kg dry - microgram per kilogram on a dry weight basis

U-not detected at a concentration greater than or equal to the LOD

Q-laboratory flag indicating one or more quality control results were outside of the acceptance limits

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times and Preservation

The holding time for the VOC analysis of a solid sample is 14 days from collection to analysis. The holding times were met for the sample analysis.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches B0H0766, B0H0786 and B0H0831). VOCs were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCS/LCS duplicate (LCSD) pairs were reported. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.6 Trip Blank

Trip blanks were not submitted with the sample set.

1.7 Surrogates

The surrogate recoveries were within the laboratory specified acceptance criteria.

1.8 Sensitivity

The samples were assessed to the MDLs; however, the non-detects were reported as not detected at the LODs. Elevated non-detect results were not reported.

1.9 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
 Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Analytical Report

Jeremiah Johnson
Geosyntec Consultants
10600 N. Port Washington Rd.
Mequon, WI 53092

September 03, 2020

Work Order: 20H0875

RE: Milw Die Cast
CHW8271N

Dear Jeremiah Johnson:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,



Tim Witrzek For Nicole Ryan
Federal Project Manager
847.967.6666
nryan@emt.com

Approved for release: 9/3/2020 1:19:36PM

Approved by,



Nathan Fey
Laboratory Operations Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Wisconsin Dept of Natural Resources, Cert No. 999888890

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Sample Summary

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-5 (6-8)	20H0875-01	Soil	08/24/20 14:35	08/28/20 17:32
MW-6 (8-10)	20H0875-02	Soil	08/26/20 12:40	08/28/20 17:32
MW-9 (8-10)	20H0875-03	Soil	08/26/20 14:40	08/28/20 17:32
MW-10 (8-10)	20H0875-04	Soil	08/27/20 10:50	08/28/20 17:32
PZ-10 (12-14)	20H0875-05	Soil	08/24/20 12:35	08/28/20 17:32
MW-14 (4-6)	20H0875-06	Soil	08/26/20 10:55	08/28/20 17:32

Case Narrative

Client: Geosyntec Consultants

Date: 05/07/2021

Project: Milw Die Cast
CHW8271N

Work Order: 20H0875

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 20H0875

The samples were received on 08/28/20 17:32. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was:

<u>Cooler</u>	<u>Temp C°</u>
Default Cooler	2.2

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Client Sample Results

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0875

Client Sample ID: MW-5 (6-8)
Report Date: 05/07/2021
Collection Date: 08/24/2020 14:35
Matrix: Soil
Lab ID: 20H0875-01

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	94.4	0.100		% (Percent)	0.0240	08/31/20 05:42	B0H0910	MKP	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5035										
1,1,1,2-Tetrachloroethane	< 0.424	0.849		ug/Kg dry	0.172	08/28/20 20:10	B0H0903	KS1	1	
1,1,1-Trichloroethane	< 0.424	0.849		ug/Kg dry	0.174	08/28/20 20:10	B0H0903	KS1	1	
1,1,2,2-Tetrachloroethane	< 0.424	0.849		ug/Kg dry	0.151	08/28/20 20:10	B0H0903	KS1	1	
1,1,2-Trichloroethane	< 0.424	0.849		ug/Kg dry	0.186	08/28/20 20:10	B0H0903	KS1	1	
1,1-Dichloroethane	< 0.849	1.70		ug/Kg dry	0.230	08/28/20 20:10	B0H0903	KS1	1	
1,1-Dichloroethene	< 0.424	0.849		ug/Kg dry	0.184	08/28/20 20:10	B0H0903	KS1	1	
1,1-Dichloropropene	< 0.849	1.70		ug/Kg dry	0.240	08/28/20 20:10	B0H0903	KS1	1	
1,2,3-Trichlorobenzene	< 1.70	3.39		ug/Kg dry	0.496	08/28/20 20:10	B0H0903	KS1	1	
1,2,3-Trichloropropane	< 0.849	1.70		ug/Kg dry	0.208	08/28/20 20:10	B0H0903	KS1	1	
1,2,4-Trichlorobenzene	< 1.70	3.39		ug/Kg dry	0.454	08/28/20 20:10	B0H0903	KS1	1	
1,2,4-Trimethylbenzene	< 1.70	3.39		ug/Kg dry	0.457	08/28/20 20:10	B0H0903	KS1	1	
1,2-Dibromo-3-chloropropane	< 1.70	3.39		ug/Kg dry	0.704	08/28/20 20:10	B0H0903	KS1	1	
1,2-Dibromoethane	< 0.424	0.849		ug/Kg dry	0.115	08/28/20 20:10	B0H0903	KS1	1	
1,2-Dichloroethane	< 0.424	0.849		ug/Kg dry	0.174	08/28/20 20:10	B0H0903	KS1	1	
1,2-Dichloropropane	< 0.424	0.849		ug/Kg dry	0.205	08/28/20 20:10	B0H0903	KS1	1	
1,3,5-Trimethylbenzene	< 0.849	1.70		ug/Kg dry	0.424	08/28/20 20:10	B0H0903	KS1	1	
1,3-Dichloropropane	< 0.424	0.849		ug/Kg dry	0.190	08/28/20 20:10	B0H0903	KS1	1	
2,2-Dichloropropane	< 0.424	0.849		ug/Kg dry	0.140	08/28/20 20:10	B0H0903	KS1	1	
2-Butanone	< 5.94	11.9		ug/Kg dry	2.89	08/28/20 20:10	B0H0903	KS1	1	
2-Chlorotoluene	< 0.849	1.70		ug/Kg dry	0.372	08/28/20 20:10	B0H0903	KS1	1	
2-Hexanone	< 5.94	11.9		ug/Kg dry	2.25	08/28/20 20:10	B0H0903	KS1	1	
4-Chlorotoluene	< 0.849	1.70		ug/Kg dry	0.372	08/28/20 20:10	B0H0903	KS1	1	
4-Isopropyltoluene	< 1.70	3.39		ug/Kg dry	0.497	08/28/20 20:10	B0H0903	KS1	1	
4-Methyl-2-pentanone	< 5.94	11.9		ug/Kg dry	1.73	08/28/20 20:10	B0H0903	KS1	1	
Acetone	< 11.9	29.7		ug/Kg dry	5.13	08/28/20 20:10	B0H0903	KS1	1	
Benzene	< 0.424	0.849		ug/Kg dry	0.122	08/28/20 20:10	B0H0903	KS1	1	
Bromobenzene	< 0.849	1.70		ug/Kg dry	0.239	08/28/20 20:10	B0H0903	KS1	1	
Bromochloromethane	< 0.849	1.70		ug/Kg dry	0.298	08/28/20 20:10	B0H0903	KS1	1	
Bromodichloromethane	< 0.424	0.849		ug/Kg dry	0.204	08/28/20 20:10	B0H0903	KS1	1	
Bromoform	< 0.849	1.70		ug/Kg dry	0.267	08/28/20 20:10	B0H0903	KS1	1	
Bromomethane	< 3.39	8.49		ug/Kg dry	1.02	08/28/20 20:10	B0H0903	KS1	1	
Carbon disulfide	< 0.849	1.70		ug/Kg dry	0.255	08/28/20 20:10	B0H0903	KS1	1	
Carbon tetrachloride	< 0.255	0.849		ug/Kg dry	0.0961	08/28/20 20:10	B0H0903	KS1	1	
Chlorobenzene	< 0.424	0.849		ug/Kg dry	0.110	08/28/20 20:10	B0H0903	KS1	1	
Chloroethane	< 1.70	3.39		ug/Kg dry	0.600	08/28/20 20:10	B0H0903	KS1	1	
Chloroform	< 0.849	1.70		ug/Kg dry	0.310	08/28/20 20:10	B0H0903	KS1	1	
Chloromethane	< 1.70	3.39		ug/Kg dry	0.620	08/28/20 20:10	B0H0903	KS1	1	
cis-1,2-Dichloroethene	5.87	1.70		ug/Kg dry	0.242	08/28/20 20:10	B0H0903	KS1	1	
cis-1,3-Dichloropropene	< 0.849	1.70		ug/Kg dry	0.294	08/28/20 20:10	B0H0903	KS1	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0875

Client Sample ID: MW-5 (6-8)
Report Date: 05/07/2021
Collection Date: 08/24/2020 14:35
Matrix: Soil
Lab ID: 20H0875-01 (Continued)

Analyses	EMT Reporting			MDL	Date/Time Analyzed	Batch	Analyst	DF
	Result	Limit	Qual Units					
Volatile Organic Compounds by GC/MS (Continued)								
Method: SW8260B / SW5035 (Continued)								
Dibromochloromethane	< 0.424	0.849	ug/Kg dry	0.202	08/28/20 20:10	B0H0903	KS1	1
Dibromomethane	< 0.424	0.849	ug/Kg dry	0.155	08/28/20 20:10	B0H0903	KS1	1
Dichlorodifluoromethane	< 0.424	0.849	ug/Kg dry	0.157	08/28/20 20:10	B0H0903	KS1	1
Ethylbenzene	< 1.70	3.39	ug/Kg dry	0.439	08/28/20 20:10	B0H0903	KS1	1
Isopropylbenzene	< 0.849	1.70	ug/Kg dry	0.422	08/28/20 20:10	B0H0903	KS1	1
m,p-Xylene	< 1.70	3.39	ug/Kg dry	0.687	08/28/20 20:10	B0H0903	KS1	1
Methyl tert-butyl ether	< 0.424	0.849	ug/Kg dry	0.142	08/28/20 20:10	B0H0903	KS1	1
Methylene chloride	< 1.70	3.39	ug/Kg dry	0.715	08/28/20 20:10	B0H0903	KS1	1
n-Butylbenzene	< 0.849	1.70	ug/Kg dry	0.412	08/28/20 20:10	B0H0903	KS1	1
n-Propylbenzene	< 0.849	1.70	ug/Kg dry	0.406	08/28/20 20:10	B0H0903	KS1	1
o-Xylene	< 1.70	3.39	ug/Kg dry	0.433	08/28/20 20:10	B0H0903	KS1	1
sec-Butylbenzene	< 0.849	1.70	ug/Kg dry	0.416	08/28/20 20:10	B0H0903	KS1	1
Styrene	< 1.70	3.39	ug/Kg dry	0.466	08/28/20 20:10	B0H0903	KS1	1
tert-Butylbenzene	< 1.70	3.39	ug/Kg dry	0.497	08/28/20 20:10	B0H0903	KS1	1
Tetrachloroethene	< 0.849	1.70	ug/Kg dry	0.248	08/28/20 20:10	B0H0903	KS1	1
Toluene	0.921	0.849	ug/Kg dry	0.153	08/28/20 20:10	B0H0903	KS1	1
trans-1,2-Dichloroethene	< 0.849	1.70	ug/Kg dry	0.393	08/28/20 20:10	B0H0903	KS1	1
trans-1,3-Dichloropropene	< 0.849	1.70	ug/Kg dry	0.347	08/28/20 20:10	B0H0903	KS1	1
Trichloroethene	5.57	0.849	ug/Kg dry	0.206	08/28/20 20:10	B0H0903	KS1	1
Trichlorofluoromethane	< 0.424	0.849	ug/Kg dry	0.176	08/28/20 20:10	B0H0903	KS1	1
Vinyl chloride	< 0.849	1.70	ug/Kg dry	0.303	08/28/20 20:10	B0H0903	KS1	1
Xylenes, Total	< 2.55	5.09	ug/Kg dry	1.09	08/28/20 20:10	B0H0903	KS1	1
1,3-Dichloropropene, Total	< 1.70	3.39	ug/Kg dry	0.629	08/28/20 20:10	B0H0903	KS1	1
<i>Surrogate: Dibromofluoromethane</i>			<i>Recovery: 90%</i>	<i>Limits: 86-150</i>	<i>08/28/20 20:10</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>			<i>Recovery: 118%</i>	<i>Limits: 89-150</i>	<i>08/28/20 20:10</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>			<i>Recovery: 96%</i>	<i>Limits: 88-111</i>	<i>08/28/20 20:10</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>			<i>Recovery: 93%</i>	<i>Limits: 66-113</i>	<i>08/28/20 20:10</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>			<i>Recovery: 109%</i>	<i>Limits: 82-137</i>	<i>08/28/20 20:10</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>			<i>Recovery: 105%</i>	<i>Limits: 77-142</i>	<i>08/28/20 20:10</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0875

Client Sample ID: MW-6 (8-10)
Report Date: 05/07/2021
Collection Date: 08/26/2020 12:40
Matrix: Soil
Lab ID: 20H0875-02

Analyses	Result	EMT		MDL	Date/Time Analyzed	Batch	Analyst	DF
		Reporting Limit	Qual Units					
Wet Chemistry								
Method: SM2540G								
Total Solids	84.2	0.100	% (Percent)	0.0240	08/31/20 05:44	B0H0910	MKP	1
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5035								
1,1,1,2-Tetrachloroethane	< 0.509	1.02	ug/Kg dry	0.206	08/28/20 20:35	B0H0903	KS1	1
1,1,1-Trichloroethane	1490	86.8	ug/Kg dry	14.8	08/28/20 23:02	B0H0930	WZZ	50
1,1,2,2-Tetrachloroethane	< 0.509	1.02	ug/Kg dry	0.181	08/28/20 20:35	B0H0903	KS1	1
1,1,2-Trichloroethane	< 0.509	1.02	ug/Kg dry	0.223	08/28/20 20:35	B0H0903	KS1	1
1,1-Dichloroethane	32.8	2.03	ug/Kg dry	0.276	08/28/20 20:35	B0H0903	KS1	1
1,1-Dichloroethene	3.40	1.02	ug/Kg dry	0.221	08/28/20 20:35	B0H0903	KS1	1
1,1-Dichloropropene	< 1.02	2.03	ug/Kg dry	0.288	08/28/20 20:35	B0H0903	KS1	1
1,2,3-Trichlorobenzene	< 2.03	4.07	ug/Kg dry	0.595	08/28/20 20:35	B0H0903	KS1	1
1,2,3-Trichloropropane	< 1.02	2.03	ug/Kg dry	0.249	08/28/20 20:35	B0H0903	KS1	1
1,2,4-Trichlorobenzene	< 2.03	4.07	ug/Kg dry	0.544	08/28/20 20:35	B0H0903	KS1	1
1,2,4-Trimethylbenzene	< 2.03	4.07	ug/Kg dry	0.548	08/28/20 20:35	B0H0903	KS1	1
1,2-Dibromo-3-chloropropane	< 2.03	4.07	ug/Kg dry	0.844	08/28/20 20:35	B0H0903	KS1	1
1,2-Dibromoethane	< 0.509	1.02	ug/Kg dry	0.138	08/28/20 20:35	B0H0903	KS1	1
1,2-Dichloroethane	< 0.509	1.02	ug/Kg dry	0.209	08/28/20 20:35	B0H0903	KS1	1
1,2-Dichloropropane	< 0.509	1.02	ug/Kg dry	0.246	08/28/20 20:35	B0H0903	KS1	1
1,3,5-Trimethylbenzene	< 1.02	2.03	ug/Kg dry	0.508	08/28/20 20:35	B0H0903	KS1	1
1,3-Dichloropropane	< 0.509	1.02	ug/Kg dry	0.228	08/28/20 20:35	B0H0903	KS1	1
2,2-Dichloropropane	< 0.509	1.02	ug/Kg dry	0.168	08/28/20 20:35	B0H0903	KS1	1
2-Butanone	< 7.12	14.2	ug/Kg dry	3.46	08/28/20 20:35	B0H0903	KS1	1
2-Chlorotoluene	< 1.02	2.03	ug/Kg dry	0.446	08/28/20 20:35	B0H0903	KS1	1
2-Hexanone	< 7.12	14.2	ug/Kg dry	2.70	08/28/20 20:35	B0H0903	KS1	1
4-Chlorotoluene	< 1.02	2.03	ug/Kg dry	0.446	08/28/20 20:35	B0H0903	KS1	1
4-Isopropyltoluene	< 2.03	4.07	ug/Kg dry	0.596	08/28/20 20:35	B0H0903	KS1	1
4-Methyl-2-pentanone	< 7.12	14.2	ug/Kg dry	2.07	08/28/20 20:35	B0H0903	KS1	1
Acetone	< 14.2	35.6	ug/Kg dry	6.15	08/28/20 20:35	B0H0903	KS1	1
Benzene	< 0.509	1.02	ug/Kg dry	0.147	08/28/20 20:35	B0H0903	KS1	1
Bromobenzene	< 1.02	2.03	ug/Kg dry	0.286	08/28/20 20:35	B0H0903	KS1	1
Bromochloromethane	< 1.02	2.03	ug/Kg dry	0.357	08/28/20 20:35	B0H0903	KS1	1
Bromodichloromethane	< 0.509	1.02	ug/Kg dry	0.245	08/28/20 20:35	B0H0903	KS1	1
Bromoform	< 1.02	2.03	ug/Kg dry	0.320	08/28/20 20:35	B0H0903	KS1	1
Bromomethane	< 4.07	10.2	ug/Kg dry	1.22	08/28/20 20:35	B0H0903	KS1	1
Carbon disulfide	< 1.02	2.03	ug/Kg dry	0.306	08/28/20 20:35	B0H0903	KS1	1
Carbon tetrachloride	< 0.305	1.02	ug/Kg dry	0.115	08/28/20 20:35	B0H0903	KS1	1
Chlorobenzene	< 0.509	1.02	ug/Kg dry	0.132	08/28/20 20:35	B0H0903	KS1	1
Chloroethane	< 2.03	4.07	ug/Kg dry	0.719	08/28/20 20:35	B0H0903	KS1	1
Chloroform	< 1.02	2.03	ug/Kg dry	0.372	08/28/20 20:35	B0H0903	KS1	1
Chloromethane	< 2.03	4.07	ug/Kg dry	0.743	08/28/20 20:35	B0H0903	KS1	1
cis-1,2-Dichloroethene	1260	86.8	ug/Kg dry	11.0	08/28/20 23:02	B0H0930	WZZ	50
cis-1,3-Dichloropropene	< 1.02	2.03	ug/Kg dry	0.352	08/28/20 20:35	B0H0903	KS1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0875

Client Sample ID: MW-6 (8-10)
Report Date: 05/07/2021
Collection Date: 08/26/2020 12:40
Matrix: Soil
Lab ID: 20H0875-02 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5035 (Continued)										
Dibromochloromethane	< 0.509	1.02		ug/Kg dry	0.242	08/28/20 20:35	B0H0903	KS1	1	
Dibromomethane	< 0.509	1.02		ug/Kg dry	0.186	08/28/20 20:35	B0H0903	KS1	1	
Dichlorodifluoromethane	< 0.509	1.02		ug/Kg dry	0.188	08/28/20 20:35	B0H0903	KS1	1	
Ethylbenzene	< 2.03	4.07		ug/Kg dry	0.526	08/28/20 20:35	B0H0903	KS1	1	
Isopropylbenzene	< 1.02	2.03		ug/Kg dry	0.505	08/28/20 20:35	B0H0903	KS1	1	
m,p-Xylene	< 2.03	4.07		ug/Kg dry	0.823	08/28/20 20:35	B0H0903	KS1	1	
Methyl tert-butyl ether	< 0.509	1.02		ug/Kg dry	0.170	08/28/20 20:35	B0H0903	KS1	1	
Methylene chloride	< 2.03	4.07		ug/Kg dry	0.857	08/28/20 20:35	B0H0903	KS1	1	
n-Butylbenzene	< 1.02	2.03		ug/Kg dry	0.493	08/28/20 20:35	B0H0903	KS1	1	
n-Propylbenzene	< 1.02	2.03		ug/Kg dry	0.487	08/28/20 20:35	B0H0903	KS1	1	
o-Xylene	< 2.03	4.07		ug/Kg dry	0.519	08/28/20 20:35	B0H0903	KS1	1	
sec-Butylbenzene	< 1.02	2.03		ug/Kg dry	0.499	08/28/20 20:35	B0H0903	KS1	1	
Styrene	< 2.03	4.07		ug/Kg dry	0.558	08/28/20 20:35	B0H0903	KS1	1	
tert-Butylbenzene	< 2.03	4.07		ug/Kg dry	0.596	08/28/20 20:35	B0H0903	KS1	1	
Tetrachloroethene	2.56	2.03		ug/Kg dry	0.297	08/28/20 20:35	B0H0903	KS1	1	
Toluene	1.26	1.02		ug/Kg dry	0.184	08/28/20 20:35	B0H0903	KS1	1	
trans-1,2-Dichloroethene	17.3	2.03		ug/Kg dry	0.471	08/28/20 20:35	B0H0903	KS1	1	
trans-1,3-Dichloropropene	< 1.02	2.03		ug/Kg dry	0.416	08/28/20 20:35	B0H0903	KS1	1	
Trichloroethene	1270	86.8		ug/Kg dry	12.3	08/28/20 23:02	B0H0930	WZZ	50	
Trichlorofluoromethane	< 0.509	1.02		ug/Kg dry	0.211	08/28/20 20:35	B0H0903	KS1	1	
Vinyl chloride	< 1.02	2.03		ug/Kg dry	0.363	08/28/20 20:35	B0H0903	KS1	1	
Xylenes, Total	< 3.05	6.10		ug/Kg dry	1.30	08/28/20 20:35	B0H0903	KS1	1	
1,3-Dichloropropene, Total	< 2.03	4.07		ug/Kg dry	0.754	08/28/20 20:35	B0H0903	KS1	1	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 95%</i>	<i>Limits: 86-150</i>	<i>08/28/20 20:35</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 114%</i>	<i>Limits: 89-150</i>	<i>08/28/20 20:35</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 90%</i>	<i>Limits: 88-111</i>	<i>08/28/20 20:35</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 98%</i>	<i>Limits: 66-113</i>	<i>08/28/20 20:35</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 116%</i>	<i>Limits: 82-137</i>	<i>08/28/20 20:35</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 106%</i>	<i>Limits: 77-142</i>	<i>08/28/20 20:35</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0875

Client Sample ID: MW-9 (8-10)
Report Date: 05/07/2021
Collection Date: 08/26/2020 14:40
Matrix: Soil
Lab ID: 20H0875-03

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	80.5	0.100		% (Percent)	0.0240	08/31/20 05:46	B0H0910	MKP	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5035										
1,1,1,2-Tetrachloroethane	< 0.572	1.14		ug/Kg dry	0.232	08/28/20 21:00	B0H0903	KS1	1	
1,1,1-Trichloroethane	< 0.572	1.14		ug/Kg dry	0.234	08/28/20 21:00	B0H0903	KS1	1	
1,1,2,2-Tetrachloroethane	< 0.572	1.14		ug/Kg dry	0.204	08/28/20 21:00	B0H0903	KS1	1	
1,1,2-Trichloroethane	< 0.572	1.14		ug/Kg dry	0.251	08/28/20 21:00	B0H0903	KS1	1	
1,1-Dichloroethane	< 1.14	2.29		ug/Kg dry	0.310	08/28/20 21:00	B0H0903	KS1	1	
1,1-Dichloroethene	< 0.572	1.14		ug/Kg dry	0.248	08/28/20 21:00	B0H0903	KS1	1	
1,1-Dichloropropene	< 1.14	2.29		ug/Kg dry	0.324	08/28/20 21:00	B0H0903	KS1	1	
1,2,3-Trichlorobenzene	< 2.29	4.57		ug/Kg dry	0.669	08/28/20 21:00	B0H0903	KS1	1	
1,2,3-Trichloropropane	< 1.14	2.29		ug/Kg dry	0.280	08/28/20 21:00	B0H0903	KS1	1	
1,2,4-Trichlorobenzene	< 2.29	4.57		ug/Kg dry	0.612	08/28/20 21:00	B0H0903	KS1	1	
1,2,4-Trimethylbenzene	< 2.29	4.57		ug/Kg dry	0.616	08/28/20 21:00	B0H0903	KS1	1	
1,2-Dibromo-3-chloropropane	< 2.29	4.57		ug/Kg dry	0.949	08/28/20 21:00	B0H0903	KS1	1	
1,2-Dibromoethane	< 0.572	1.14		ug/Kg dry	0.155	08/28/20 21:00	B0H0903	KS1	1	
1,2-Dichloroethane	< 0.572	1.14		ug/Kg dry	0.235	08/28/20 21:00	B0H0903	KS1	1	
1,2-Dichloropropane	< 0.572	1.14		ug/Kg dry	0.276	08/28/20 21:00	B0H0903	KS1	1	
1,3,5-Trimethylbenzene	< 1.14	2.29		ug/Kg dry	0.571	08/28/20 21:00	B0H0903	KS1	1	
1,3-Dichloropropane	< 0.572	1.14		ug/Kg dry	0.256	08/28/20 21:00	B0H0903	KS1	1	
2,2-Dichloropropane	< 0.572	1.14		ug/Kg dry	0.189	08/28/20 21:00	B0H0903	KS1	1	
2-Butanone	< 8.01	16.0		ug/Kg dry	3.89	08/28/20 21:00	B0H0903	KS1	1	
2-Chlorotoluene	< 1.14	2.29		ug/Kg dry	0.501	08/28/20 21:00	B0H0903	KS1	1	
2-Hexanone	< 8.01	16.0		ug/Kg dry	3.03	08/28/20 21:00	B0H0903	KS1	1	
4-Chlorotoluene	< 1.14	2.29		ug/Kg dry	0.501	08/28/20 21:00	B0H0903	KS1	1	
4-Isopropyltoluene	< 2.29	4.57		ug/Kg dry	0.670	08/28/20 21:00	B0H0903	KS1	1	
4-Methyl-2-pentanone	< 8.01	16.0		ug/Kg dry	2.33	08/28/20 21:00	B0H0903	KS1	1	
Acetone	< 16.0	40.0		ug/Kg dry	6.92	08/28/20 21:00	B0H0903	KS1	1	
Benzene	< 0.572	1.14		ug/Kg dry	0.165	08/28/20 21:00	B0H0903	KS1	1	
Bromobenzene	< 1.14	2.29		ug/Kg dry	0.322	08/28/20 21:00	B0H0903	KS1	1	
Bromochloromethane	< 1.14	2.29		ug/Kg dry	0.401	08/28/20 21:00	B0H0903	KS1	1	
Bromodichloromethane	< 0.572	1.14		ug/Kg dry	0.275	08/28/20 21:00	B0H0903	KS1	1	
Bromoform	< 1.14	2.29		ug/Kg dry	0.360	08/28/20 21:00	B0H0903	KS1	1	
Bromomethane	< 4.57	11.4		ug/Kg dry	1.37	08/28/20 21:00	B0H0903	KS1	1	
Carbon disulfide	< 1.14	2.29		ug/Kg dry	0.344	08/28/20 21:00	B0H0903	KS1	1	
Carbon tetrachloride	< 0.343	1.14		ug/Kg dry	0.130	08/28/20 21:00	B0H0903	KS1	1	
Chlorobenzene	< 0.572	1.14		ug/Kg dry	0.148	08/28/20 21:00	B0H0903	KS1	1	
Chloroethane	< 2.29	4.57		ug/Kg dry	0.809	08/28/20 21:00	B0H0903	KS1	1	
Chloroform	< 1.14	2.29		ug/Kg dry	0.418	08/28/20 21:00	B0H0903	KS1	1	
Chloromethane	< 2.29	4.57		ug/Kg dry	0.835	08/28/20 21:00	B0H0903	KS1	1	
cis-1,2-Dichloroethene	< 1.14	2.29		ug/Kg dry	0.326	08/28/20 21:00	B0H0903	KS1	1	
cis-1,3-Dichloropropene	< 1.14	2.29		ug/Kg dry	0.396	08/28/20 21:00	B0H0903	KS1	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0875

Client Sample ID: MW-9 (8-10)
Report Date: 05/07/2021
Collection Date: 08/26/2020 14:40
Matrix: Soil
Lab ID: 20H0875-03 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5035 (Continued)										
Dibromochloromethane	< 0.572	1.14		ug/Kg dry	0.272	08/28/20 21:00	B0H0903	KS1	1	
Dibromomethane	< 0.572	1.14		ug/Kg dry	0.209	08/28/20 21:00	B0H0903	KS1	1	
Dichlorodifluoromethane	< 0.572	1.14		ug/Kg dry	0.211	08/28/20 21:00	B0H0903	KS1	1	
Ethylbenzene	< 2.29	4.57		ug/Kg dry	0.592	08/28/20 21:00	B0H0903	KS1	1	
Isopropylbenzene	< 1.14	2.29		ug/Kg dry	0.568	08/28/20 21:00	B0H0903	KS1	1	
m,p-Xylene	< 2.29	4.57		ug/Kg dry	0.925	08/28/20 21:00	B0H0903	KS1	1	
Methyl tert-butyl ether	< 0.572	1.14		ug/Kg dry	0.191	08/28/20 21:00	B0H0903	KS1	1	
Methylene chloride	< 2.29	4.57		ug/Kg dry	0.963	08/28/20 21:00	B0H0903	KS1	1	
n-Butylbenzene	< 1.14	2.29		ug/Kg dry	0.555	08/28/20 21:00	B0H0903	KS1	1	
n-Propylbenzene	< 1.14	2.29		ug/Kg dry	0.547	08/28/20 21:00	B0H0903	KS1	1	
o-Xylene	< 2.29	4.57		ug/Kg dry	0.584	08/28/20 21:00	B0H0903	KS1	1	
sec-Butylbenzene	< 1.14	2.29		ug/Kg dry	0.561	08/28/20 21:00	B0H0903	KS1	1	
Styrene	< 2.29	4.57		ug/Kg dry	0.627	08/28/20 21:00	B0H0903	KS1	1	
tert-Butylbenzene	< 2.29	4.57		ug/Kg dry	0.670	08/28/20 21:00	B0H0903	KS1	1	
Tetrachloroethene	< 1.14	2.29		ug/Kg dry	0.334	08/28/20 21:00	B0H0903	KS1	1	
Toluene	< 0.572	1.14		ug/Kg dry	0.207	08/28/20 21:00	B0H0903	KS1	1	
trans-1,2-Dichloroethene	< 1.14	2.29		ug/Kg dry	0.529	08/28/20 21:00	B0H0903	KS1	1	
trans-1,3-Dichloropropene	< 1.14	2.29		ug/Kg dry	0.468	08/28/20 21:00	B0H0903	KS1	1	
Trichloroethene	< 0.572	1.14		ug/Kg dry	0.277	08/28/20 21:00	B0H0903	KS1	1	
Trichlorofluoromethane	< 0.572	1.14		ug/Kg dry	0.237	08/28/20 21:00	B0H0903	KS1	1	
Vinyl chloride	< 1.14	2.29		ug/Kg dry	0.409	08/28/20 21:00	B0H0903	KS1	1	
Xylenes, Total	< 3.43	6.86		ug/Kg dry	1.46	08/28/20 21:00	B0H0903	KS1	1	
1,3-Dichloropropene, Total	< 2.29	4.57		ug/Kg dry	0.848	08/28/20 21:00	B0H0903	KS1	1	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 95%</i>	<i>Limits: 86-150</i>	<i>08/28/20 21:00</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 124%</i>	<i>Limits: 89-150</i>	<i>08/28/20 21:00</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 94%</i>	<i>Limits: 88-111</i>	<i>08/28/20 21:00</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 92%</i>	<i>Limits: 66-113</i>	<i>08/28/20 21:00</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 98%</i>	<i>Limits: 82-137</i>	<i>08/28/20 21:00</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 108%</i>	<i>Limits: 77-142</i>	<i>08/28/20 21:00</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
CHW8271N
Work Order: 20H0875

Client Sample ID: MW-10 (8-10)
Report Date: 05/07/2021
Collection Date: 08/27/2020 10:50
Matrix: Soil
Lab ID: 20H0875-04

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	90.0	0.100		% (Percent)	0.0240	08/31/20 05:48	B0H0910	MKP	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5035										
1,1,1,2-Tetrachloroethane	< 0.453	0.906		ug/Kg dry	0.183	08/28/20 21:24	B0H0903	KS1	1	
1,1,1-Trichloroethane	< 0.453	0.906		ug/Kg dry	0.185	08/28/20 21:24	B0H0903	KS1	1	
1,1,2,2-Tetrachloroethane	< 0.453	0.906		ug/Kg dry	0.161	08/28/20 21:24	B0H0903	KS1	1	
1,1,2-Trichloroethane	< 0.453	0.906		ug/Kg dry	0.199	08/28/20 21:24	B0H0903	KS1	1	
1,1-Dichloroethane	< 0.906	1.81		ug/Kg dry	0.246	08/28/20 21:24	B0H0903	KS1	1	
1,1-Dichloroethene	< 0.453	0.906		ug/Kg dry	0.196	08/28/20 21:24	B0H0903	KS1	1	
1,1-Dichloropropene	< 0.906	1.81		ug/Kg dry	0.256	08/28/20 21:24	B0H0903	KS1	1	
1,2,3-Trichlorobenzene	< 1.81	3.62		ug/Kg dry	0.530	08/28/20 21:24	B0H0903	KS1	1	
1,2,3-Trichloropropane	< 0.906	1.81		ug/Kg dry	0.222	08/28/20 21:24	B0H0903	KS1	1	
1,2,4-Trichlorobenzene	< 1.81	3.62		ug/Kg dry	0.485	08/28/20 21:24	B0H0903	KS1	1	
1,2,4-Trimethylbenzene	< 1.81	3.62		ug/Kg dry	0.488	08/28/20 21:24	B0H0903	KS1	1	
1,2-Dibromo-3-chloropropane	< 1.81	3.62		ug/Kg dry	0.751	08/28/20 21:24	B0H0903	KS1	1	
1,2-Dibromoethane	< 0.453	0.906		ug/Kg dry	0.123	08/28/20 21:24	B0H0903	KS1	1	
1,2-Dichloroethane	< 0.453	0.906		ug/Kg dry	0.186	08/28/20 21:24	B0H0903	KS1	1	
1,2-Dichloropropane	< 0.453	0.906		ug/Kg dry	0.219	08/28/20 21:24	B0H0903	KS1	1	
1,3,5-Trimethylbenzene	< 0.906	1.81		ug/Kg dry	0.453	08/28/20 21:24	B0H0903	KS1	1	
1,3-Dichloropropane	< 0.453	0.906		ug/Kg dry	0.203	08/28/20 21:24	B0H0903	KS1	1	
2,2-Dichloropropane	< 0.453	0.906		ug/Kg dry	0.150	08/28/20 21:24	B0H0903	KS1	1	
2-Butanone	< 6.34	12.7		ug/Kg dry	3.08	08/28/20 21:24	B0H0903	KS1	1	
2-Chlorotoluene	< 0.906	1.81		ug/Kg dry	0.397	08/28/20 21:24	B0H0903	KS1	1	
2-Hexanone	< 6.34	12.7		ug/Kg dry	2.40	08/28/20 21:24	B0H0903	KS1	1	
4-Chlorotoluene	< 0.906	1.81		ug/Kg dry	0.397	08/28/20 21:24	B0H0903	KS1	1	
4-Isopropyltoluene	< 1.81	3.62		ug/Kg dry	0.531	08/28/20 21:24	B0H0903	KS1	1	
4-Methyl-2-pentanone	< 6.34	12.7		ug/Kg dry	1.85	08/28/20 21:24	B0H0903	KS1	1	
Acetone	< 12.7	31.7		ug/Kg dry	5.48	08/28/20 21:24	B0H0903	KS1	1	
Benzene	< 0.453	3.00		ug/Kg dry	0.130	08/28/20 21:24	B0H0903	KS1	1	
Bromobenzene	< 0.906	1.81		ug/Kg dry	0.255	08/28/20 21:24	B0H0903	KS1	1	
Bromochloromethane	< 0.906	1.81		ug/Kg dry	0.318	08/28/20 21:24	B0H0903	KS1	1	
Bromodichloromethane	< 0.453	0.906		ug/Kg dry	0.218	08/28/20 21:24	B0H0903	KS1	1	
Bromoform	< 0.906	1.81		ug/Kg dry	0.285	08/28/20 21:24	B0H0903	KS1	1	
Bromomethane	< 3.62	9.06		ug/Kg dry	1.09	08/28/20 21:24	B0H0903	KS1	1	
Carbon disulfide	< 0.906	1.81		ug/Kg dry	0.273	08/28/20 21:24	B0H0903	KS1	1	
Carbon tetrachloride	< 0.272	0.906		ug/Kg dry	0.103	08/28/20 21:24	B0H0903	KS1	1	
Chlorobenzene	< 0.453	0.906		ug/Kg dry	0.117	08/28/20 21:24	B0H0903	KS1	1	
Chloroethane	< 1.81	3.62		ug/Kg dry	0.641	08/28/20 21:24	B0H0903	KS1	1	
Chloroform	< 0.906	1.81		ug/Kg dry	0.331	08/28/20 21:24	B0H0903	KS1	1	
Chloromethane	< 1.81	3.62		ug/Kg dry	0.661	08/28/20 21:24	B0H0903	KS1	1	
cis-1,2-Dichloroethene	< 0.906	1.81		ug/Kg dry	0.258	08/28/20 21:24	B0H0903	KS1	1	
cis-1,3-Dichloropropene	< 0.906	1.81		ug/Kg dry	0.313	08/28/20 21:24	B0H0903	KS1	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0875

Client Sample ID: MW-10 (8-10)
Report Date: 05/07/2021
Collection Date: 08/27/2020 10:50
Matrix: Soil
Lab ID: 20H0875-04 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5035 (Continued)										
Dibromochloromethane	< 0.453	0.906		ug/Kg dry	0.215	08/28/20 21:24	B0H0903	KS1	1	
Dibromomethane	< 0.453	0.906		ug/Kg dry	0.166	08/28/20 21:24	B0H0903	KS1	1	
Dichlorodifluoromethane	< 0.453	0.906		ug/Kg dry	0.167	08/28/20 21:24	B0H0903	KS1	1	
Ethylbenzene	< 1.81	3.62		ug/Kg dry	0.469	08/28/20 21:24	B0H0903	KS1	1	
Isopropylbenzene	< 0.906	1.81		ug/Kg dry	0.450	08/28/20 21:24	B0H0903	KS1	1	
m,p-Xylene	< 1.81	3.62		ug/Kg dry	0.733	08/28/20 21:24	B0H0903	KS1	1	
Methyl tert-butyl ether	< 0.453	0.906		ug/Kg dry	0.152	08/28/20 21:24	B0H0903	KS1	1	
Methylene chloride	< 1.81	3.62		ug/Kg dry	0.763	08/28/20 21:24	B0H0903	KS1	1	
n-Butylbenzene	< 0.906	1.81		ug/Kg dry	0.439	08/28/20 21:24	B0H0903	KS1	1	
n-Propylbenzene	< 0.906	1.81		ug/Kg dry	0.433	08/28/20 21:24	B0H0903	KS1	1	
o-Xylene	< 1.81	3.62		ug/Kg dry	0.463	08/28/20 21:24	B0H0903	KS1	1	
sec-Butylbenzene	< 0.906	1.81		ug/Kg dry	0.445	08/28/20 21:24	B0H0903	KS1	1	
Styrene	< 1.81	3.62		ug/Kg dry	0.497	08/28/20 21:24	B0H0903	KS1	1	
tert-Butylbenzene	< 1.81	3.62		ug/Kg dry	0.531	08/28/20 21:24	B0H0903	KS1	1	
Tetrachloroethene	< 0.906	1.81		ug/Kg dry	0.265	08/28/20 21:24	B0H0903	KS1	1	
Toluene	< 0.453	5.00		ug/Kg dry	0.164	08/28/20 21:24	B0H0903	KS1	1	
trans-1,2-Dichloroethene	< 0.906	1.81		ug/Kg dry	0.419	08/28/20 21:24	B0H0903	KS1	1	
trans-1,3-Dichloropropene	< 0.906	1.81		ug/Kg dry	0.371	08/28/20 21:24	B0H0903	KS1	1	
Trichloroethene	< 0.453	0.906		ug/Kg dry	0.220	08/28/20 21:24	B0H0903	KS1	1	
Trichlorofluoromethane	< 0.453	0.906		ug/Kg dry	0.188	08/28/20 21:24	B0H0903	KS1	1	
Vinyl chloride	< 0.906	1.81		ug/Kg dry	0.324	08/28/20 21:24	B0H0903	KS1	1	
Xylenes, Total	< 2.72	5.44		ug/Kg dry	1.16	08/28/20 21:24	B0H0903	KS1	1	
1,3-Dichloropropene, Total	< 1.81	3.62		ug/Kg dry	0.671	08/28/20 21:24	B0H0903	KS1	1	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 86%</i>	<i>Limits: 86-150</i>	<i>08/28/20 21:24</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 118%</i>	<i>Limits: 89-150</i>	<i>08/28/20 21:24</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 96%</i>	<i>Limits: 88-111</i>	<i>08/28/20 21:24</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 94%</i>	<i>Limits: 66-113</i>	<i>08/28/20 21:24</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 100%</i>	<i>Limits: 82-137</i>	<i>08/28/20 21:24</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 103%</i>	<i>Limits: 77-142</i>	<i>08/28/20 21:24</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
CHW8271N
Work Order: 20H0875

Client Sample ID: PZ-10 (12-14)
Report Date: 05/07/2021
Collection Date: 08/24/2020 12:35
Matrix: Soil
Lab ID: 20H0875-05

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	90.9	0.100		% (Percent)	0.0240	08/31/20 05:50	B0H0910	MKP	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5035										
1,1,1,2-Tetrachloroethane	< 0.519	1.04		ug/Kg dry	0.210	08/28/20 21:49	B0H0903	KS1	1	
1,1,1-Trichloroethane	< 0.519	1.04		ug/Kg dry	0.212	08/28/20 21:49	B0H0903	KS1	1	
1,1,2,2-Tetrachloroethane	< 0.519	1.04		ug/Kg dry	0.185	08/28/20 21:49	B0H0903	KS1	1	
1,1,2-Trichloroethane	< 0.519	1.04		ug/Kg dry	0.227	08/28/20 21:49	B0H0903	KS1	1	
1,1-Dichloroethane	< 1.04	2.07		ug/Kg dry	0.281	08/28/20 21:49	B0H0903	KS1	1	
1,1-Dichloroethene	< 0.519	1.04		ug/Kg dry	0.225	08/28/20 21:49	B0H0903	KS1	1	
1,1-Dichloropropene	< 1.04	2.07		ug/Kg dry	0.294	08/28/20 21:49	B0H0903	KS1	1	
1,2,3-Trichlorobenzene	< 2.07	4.15		ug/Kg dry	0.607	08/28/20 21:49	B0H0903	KS1	1	
1,2,3-Trichloropropane	< 1.04	2.07		ug/Kg dry	0.254	08/28/20 21:49	B0H0903	KS1	1	
1,2,4-Trichlorobenzene	< 2.07	4.15		ug/Kg dry	0.555	08/28/20 21:49	B0H0903	KS1	1	
1,2,4-Trimethylbenzene	< 2.07	4.15		ug/Kg dry	0.559	08/28/20 21:49	B0H0903	KS1	1	
1,2-Dibromo-3-chloropropane	< 2.07	4.15		ug/Kg dry	0.860	08/28/20 21:49	B0H0903	KS1	1	
1,2-Dibromoethane	< 0.519	1.04		ug/Kg dry	0.141	08/28/20 21:49	B0H0903	KS1	1	
1,2-Dichloroethane	< 0.519	1.04		ug/Kg dry	0.213	08/28/20 21:49	B0H0903	KS1	1	
1,2-Dichloropropane	< 0.519	1.04		ug/Kg dry	0.251	08/28/20 21:49	B0H0903	KS1	1	
1,3,5-Trimethylbenzene	< 1.04	2.07		ug/Kg dry	0.518	08/28/20 21:49	B0H0903	KS1	1	
1,3-Dichloropropane	< 0.519	1.04		ug/Kg dry	0.232	08/28/20 21:49	B0H0903	KS1	1	
2,2-Dichloropropane	< 0.519	1.04		ug/Kg dry	0.172	08/28/20 21:49	B0H0903	KS1	1	
2-Butanone	< 7.26	14.5		ug/Kg dry	3.53	08/28/20 21:49	B0H0903	KS1	1	
2-Chlorotoluene	< 1.04	2.07		ug/Kg dry	0.455	08/28/20 21:49	B0H0903	KS1	1	
2-Hexanone	< 7.26	14.5		ug/Kg dry	2.75	08/28/20 21:49	B0H0903	KS1	1	
4-Chlorotoluene	< 1.04	2.07		ug/Kg dry	0.454	08/28/20 21:49	B0H0903	KS1	1	
4-Isopropyltoluene	< 2.07	4.15		ug/Kg dry	0.607	08/28/20 21:49	B0H0903	KS1	1	
4-Methyl-2-pentanone	< 7.26	14.5		ug/Kg dry	2.12	08/28/20 21:49	B0H0903	KS1	1	
Acetone	< 14.5	36.3		ug/Kg dry	6.27	08/28/20 21:49	B0H0903	KS1	1	
Benzene	< 0.519	1.04		ug/Kg dry	0.149	08/28/20 21:49	B0H0903	KS1	1	
Bromobenzene	< 1.04	2.07		ug/Kg dry	0.292	08/28/20 21:49	B0H0903	KS1	1	
Bromochloromethane	< 1.04	2.07		ug/Kg dry	0.364	08/28/20 21:49	B0H0903	KS1	1	
Bromodichloromethane	< 0.519	1.04		ug/Kg dry	0.250	08/28/20 21:49	B0H0903	KS1	1	
Bromoform	< 1.04	2.07		ug/Kg dry	0.327	08/28/20 21:49	B0H0903	KS1	1	
Bromomethane	< 4.15	10.4		ug/Kg dry	1.25	08/28/20 21:49	B0H0903	KS1	1	
Carbon disulfide	< 1.04	2.07		ug/Kg dry	0.312	08/28/20 21:49	B0H0903	KS1	1	
Carbon tetrachloride	< 0.311	1.04		ug/Kg dry	0.117	08/28/20 21:49	B0H0903	KS1	1	
Chlorobenzene	< 0.519	1.04		ug/Kg dry	0.134	08/28/20 21:49	B0H0903	KS1	1	
Chloroethane	< 2.07	4.15		ug/Kg dry	0.733	08/28/20 21:49	B0H0903	KS1	1	
Chloroform	< 1.04	2.07		ug/Kg dry	0.379	08/28/20 21:49	B0H0903	KS1	1	
Chloromethane	< 2.07	4.15		ug/Kg dry	0.757	08/28/20 21:49	B0H0903	KS1	1	
cis-1,2-Dichloroethene	< 1.04	2.07		ug/Kg dry	0.296	08/28/20 21:49	B0H0903	KS1	1	
cis-1,3-Dichloropropene	< 1.04	2.07		ug/Kg dry	0.359	08/28/20 21:49	B0H0903	KS1	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0875

Client Sample ID: PZ-10 (12-14)
Report Date: 05/07/2021
Collection Date: 08/24/2020 12:35
Matrix: Soil
Lab ID: 20H0875-05 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5035 (Continued)										
Dibromochloromethane	< 0.519	1.04		ug/Kg dry	0.247	08/28/20 21:49	B0H0903	KS1	1	
Dibromomethane	< 0.519	1.04		ug/Kg dry	0.190	08/28/20 21:49	B0H0903	KS1	1	
Dichlorodifluoromethane	< 0.519	1.04		ug/Kg dry	0.192	08/28/20 21:49	B0H0903	KS1	1	
Ethylbenzene	< 2.07	4.15		ug/Kg dry	0.537	08/28/20 21:49	B0H0903	KS1	1	
Isopropylbenzene	< 1.04	2.07		ug/Kg dry	0.515	08/28/20 21:49	B0H0903	KS1	1	
m,p-Xylene	< 2.07	4.15		ug/Kg dry	0.839	08/28/20 21:49	B0H0903	KS1	1	
Methyl tert-butyl ether	< 0.519	1.04		ug/Kg dry	0.173	08/28/20 21:49	B0H0903	KS1	1	
Methylene chloride	< 2.07	4.15		ug/Kg dry	0.874	08/28/20 21:49	B0H0903	KS1	1	
n-Butylbenzene	< 1.04	2.07		ug/Kg dry	0.503	08/28/20 21:49	B0H0903	KS1	1	
n-Propylbenzene	< 1.04	2.07		ug/Kg dry	0.496	08/28/20 21:49	B0H0903	KS1	1	
o-Xylene	< 2.07	4.15		ug/Kg dry	0.530	08/28/20 21:49	B0H0903	KS1	1	
sec-Butylbenzene	< 1.04	2.07		ug/Kg dry	0.509	08/28/20 21:49	B0H0903	KS1	1	
Styrene	< 2.07	4.15		ug/Kg dry	0.569	08/28/20 21:49	B0H0903	KS1	1	
tert-Butylbenzene	< 2.07	4.15		ug/Kg dry	0.608	08/28/20 21:49	B0H0903	KS1	1	
Tetrachloroethene	< 1.04	2.07		ug/Kg dry	0.303	08/28/20 21:49	B0H0903	KS1	1	
Toluene	< 0.519	1.04		ug/Kg dry	0.187	08/28/20 21:49	B0H0903	KS1	1	
trans-1,2-Dichloroethene	< 1.04	2.07		ug/Kg dry	0.480	08/28/20 21:49	B0H0903	KS1	1	
trans-1,3-Dichloropropene	< 1.04	2.07		ug/Kg dry	0.424	08/28/20 21:49	B0H0903	KS1	1	
Trichloroethene	< 0.519	1.04		ug/Kg dry	0.252	08/28/20 21:49	B0H0903	KS1	1	
Trichlorofluoromethane	< 0.519	1.04		ug/Kg dry	0.215	08/28/20 21:49	B0H0903	KS1	1	
Vinyl chloride	< 1.04	2.07		ug/Kg dry	0.370	08/28/20 21:49	B0H0903	KS1	1	
Xylenes, Total	< 3.11	6.22		ug/Kg dry	1.33	08/28/20 21:49	B0H0903	KS1	1	
1,3-Dichloropropene, Total	< 2.07	4.15		ug/Kg dry	0.769	08/28/20 21:49	B0H0903	KS1	1	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 94%</i>	<i>Limits: 86-150</i>	<i>08/28/20 21:49</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 123%</i>	<i>Limits: 89-150</i>	<i>08/28/20 21:49</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 95%</i>	<i>Limits: 88-111</i>	<i>08/28/20 21:49</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 95%</i>	<i>Limits: 66-113</i>	<i>08/28/20 21:49</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 105%</i>	<i>Limits: 82-137</i>	<i>08/28/20 21:49</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 114%</i>	<i>Limits: 77-142</i>	<i>08/28/20 21:49</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
CHW8271N
Work Order: 20H0875

Client Sample ID: MW-14 (4-6)
Report Date: 05/07/2021
Collection Date: 08/26/2020 10:55
Matrix: Soil
Lab ID: 20H0875-06

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	79.1	0.100		% (Percent)	0.0240	08/31/20 05:52	B0H0910	MKP	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5035										
1,1,1,2-Tetrachloroethane	< 0.499	0.998		ug/Kg dry	0.202	08/28/20 22:13	B0H0903	KS1	1	
1,1,1-Trichloroethane	< 0.499	0.998		ug/Kg dry	0.204	08/28/20 22:13	B0H0903	KS1	1	
1,1,2,2-Tetrachloroethane	< 0.499	0.998		ug/Kg dry	0.178	08/28/20 22:13	B0H0903	KS1	1	
1,1,2-Trichloroethane	< 0.499	0.998		ug/Kg dry	0.219	08/28/20 22:13	B0H0903	KS1	1	
1,1-Dichloroethane	< 0.998	2.00		ug/Kg dry	0.271	08/28/20 22:13	B0H0903	KS1	1	
1,1-Dichloroethene	< 0.499	0.998		ug/Kg dry	0.216	08/28/20 22:13	B0H0903	KS1	1	
1,1-Dichloropropene	< 0.998	2.00		ug/Kg dry	0.283	08/28/20 22:13	B0H0903	KS1	1	
1,2,3-Trichlorobenzene	< 2.00	3.99		ug/Kg dry	0.584	08/28/20 22:13	B0H0903	KS1	1	
1,2,3-Trichloropropane	< 0.998	2.00		ug/Kg dry	0.244	08/28/20 22:13	B0H0903	KS1	1	
1,2,4-Trichlorobenzene	< 2.00	3.99		ug/Kg dry	0.534	08/28/20 22:13	B0H0903	KS1	1	
1,2,4-Trimethylbenzene	< 2.00	3.99		ug/Kg dry	0.538	08/28/20 22:13	B0H0903	KS1	1	
1,2-Dibromo-3-chloropropane	< 2.00	3.99		ug/Kg dry	0.828	08/28/20 22:13	B0H0903	KS1	1	
1,2-Dibromoethane	< 0.499	0.998		ug/Kg dry	0.136	08/28/20 22:13	B0H0903	KS1	1	
1,2-Dichloroethane	< 0.499	0.998		ug/Kg dry	0.205	08/28/20 22:13	B0H0903	KS1	1	
1,2-Dichloropropane	< 0.499	0.998		ug/Kg dry	0.241	08/28/20 22:13	B0H0903	KS1	1	
1,3,5-Trimethylbenzene	< 0.998	2.00		ug/Kg dry	0.499	08/28/20 22:13	B0H0903	KS1	1	
1,3-Dichloropropane	< 0.499	0.998		ug/Kg dry	0.223	08/28/20 22:13	B0H0903	KS1	1	
2,2-Dichloropropane	< 0.499	0.998		ug/Kg dry	0.165	08/28/20 22:13	B0H0903	KS1	1	
2-Butanone	< 6.99	14.0		ug/Kg dry	3.40	08/28/20 22:13	B0H0903	KS1	1	
2-Chlorotoluene	< 0.998	2.00		ug/Kg dry	0.438	08/28/20 22:13	B0H0903	KS1	1	
2-Hexanone	< 6.99	14.0		ug/Kg dry	2.65	08/28/20 22:13	B0H0903	KS1	1	
4-Chlorotoluene	< 0.998	2.00		ug/Kg dry	0.437	08/28/20 22:13	B0H0903	KS1	1	
4-Isopropyltoluene	< 2.00	3.99		ug/Kg dry	0.585	08/28/20 22:13	B0H0903	KS1	1	
4-Methyl-2-pentanone	< 6.99	14.0		ug/Kg dry	2.04	08/28/20 22:13	B0H0903	KS1	1	
Acetone	< 14.0	34.9		ug/Kg dry	6.04	08/28/20 22:13	B0H0903	KS1	1	
Benzene	< 0.499	0.998		ug/Kg dry	0.144	08/28/20 22:13	B0H0903	KS1	1	
Bromobenzene	< 0.998	2.00		ug/Kg dry	0.281	08/28/20 22:13	B0H0903	KS1	1	
Bromochloromethane	< 0.998	2.00		ug/Kg dry	0.350	08/28/20 22:13	B0H0903	KS1	1	
Bromodichloromethane	< 0.499	0.998		ug/Kg dry	0.240	08/28/20 22:13	B0H0903	KS1	1	
Bromoform	< 0.998	2.00		ug/Kg dry	0.314	08/28/20 22:13	B0H0903	KS1	1	
Bromomethane	< 3.99	9.98		ug/Kg dry	1.20	08/28/20 22:13	B0H0903	KS1	1	
Carbon disulfide	< 0.998	2.00		ug/Kg dry	0.300	08/28/20 22:13	B0H0903	KS1	1	
Carbon tetrachloride	< 0.299	0.998		ug/Kg dry	0.113	08/28/20 22:13	B0H0903	KS1	1	
Chlorobenzene	< 0.499	0.998		ug/Kg dry	0.129	08/28/20 22:13	B0H0903	KS1	1	
Chloroethane	< 2.00	3.99		ug/Kg dry	0.706	08/28/20 22:13	B0H0903	KS1	1	
Chloroform	< 0.998	2.00		ug/Kg dry	0.365	08/28/20 22:13	B0H0903	KS1	1	
Chloromethane	< 2.00	3.99		ug/Kg dry	0.729	08/28/20 22:13	B0H0903	KS1	1	
cis-1,2-Dichloroethene	42.8	2.00		ug/Kg dry	0.285	08/28/20 22:13	B0H0903	KS1	1	
cis-1,3-Dichloropropene	< 0.998	2.00		ug/Kg dry	0.345	08/28/20 22:13	B0H0903	KS1	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0875

Client Sample ID: MW-14 (4-6)
Report Date: 05/07/2021
Collection Date: 08/26/2020 10:55
Matrix: Soil
Lab ID: 20H0875-06 (Continued)

Analyses	EMT Reporting			MDL	Date/Time Analyzed	Batch	Analyst	DF
	Result	Limit	Qual Units					
Volatile Organic Compounds by GC/MS (Continued)								
Method: SW8260B / SW5035 (Continued)								
Dibromochloromethane	< 0.499	0.998	ug/Kg dry	0.237	08/28/20 22:13	B0H0903	KS1	1
Dibromomethane	< 0.499	0.998	ug/Kg dry	0.183	08/28/20 22:13	B0H0903	KS1	1
Dichlorodifluoromethane	< 0.499	0.998	ug/Kg dry	0.184	08/28/20 22:13	B0H0903	KS1	1
Ethylbenzene	< 2.00	3.99	ug/Kg dry	0.516	08/28/20 22:13	B0H0903	KS1	1
Isopropylbenzene	< 0.998	2.00	ug/Kg dry	0.496	08/28/20 22:13	B0H0903	KS1	1
m,p-Xylene	< 2.00	3.99	ug/Kg dry	0.807	08/28/20 22:13	B0H0903	KS1	1
Methyl tert-butyl ether	< 0.499	0.998	ug/Kg dry	0.167	08/28/20 22:13	B0H0903	KS1	1
Methylene chloride	< 2.00	3.99	ug/Kg dry	0.841	08/28/20 22:13	B0H0903	KS1	1
n-Butylbenzene	< 0.998	2.00	ug/Kg dry	0.484	08/28/20 22:13	B0H0903	KS1	1
n-Propylbenzene	< 0.998	2.00	ug/Kg dry	0.478	08/28/20 22:13	B0H0903	KS1	1
o-Xylene	< 2.00	3.99	ug/Kg dry	0.510	08/28/20 22:13	B0H0903	KS1	1
sec-Butylbenzene	< 0.998	2.00	ug/Kg dry	0.490	08/28/20 22:13	B0H0903	KS1	1
Styrene	< 2.00	3.99	ug/Kg dry	0.547	08/28/20 22:13	B0H0903	KS1	1
tert-Butylbenzene	< 2.00	3.99	ug/Kg dry	0.585	08/28/20 22:13	B0H0903	KS1	1
Tetrachloroethene	< 0.998	2.00	ug/Kg dry	0.292	08/28/20 22:13	B0H0903	KS1	1
Toluene	< 0.499	0.998	ug/Kg dry	0.180	08/28/20 22:13	B0H0903	KS1	1
trans-1,2-Dichloroethene	4.56	2.00	ug/Kg dry	0.462	08/28/20 22:13	B0H0903	KS1	1
trans-1,3-Dichloropropene	< 0.998	2.00	ug/Kg dry	0.408	08/28/20 22:13	B0H0903	KS1	1
Trichloroethene	1.79	0.998	ug/Kg dry	0.242	08/28/20 22:13	B0H0903	KS1	1
Trichlorofluoromethane	< 0.499	0.998	ug/Kg dry	0.207	08/28/20 22:13	B0H0903	KS1	1
Vinyl chloride	< 0.998	2.00	ug/Kg dry	0.357	08/28/20 22:13	B0H0903	KS1	1
Xylenes, Total	< 2.99	5.99	ug/Kg dry	1.28	08/28/20 22:13	B0H0903	KS1	1
1,3-Dichloropropene, Total	< 2.00	3.99	ug/Kg dry	0.740	08/28/20 22:13	B0H0903	KS1	1
<i>Surrogate: Dibromofluoromethane</i>			<i>Recovery: 94%</i>	<i>Limits: 86-150</i>	<i>08/28/20 22:13</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>			<i>Recovery: 121%</i>	<i>Limits: 89-150</i>	<i>08/28/20 22:13</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>			<i>Recovery: 95%</i>	<i>Limits: 88-111</i>	<i>08/28/20 22:13</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>			<i>Recovery: 91%</i>	<i>Limits: 66-113</i>	<i>08/28/20 22:13</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>			<i>Recovery: 96%</i>	<i>Limits: 82-137</i>	<i>08/28/20 22:13</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>			<i>Recovery: 106%</i>	<i>Limits: 77-142</i>	<i>08/28/20 22:13</i>	<i>B0H0903</i>	<i>KS1</i>	<i>1</i>

Dates Report

Client: Geosyntec Consultants

Report Date: 05/07/2021

Project: Milw Die Cast
CHW8271N

Work Order: 20H0875

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
20H0875-01	MW-5 (6-8)	08/24/20	Soil	Volatile Organic Compounds by GC/MS		08/28/20 16:07	08/28/20 20:10	B0H0903	S0H0402
				Total Solids / Percent Moisture		08/31/20 05:04	08/31/20 05:42	B0H0910	
20H0875-02	MW-6 (8-10)	08/26/20		Volatile Organic Compounds by GC/MS		08/28/20 16:07	08/28/20 20:35	B0H0903	S0H0402
				Total Solids / Percent Moisture		08/31/20 05:04	08/31/20 05:44	B0H0910	
				Volatile Organic Compounds by GC/MS		08/28/20 17:00	08/28/20 23:02	B0H0930	S0H0402
20H0875-03	MW-9 (8-10)	08/26/20		Volatile Organic Compounds by GC/MS		08/28/20 16:07	08/28/20 21:00	B0H0903	
				Total Solids / Percent Moisture		08/31/20 05:04	08/31/20 05:46	B0H0910	
20H0875-04	MW-10 (8-10)	08/27/20		Volatile Organic Compounds by GC/MS		08/28/20 16:07	08/28/20 21:24	B0H0903	S0H0402
				Total Solids / Percent Moisture		08/31/20 05:04	08/31/20 05:48	B0H0910	
20H0875-05	PZ-10 (12-14)	08/24/20		Volatile Organic Compounds by GC/MS		08/28/20 16:07	08/28/20 21:49	B0H0903	S0H0402
				Total Solids / Percent Moisture		08/31/20 05:04	08/31/20 05:50	B0H0910	
20H0875-06	MW-14 (4-6)	08/26/20		Volatile Organic Compounds by GC/MS		08/28/20 16:07	08/28/20 22:13	B0H0903	S0H0402
				Total Solids / Percent Moisture		08/31/20 05:04	08/31/20 05:52	B0H0910	

Quality Control

Client: Geosyntec DoD
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0875

Report Date: 05/07/2021
Matrix: Solid

Wet Chemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0H0910

Blank (B0H0910-BLK1)

Prepared: 08/31/2020 05:04 Analyzed: 08/31/2020 06:10

Total Solids	<0.0500	0.100	%								1
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LCS (B0H0910-BS1)

Prepared: 08/31/2020 05:04 Analyzed: 08/31/2020 06:12

Total Solids	0.203	0.100	%	0.2038		99.5	83.9-103				1
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Duplicate (B0H0910-DUP1)

Source: 20H0859-01

Prepared: 08/31/2020 05:04 Analyzed: 08/31/2020 06:14

Total Solids	95.1	0.100	%		95.4			0.284	5		1
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Duplicate (B0H0910-DUP2)

Source: 20H0877-06

Prepared: 08/31/2020 05:04 Analyzed: 08/31/2020 06:16

Total Solids	90.7	0.100	%		88.5			2.45	5		1
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Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast
CHW8271N
Work Order: 20H0875

Report Date: 05/07/2021
Matrix: Solid

Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0H0903 - SW5035**Blank (B0H0903-BLK1)**

Prepared: 08/28/2020 16:07 Analyzed: 08/28/2020 19:06

1,1,1,2-Tetrachloroethane	<1.00	2.00	ug/Kg wet								1
1,1,1-Trichloroethane	<1.00	2.00	ug/Kg wet								1
1,1,2,2-Tetrachloroethane	<1.00	2.00	ug/Kg wet								1
1,1,2-Trichloroethane	<1.00	2.00	ug/Kg wet								1
1,1-Dichloroethane	<2.00	4.00	ug/Kg wet								1
1,1-Dichloroethene	<1.00	2.00	ug/Kg wet								1
1,1-Dichloropropene	<2.00	4.00	ug/Kg wet								1
1,2,3-Trichlorobenzene	<4.00	8.00	ug/Kg wet								1
1,2,3-Trichloropropane	<2.00	4.00	ug/Kg wet								1
1,2,4-Trichlorobenzene	<4.00	8.00	ug/Kg wet								1
1,2,4-Trimethylbenzene	<4.00	8.00	ug/Kg wet								1
1,2-Dibromo-3-chloropropane	<4.00	8.00	ug/Kg wet								1
1,2-Dibromoethane	<1.00	2.00	ug/Kg wet								1
1,2-Dichloroethane	<1.00	2.00	ug/Kg wet								1
1,2-Dichloropropane	<1.00	2.00	ug/Kg wet								1
1,3,5-Trimethylbenzene	<2.00	4.00	ug/Kg wet								1
1,3-Dichloropropane	<1.00	2.00	ug/Kg wet								1
1-Butanol	<100	200	ug/Kg wet								1
2,2-Dichloropropane	<1.00	2.00	ug/Kg wet								1
2-Butanone	<14.0	28.0	ug/Kg wet								1
2-Chlorotoluene	<2.00	4.00	ug/Kg wet								1
2-Hexanone	<14.0	28.0	ug/Kg wet								1
4-Chlorotoluene	<2.00	4.00	ug/Kg wet								1
4-Isopropyltoluene	<4.00	8.00	ug/Kg wet								1
4-Methyl-2-pentanone	<14.0	28.0	ug/Kg wet								1
Acetone	<28.0	70.0	ug/Kg wet								1
Acrylonitrile	<2.00	4.00	ug/Kg wet								1
Benzene	<1.00	2.00	ug/Kg wet								1
Bromobenzene	<2.00	4.00	ug/Kg wet								1
Bromochloromethane	<2.00	4.00	ug/Kg wet								1
Bromodichloromethane	<1.00	2.00	ug/Kg wet								1
Bromoform	<2.00	4.00	ug/Kg wet								1
Bromomethane	<8.00	20.0	ug/Kg wet								1
Carbon disulfide	<2.00	4.00	ug/Kg wet								1
Carbon tetrachloride	<0.600	2.00	ug/Kg wet								1
Chlorobenzene	<1.00	2.00	ug/Kg wet								1
Chloroethane	<4.00	8.00	ug/Kg wet								1
Chloroform	<2.00	4.00	ug/Kg wet								1
Chloromethane	<4.00	8.00	ug/Kg wet								1
cis-1,2-Dichloroethene	<2.00	4.00	ug/Kg wet								1
cis-1,3-Dichloropropene	<2.00	4.00	ug/Kg wet								1
Dibromochloromethane	<1.00	2.00	ug/Kg wet								1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast
CHW8271N
Work Order: 20H0875

Report Date: 05/07/2021
Matrix: Solid

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0H0903 - SW5035 (Continued)**Blank (B0H0903-BLK1) (Continued)**

Prepared: 08/28/2020 16:07 Analyzed: 08/28/2020 19:06

Dibromomethane	<1.00	2.00	ug/Kg wet								1
Dichlorodifluoromethane	<1.00	2.00	ug/Kg wet								1
Ethylbenzene	<4.00	8.00	ug/Kg wet								1
Isopropylbenzene	<2.00	4.00	ug/Kg wet								1
m,p-Xylene	<4.00	8.00	ug/Kg wet								1
Methyl tert-butyl ether	<1.00	2.00	ug/Kg wet								1
Methylene chloride	<4.00	8.00	ug/Kg wet								1
n-Butylbenzene	<2.00	4.00	ug/Kg wet								1
n-Propylbenzene	<2.00	4.00	ug/Kg wet								1
o-Xylene	<4.00	8.00	ug/Kg wet								1
sec-Butylbenzene	<2.00	4.00	ug/Kg wet								1
Styrene	<4.00	8.00	ug/Kg wet								1
tert-Butylbenzene	<4.00	8.00	ug/Kg wet								1
Tetrachloroethene	<2.00	4.00	ug/Kg wet								1
Toluene	<1.00	2.00	ug/Kg wet								1
trans-1,2-Dichloroethene	<2.00	4.00	ug/Kg wet								1
trans-1,3-Dichloropropene	<2.00	4.00	ug/Kg wet								1
Trichloroethene	<1.00	2.00	ug/Kg wet								1
Trichlorofluoromethane	<1.00	2.00	ug/Kg wet								1
Vinyl acetate	<8.00	20.0	ug/Kg wet								1
Vinyl chloride	<2.00	4.00	ug/Kg wet								1
Xylenes, Total	<6.00	12.0	ug/Kg wet								1
1,3-Dichloropropene, Total	<4.00	8.00	ug/Kg wet								1
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Surrogate: Dibromofluoromethane	18.9		ug/Kg	20.00		94	86-150				1
Surrogate: 1,2-Dichloroethane-d4	21.3		ug/Kg	20.00		107	89-150				1
Surrogate: Fluorobenzene	18.9		ug/Kg	20.00		95	88-111				1
Surrogate: Toluene-d8	18.3		ug/Kg	20.00		91	66-113				1
Surrogate: 4-Bromofluorobenzene	9.58		ug/Kg	10.00		96	82-137				1
Surrogate: 1,2-Dichlorobenzene-d4	20.9		ug/Kg	20.00		105	77-142				1

LCS (B0H0903-BS1)

Prepared: 08/28/2020 16:07 Analyzed: 08/28/2020 17:52

1,1,1,2-Tetrachloroethane	39.9	2.00	ug/Kg wet	40.00		100	78-125				1
1,1,1-Trichloroethane	38.2	2.00	ug/Kg wet	40.00		95	73-113				1
1,1,2,2-Tetrachloroethane	34.7	2.00	ug/Kg wet	40.00		87	70-124				1
1,1,2-Trichloroethane	42.9	2.00	ug/Kg wet	40.00		107	78-121				1
1,1-Dichloroethane	38.8	4.00	ug/Kg wet	40.00		97	76-125				1
1,1-Dichloroethene	40.4	2.00	ug/Kg wet	40.00		101	70-131				1
1,1-Dichloropropene	37.1	4.00	ug/Kg wet	40.00		93	76-125				1
1,2,3-Trichlorobenzene	38.9	8.00	ug/Kg wet	40.00		97	66-130				1
1,2,3-Trichloropropane	41.3	4.00	ug/Kg wet	40.00		103	73-125				1
1,2,4-Trichlorobenzene	38.0	8.00	ug/Kg wet	40.00		95	67-129				1
1,2,4-Trimethylbenzene	38.4	8.00	ug/Kg wet	40.00		96	75-123				1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast
CHW8271N
Work Order: 20H0875

Report Date: 05/07/2021
Matrix: Solid

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0H0903 - SW5035 (Continued)**LCS (B0H0903-BS1) (Continued)**

Prepared: 08/28/2020 16:07 Analyzed: 08/28/2020 17:52

1,2-Dibromo-3-chloropropane	34.4	8.00	ug/Kg wet	40.00		86	69-128				1
1,2-Dibromoethane	41.8	2.00	ug/Kg wet	40.00		104	78-122				1
1,2-Dichloroethane	41.3	2.00	ug/Kg wet	40.00		103	73-128				1
1,2-Dichloropropane	41.3	2.00	ug/Kg wet	40.00		103	76-123				1
1,3,5-Trimethylbenzene	38.9	4.00	ug/Kg wet	40.00		97	71-128				1
1,3-Dichloropropane	40.3	2.00	ug/Kg wet	40.00		101	77-121				1
1-Butanol	432	200	ug/Kg wet	400.0		108	70-130				1
2,2-Dichloropropane	36.7	2.00	ug/Kg wet	40.00		92	67-133				1
2-Butanone	138	28.0	ug/Kg wet	140.0		99	66-147				1
2-Chlorotoluene	37.0	4.00	ug/Kg wet	40.00		92	75-122				1
2-Hexanone	155	28.0	ug/Kg wet	140.0		111	60-145				1
4-Chlorotoluene	37.8	4.00	ug/Kg wet	40.00		95	72-124				1
4-Isopropyltoluene	38.0	8.00	ug/Kg wet	40.00		95	73-127				1
4-Methyl-2-pentanone	145	28.0	ug/Kg wet	140.0		103	65-135				1
Acetone	147	70.0	ug/Kg wet	140.0		105	36-164				1
Acrylonitrile	39.3	4.00	ug/Kg wet	40.00		98	65-134				1
Benzene	39.0	2.00	ug/Kg wet	40.00		98	77-121				1
Bromobenzene	36.6	4.00	ug/Kg wet	40.00		91	78-121				1
Bromochloromethane	39.1	4.00	ug/Kg wet	40.00		98	78-125				1
Bromodichloromethane	38.2	2.00	ug/Kg wet	40.00		95	75-127				1
Bromoform	39.1	4.00	ug/Kg wet	40.00		98	67-132				1
Bromomethane	33.2	20.0	ug/Kg wet	40.00		83	53-143				1
Carbon disulfide	32.8	4.00	ug/Kg wet	40.00		82	63-132				1
Carbon tetrachloride	44.2	2.00	ug/Kg wet	40.00		110	70-135				1
Chlorobenzene	39.1	2.00	ug/Kg wet	40.00		98	73-123				1
Chloroethane	36.3	8.00	ug/Kg wet	40.00		91	59-139				1
Chloroform	38.2	4.00	ug/Kg wet	40.00		96	73-127				1
Chloromethane	42.0	8.00	ug/Kg wet	40.00		105	50-136				1
cis-1,2-Dichloroethene	36.3	4.00	ug/Kg wet	40.00		91	77-123				1
cis-1,3-Dichloropropene	36.9	4.00	ug/Kg wet	40.00		92	74-126				1
Dibromochloromethane	38.2	2.00	ug/Kg wet	40.00		95	74-126				1
Dibromomethane	44.4	2.00	ug/Kg wet	40.00		111	78-125				1
Dichlorodifluoromethane	46.5	2.00	ug/Kg wet	40.00		116	29-149				1
Ethylbenzene	39.2	8.00	ug/Kg wet	40.00		98	76-122				1
Isopropylbenzene	37.3	4.00	ug/Kg wet	40.00		93	68-134				1
m,p-Xylene	79.9	8.00	ug/Kg wet	80.00		100	77-124				1
Methyl tert-butyl ether	38.8	2.00	ug/Kg wet	40.00		97	73-118				1
Methylene chloride	40.4	8.00	ug/Kg wet	40.00		101	70-128				1
n-Butylbenzene	38.0	4.00	ug/Kg wet	40.00		95	70-128				1
n-Propylbenzene	37.3	4.00	ug/Kg wet	40.00		93	73-125				1
o-Xylene	36.8	8.00	ug/Kg wet	40.00		92	77-123				1
sec-Butylbenzene	37.6	4.00	ug/Kg wet	40.00		94	73-126				1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast
CHW8271N
Work Order: 20H0875

Report Date: 05/07/2021
Matrix: Solid

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0H0903 - SW5035 (Continued)**LCS (B0H0903-BS1) (Continued)**

Prepared: 08/28/2020 16:07 Analyzed: 08/28/2020 17:52

Styrene	37.5	8.00	ug/Kg wet	40.00		94	76-124				1
tert-Butylbenzene	38.0	8.00	ug/Kg wet	40.00		95	73-125				1
Tetrachloroethene	45.3	4.00	ug/Kg wet	40.00		113	73-125				1
Toluene	36.9	2.00	ug/Kg wet	40.00		92	77-121				1
trans-1,2-Dichloroethene	36.3	4.00	ug/Kg wet	40.00		91	74-125				1
trans-1,3-Dichloropropene	36.8	4.00	ug/Kg wet	40.00		92	71-130				1
Trichloroethene	39.8	2.00	ug/Kg wet	40.00		99	72-126				1
Trichlorofluoromethane	39.7	2.00	ug/Kg wet	40.00		99	62-140				1
Vinyl acetate	37.4	20.0	ug/Kg wet	40.00		94	50-151				1
Vinyl chloride	39.4	4.00	ug/Kg wet	40.00		99	56-135				1
Xylenes, Total	117	12.0	ug/Kg wet	120.0		97	78-124				1
1,3-Dichloropropene, Total	73.7	8.00	ug/Kg wet	80.00		92	77-126				1
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Surrogate: Dibromofluoromethane	19.4		ug/Kg	20.00		97	86-150				1
Surrogate: 1,2-Dichloroethane-d4	20.6		ug/Kg	20.00		103	89-150				1
Surrogate: Fluorobenzene	19.3		ug/Kg	20.00		96	88-111				1
Surrogate: Toluene-d8	19.2		ug/Kg	20.00		96	66-113				1
Surrogate: 4-Bromofluorobenzene	10.1		ug/Kg	10.00		101	82-137				1
Surrogate: 1,2-Dichlorobenzene-d4	20.0		ug/Kg	20.00		100	77-142				1

LCS Dup (B0H0903-BSD1)

Prepared: 08/28/2020 16:07 Analyzed: 08/28/2020 18:17

1,1,1,2-Tetrachloroethane	40.3	2.00	ug/Kg wet	40.00		101	78-125	1	20		1
1,1,1-Trichloroethane	36.8	2.00	ug/Kg wet	40.00		92	73-113	4	20		1
1,1,2,2-Tetrachloroethane	35.6	2.00	ug/Kg wet	40.00		89	70-124	3	20		1
1,1,2-Trichloroethane	42.5	2.00	ug/Kg wet	40.00		106	78-121	1	20		1
1,1-Dichloroethane	38.4	4.00	ug/Kg wet	40.00		96	76-125	0.8	20		1
1,1-Dichloroethene	40.4	2.00	ug/Kg wet	40.00		101	70-131	0.02	20		1
1,1-Dichloropropene	36.7	4.00	ug/Kg wet	40.00		92	76-125	1	20		1
1,2,3-Trichlorobenzene	40.0	8.00	ug/Kg wet	40.00		100	66-130	3	20		1
1,2,3-Trichloropropane	41.5	4.00	ug/Kg wet	40.00		104	73-125	0.4	20		1
1,2,4-Trichlorobenzene	40.0	8.00	ug/Kg wet	40.00		100	67-129	5	20		1
1,2,4-Trimethylbenzene	38.1	8.00	ug/Kg wet	40.00		95	75-123	0.8	20		1
1,2-Dibromo-3-chloropropane	38.7	8.00	ug/Kg wet	40.00		97	69-128	12	20		1
1,2-Dibromoethane	43.0	2.00	ug/Kg wet	40.00		108	78-122	3	20		1
1,2-Dichloroethane	42.0	2.00	ug/Kg wet	40.00		105	73-128	2	20		1
1,2-Dichloropropane	40.8	2.00	ug/Kg wet	40.00		102	76-123	1	20		1
1,3,5-Trimethylbenzene	38.4	4.00	ug/Kg wet	40.00		96	71-128	2	20		1
1,3-Dichloropropane	41.7	2.00	ug/Kg wet	40.00		104	77-121	3	20		1
1-Butanol	442	200	ug/Kg wet	400.0		110	70-130	2	20		1
2,2-Dichloropropane	36.3	2.00	ug/Kg wet	40.00		91	67-133	1	20		1
2-Butanone	134	28.0	ug/Kg wet	140.0		96	66-147	3	20		1
2-Chlorotoluene	36.4	4.00	ug/Kg wet	40.00		91	75-122	2	20		1
2-Hexanone	159	28.0	ug/Kg wet	140.0		114	60-145	3	20		1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast
CHW8271N
Work Order: 20H0875

Report Date: 05/07/2021
Matrix: Solid

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0H0903 - SW5035 (Continued)**LCS Dup (B0H0903-BSD1) (Continued)**

Prepared: 08/28/2020 16:07 Analyzed: 08/28/2020 18:17

4-Chlorotoluene	37.4	4.00	ug/Kg wet	40.00		94	72-124	1	20		1
4-Isopropyltoluene	37.7	8.00	ug/Kg wet	40.00		94	73-127	0.8	20		1
4-Methyl-2-pentanone	148	28.0	ug/Kg wet	140.0		106	65-135	2	20		1
Acetone	140	70.0	ug/Kg wet	140.0		100	36-164	5	20		1
Acrylonitrile	43.2	4.00	ug/Kg wet	40.00		108	65-134	9	20		1
Benzene	38.4	2.00	ug/Kg wet	40.00		96	77-121	2	20		1
Bromobenzene	36.6	4.00	ug/Kg wet	40.00		92	78-121	0.1	20		1
Bromochloromethane	40.0	4.00	ug/Kg wet	40.00		100	78-125	2	20		1
Bromodichloromethane	37.9	2.00	ug/Kg wet	40.00		95	75-127	0.7	20		1
Bromoform	39.6	4.00	ug/Kg wet	40.00		99	67-132	1	20		1
Bromomethane	32.2	20.0	ug/Kg wet	40.00		80	53-143	3	20		1
Carbon disulfide	32.0	4.00	ug/Kg wet	40.00		80	63-132	2	20		1
Carbon tetrachloride	43.1	2.00	ug/Kg wet	40.00		108	70-135	2	20		1
Chlorobenzene	40.3	2.00	ug/Kg wet	40.00		101	73-123	3	20		1
Chloroethane	35.5	8.00	ug/Kg wet	40.00		89	59-139	2	20		1
Chloroform	38.4	4.00	ug/Kg wet	40.00		96	73-127	0.4	20		1
Chloromethane	42.9	8.00	ug/Kg wet	40.00		107	50-136	2	20		1
cis-1,2-Dichloroethene	36.7	4.00	ug/Kg wet	40.00		92	77-123	0.9	20		1
cis-1,3-Dichloropropene	37.4	4.00	ug/Kg wet	40.00		94	74-126	1	20		1
Dibromochloromethane	39.7	2.00	ug/Kg wet	40.00		99	74-126	4	20		1
Dibromomethane	45.6	2.00	ug/Kg wet	40.00		114	78-125	3	20		1
Dichlorodifluoromethane	44.5	2.00	ug/Kg wet	40.00		111	29-149	4	20		1
Ethylbenzene	39.6	8.00	ug/Kg wet	40.00		99	76-122	1	20		1
Isopropylbenzene	36.5	4.00	ug/Kg wet	40.00		91	68-134	2	20		1
m,p-Xylene	80.0	8.00	ug/Kg wet	80.00		100	77-124	0.1	20		1
Methyl tert-butyl ether	39.3	2.00	ug/Kg wet	40.00		98	73-118	1	20		1
Methylene chloride	42.1	8.00	ug/Kg wet	40.00		105	70-128	4	20		1
n-Butylbenzene	37.7	4.00	ug/Kg wet	40.00		94	70-128	0.8	20		1
n-Propylbenzene	36.5	4.00	ug/Kg wet	40.00		91	73-125	2	20		1
o-Xylene	36.1	8.00	ug/Kg wet	40.00		90	77-123	2	20		1
sec-Butylbenzene	36.8	4.00	ug/Kg wet	40.00		92	73-126	2	20		1
Styrene	38.7	8.00	ug/Kg wet	40.00		97	76-124	3	20		1
tert-Butylbenzene	37.7	8.00	ug/Kg wet	40.00		94	73-125	0.8	20		1
Tetrachloroethene	43.3	4.00	ug/Kg wet	40.00		108	73-125	4	20		1
Toluene	37.2	2.00	ug/Kg wet	40.00		93	77-121	0.8	20		1
trans-1,2-Dichloroethene	35.8	4.00	ug/Kg wet	40.00		90	74-125	1	20		1
trans-1,3-Dichloropropene	36.8	4.00	ug/Kg wet	40.00		92	71-130	0.03	20		1
Trichloroethene	39.3	2.00	ug/Kg wet	40.00		98	72-126	1	20		1
Trichlorofluoromethane	38.5	2.00	ug/Kg wet	40.00		96	62-140	3	20		1
Vinyl acetate	40.0	20.0	ug/Kg wet	40.00		100	50-151	7	20		1
Vinyl chloride	38.6	4.00	ug/Kg wet	40.00		96	56-135	2	20		1
Xylenes, Total	116	12.0	ug/Kg wet	120.0		97	78-124	0.5	20		1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast
CHW8271N
Work Order: 20H0875

Report Date: 05/07/2021
Matrix: Solid

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0H0903 - SW5035 (Continued)**LCS Dup (B0H0903-BSD1) (Continued)**

Prepared: 08/28/2020 16:07 Analyzed: 08/28/2020 18:17

1,3-Dichloropropene, Total	74.2	8.00	ug/Kg wet	80.00		93	77-126	0.7	20		1
Surrogate: Dibromofluoromethane	18.8		ug/Kg	20.00		94	86-150				1
Surrogate: 1,2-Dichloroethane-d4	19.8		ug/Kg	20.00		99	89-150				1
Surrogate: Fluorobenzene	19.1		ug/Kg	20.00		96	88-111				1
Surrogate: Toluene-d8	19.4		ug/Kg	20.00		97	66-113				1
Surrogate: 4-Bromofluorobenzene	9.70		ug/Kg	10.00		97	82-137				1
Surrogate: 1,2-Dichlorobenzene-d4	20.8		ug/Kg	20.00		104	77-142				1

Batch: B0H0930 - SW5035**Blank (B0H0930-BLK1)**

Prepared: 08/28/2020 17:00 Analyzed: 08/28/2020 19:06

1,1,1-Trichloroethane	<2.00	4.00	ug/Kg wet								1
cis-1,2-Dichloroethene	<2.00	4.00	ug/Kg wet								1
Trichloroethene	<2.00	4.00	ug/Kg wet								1
Surrogate: Dibromofluoromethane	18.9		ug/Kg	20.00		94	84-150				1
Surrogate: 1,2-Dichloroethane-d4	21.3		ug/Kg	20.00		107	72-150				1
Surrogate: Fluorobenzene	18.9		ug/Kg	20.00		95	87-109				1
Surrogate: Toluene-d8	18.3		ug/Kg	20.00		91	72-107				1
Surrogate: 4-Bromofluorobenzene	9.58		ug/Kg	10.00		96	80-126				1
Surrogate: 1,2-Dichlorobenzene-d4	20.9		ug/Kg	20.00		105	84-138				1

LCS (B0H0930-BS1)

Prepared: 08/28/2020 17:00 Analyzed: 08/28/2020 17:52

1,1,1-Trichloroethane	38.2	4.00	ug/Kg wet	40.00		95	65-127				1
cis-1,2-Dichloroethene	36.3	4.00	ug/Kg wet	40.00		91	77-123				1
Trichloroethene	39.8	4.00	ug/Kg wet	40.00		99	77-125				1
Surrogate: Dibromofluoromethane	19.4		ug/Kg	20.00		97	84-150				1
Surrogate: 1,2-Dichloroethane-d4	20.6		ug/Kg	20.00		103	72-150				1
Surrogate: Fluorobenzene	19.3		ug/Kg	20.00		96	87-109				1
Surrogate: Toluene-d8	19.2		ug/Kg	20.00		96	72-107				1
Surrogate: 4-Bromofluorobenzene	10.1		ug/Kg	10.00		101	80-126				1
Surrogate: 1,2-Dichlorobenzene-d4	20.0		ug/Kg	20.00		100	84-138				1

LCS Dup (B0H0930-BSD1)

Prepared: 08/28/2020 17:00 Analyzed: 08/28/2020 18:17

1,1,1-Trichloroethane	36.8	4.00	ug/Kg wet	40.00		92	65-127	4	20		1
cis-1,2-Dichloroethene	36.7	4.00	ug/Kg wet	40.00		92	77-123	0.9	20		1
Trichloroethene	39.3	4.00	ug/Kg wet	40.00		98	77-125	1	20		1
Surrogate: Dibromofluoromethane	18.8		ug/Kg	20.00		94	84-150				1
Surrogate: 1,2-Dichloroethane-d4	19.8		ug/Kg	20.00		99	72-150				1
Surrogate: Fluorobenzene	19.1		ug/Kg	20.00		96	87-109				1
Surrogate: Toluene-d8	19.4		ug/Kg	20.00		97	72-107				1
Surrogate: 4-Bromofluorobenzene	9.70		ug/Kg	10.00		97	80-126				1
Surrogate: 1,2-Dichlorobenzene-d4	20.8		ug/Kg	20.00		104	84-138				1

Certified Analyses included in this Report

Analyte	CAS #	Certifications
SM2540G in Solid		
Total Solids	Moist	WDNR,DoD
SW8260B in Solid		
1,1,1,2-Tetrachloroethane	630-20-6	WDNR,DoD,ILEPA
1,1,1-Trichloroethane	71-55-6	AKDEC,WDNR,DoD,ILEPA
1,1,1-Trichloroethane	71-55-6	AKDEC,WDNR,DoD,ILEPA
1,1,2,2-Tetrachloroethane	79-34-5	AKDEC,WDNR,DoD,ILEPA
1,1,2-Trichloroethane	79-00-5	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloroethane	75-34-3	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloroethene	75-35-4	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloropropene	563-58-6	WDNR,DoD,ILEPA
1,2,3-Trichlorobenzene	87-61-6	WDNR,DoD,ILEPA
1,2,3-Trichloropropane	96-18-4	AKDEC,WDNR,DoD,ILEPA
1,2,4-Trichlorobenzene	120-82-1	WDNR,DoD,ILEPA
1,2,4-Trimethylbenzene	95-63-6	WDNR,DoD,ILEPA
1,2-Dibromo-3-chloropropane	96-12-8	AKDEC,WDNR,DoD,ILEPA
1,2-Dibromoethane	106-93-4	AKDEC,WDNR,DoD,ILEPA
1,2-Dichloroethane	107-06-2	AKDEC,WDNR,DoD,ILEPA
1,2-Dichloropropane	78-87-5	AKDEC,WDNR,DoD,ILEPA
1,3,5-Trimethylbenzene	108-67-8	WDNR,DoD,ILEPA
1,3-Dichloropropane	142-28-9	WDNR,DoD,ILEPA
2,2-Dichloropropane	594-20-7	WDNR,DoD,ILEPA
2-Butanone	78-93-3	WDNR,DoD,ILEPA
2-Chlorotoluene	95-49-8	WDNR,DoD,ILEPA
2-Hexanone	591-78-6	WDNR,DoD,ILEPA
4-Chlorotoluene	106-43-4	WDNR,DoD,ILEPA
4-Isopropyltoluene	99-87-6	WDNR,DoD,ILEPA
4-Methyl-2-pentanone	108-10-1	WDNR,DoD,ILEPA
Acetone	67-64-1	WDNR,DoD,ILEPA
Benzene	71-43-2	WDNR,DoD,ILEPA
Bromobenzene	108-86-1	WDNR,DoD,ILEPA
Bromochloromethane	74-97-5	WDNR,DoD,ILEPA
Bromodichloromethane	75-27-4	AKDEC,WDNR,DoD,ILEPA
Bromoform	75-25-2	AKDEC,WDNR,DoD,ILEPA
Bromomethane	74-83-9	AKDEC,WDNR,DoD,ILEPA
Carbon disulfide	75-15-0	WDNR,DoD,ILEPA
Carbon tetrachloride	56-23-5	AKDEC,WDNR,DoD,ILEPA
Chlorobenzene	108-90-7	AKDEC,WDNR,DoD,ILEPA
Chloroethane	75-00-3	WDNR,DoD,ILEPA
Chloroform	67-66-3	AKDEC,WDNR,DoD,ILEPA
Chloromethane	74-87-3	AKDEC,WDNR,DoD,ILEPA

Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW8260B in Solid (Continued)		
cis-1,2-Dichloroethene	156-59-2	WDNR,DoD,ILEPA
cis-1,2-Dichloroethene	156-59-2	WDNR,DoD,ILEPA
cis-1,3-Dichloropropene	10061-01-5	AKDEC,WDNR,DoD,ILEPA
Dibromochloromethane	124-48-1	AKDEC,WDNR,DoD,ILEPA
Dibromomethane	74-95-3	WDNR,DoD,ILEPA
Dichlorodifluoromethane	75-71-8	WDNR,DoD,ILEPA
Ethylbenzene	100-41-4	WDNR,DoD,ILEPA
Isopropylbenzene	98-82-8	WDNR,DoD,ILEPA
m,p-Xylene	179601-23-1	WDNR,DoD,ILEPA
Methyl tert-butyl ether	1634-04-4	WDNR,DoD,ILEPA
Methylene chloride	75-09-2	AKDEC,WDNR,DoD,ILEPA
n-Butylbenzene	104-51-8	WDNR,DoD,ILEPA
n-Propylbenzene	103-65-1	WDNR,DoD,ILEPA
o-Xylene	95-47-6	WDNR,DoD,ILEPA
sec-Butylbenzene	135-98-8	WDNR,DoD,ILEPA
Styrene	100-42-5	WDNR,DoD
tert-Butylbenzene	98-06-6	WDNR,DoD,ILEPA
Tetrachloroethene	127-18-4	WDNR,DoD,ILEPA
Toluene	108-88-3	AKDEC,WDNR,DoD,ILEPA
trans-1,2-Dichloroethene	156-60-5	AKDEC,WDNR,DoD,ILEPA
trans-1,3-Dichloropropene	10061-02-6	AKDEC,WDNR,DoD,ILEPA
Trichloroethene	79-01-6	AKDEC,WDNR,DoD,ILEPA
Trichloroethene	79-01-6	AKDEC,WDNR,DoD,ILEPA
Trichlorofluoromethane	75-69-4	AKDEC,WDNR,DoD,ILEPA
Vinyl chloride	75-01-4	AKDEC,WDNR,DoD,ILEPA
Xylenes, Total	1330-20-7	WDNR,DoD,ILEPA
1,3-Dichloropropene, Total	542-75-6	AKDEC,WDNR,DoD,ILEPA

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	17-011	05/31/2022
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L18-184-R1	03/31/2021
DoD	Department of Defense, Accredited by PJLA	L18-183-R3	03/31/2022
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	1002562020-3	07/27/2021
ISO	ISO/IEC 17025, Accredited by PJLA	L18-184-R1	03/31/2022
TX	Texas Commission of Environmental Quality	T104704554-20-5	10/31/2021
WA	Washington State Department of Ecology	C1057	01/05/2022
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2021

Qualifiers and Definitions

Item	Description
S	The quality control sample recovery is outside of the laboratory control limits.
%Rec	Percent Recovery
MDL	In the state of Wisconsin MDL is equivalent to LOD; in all other applications MDL is equivalent to MDL. In the state of Wisconsin the Reporting Limit is equivalent to LOQ.



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

509 N. 3rd Avenue
Des Plaines, IL 60016



20H0875
PM: Nicole Ryan
Geosyntec DoD
Milw Die Cast

Chain of Custody Record

TURNAROUND TIME:
 RUSH
 _____ day turnaround
 ROUTINE

6735

Due Date: _____ COC #: **237564**

Company: Geosyntec Consultants
 Address: 10600 N. Port Washington Road Ste 100
Mequon, WI 53092
 Phone #: (262) 834-0228 Fax #: (____) _____
 P.O. #: _____ Proj. #: CH08271A
 Client Contact: Jeremiah Johnson
 Project ID / Location: MDC, Milwaukee, WI

Sample Type:
 1. Waste Water 4. Sludge 7. Groundwater (filtered)
 2. Drinking Water 5. Oil 8. Other
 3. Soil 6. Groundwater _____

Container Type:
 P - Plastic V - VOC Vial O - Other
 G - Glass B - Tedlar Bag _____

Preservative:
 1. None 4. NaOH 7. Zn Ace
 2. H2SO4 5. HCl 8. Other
 3. HNO3 6. MeOH NaHSO4

Analyses

EMT USE ONLY

EMT WORKORDER

20H0875

Sample I.D.	Sample Type	Container			Sampling						Preservation	
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab	
MW-5 (6-8)	3	400ml 3oz	V _G	4	CK	8/26/20	1435	-	-	4/8/11		X
MW-6 (8-10)	↓	↓	↓	↓	↓	8/26/20	1240	↓	↓	↓		↓
MW-9 (8-10)	↓	↓	↓	↓	↓	8/26/20	1440	↓	↓	↓		↓
MW-10 (8-10)	↓	↓	↓	↓	↓	8/27/20	1050	↓	↓	↓		↓
Auto PZ-10 (12-14)	↓	↓	↓	↓	↓	8/24/20	1235	↓	↓	↓		↓
MW-11 (4-6)	↓	↓	↓	↓	↓	8/26/20	1055	↓	↓	↓		↓
END CK 8-27-2020												

Relinquished By: Cody...
 Date: 8-28-20
 Time: 15:25

Relinquished By: [Signature]
 Date: 8-28-20
 Time: 17:32

Relinquished By: _____
 Date: _____
 Time: _____

Date: 8-28-20
 Time: 15:25

Date: 8-28-20
 Time: 17:32

Date: _____
 Time: _____

Received By: [Signature]
 Date: 8-28-20
 Time: 15:25

Received By: [Signature]
 Date: 8-28-20
 Time: 17:32

Received For Lab By: Aquiesha Zabawa
 Date: 0828-2020
 Time: 17:32

EMT USE ONLY

Client Code: _____

EMT Project I.D. _____

Jar Lot No. _____

SAMPLE RECEIVED ON ICE
 TEMPERATURE

2.2

EMT SAMPLE RETURN POLICY ON BACK

SPECIAL INSTRUCTIONS:

Sample Receipt Checklist

Work Order: 20H0875

Printed: 8/28/2020 6:14:59PM

Client: Geosyntec DoD
Project: Milw Die Cast

Date Due: Friday, September 4, 2020

Received By: Agnieszka B. Zabawa
Logged In By: Agnieszka B. Zabawa

Date Received: 08/28/20 17:32
Date Logged In: 08/28/20 18:14

Sample Temperature at Receipt:	2.2°C
How were samples received?	EMT
Custody Seals Present	No
Custody Seals Intact	NA
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	No

Comments

ABZ

08/28/2020

Memorandum

Date: May 7, 2021
To: Jeremiah Johnson
From: Jennifer Pinion
CC: J. Caprio
Subject: **Stage 2A Data Validation – Level II Data Deliverable – Environmental Monitoring and Technologies Work Order # 20H0875**

SITE: Milwaukee Die Casting Company Site, Milwaukee, WI

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of six soil samples, collected on August 24, 26 and 27, 2020, during a Milwaukee Die Casting Company Site sampling event. The analyses were performed by Environmental Monitoring and Technologies (EMT), Inc, Des Plaines, Illinois. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by United States (US) Environmental Protection Agency (EPA) Methods 5035/8260B

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data are usable for supporting project objectives.

The data were reviewed based on the pertinent methods referenced by the data package, professional and technical judgment and the following documents:

- Updated Site Investigation Work Plan, Milwaukee Die Casting Company Site, 4132 North Holton Street. Milwaukee, Wisconsin, November 12, 2019
- US EPA National Functional Guidelines for Organic Superfund Methods Data Review, November 2020 (EPA 540-R-20-005)

The following samples were analyzed in the data set and validated at a Stage 2A level:

Laboratory IDs	Client IDs
20H0875-01	MW-5 (6-8)
20H0875-02	MW-6 (8-10)
20H0875-03	MW-9 (8-10)

Laboratory IDs	Client IDs
20H0875-04	MW-10 (8-10)
20H0875-05	PZ-10 (12-14)
20H0875-06	MW-14 (4-6)

The samples were received at the laboratory at 2.2°C within the temperature criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

Incorrect error corrections were observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

The laboratory reports and electronic data deliverable (EDD) were revised on 5/7/2021 to correct the client name to Geosyntec Consultants.

The total solids data, used to report the sample on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs per US EPA Methods 5035/8260B

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine the impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times and Preservation
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Trip Blank
- ✓ Surrogates
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for the sample set is 100%.

1.2 Holding Times and Preservation

The holding time for the VOC analysis of a soil sample is 14 days from collection to analysis. The holding times were met for the sample analysis.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches B0H0903 and B0H0930). VOCs were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCS/LCS duplicate (LCSD) pairs were reported. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.6 Trip Blank

Trip blanks were not submitted with the sample set.

1.7 Surrogates

The surrogate recoveries were within the laboratory specified acceptance criteria.

1.8 Sensitivity

The samples were assessed to the MDLs; however, the non-detects were reported as not detected at the limits of detection (LODs). Elevated non-detect results were reported due to the dilutions analyzed.

1.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
 Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Analytical Report

Jeremiah Johnson
Geosyntec Consultants
10600 N. Port Washington Rd.
Mequon, WI 53092

September 04, 2020

Work Order: 20H0876

RE: Milw Die Cast
CHW8271N

Dear Jeremiah Johnson:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,



Tim Witrzek For Nicole Ryan
Federal Project Manager
847.967.6666
nryan@emt.com

Approved for release: 9/4/2020 1:48:00PM

Approved by,



Nathan Fey
Laboratory Operations Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Wisconsin Dept of Natural Resources, Cert No. 999888890

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Sample Summary

<u>Sample ID</u>	<u>Laboratory ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
WC-02	20H0876-01	Soil	08/27/20 15:30	08/28/20 17:32
WC-03	20H0876-02	Soil	08/27/20 15:35	08/28/20 17:32

Case Narrative

Client: Geosyntec Consultants

Date: 05/07/2021

Project: Milw Die Cast
CHW8271N

Work Order: 20H0876

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 20H0876

The samples were received on 08/28/20 17:32. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was:

<u>Cooler</u>	<u>Temp C°</u>
Default Cooler	2.2

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Client Sample Results

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0876

Client Sample ID: WC-02
Report Date: 05/07/2021
Collection Date: 08/27/2020 15:30
Matrix: Soil
Lab ID: 20H0876-01

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Metals by ICP-AES										
Method: SW6010C / SW3015 / SW1311										
Arsenic, TCLP	< 0.0400	0.0500		mg/L	0.0150	09/01/20 15:51	B0I0028	KJ1	1	
Barium, TCLP	0.214	0.0500	Q, S3	mg/L	0.00700	09/01/20 15:51	B0I0028	KJ1	1	
Cadmium, TCLP	< 0.00400	0.00500	Q, S3	mg/L	0.00140	09/01/20 15:51	B0I0028	KJ1	1	
Chromium, TCLP	< 0.0100	0.0500		mg/L	0.00400	09/01/20 15:51	B0I0028	KJ1	1	
Copper, TCLP	< 0.0200	0.0500		mg/L	0.00500	09/01/20 15:51	B0I0028	KJ1	1	
Lead, TCLP	< 0.0400	0.0500	Q, S3	mg/L	0.0120	09/01/20 15:51	B0I0028	KJ1	1	
Nickel, TCLP	< 0.0200	0.0500	Q, S3	mg/L	0.00900	09/01/20 15:51	B0I0028	KJ1	1	
Selenium, TCLP	< 0.0400	0.0500		mg/L	0.0170	09/01/20 15:51	B0I0028	KJ1	1	
Silver, TCLP	< 0.00400	0.00500		mg/L	0.00200	09/01/20 15:51	B0I0028	KJ1	1	
Zinc, TCLP	< 0.0400	0.0500		mg/L	0.0120	09/01/20 15:51	B0I0028	KJ1	1	
Mercury by CVAA										
Method: SW7470A / SW1311										
Mercury, TCLP	< 0.00040	0.00050		mg/L	0.00020	09/02/20 09:42	B0I0050	MB1	1	
Anions by Ion Chromatography										
Method: SW9056A / SW5050										
Chlorine	< 0.0929	0.0929		% (Percent)	0.00409	09/03/20 16:55	B0I0094	MM7	5	
Wet Chemistry										
Method: ASTM D5057-90										
Specific Gravity	2.36			No unit		09/03/20 14:52	B0I0130	OH1	1	
Method: ASTM D92-90										
Ignitability (open cup)	>180	35.0		°F		09/03/20 12:50	B0I0097	OH1	1	
Method: SM2540B										
Total Solids	87.7	0.100		% (Percent)	0.00500	08/31/20 05:54	B0H0910	MKP	1	
Method: SM2540G										
Total Solids	87.7	0.100		% (Percent)	0.0240	08/31/20 05:54	B0H0910	MLB	1	
Method: SW7.3.3.2/9014 by Discrete										
Reactive Cyanide	< 3.94	3.94		mg/Kg	0.0551	09/01/20 16:30	B0I0021	JE1	1	
Method: SW7.3.4.2										
Reactive Sulfide	12.0	10.0		mg/Kg	6.80	09/01/20 13:44	B0I0033	ER1	2	
Method: SW9045C										
pH	8.78			pH Units		08/31/20 13:50	B0H0936	PK1	1	
Method: SW9065										
Phenolics, Total Recoverable	< 2.20	5.51		mg/Kg	0.551	08/31/20 15:57	B0H0928	JE1	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
CHW8271N
Work Order: 20H0876

Client Sample ID: WC-02
Report Date: 05/07/2021
Collection Date: 08/27/2020 15:30
Matrix: Soil
Lab ID: 20H0876-01 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit							
Wet Chemistry (Continued)										
Method: SW9095										
Free Liquid	Pass			Pass/Fail		0	09/03/20 13:34	B0I0123	OH1	1
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3546										
Aroclor 1016	< 0.170	0.226		mg/Kg dry		0.0529	09/03/20 09:28	B0I0065	CS2	1
Aroclor 1221	< 0.340	0.566		mg/Kg dry		0.149	09/03/20 09:28	B0I0065	CS2	1
Aroclor 1232	< 0.113	0.226		mg/Kg dry		0.0455	09/03/20 09:28	B0I0065	CS2	1
Aroclor 1242	< 0.113	0.226		mg/Kg dry		0.0428	09/03/20 09:28	B0I0065	CS2	1
Aroclor 1248	< 0.113	0.226		mg/Kg dry		0.0470	09/03/20 09:28	B0I0065	CS2	1
Aroclor 1254	< 0.113	0.226		mg/Kg dry		0.0475	09/03/20 09:28	B0I0065	CS2	1
Aroclor 1260	< 0.170	0.226		mg/Kg dry		0.0584	09/03/20 09:28	B0I0065	CS2	1
Total PCB	< 0.340	0.566		mg/Kg dry		0.149	09/03/20 09:28	B0I0065	CS2	1
Surrogate: Decachlorobiphenyl				Recovery: 72%	Limits: 10-127		09/03/20 09:28	B0I0065	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				Recovery: 66%	Limits: 11-119		09/03/20 09:28	B0I0065	CS2	1
Volatile Organic Compounds by GC/MS										
Method: SW1311 / SW8260B / SW5030 / SW1311										
1,1-Dichloroethene, TCLP	< 0.100	0.200		mg/L		0.0585	09/03/20 14:14	B0I0154	KS1	1
1,2-Dichloroethane, TCLP	< 0.200	0.400		mg/L		0.0725	09/03/20 14:14	B0I0154	KS1	1
1,4-Dichlorobenzene, TCLP	< 0.100	0.200		mg/L		0.0430	09/03/20 14:14	B0I0154	KS1	1
2-Butanone, TCLP	< 1.00	2.00		mg/L		0.477	09/03/20 14:14	B0I0154	KS1	1
Benzene, TCLP	< 0.100	0.200		mg/L		0.0470	09/03/20 14:14	B0I0154	KS1	1
Carbon tetrachloride, TCLP	< 0.100	0.200		mg/L		0.0425	09/03/20 14:14	B0I0154	KS1	1
Chlorobenzene, TCLP	< 0.100	0.200		mg/L		0.0305	09/03/20 14:14	B0I0154	KS1	1
Chloroform, TCLP	0.672	0.400		mg/L		0.0650	09/03/20 14:14	B0I0154	KS1	1
Tetrachloroethene, TCLP	< 0.100	0.200		mg/L		0.0510	09/03/20 14:14	B0I0154	KS1	1
Trichloroethene, TCLP	< 0.100	0.200		mg/L		0.0450	09/03/20 14:14	B0I0154	KS1	1
Vinyl chloride, TCLP	< 0.100	0.200		mg/L		0.0525	09/03/20 14:14	B0I0154	KS1	1
Surrogate: Dibromofluoromethane, TCLP				Recovery: 93%	Limits: 78-119		09/03/20 14:14	B0I0154	KS1	1
Surrogate: 1,2-Dichloroethane-d4, TCLP				Recovery: 108%	Limits: 71-136		09/03/20 14:14	B0I0154	KS1	1
Surrogate: Fluorobenzene, TCLP				Recovery: 92%	Limits: 81-114		09/03/20 14:14	B0I0154	KS1	1
Surrogate: Toluene-d8, TCLP				Recovery: 91%	Limits: 85-116		09/03/20 14:14	B0I0154	KS1	1
Surrogate: 4-Bromofluorobenzene, TCLP				Recovery: 99%	Limits: 79-119		09/03/20 14:14	B0I0154	KS1	1
Surrogate: 1,2-Dichlorobenzene-d4, TCLP				Recovery: 108%	Limits: 80-120		09/03/20 14:14	B0I0154	KS1	1
Semivolatile Organic Compounds by GC/MS										
Method: SW1311 / SW8270D / SW3510 / SW1311										
Cresols, Total, TCLP	< 0.0175	0.0349		mg/L		0.0079	09/01/20 15:42	B0H0915	CP1	1
1,4-Dichlorobenzene, TCLP	< 0.0087	0.0175		mg/L		0.0024	09/01/20 15:42	B0H0915	CP1	1
2,4,5-Trichlorophenol, TCLP	< 0.0044	0.0087		mg/L		0.0011	09/01/20 15:42	B0H0915	CP1	1
2,4,6-Trichlorophenol, TCLP	< 0.0044	0.0087		mg/L		0.0021	09/01/20 15:42	B0H0915	CP1	1
2,4-Dinitrotoluene, TCLP	< 0.0087	0.0175		mg/L		0.0022	09/01/20 15:42	B0H0915	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0876

Client Sample ID: WC-02
Report Date: 05/07/2021
Collection Date: 08/27/2020 15:30
Matrix: Soil
Lab ID: 20H0876-01 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit							
Semivolatile Organic Compounds by GC/MS (Continued)										
Method: SW1311 / SW8270D / SW3510 / SW1311 (Continued)										
2-Methylphenol, TCLP	< 0.0044	0.0087			mg/L	0.0016	09/01/20 15:42	B0H0915	CP1	1
3 & 4-Methylphenol, TCLP	< 0.0044	0.0087			mg/L	0.0016	09/01/20 15:42	B0H0915	CP1	1
Hexachlorobenzene, TCLP	< 0.0044	0.0087			mg/L	0.0014	09/01/20 15:42	B0H0915	CP1	1
Hexachlorobutadiene, TCLP	< 0.0044	0.0087			mg/L	0.0022	09/01/20 15:42	B0H0915	CP1	1
Hexachloroethane, TCLP	< 0.0044	0.0087			mg/L	0.0019	09/01/20 15:42	B0H0915	CP1	1
Nitrobenzene, TCLP	< 0.0026	0.0052			mg/L	0.0012	09/01/20 15:42	B0H0915	CP1	1
Pentachlorophenol, TCLP	< 0.0873	0.262			mg/L	0.0220	09/01/20 15:42	B0H0915	CP1	1
Pyridine, TCLP	< 0.0436	0.0873			mg/L	0.0159	09/01/20 15:42	B0H0915	CP1	1
<hr/>										
Surrogate: 2-Fluorophenol, TCLP						Recovery: 49%	Limits: 10-85	09/01/20 15:42	B0H0915	CP1 1
Surrogate: Phenol-d5, TCLP						Recovery: 35%	Limits: 10-62	09/01/20 15:42	B0H0915	CP1 1
Surrogate: Nitrobenzene-d5, TCLP						Recovery: 63%	Limits: 25-126	09/01/20 15:42	B0H0915	CP1 1
Surrogate: 2-Fluorobiphenyl, TCLP						Recovery: 63%	Limits: 21-113	09/01/20 15:42	B0H0915	CP1 1
Surrogate: 2,4,6-Tribromophenol, TCLP						Recovery: 71%	Limits: 19-131	09/01/20 15:42	B0H0915	CP1 1
Surrogate: 4-Terphenyl-d14, TCLP						Recovery: 101%	Limits: 32-133	09/01/20 15:42	B0H0915	CP1 1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
CHW8271N
Work Order: 20H0876

Client Sample ID: WC-03
Report Date: 05/07/2021
Collection Date: 08/27/2020 15:35
Matrix: Soil
Lab ID: 20H0876-02

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Metals by ICP-AES										
Method: SW6010C / SW3015 / SW1311										
Arsenic, TCLP	< 0.0400	0.0500		mg/L	0.0150	09/01/20 15:55	B0I0028	KJ1	1	
Barium, TCLP	0.314	0.0500	Q, S3	mg/L	0.00700	09/01/20 15:55	B0I0028	KJ1	1	
Cadmium, TCLP	< 0.00400	0.00500	Q, S3	mg/L	0.00140	09/01/20 15:55	B0I0028	KJ1	1	
Chromium, TCLP	< 0.0100	0.0500		mg/L	0.00400	09/01/20 15:55	B0I0028	KJ1	1	
Copper, TCLP	< 0.0200	0.0500		mg/L	0.00500	09/01/20 15:55	B0I0028	KJ1	1	
Lead, TCLP	< 0.0400	0.0500	Q, S3	mg/L	0.0120	09/01/20 15:55	B0I0028	KJ1	1	
Nickel, TCLP	< 0.0200	0.0500	Q, S3	mg/L	0.00900	09/01/20 15:55	B0I0028	KJ1	1	
Selenium, TCLP	< 0.0400	0.0500		mg/L	0.0170	09/01/20 15:55	B0I0028	KJ1	1	
Silver, TCLP	< 0.00400	0.00500		mg/L	0.00200	09/01/20 15:55	B0I0028	KJ1	1	
Zinc, TCLP	< 0.0400	0.0500		mg/L	0.0120	09/01/20 15:55	B0I0028	KJ1	1	
Mercury by CVAA										
Method: SW7470A / SW1311										
Mercury, TCLP	< 0.00040	0.00050		mg/L	0.00020	09/02/20 09:47	B0I0050	MB1	1	
Anions by Ion Chromatography										
Method: SW9056A / SW5050										
Chlorine	< 0.0947	0.0947		% (Percent)	0.00417	09/03/20 17:23	B0I0094	MM7	5	
Wet Chemistry										
Method: ASTM D5057-90										
Specific Gravity	2.30			No unit		09/03/20 14:52	B0I0130	OH1	1	
Method: ASTM D92-90										
Ignitability (open cup)	>180	35.0		°F		09/03/20 12:50	B0I0097	OH1	1	
Method: SM2540B										
Total Solids	88.7	0.100		% (Percent)	0.00500	08/31/20 05:54	B0H0910	MKP	1	
Method: SM2540G										
Total Solids	88.7	0.100		% (Percent)	0.0240	08/31/20 05:54	B0H0910	MLB	1	
Method: SW7.3.3.2/9014 by Discrete										
Reactive Cyanide	< 3.92	3.92		mg/Kg	0.0549	09/01/20 16:31	B0I0021	JE1	1	
Method: SW7.3.4.2										
Reactive Sulfide	< 10.0	10.0		mg/Kg	6.80	09/01/20 13:44	B0I0033	ER1	2	
Method: SW9045C										
pH	8.43			pH Units		08/31/20 13:50	B0H0936	PK1	1	
Method: SW9065										
Phenolics, Total Recoverable	< 2.16	5.40		mg/Kg	0.540	08/31/20 15:58	B0H0928	JE1	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
CHW8271N
Work Order: 20H0876

Client Sample ID: WC-03
Report Date: 05/07/2021
Collection Date: 08/27/2020 15:35
Matrix: Soil
Lab ID: 20H0876-02 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit								

Wet Chemistry (Continued)

Method: SW9095

Free Liquid	Pass			Pass/Fail		0	09/03/20 13:34	B0I0123	OH1	1
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Polychlorinated Biphenyls (PCBs) by GC/ECD

Method: SW8082A / SW3546

Aroclor 1016	< 0.169	0.225		mg/Kg dry		0.0525	09/03/20 09:45	B0I0065	CS2	1
Aroclor 1221	< 0.337	0.562		mg/Kg dry		0.148	09/03/20 09:45	B0I0065	CS2	1
Aroclor 1232	< 0.112	0.225		mg/Kg dry		0.0452	09/03/20 09:45	B0I0065	CS2	1
Aroclor 1242	< 0.112	0.225		mg/Kg dry		0.0425	09/03/20 09:45	B0I0065	CS2	1
Aroclor 1248	< 0.112	0.225		mg/Kg dry		0.0466	09/03/20 09:45	B0I0065	CS2	1
Aroclor 1254	< 0.112	0.225		mg/Kg dry		0.0472	09/03/20 09:45	B0I0065	CS2	1
Aroclor 1260	< 0.169	0.225		mg/Kg dry		0.0580	09/03/20 09:45	B0I0065	CS2	1
Total PCB	< 0.337	0.562		mg/Kg dry		0.148	09/03/20 09:45	B0I0065	CS2	1

Surrogate: Decachlorobiphenyl				Recovery: 86%	Limits: 10-127		09/03/20 09:45	B0I0065	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				Recovery: 79%	Limits: 11-119		09/03/20 09:45	B0I0065	CS2	1

Volatile Organic Compounds by GC/MS

Method: SW1311 / SW8260B / SW5030 / SW1311

1,1-Dichloroethene, TCLP	< 0.100	0.200		mg/L		0.0585	09/03/20 14:39	B0I0154	KS1	1
1,2-Dichloroethane, TCLP	< 0.200	0.400		mg/L		0.0725	09/03/20 14:39	B0I0154	KS1	1
1,4-Dichlorobenzene, TCLP	< 0.100	0.200		mg/L		0.0430	09/03/20 14:39	B0I0154	KS1	1
2-Butanone, TCLP	< 1.00	2.00		mg/L		0.477	09/03/20 14:39	B0I0154	KS1	1
Benzene, TCLP	< 0.100	0.200		mg/L		0.0470	09/03/20 14:39	B0I0154	KS1	1
Carbon tetrachloride, TCLP	< 0.100	0.200		mg/L		0.0425	09/03/20 14:39	B0I0154	KS1	1
Chlorobenzene, TCLP	< 0.100	0.200		mg/L		0.0305	09/03/20 14:39	B0I0154	KS1	1
Chloroform, TCLP	< 0.200	0.400		mg/L		0.0650	09/03/20 14:39	B0I0154	KS1	1
Tetrachloroethene, TCLP	< 0.100	0.200		mg/L		0.0510	09/03/20 14:39	B0I0154	KS1	1
Trichloroethene, TCLP	< 0.100	0.200		mg/L		0.0450	09/03/20 14:39	B0I0154	KS1	1
Vinyl chloride, TCLP	< 0.100	0.200		mg/L		0.0525	09/03/20 14:39	B0I0154	KS1	1

Surrogate: Dibromofluoromethane, TCLP				Recovery: 95%	Limits: 78-119		09/03/20 14:39	B0I0154	KS1	1
Surrogate: 1,2-Dichloroethane-d4, TCLP				Recovery: 110%	Limits: 71-136		09/03/20 14:39	B0I0154	KS1	1
Surrogate: Fluorobenzene, TCLP				Recovery: 93%	Limits: 81-114		09/03/20 14:39	B0I0154	KS1	1
Surrogate: Toluene-d8, TCLP				Recovery: 94%	Limits: 85-116		09/03/20 14:39	B0I0154	KS1	1
Surrogate: 4-Bromofluorobenzene, TCLP				Recovery: 103%	Limits: 79-119		09/03/20 14:39	B0I0154	KS1	1
Surrogate: 1,2-Dichlorobenzene-d4, TCLP				Recovery: 105%	Limits: 80-120		09/03/20 14:39	B0I0154	KS1	1

Semivolatile Organic Compounds by GC/MS

Method: SW1311 / SW8270D / SW3510 / SW1311

Cresols, Total, TCLP	< 0.0173	0.0345		mg/L		0.0079	09/01/20 16:08	B0H0915	CP1	1
1,4-Dichlorobenzene, TCLP	< 0.0086	0.0173		mg/L		0.0024	09/01/20 16:08	B0H0915	CP1	1
2,4,5-Trichlorophenol, TCLP	< 0.0043	0.0086		mg/L		0.0011	09/01/20 16:08	B0H0915	CP1	1
2,4,6-Trichlorophenol, TCLP	< 0.0043	0.0086		mg/L		0.0021	09/01/20 16:08	B0H0915	CP1	1
2,4-Dinitrotoluene, TCLP	< 0.0086	0.0173		mg/L		0.0022	09/01/20 16:08	B0H0915	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0876

Client Sample ID: WC-03
Report Date: 05/07/2021
Collection Date: 08/27/2020 15:35
Matrix: Soil
Lab ID: 20H0876-02 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit							
Semivolatile Organic Compounds by GC/MS (Continued)										
Method: SW1311 / SW8270D / SW3510 / SW1311 (Continued)										
2-Methylphenol, TCLP	< 0.0043	0.0086			mg/L	0.0016	09/01/20 16:08	B0H0915	CP1	1
3 & 4-Methylphenol, TCLP	< 0.0043	0.0086			mg/L	0.0015	09/01/20 16:08	B0H0915	CP1	1
Hexachlorobenzene, TCLP	< 0.0043	0.0086			mg/L	0.0014	09/01/20 16:08	B0H0915	CP1	1
Hexachlorobutadiene, TCLP	< 0.0043	0.0086			mg/L	0.0022	09/01/20 16:08	B0H0915	CP1	1
Hexachloroethane, TCLP	< 0.0043	0.0086			mg/L	0.0019	09/01/20 16:08	B0H0915	CP1	1
Nitrobenzene, TCLP	< 0.0026	0.0052			mg/L	0.0012	09/01/20 16:08	B0H0915	CP1	1
Pentachlorophenol, TCLP	< 0.0864	0.259			mg/L	0.0218	09/01/20 16:08	B0H0915	CP1	1
Pyridine, TCLP	< 0.0432	0.0864			mg/L	0.0157	09/01/20 16:08	B0H0915	CP1	1
<i>Surrogate: 2-Fluorophenol, TCLP</i>					<i>Recovery: 44%</i>	<i>Limits: 10-85</i>	<i>09/01/20 16:08</i>	<i>B0H0915</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Phenol-d5, TCLP</i>					<i>Recovery: 30%</i>	<i>Limits: 10-62</i>	<i>09/01/20 16:08</i>	<i>B0H0915</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: Nitrobenzene-d5, TCLP</i>					<i>Recovery: 62%</i>	<i>Limits: 25-126</i>	<i>09/01/20 16:08</i>	<i>B0H0915</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2-Fluorobiphenyl, TCLP</i>					<i>Recovery: 61%</i>	<i>Limits: 21-113</i>	<i>09/01/20 16:08</i>	<i>B0H0915</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 2,4,6-Tribromophenol, TCLP</i>					<i>Recovery: 65%</i>	<i>Limits: 19-131</i>	<i>09/01/20 16:08</i>	<i>B0H0915</i>	<i>CP1</i>	<i>1</i>
<i>Surrogate: 4-Terphenyl-d14, TCLP</i>					<i>Recovery: 92%</i>	<i>Limits: 32-133</i>	<i>09/01/20 16:08</i>	<i>B0H0915</i>	<i>CP1</i>	<i>1</i>



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Dates Report

Client: Geosyntec Consultants

Report Date: 05/07/2021

Project: Milw Die Cast
CHW8271N

Work Order: 20H0876

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence				
20H0876-01	WC-02	08/27/20	Soil	Total Solids / Percent Moisture		08/31/20 05:04	08/31/20 05:54	B0H0910					
				Solids, Total (TS) in water		08/31/20 05:04	08/31/20 05:54						
				Semivolatile Organic Compounds TCLP by GC/MS	08/31/20 13:47	09/01/20 08:57	09/01/20 15:42	B0H0915	S0I0001				
				Phenol, Total		08/31/20 10:40	08/31/20 15:57	B0H0928	S0H0421				
				pH / Corrosivity- 50% mix for solid		08/31/20 13:48	08/31/20 13:50	B0H0936					
				Cyanide, Reactive		09/01/20 07:30	09/01/20 16:30	B0I0021	S0I0025				
				Lead, TCLP ICP-AES	08/31/20 13:47	09/01/20 12:17	09/01/20 15:51	B0I0028	S0I0030				
				Selenium, TCLP ICP-AES	08/31/20 13:47	09/01/20 12:17	09/01/20 15:51						
				Nickel, TCLP ICP-AES	08/31/20 13:47	09/01/20 12:17	09/01/20 15:51						
				Copper, TCLP ICP-AES	08/31/20 13:47	09/01/20 12:17	09/01/20 15:51						
				Chromium, TCLP ICP-AES	08/31/20 13:47	09/01/20 12:17	09/01/20 15:51						
				Cadmium, TCLP ICP-AES	08/31/20 13:47	09/01/20 12:17	09/01/20 15:51						
				Barium, TCLP ICP-AES	08/31/20 13:47	09/01/20 12:17	09/01/20 15:51						
				Arsenic, TCLP ICP-AES	08/31/20 13:47	09/01/20 12:17	09/01/20 15:51						
				Silver, TCLP ICP-AES	08/31/20 13:47	09/01/20 12:17	09/01/20 15:51						
				Zinc, TCLP ICP-AES	08/31/20 13:47	09/01/20 12:17	09/01/20 15:51						
				Sulfide, Reactive		09/01/20 07:30	09/01/20 13:44	B0I0033					
				Mercury, TCLP CVAA	08/31/20 13:47	09/02/20 07:15	09/02/20 09:42	B0I0050	S0I0035				
				20H0876-02	WC-03	08/27/20	Soil	Polychlorinated Biphenyls by GC/ECD		09/02/20 10:31	09/03/20 09:28	B0I0065	S0I0060
								Chlorine, Percent		09/03/20 08:13	09/03/20 16:55	B0I0094	S0I0069
Flash Point, Open Cup		09/03/20 11:30	09/03/20 12:50					B0I0097					
Paint Filter Test		09/03/20 11:50	09/03/20 13:34					B0I0123					
Specific Gravity		09/03/20 13:55	09/03/20 14:52					B0I0130					
Volatile Organic Compounds TCLP by GC/MS	09/02/20 16:42	09/03/20 10:50	09/03/20 14:14					B0I0154	S0I0074				
Total Solids / Percent Moisture		08/31/20 05:04	08/31/20 05:54					B0H0910					
Solids, Total (TS) in water		08/31/20 05:04	08/31/20 05:54										
Semivolatile Organic Compounds TCLP by GC/MS	08/31/20 13:47	09/01/20 08:57	09/01/20 16:08					B0H0915	S0I0001				
Phenol, Total		08/31/20 10:40	08/31/20 15:58					B0H0928	S0H0421				
pH / Corrosivity- 50% mix for solid		08/31/20 13:48	08/31/20 13:50	B0H0936									
Cyanide, Reactive		09/01/20 07:30	09/01/20 16:31	B0I0021	S0I0025								
Lead, TCLP ICP-AES	08/31/20 13:47	09/01/20 12:17	09/01/20 15:55	B0I0028	S0I0030								
Selenium, TCLP ICP-AES	08/31/20 13:47	09/01/20 12:17	09/01/20 15:55										
Nickel, TCLP ICP-AES	08/31/20 13:47	09/01/20 12:17	09/01/20 15:55										
Copper, TCLP ICP-AES	08/31/20 13:47	09/01/20 12:17	09/01/20 15:55										
Chromium, TCLP ICP-AES	08/31/20 13:47	09/01/20 12:17	09/01/20 15:55										
Cadmium, TCLP ICP-AES	08/31/20 13:47	09/01/20 12:17	09/01/20 15:55										
Barium, TCLP ICP-AES	08/31/20 13:47	09/01/20 12:17	09/01/20 15:55										
Arsenic, TCLP ICP-AES	08/31/20 13:47	09/01/20 12:17	09/01/20 15:55										
Silver, TCLP ICP-AES	08/31/20 13:47	09/01/20 12:17	09/01/20 15:55										
Zinc, TCLP ICP-AES	08/31/20 13:47	09/01/20 12:17	09/01/20 15:55										

Dates Report

(Continued)

Client: Geosyntec Consultants**Report Date:** 05/07/2021**Project:** Milw Die Cast
CHW8271N**Work Order:** 20H0876

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
20H0876-02	WC-03	08/27/20	Soil	Sulfide, Reactive		09/01/20 07:30	09/01/20 13:44	B010033	
				Mercury, TCLP CVAA	08/31/20 13:47	09/02/20 07:15	09/02/20 09:47	B010050	S010035
				Polychlorinated Biphenyls by GC/ECD		09/02/20 10:31	09/03/20 09:45	B010065	S010060
				Chlorine, Percent		09/03/20 08:13	09/03/20 17:23	B010094	S010069
				Flash Point, Open Cup		09/03/20 12:30	09/03/20 12:50	B010097	
				Paint Filter Test		09/03/20 13:00	09/03/20 13:34	B010123	
				Specific Gravity		09/03/20 14:40	09/03/20 14:52	B010130	
				Volatile Organic Compounds TCLP by GC/MS	09/02/20 16:42	09/03/20 10:50	09/03/20 14:39	B010154	S010074

Quality Control

Client: Geosyntec DoD
Project: Milw Die Cast
CHW8271N
Work Order: 20H0876

Report Date: 05/07/2021
Matrix: Solid

Anions by Ion Chromatography

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
Batch: B0I0094 - SW5050											
Blank (B0I0094-BLK1) <i>Prepared: 09/03/2020 08:13 Analyzed: 09/03/2020 09:30</i>											
Chlorine	< 0.000100	0.000100	%								1
Blank (B0I0094-BLK2) <i>Prepared: 09/03/2020 08:13 Analyzed: 09/03/2020 10:54</i>											
Chlorine	< 0.00976	0.00976	%								1
LCS (B0I0094-BS1) <i>Prepared: 09/03/2020 08:13 Analyzed: 09/03/2020 09:58</i>											
Chlorine	0.0000188	0.000100	%	0.00002000		94.2	80-120				1
LCS (B0I0094-BS2) <i>Prepared: 09/03/2020 08:13 Analyzed: 09/03/2020 10:26</i>											
Chlorine	0.000480	0.000100	%	0.0005000		96.1	80-120				1
Duplicate (B0I0094-DUP1) Source: 20H0876-02 <i>Prepared: 09/03/2020 08:13 Analyzed: 09/03/2020 17:51</i>											
Chlorine	< 0.00411	0.0935	%		ND				20		5
Duplicate (B0I0094-DUP2) Source: 20H0776-01 <i>Prepared: 09/03/2020 08:13 Analyzed: 09/03/2020 20:38</i>											
Chlorine	< 0.00413	0.0938	%		ND				20	X	5
Matrix Spike (B0I0094-MS1) Source: 20H0876-02 <i>Prepared: 09/03/2020 08:13 Analyzed: 09/03/2020 18:19</i>											
Chlorine	0.232	0.0947	%	0.2380	ND	97.6	70-130				5
Matrix Spike (B0I0094-MS2) Source: 20H0776-01 <i>Prepared: 09/03/2020 08:13 Analyzed: 09/03/2020 21:06</i>											
Chlorine	0.234	0.0959	%	0.2380	ND	98.2	70-130				5
Matrix Spike Dup (B0I0094-MSD1) Source: 20H0876-02 <i>Prepared: 09/03/2020 08:13 Analyzed: 09/03/2020 18:47</i>											
Chlorine	0.234	0.0947	%	0.2380	ND	98.3	70-130	0.691	20		5
Matrix Spike Dup (B0I0094-MSD2) Source: 20H0776-01 <i>Prepared: 09/03/2020 08:13 Analyzed: 09/03/2020 22:57</i>											
Chlorine	0.234	0.0959	%	0.2380	ND	98.2	70-130	0.00822	20		5
Reference (B0I0094-SRM2) <i>Prepared: 09/03/2020 08:13 Analyzed: 09/03/2020 11:22</i>											
Chlorine	0.0329	0.0193	%	0.03800		86.5	50-150				1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0876

Report Date: 05/07/2021
Matrix: Solid

Wet Chemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0H0910**Blank (B0H0910-BLK1)**

Prepared: 08/31/2020 05:04 Analyzed: 08/31/2020 06:10

Total Solids	<0.0200	0.100	%								1
Total Solids	<0.0500	0.100	%								1

LCS (B0H0910-BS1)

Prepared: 08/31/2020 05:04 Analyzed: 08/31/2020 06:12

Total Solids	0.203	0.100	%	0.2038		99.5	83.9-103				1
Total Solids	0.203	0.100	%	0.2038		99.5	83.9-103				1

Duplicate (B0H0910-DUP1)

Source: 20H0859-01

Prepared: 08/31/2020 05:04 Analyzed: 08/31/2020 06:14

Total Solids	95.1	0.100	%		95.4			0.284	5		1
Total Solids	95.1	0.100	%		ND				5		1

Duplicate (B0H0910-DUP2)

Source: 20H0877-06

Prepared: 08/31/2020 05:04 Analyzed: 08/31/2020 06:16

Total Solids	90.7	0.100	%		88.5			2.45	5		1
Total Solids	90.7	0.100	%		ND				5		1

Batch: B0H0928**Blank (B0H0928-BLK1)**

Prepared: 08/31/2020 10:40 Analyzed: 08/31/2020 15:45

Phenolics, Total Recoverable	<0.0200	0.0500	mg/Kg								1
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LCS (B0H0928-BS1)

Prepared: 08/31/2020 10:40 Analyzed: 08/31/2020 15:45

Phenolics, Total Recoverable	0.0556	0.0500	mg/Kg	0.05000		111	85-115				1
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Matrix Spike (B0H0928-MS1)

Source: 20H0797-01

Prepared: 08/31/2020 10:40 Analyzed: 08/31/2020 15:48

Phenolics, Total Recoverable	8.70	5.44	mg/Kg	5.437	3.05	104	80-120				1
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Matrix Spike Dup (B0H0928-MSD1)

Source: 20H0797-01

Prepared: 08/31/2020 10:40 Analyzed: 08/31/2020 16:33

Phenolics, Total Recoverable	8.47	5.51	mg/Kg	5.513	3.05	98.3	80-120	2.70	20		1
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Batch: B0H0936**LCS (B0H0936-BS1)**

Prepared: 08/31/2020 13:48 Analyzed: 08/31/2020 13:50

pH	7.04		pH Units	7.000		101	90-110				1
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LCS (B0H0936-BS2)

Prepared: 08/31/2020 13:48 Analyzed: 08/31/2020 13:50

pH	7.03		pH Units	7.000		100	90-110				1
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Duplicate (B0H0936-DUP1)

Source: 20H0841-28RE1

Prepared: 08/31/2020 13:48 Analyzed: 08/31/2020 13:50

pH	7.98		pH Units		8.10			1.49	10		1
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Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0876

Report Date: 05/07/2021
Matrix: Solid

Wet Chemistry

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0H0936 (Continued)**Duplicate (B0H0936-DUP2)****Source: 20H0876-01**

Prepared: 08/31/2020 13:48 Analyzed: 08/31/2020 13:50

pH	8.48		pH Units		8.78			3.48	10		1
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Batch: B0I0021**Blank (B0I0021-BLK1)**

Prepared: 09/01/2020 07:30 Analyzed: 09/01/2020 16:22

Reactive Cyanide	< 2.00	2.00	mg/Kg								1
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LCS (B0I0021-BS1)

Prepared: 09/01/2020 07:30 Analyzed: 09/01/2020 16:24

Reactive Cyanide	0.171	2.00	mg/Kg	1.964		8.72	0.58-22				1
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Duplicate (B0I0021-DUP1)**Source: 20H0867-01**

Prepared: 09/01/2020 07:30 Analyzed: 09/01/2020 16:28

Reactive Cyanide	< 0.0543	3.88	mg/Kg		ND				10		1
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Batch: B0I0033**Blank (B0I0033-BLK1)**

Prepared: 09/01/2020 07:30 Analyzed: 09/01/2020 13:44

Reactive Sulfide	< 10.0	10.0	mg/Kg								2
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LCS (B0I0033-BS1)

Prepared: 09/01/2020 07:30 Analyzed: 09/01/2020 13:44

Reactive Sulfide	152		mg/Kg	156.0		97.4	80-120				1
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Duplicate (B0I0033-DUP1)**Source: 20H0867-01**

Prepared: 09/01/2020 07:30 Analyzed: 09/01/2020 13:44

Reactive Sulfide	< 6.80	10.0	mg/Kg		ND				20		2
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Batch: B0I0123**Duplicate (B0I0123-DUP1)****Source: 20H0867-01**

Prepared: 09/03/2020 10:40 Analyzed: 09/03/2020 13:34

Free Liquid	Pass	0	Pass/Fail		ND				200		1
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Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast
CHW8271N
Work Order: 20H0876

Report Date: 05/07/2021
Matrix: Solid

Polychlorinated Biphenyls (PCBs) by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0I0065 - SW3546**Blank (B0I0065-BLK1)**

Prepared: 09/02/2020 10:31 Analyzed: 09/03/2020 08:54

Aroclor 1016	<0.149	0.199	mg/Kg wet								1
Aroclor 1221	<0.298	0.497	mg/Kg wet								1
Aroclor 1232	<0.0994	0.199	mg/Kg wet								1
Aroclor 1242	<0.0994	0.199	mg/Kg wet								1
Aroclor 1248	<0.0994	0.199	mg/Kg wet								1
Aroclor 1254	<0.0994	0.199	mg/Kg wet								1
Aroclor 1260	<0.149	0.199	mg/Kg wet								1
Total PCB	<0.298	0.497	mg/Kg wet								1
Surrogate: Decachlorobiphenyl	0.203		mg/Kg wet	0.1989		102	10-127				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.175		mg/Kg wet	0.1989		88	11-119				1

LCS (B0I0065-BS1)

Prepared: 09/02/2020 10:31 Analyzed: 09/03/2020 09:11

Aroclor 1016	0.337	0.199	mg/Kg wet	0.3983		85	70-130				1
Aroclor 1260	0.364	0.199	mg/Kg wet	0.3983		91	55-155				1
Surrogate: Decachlorobiphenyl	0.196		mg/Kg wet	0.1991		99	10-127				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.165		mg/Kg wet	0.1991		83	11-119				1

Matrix Spike (B0I0065-MS1)

Source: 20H0877-06

Prepared: 09/02/2020 10:31 Analyzed: 09/03/2020 11:47

Aroclor 1016	0.328	0.224	mg/Kg dry	0.4484	ND	73	35-128				1
Aroclor 1260	0.318	0.224	mg/Kg dry	0.4484	ND	71	14-142				1
Surrogate: Decachlorobiphenyl	0.184		mg/Kg dry	0.2242		82	10-127				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.169		mg/Kg dry	0.2242		75	11-119				1

Matrix Spike Dup (B0I0065-MSD1)

Source: 20H0877-06

Prepared: 09/02/2020 10:31 Analyzed: 09/03/2020 12:04

Aroclor 1016	0.338	0.225	mg/Kg dry	0.4504	ND	75	35-128	3	28		1
Aroclor 1260	0.323	0.225	mg/Kg dry	0.4504	ND	72	14-142	2	33		1
Surrogate: Decachlorobiphenyl	0.191		mg/Kg dry	0.2252		85	10-127				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.175		mg/Kg dry	0.2252		78	11-119				1



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Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0876

Report Date: 05/07/2021
Matrix: Waste

Wet Chemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0I0130

Duplicate (B0I0130-DUP1)		Source: 20H0876-01		<i>Prepared: 09/03/2020 13:55</i>		<i>Analyzed: 09/03/2020 14:52</i>		
Specific Gravity	2.36	No unit		2.36		0.242	10	1
Duplicate (B0I0130-DUP2)		Source: 20H0876-02		<i>Prepared: 09/03/2020 14:40</i>		<i>Analyzed: 09/03/2020 14:52</i>		
Specific Gravity	2.24	No unit		2.30		2.79	10	1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast
CHW8271N
Work Order: 20H0876

Report Date: 05/07/2021
Matrix: Waste

Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0I0154 - SW5030**Blank (B0I0154-BLK1)**

Prepared: 09/03/2020 10:50 Analyzed: 09/03/2020 13:25

1,1-Dichloroethene	<0.00200	0.00400	mg/L								1
1,2-Dichloroethane	<0.00400	0.00800	mg/L								1
1,4-Dichlorobenzene	<0.00200	0.00400	mg/L								1
2-Butanone	<0.0200	0.0400	mg/L								1
Benzene	<0.00200	0.00400	mg/L								1
Carbon tetrachloride	<0.00200	0.00400	mg/L								1
Chlorobenzene	<0.00200	0.00400	mg/L								1
Chloroform	<0.00400	0.00800	mg/L								1
Tetrachloroethene	<0.00200	0.00400	mg/L								1
Trichloroethene	<0.00200	0.00400	mg/L								1
Vinyl chloride	<0.00200	0.00400	mg/L								1
<hr/>											
Surrogate: Dibromofluoromethane	18.8		ug/L	20.00		94	78-119				1
Surrogate: 1,2-Dichloroethane-d4	21.4		ug/L	20.00		107	71-136				1
Surrogate: Fluorobenzene	18.7		ug/L	20.00		94	81-114				1
Surrogate: Toluene-d8	18.6		ug/L	20.00		93	85-116				1
Surrogate: 4-Bromofluorobenzene	10.1		ug/L	10.00		101	79-119				1
Surrogate: 1,2-Dichlorobenzene-d4	21.1		ug/L	20.00		106	80-120				1

LCS (B0I0154-BS1)

Prepared: 09/03/2020 10:50 Analyzed: 09/03/2020 12:09

1,1-Dichloroethene	0.0412	0.00400	mg/L	0.04000		103	71-131				1
1,2-Dichloroethane	0.0442	0.00800	mg/L	0.04000		110	73-128				1
1,4-Dichlorobenzene	0.0370	0.00400	mg/L	0.04000		92	84-129				1
2-Butanone	0.144	0.0400	mg/L	0.1400		103	71-119				1
Benzene	0.0380	0.00400	mg/L	0.04000		95	79-120				1
Carbon tetrachloride	0.0438	0.00400	mg/L	0.04000		110	75-125				1
Chlorobenzene	0.0388	0.00400	mg/L	0.04000		97	82-118				1
Chloroform	0.0401	0.00800	mg/L	0.04000		100	79-124				1
Tetrachloroethene	0.0419	0.00400	mg/L	0.04000		105	74-129				1
Trichloroethene	0.0395	0.00400	mg/L	0.04000		99	84-129				1
Vinyl chloride	0.0410	0.00400	mg/L	0.04000		103	58-137				1
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Surrogate: Dibromofluoromethane	20.3		ug/L	20.00		101	78-119				1
Surrogate: 1,2-Dichloroethane-d4	21.0		ug/L	20.00		105	71-136				1
Surrogate: Fluorobenzene	18.6		ug/L	20.00		93	81-114				1
Surrogate: Toluene-d8	18.4		ug/L	20.00		92	85-116				1
Surrogate: 4-Bromofluorobenzene	9.43		ug/L	10.00		94	79-119				1
Surrogate: 1,2-Dichlorobenzene-d4	19.8		ug/L	20.00		99	80-120				1

LCS Dup (B0I0154-BSD1)

Prepared: 09/03/2020 10:50 Analyzed: 09/03/2020 12:33

1,1-Dichloroethene	0.0398	0.00400	mg/L	0.04000		99	71-131	3	20		1
1,2-Dichloroethane	0.0415	0.00800	mg/L	0.04000		104	73-128	6	20		1
1,4-Dichlorobenzene	0.0382	0.00400	mg/L	0.04000		96	84-129	3	20		1
2-Butanone	0.126	0.0400	mg/L	0.1400		90	71-119	14	20		1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast
CHW8271N
Work Order: 20H0876

Report Date: 05/07/2021
Matrix: Waste

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0I0154 - SW5030 (Continued)**LCS Dup (B0I0154-BSD1) (Continued)**

Prepared: 09/03/2020 10:50 Analyzed: 09/03/2020 12:33

Benzene	0.0382	0.00400	mg/L	0.04000		95	79-120	0.4	20		1
Carbon tetrachloride	0.0451	0.00400	mg/L	0.04000		113	75-125	3	20		1
Chlorobenzene	0.0384	0.00400	mg/L	0.04000		96	82-118	1	20		1
Chloroform	0.0388	0.00800	mg/L	0.04000		97	79-124	3	20		1
Tetrachloroethene	0.0434	0.00400	mg/L	0.04000		109	74-129	4	20		1
Trichloroethene	0.0383	0.00400	mg/L	0.04000		96	84-129	3	20		1
Vinyl chloride	0.0380	0.00400	mg/L	0.04000		95	58-137	8	20		1
<i>Surrogate: Dibromofluoromethane</i>	19.1		ug/L	20.00		96	78-119				1
<i>Surrogate: 1,2-Dichloroethane-d4</i>	20.2		ug/L	20.00		101	71-136				1
<i>Surrogate: Fluorobenzene</i>	18.6		ug/L	20.00		93	81-114				1
<i>Surrogate: Toluene-d8</i>	18.9		ug/L	20.00		95	85-116				1
<i>Surrogate: 4-Bromofluorobenzene</i>	9.98		ug/L	10.00		100	79-119				1
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	20.0		ug/L	20.00		100	80-120				1

Matrix Spike (B0I0154-MS1)**Source: 20I0185-05**

Prepared: 09/03/2020 10:50 Analyzed: 09/03/2020 18:45

1,1-Dichloroethene	2.03	0.200	mg/L	2.000	ND	101	70-130				1
1,2-Dichloroethane	2.27	0.400	mg/L	2.000	ND	113	70-130				1
1,4-Dichlorobenzene	1.81	0.200	mg/L	2.000	ND	90	70-130				1
2-Butanone	5.62	2.00	mg/L	7.000	ND	80	70-130				1
Benzene	1.94	0.200	mg/L	2.000	ND	97	70-130				1
Carbon tetrachloride	2.13	0.200	mg/L	2.000	0.143	99	70-130				1
Chlorobenzene	1.93	0.200	mg/L	2.000	ND	96	70-130				1
Chloroform	2.04	0.400	mg/L	2.000	ND	102	70-130				1
Tetrachloroethene	2.08	0.200	mg/L	2.000	ND	104	70-130				1
Trichloroethene	1.92	0.200	mg/L	2.000	ND	96	70-130				1
Vinyl chloride	2.08	0.200	mg/L	2.000	ND	104	70-130				1
<i>Surrogate: Dibromofluoromethane</i>	19.7		ug/L	20.00		98	78-119				1
<i>Surrogate: 1,2-Dichloroethane-d4</i>	21.4		ug/L	20.00		107	71-136				1
<i>Surrogate: Fluorobenzene</i>	19.1		ug/L	20.00		96	81-114				1
<i>Surrogate: Toluene-d8</i>	18.7		ug/L	20.00		93	85-116				1
<i>Surrogate: 4-Bromofluorobenzene</i>	9.82		ug/L	10.00		98	79-119				1
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	19.7		ug/L	20.00		99	80-120				1

Matrix Spike Dup (B0I0154-MSD1)**Source: 20I0185-05**

Prepared: 09/03/2020 10:50 Analyzed: 09/03/2020 19:09

1,1-Dichloroethene	1.96	0.200	mg/L	2.000	ND	98	70-130	3	20		1
1,2-Dichloroethane	2.21	0.400	mg/L	2.000	ND	111	70-130	2	20		1
1,4-Dichlorobenzene	1.94	0.200	mg/L	2.000	ND	97	70-130	7	20		1
2-Butanone	5.45	2.00	mg/L	7.000	ND	78	70-130	3	20		1
Benzene	1.95	0.200	mg/L	2.000	ND	98	70-130	0.7	20		1
Carbon tetrachloride	2.16	0.200	mg/L	2.000	0.143	101	70-130	2	20		1
Chlorobenzene	2.00	0.200	mg/L	2.000	ND	100	70-130	4	20		1
Chloroform	1.96	0.400	mg/L	2.000	ND	98	70-130	4	20		1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0876

Report Date: 05/07/2021
Matrix: Waste

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0I0154 - SW5030 (Continued)**Matrix Spike Dup (B0I0154-MSD1) (Continued)****Source: 20I0185-05**

Prepared: 09/03/2020 10:50 Analyzed: 09/03/2020 19:09

Tetrachloroethene	2.08	0.200	mg/L	2.000	ND	104	70-130	0.02	20		1
Trichloroethene	1.99	0.200	mg/L	2.000	ND	99	70-130	3	20		1
Vinyl chloride	1.98	0.200	mg/L	2.000	ND	99	70-130	5	20		1
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Surrogate: Dibromofluoromethane	19.1		ug/L	20.00		96	78-119				1
Surrogate: 1,2-Dichloroethane-d4	20.2		ug/L	20.00		101	71-136				1
Surrogate: Fluorobenzene	19.0		ug/L	20.00		95	81-114				1
Surrogate: Toluene-d8	19.3		ug/L	20.00		96	85-116				1
Surrogate: 4-Bromofluorobenzene	10.2		ug/L	10.00		102	79-119				1
Surrogate: 1,2-Dichlorobenzene-d4	19.6		ug/L	20.00		98	80-120				1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast
CHW8271N
Work Order: 20H0876

Report Date: 05/07/2021
Matrix: Water

Metals by ICP-AES

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0I0028 - SW3015**Blank (B0I0028-BLK1)**

Prepared: 09/01/2020 12:17 Analyzed: 09/01/2020 15:10

Arsenic	<0.0400	0.0500	mg/L								1
Barium	<0.0200	0.0500	mg/L								1
Cadmium	<0.00400	0.00500	mg/L								1
Chromium	<0.0100	0.0500	mg/L								1
Copper	<0.0200	0.0500	mg/L								1
Lead	<0.0400	0.0500	mg/L								1
Nickel	<0.0200	0.0500	mg/L								1
Selenium	<0.0400	0.0500	mg/L								1
Silver	<0.00400	0.00500	mg/L								1
Zinc	<0.0400	0.0500	mg/L								1

TCLP Blank (B0I0028-BLK2)

Prepared: 09/01/2020 12:17 Analyzed: 09/01/2020 15:14

Arsenic	<0.0400	0.0500	mg/L								1
Barium	<0.0200	0.0500	mg/L								1
Cadmium	<0.00400	0.00500	mg/L								1
Chromium	<0.0100	0.0500	mg/L								1
Copper	<0.0200	0.0500	mg/L								1
Lead	<0.0400	0.0500	mg/L								1
Nickel	<0.0200	0.0500	mg/L								1
Selenium	<0.0400	0.0500	mg/L								1
Silver	<0.00400	0.00500	mg/L								1
Zinc	<0.0400	0.0500	mg/L								1

LCS (B0I0028-BS1)

Prepared: 09/01/2020 12:17 Analyzed: 09/01/2020 15:19

Arsenic	1.17	0.0500	mg/L	1.250		93.8	87.3-103				1
Barium	1.22	0.0500	mg/L	1.250		97.4	85-111				1
Cadmium	0.132	0.00500	mg/L	0.1250		105	85-112				1
Chromium	1.26	0.0500	mg/L	1.250		101	85.3-109				1
Copper	1.28	0.0500	mg/L	1.250		103	85-114				1
Lead	1.26	0.0500	mg/L	1.250		101	90.4-109				1
Nickel	1.28	0.0500	mg/L	1.250		102	88.3-108				1
Selenium	1.26	0.0500	mg/L	1.250		101	85-110				1
Silver	0.128	0.00500	mg/L	0.1250		103	85-112				1
Zinc	1.26	0.0500	mg/L	1.250		100	86.5-108				1

Serial Dilution (B0I0028-DUP1)

Source: 20H0864-01

Prepared: 09/01/2020 12:17 Analyzed: 09/01/2020 16:25

Arsenic	<0.200	0.250	mg/L		ND				10		5
Barium	0.840	0.250	mg/L		0.926			9.77	10		5
Cadmium	<0.0200	0.0250	mg/L		ND				10		5
Chromium	<0.0500	0.250	mg/L		ND				10		5
Copper	<0.100	0.250	mg/L		ND				10		5
Lead	<0.200	0.250	mg/L		ND				10		5

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast
CHW8271N
Work Order: 20H0876

Report Date: 05/07/2021
Matrix: Water

Metals by ICP-AES

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0I0028 - SW3015 (Continued)**Serial Dilution (B0I0028-DUP1) (Continued)****Source: 20H0864-01**

Prepared: 09/01/2020 12:17 Analyzed: 09/01/2020 16:25

Nickel	<0.100	0.250	mg/L		ND				10		5
Selenium	<0.200	0.250	mg/L		ND				10		5
Silver	<0.0200	0.0250	mg/L		ND				10		5
Zinc	0.0644	0.250	mg/L		0.0676			4.92	10		5

MRL Check (B0I0028-MRL1)

Prepared: 09/01/2020 12:17 Analyzed: 09/01/2020 15:23

Arsenic	0.0619	0.0500	mg/L	0.06250		99.0	70-130				1
Barium	0.0660	0.0500	mg/L	0.06250		106	70-130				1
Cadmium	0.00662	0.00500	mg/L	0.006250		106	70-130				1
Chromium	0.0678	0.0500	mg/L	0.06250		108	70-130				1
Copper	0.0708	0.0500	mg/L	0.06250		113	70-130				1
Lead	0.0691	0.0500	mg/L	0.06250		111	70-130				1
Nickel	0.0662	0.0500	mg/L	0.06250		106	70-130				1
Selenium	0.0658	0.0500	mg/L	0.06250		105	70-130				1
Silver	0.00888	0.00500	mg/L	0.006250		142	70-130			S	1
Zinc	0.0695	0.0500	mg/L	0.06250		111	70-130				1

Matrix Spike (B0I0028-MS1)**Source: 20H0864-01**

Prepared: 09/01/2020 12:17 Analyzed: 09/01/2020 16:04

Arsenic	1.16	0.0500	mg/L	1.250	ND	92.7	75-125				1
Barium	2.14	0.0500	mg/L	1.250	0.926	97.4	75-125				1
Cadmium	0.115	0.00500	mg/L	0.1250	ND	91.9	75-125				1
Chromium	1.17	0.0500	mg/L	1.250	0.00512	93.1	75-125				1
Copper	1.22	0.0500	mg/L	1.250	0.00725	96.9	75-125				1
Lead	1.15	0.0500	mg/L	1.250	0.0212	90.1	75-125				1
Nickel	1.13	0.0500	mg/L	1.250	ND	90.7	75-125				1
Selenium	1.29	0.0500	mg/L	1.250	ND	103	75-125				1
Silver	0.118	0.00500	mg/L	0.1250	ND	94.7	75-125				1
Zinc	1.28	0.0500	mg/L	1.250	0.0676	96.7	75-125				1

Matrix Spike Dup (B0I0028-MSD1)**Source: 20H0864-01**

Prepared: 09/01/2020 12:17 Analyzed: 09/01/2020 16:08

Arsenic	1.16	0.0500	mg/L	1.250	ND	93.0	75-125	0.248	20		1
Barium	2.13	0.0500	mg/L	1.250	0.926	96.6	75-125	0.468	20		1
Cadmium	0.115	0.00500	mg/L	0.1250	ND	92.1	75-125	0.217	20		1
Chromium	1.18	0.0500	mg/L	1.250	0.00512	93.6	75-125	0.512	20		1
Copper	1.22	0.0500	mg/L	1.250	0.00725	96.9	75-125	0.0821	20		1
Lead	1.15	0.0500	mg/L	1.250	0.0212	90.4	75-125	0.348	20		1
Nickel	1.14	0.0500	mg/L	1.250	ND	91.2	75-125	0.539	20		1
Selenium	1.30	0.0500	mg/L	1.250	ND	104	75-125	0.483	20		1
Silver	0.119	0.00500	mg/L	0.1250	ND	95.1	75-125	0.421	20		1
Zinc	1.28	0.0500	mg/L	1.250	0.0676	96.9	75-125	0.196	20		1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0876

Report Date: 05/07/2021**Matrix:** Water**Metals by ICP-AES**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0I0028 - SW3015 (Continued)**Post Spike (B0I0028-PS1)****Source: 20H0864-01**

Prepared: 09/01/2020 12:17 Analyzed: 09/01/2020 16:12

Arsenic	0.685	0.0556	mg/L	0.6944	ND	98.6	80-120				1
Barium	1.62	0.0556	mg/L	0.6944	0.926	99.6	80-120				1
Cadmium	0.648	0.00556	mg/L	0.6944	ND	93.3	80-120				1
Chromium	0.657	0.0556	mg/L	0.6944	0.00512	93.8	80-120				1
Copper	0.695	0.0556	mg/L	0.6944	0.00725	99.0	80-120				1
Lead	0.665	0.0556	mg/L	0.6944	0.0212	92.6	80-120				1
Nickel	0.648	0.0556	mg/L	0.6944	ND	93.2	80-120				1
Selenium	0.712	0.0556	mg/L	0.6944	ND	102	80-120				1
Silver	0.661	0.00556	mg/L	0.6944	ND	95.2	80-120				1
Zinc	0.748	0.0556	mg/L	0.6944	0.0676	98.0	80-120				1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast
CHW8271N
Work Order: 20H0876

Report Date: 05/07/2021
Matrix: Water

Mercury by CVAA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0I0050**Blank (B0I0050-BLK1)***Prepared: 09/02/2020 07:15 Analyzed: 09/02/2020 09:36*

Mercury	<0.00040	0.00050	mg/L								1
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TCLP Blank (B0I0050-BLK2)*Prepared: 09/02/2020 07:15 Analyzed: 09/02/2020 09:51*

Mercury	<0.00040	0.00050	mg/L								1
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LCS (B0I0050-BS1)*Prepared: 09/02/2020 07:15 Analyzed: 09/02/2020 09:38*

Mercury	0.00531	0.00050	mg/L	0.005000		106	87.6-112				1
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MRL Check (B0I0050-MRL1)*Prepared: 09/02/2020 07:15 Analyzed: 09/02/2020 09:32*

Mercury	0.00053	0.00050	mg/L	0.0005000		106	70-130				1
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Matrix Spike (B0I0050-MS1)**Source: 20H0876-01***Prepared: 09/02/2020 07:15 Analyzed: 09/02/2020 09:43*

Mercury	0.00234	0.00050	mg/L	0.002000	0.00025	105	75-125				1
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Matrix Spike (B0I0050-MS2)**Source: 20H0914-01***Prepared: 09/02/2020 07:15 Analyzed: 09/02/2020 09:54*

Mercury	0.00171	0.00050	mg/L	0.002000	ND	85.5	75-125				1
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Matrix Spike Dup (B0I0050-MSD1)**Source: 20H0876-01***Prepared: 09/02/2020 07:15 Analyzed: 09/02/2020 09:45*

Mercury	0.00195	0.00050	mg/L	0.002000	0.00025	85.2	75-125	18.3	20		1
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Matrix Spike Dup (B0I0050-MSD2)**Source: 20H0914-01***Prepared: 09/02/2020 07:15 Analyzed: 09/02/2020 10:01*

Mercury	0.00189	0.00050	mg/L	0.002000	ND	94.6	75-125	10.2	20		1
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Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast
CHW8271N
Work Order: 20H0876

Report Date: 05/07/2021
Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0H0915 - SW3510**Blank (B0H0915-BLK1)**

Prepared: 08/31/2020 09:10 Analyzed: 09/01/2020 07:01

Cresols, Total	<0.0020	0.0040	mg/L								1
1,4-Dichlorobenzene	<0.0010	0.0020	mg/L								1
2,4,5-Trichlorophenol	<0.0005	0.0010	mg/L								1
2,4,6-Trichlorophenol	<0.0005	0.0010	mg/L								1
2,4-Dinitrotoluene	<0.0010	0.0020	mg/L								1
2-Methylphenol	<0.0005	0.0010	mg/L								1
3 & 4-Methylphenol	<0.0005	0.0010	mg/L								1
Hexachlorobenzene	<0.0005	0.0010	mg/L								1
Hexachlorobutadiene	<0.0005	0.0010	mg/L								1
Hexachloroethane	<0.0005	0.0010	mg/L								1
Nitrobenzene	<0.0003	0.0006	mg/L								1
Pentachlorophenol	<0.0100	0.0300	mg/L								1
Pyridine	<0.0050	0.0100	mg/L								1
<hr/>											
Surrogate: 2-Fluorophenol	0.0286		mg/L	0.06667		43	10-85				1
Surrogate: Phenol-d5	0.0219		mg/L	0.06667		33	10-62				1
Surrogate: Nitrobenzene-d5	0.0341		mg/L	0.06667		51	25-126				1
Surrogate: 2-Fluorobiphenyl	0.0304		mg/L	0.06667		46	21-113				1
Surrogate: 2,4,6-Tribromophenol	0.0322		mg/L	0.06667		48	19-131				1
Surrogate: 4-Terphenyl-d14	0.0450		mg/L	0.06667		67	32-133				1

LCS (B0H0915-BS1)

Prepared: 08/31/2020 09:10 Analyzed: 09/01/2020 07:27

Cresols, Total	0.0590	0.0040	mg/L	0.08000		74	32-104				1
1,4-Dichlorobenzene	0.0264	0.0020	mg/L	0.04000		66	31-97				1
2,4,5-Trichlorophenol	0.0320	0.0010	mg/L	0.04000		80	38-126				1
2,4,6-Trichlorophenol	0.0322	0.0010	mg/L	0.04000		80	38-124				1
2,4-Dinitrotoluene	0.0341	0.0020	mg/L	0.04000		85	39-124				1
2-Methylphenol	0.0284	0.0010	mg/L	0.04000		71	34-105				1
3 & 4-Methylphenol	0.0307	0.0010	mg/L	0.04000		77	34-102				1
Hexachlorobenzene	0.0320	0.0010	mg/L	0.04000		80	44-112				1
Hexachlorobutadiene	0.0232	0.0010	mg/L	0.04000		58	32-100				1
Hexachloroethane	0.0216	0.0010	mg/L	0.04000		54	29-98				1
Nitrobenzene	0.0283	0.0006	mg/L	0.04000		71	42-111				1
Pentachlorophenol	0.0229	0.0300	mg/L	0.04000		57	29-120				1
Pyridine	0.0224	0.0100	mg/L	0.04000		56	24-89				1
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Surrogate: 2-Fluorophenol	0.0416		mg/L	0.06667		62	10-85				1
Surrogate: Phenol-d5	0.0318		mg/L	0.06667		48	10-62				1
Surrogate: Nitrobenzene-d5	0.0482		mg/L	0.06667		72	25-126				1
Surrogate: 2-Fluorobiphenyl	0.0494		mg/L	0.06667		74	21-113				1
Surrogate: 2,4,6-Tribromophenol	0.0527		mg/L	0.06667		79	19-131				1
Surrogate: 4-Terphenyl-d14	0.0608		mg/L	0.06667		91	32-133				1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast
CHW8271N
Work Order: 20H0876

Report Date: 05/07/2021
Matrix: Water

Semivolatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0H0915 - SW3510 (Continued)**Matrix Spike (B0H0915-MS1)****Source: 20H0797-01**

Prepared: 08/31/2020 09:10 Analyzed: 09/01/2020 08:19

Cresols, Total	0.420	0.0375	mg/L	0.7498	ND	56	28-105				1
1,4-Dichlorobenzene	0.161	0.0187	mg/L	0.3749	ND	43	31-88				1
2,4,5-Trichlorophenol	0.238	0.0094	mg/L	0.3749	ND	63	54-120				1
2,4,6-Trichlorophenol	0.233	0.0094	mg/L	0.3749	ND	62	51-117				1
2,4-Dinitrotoluene	0.241	0.0187	mg/L	0.3749	ND	64	49-124				1
2-Methylphenol	0.208	0.0094	mg/L	0.3749	ND	56	32-107				1
3 & 4-Methylphenol	0.212	0.0094	mg/L	0.3749	ND	57	20-115				1
Hexachlorobenzene	0.227	0.0094	mg/L	0.3749	ND	61	51-110				1
Hexachlorobutadiene	0.153	0.0094	mg/L	0.3749	ND	41	29-94				1
Hexachloroethane	0.139	0.0094	mg/L	0.3749	ND	37	25-89				1
Nitrobenzene	0.208	0.0056	mg/L	0.3749	ND	56	39-113				1
Pentachlorophenol	0.157	0.281	mg/L	0.3749	ND	42	12-122				1
Pyridine	0.165	0.0937	mg/L	0.3749	ND	44	14-91				1
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Surrogate: 2-Fluorophenol	0.294		mg/L	0.6248		47	10-85				1
Surrogate: Phenol-d5	0.218		mg/L	0.6248		35	10-62				1
Surrogate: Nitrobenzene-d5	0.354		mg/L	0.6248		57	25-126				1
Surrogate: 2-Fluorobiphenyl	0.360		mg/L	0.6248		58	21-113				1
Surrogate: 2,4,6-Tribromophenol	0.377		mg/L	0.6248		60	19-131				1
Surrogate: 4-Terphenyl-d14	0.433		mg/L	0.6248		69	32-133				1

Matrix Spike Dup (B0H0915-MSD1)**Source: 20H0797-01**

Prepared: 08/31/2020 09:10 Analyzed: 09/01/2020 08:45

Cresols, Total	0.491	0.0369	mg/L	0.7373	ND	67	28-105	15	30		1
1,4-Dichlorobenzene	0.217	0.0184	mg/L	0.3687	ND	59	31-88	29	32		1
2,4,5-Trichlorophenol	0.271	0.0092	mg/L	0.3687	ND	74	54-120	13	22		1
2,4,6-Trichlorophenol	0.272	0.0092	mg/L	0.3687	ND	74	51-117	16	33		1
2,4-Dinitrotoluene	0.276	0.0184	mg/L	0.3687	ND	75	49-124	14	23		1
2-Methylphenol	0.240	0.0092	mg/L	0.3687	ND	65	32-107	14	32		1
3 & 4-Methylphenol	0.251	0.0092	mg/L	0.3687	ND	68	20-115	17	32		1
Hexachlorobenzene	0.256	0.0092	mg/L	0.3687	ND	69	51-110	12	20		1
Hexachlorobutadiene	0.215	0.0092	mg/L	0.3687	ND	58	29-94	33	28	P	1
Hexachloroethane	0.192	0.0092	mg/L	0.3687	ND	52	25-89	32	32		1
Nitrobenzene	0.252	0.0055	mg/L	0.3687	ND	68	39-113	19	30		1
Pentachlorophenol	0.190	0.276	mg/L	0.3687	ND	51	12-122	19	46		1
Pyridine	0.202	0.0922	mg/L	0.3687	ND	55	14-91	20	30		1
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Surrogate: 2-Fluorophenol	0.340		mg/L	0.6145		55	10-85				1
Surrogate: Phenol-d5	0.256		mg/L	0.6145		42	10-62				1
Surrogate: Nitrobenzene-d5	0.416		mg/L	0.6145		68	25-126				1
Surrogate: 2-Fluorobiphenyl	0.416		mg/L	0.6145		68	21-113				1
Surrogate: 2,4,6-Tribromophenol	0.426		mg/L	0.6145		69	19-131				1
Surrogate: 4-Terphenyl-d14	0.484		mg/L	0.6145		79	32-133				1

Certified Analyses included in this Report

Analyte	CAS #	Certifications
SM2540G in Solid		
Total Solids	Moist	WDNR,DoD
SW1311 / SW8260B in Waste		
1,1-Dichloroethene, TCLP	75-35-4	WDNR,DoD
1,2-Dichloroethane, TCLP	107-06-2	WDNR,DoD
1,4-Dichlorobenzene, TCLP	106-46-7	WDNR,DoD
2-Butanone, TCLP	78-93-3	WDNR,DoD
Benzene, TCLP	71-43-2	WDNR,DoD
Carbon tetrachloride, TCLP	56-23-5	WDNR,DoD
Chlorobenzene, TCLP	108-90-7	WDNR,DoD
Chloroform, TCLP	67-66-3	WDNR,DoD
Tetrachloroethene, TCLP	127-18-4	WDNR,DoD
Trichloroethene, TCLP	79-01-6	WDNR,DoD
Vinyl chloride, TCLP	75-01-4	WDNR,DoD
SW1311 / SW8270D in Water		
Cresols, Total, TCLP	1319-77-3	DoD,WDNR
1,4-Dichlorobenzene, TCLP	106-46-7	DoD,WDNR,ILEPA
2,4,5-Trichlorophenol, TCLP	95-95-4	DoD,WDNR,ILEPA
2,4,6-Trichlorophenol, TCLP	88-06-2	DoD,WDNR,ILEPA
2,4-Dinitrotoluene, TCLP	121-14-2	DoD,WDNR,ILEPA
2-Methylphenol, TCLP	95-48-7	DoD,WDNR,ILEPA
3 & 4-Methylphenol, TCLP	84989-04-8	DoD,WDNR,ILEPA
Hexachlorobenzene, TCLP	118-74-1	DoD,WDNR,ILEPA
Hexachlorobutadiene, TCLP	87-68-3	DoD,WDNR,ILEPA
Hexachloroethane, TCLP	67-72-1	DoD,WDNR,ILEPA
Nitrobenzene, TCLP	98-95-3	DoD,WDNR,ILEPA
Pentachlorophenol, TCLP	87-86-5	DoD,WDNR,ILEPA
Pyridine, TCLP	110-86-1	DoD,WDNR,ILEPA
SW6010C in Water		
Arsenic, TCLP	7440-38-2	AKDEC,ISO,WDNR,DoD,ILEPA
Barium, TCLP	7440-39-3	AKDEC,ISO,WDNR,DoD,ILEPA
Cadmium, TCLP	7440-43-9	AKDEC,ISO,WDNR,DoD,ILEPA
Chromium, TCLP	7440-47-3	AKDEC,ISO,WDNR,DoD,ILEPA
Copper, TCLP	7440-50-8	ISO,WDNR,DoD,ILEPA
Lead, TCLP	7439-92-1	AKDEC,ISO,WDNR,DoD,ILEPA
Nickel, TCLP	7440-02-0	AKDEC,ISO,WDNR,DoD,ILEPA
Selenium, TCLP	7782-49-2	ISO,WDNR,DoD,ILEPA
Silver, TCLP	7440-22-4	ISO,WDNR,DoD,ILEPA
Zinc, TCLP	7440-66-6	ISO,WDNR,DoD,ILEPA
SW7470A in Water		

Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW7470A in Water (Continued)		
Mercury, TCLP	7439-97-6	DoD, ILEPA, WDNR
SW8082A in Solid		
Aroclor 1016	12674-11-2	AKDEC, WDNR, DoD, ILEPA
Aroclor 1221	11104-28-2	AKDEC, WDNR, DoD, ILEPA
Aroclor 1232	11141-16-5	AKDEC, WDNR, DoD, ILEPA
Aroclor 1242	53469-21-9	AKDEC, WDNR, DoD, ILEPA
Aroclor 1248	12672-29-6	AKDEC, WDNR, DoD, ILEPA
Aroclor 1254	11097-69-1	AKDEC, WDNR, DoD, ILEPA
Aroclor 1260	11096-82-5	AKDEC, WDNR, DoD, ILEPA
Total PCB	1336-36-3	AKDEC, WDNR, DoD, ILEPA
SW9045C in Solid		
pH		DoD, ILEPA, WDNR
SW9065 in Solid		
Phenolics, Total Recoverable		DoD, ILEPA, WDNR
SW9095 in Solid		
Free Liquid		ILEPA

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	17-011	05/31/2022
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L18-184-R1	03/31/2021
DoD	Department of Defense, Accredited by PJLA	L18-183-R3	03/31/2022
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	1002562020-3	07/27/2021
ISO	ISO/IEC 17025, Accredited by PJLA	L18-184-R1	03/31/2022
TX	Texas Commission of Environmental Quality	T104704554-20-5	10/31/2021
WA	Washington State Department of Ecology	C1057	01/05/2022
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2021

Qualifiers and Definitions

Item	Description
P	The quality control sample %RPD is above the laboratory control limit.
Q	One or more quality control results were outside of the acceptance limits (e.g. LCS recovery, surrogate spike recovery, or CCV recovery).
S	The quality control sample recovery is outside of the laboratory control limits.
S3	The percent recovery was outside the limits, but the analyte is reported within the calibration range. Data is acceptable.
X	Manual integration. Removed chloride peaks. Not the same retention time as standard. Software automatically integrated mounds in baseline as chloride right before the actual chloride retention time. MM7 9-4-2020
%Rec	Percent Recovery
MDL	In the state of Wisconsin MDL is equivalent to LOD; in all other applications MDL is equivalent to MDL. In the state of Wisconsin the Reporting Limit is equivalent to LOQ.



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

509 N. 3rd Avenue
Des Plaines, IL 60016



20H0876
PM: Nicole Ryan
Geosyntec DoD
Milw Die Cast

Custody Record

TURNAROUND TIME:
 RUSH
 _____ day turnaround
 ROUTINE

Due Date: _____ COC #: **237562**

Company: **Geosyntec Consultants**
 Address: **10600 N. Port Washington Road**
Ste 100
Megun, WI 53092
 Phone #: **(262) 831-0228** Fax #: ()
 P.O. #: _____ Proj. #: **CHW8271N**
 Client Contact: **Jeremiah Johnson**
 Project ID / Location: **MDC, Milwaukee, WI**

Sample Type:
 1. Waste Water 4. Sludge 7. Groundwater (filtered)
 2. Drinking Water 5. Oil 8. Other
 3. Soil 6. Groundwater
Container Type:
 P - Plastic V - VOC Vial O - Other
 G - Glass B - Tedlar Bag
Preservative:
 1. None 4. NaOH 7. Zn Ace
 2. H2SO4 5. HCl 8. Other
 3. HNO3 6. MeOH

Analyses

PROTOCOL B

EMT USE ONLY

EMT WORKORDER

20H0876

Sample I.D.	Sample Type	Container			Sampling					Preservation	
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab
WC-02	3	100% 907	G	2	CK	8/27/20	1530	/	/	1	X
WC-03	3	100% 907	G	2	CK	8/27/20	1535	/	/	1	X
END OK 8-27-20											

O1A
O2A

Relinquished By:	Date: 8-28-20 Time: 15:25	Received By:	Date: 8-28-20 Time: 15:25	EMT USE ONLY
Relinquished By:	Date: 8-26-20 Time: 17:32	Received By:	Date: - - Time: :	Client Code:
Relinquished By: _____	Date: - - Time: :	Received For Lab By: Agnieszka Zabawa	Date: 08 28 2020	EMT Project I.D.
				EMT Lot No.

SAMPLE RECEIVED ON ICE
 TEMPERATURE

2.2
EMT SAMPLE RETURN POLICY ON BACK

SPECIAL INSTRUCTIONS:

Sample Receipt Checklist

Work Order: 20H0876

Printed: 8/28/2020 6:15:23PM

Client: **Geosyntec DoD**

Project: **Milw Die Cast**

Date Due: **Friday, September 4, 2020**

Received By: **Agnieszka B. Zabawa**

Date Received: **08/28/20 17:32**

Logged In By: **Agnieszka B. Zabawa**

Date Logged In: **08/28/20 18:15**

Sample Temperature at Receipt:	2.2°C
How were samples received?	EMT
Custody Seals Present	No
Custody Seals Intact	NA
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	No

Comments

ABZ

08/28/2020

Memorandum

Date: May 7, 2021
To: Jeremiah Johnson
From: Jennifer Pinion
CC: J. Caprio
Subject: **Stage 2A Data Validation – Level II Data Deliverable – Environmental Monitoring and Technologies Work Order # 20H0876**

SITE: Milwaukee Die Casting Company Site, Milwaukee, WI

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of two soil samples, collected on August 27, 2020, during a Milwaukee Die Casting Company Site sampling event. The analyses were performed by Environmental Monitoring and Technologies (EMT), Inc, Des Plaines, Illinois. The samples were analyzed for the following tests:

- Toxicity Characteristic Leaching Procedure (TCLP) Volatile Organic Compounds (VOCs) by United States (US) Environmental Protection Agency (EPA) Methods 1311/5030B/8260B
- TCLP Semi-volatile Organic Compounds (SVOCs) by US EPA Methods 1311/3510/8270D
- Polychlorinated Biphenyls (PCBs) by US EPA Methods 3546/8082A
- TCLP Metals by US EPA Methods 1311/3015/6010C
- TCLP Mercury by Cold Vapor Atomic Absorption (CVAA) by US EPA Methods 1311/7470A
- Chlorine by US EPA 5050/9056A
- Specific Gravity by American Society for Testing and Materials (ASTM) Method D5057-90
- Ignitability by ASTM Method D92-90
- Total Solids by Standard Methods (SM) 2540G
- Reactive Cyanide by SW-846 7.3.3.2/9014 Discrete
- Reactive Sulfide by SW-846 7.3.4.2
- pH by SW-846 9045C
- Phenolics by SW-846 9065
- Free Liquid by SW-846 9095

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data are usable for supporting project objectives.

The data were reviewed based on the pertinent methods referenced by the data package, professional and technical judgment and the following documents:

- Updated Site Investigation Work Plan, Milwaukee Die Casting Company Site, 4132 North Holton Street. Milwaukee, Wisconsin, November 12, 2019
- US EPA National Functional Guidelines for Organic Superfund Methods Data Review, November 2020 (EPA 540-R-20-005)
- US EPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006)

The following samples were analyzed in the data set and validated at a Stage 2A level:

Laboratory IDs	Client IDs
20H0876-01	WC-02

Laboratory IDs	Client IDs
20H0876-02	WC-03

The samples were received at the laboratory at 2.2°C within the temperature criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The laboratory reports and electronic data deliverable (EDD) were revised on 5/7/2021 to correct the client name to Geosyntec Consultants.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for TCLP VOCs per US EPA Methods 1311/5030B/8260B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine the impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times and Preservation
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Trip Blank
- ✓ Surrogates
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for the sample set is 100%.

1.2 Holding Times and Preservation

The holding time for the TCLP VOC analysis of a solid sample is 14 days from collection to TCLP extraction and 14 days from TCLP extraction to analysis. The holding times were met for the sample analysis.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch B0I0154). VOCs were not detected in the method blank above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One batch MS/MSD pair was reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCS duplicate (LCSD) pair was reported. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.6 Trip Blank

Trip blanks were not submitted with the sample set.

1.7 Surrogates

The surrogate recoveries were within the laboratory specified acceptance criteria.

1.8 Sensitivity

The samples were assessed to the MDLs; however, the non-detects were reported as not detected at the LODs. Elevated non-detect results were not reported.

1.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for TCLP SVOCs per US EPA Methods 1311/3510/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine the impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for the data set is 100%.

2.2 Holding Times

The holding times for the SVOC analysis of solid samples are fourteen days from sample collection to TCLP extraction, 7 days from TCLP extraction to preparation and 40 days from preparation to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch B0H0915). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One batch MS/MSD pair was reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

The surrogate recoveries were within the laboratory specified acceptance criteria.

2.7 Sensitivity

The samples were assessed to the MDLs; however, the non-detects were reported as not detected at the LODs. Elevated non-detect results were not reported.

2.8 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs per US EPA Methods 3546/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this package are considered to be usable for supporting project objectives. The results are considered to be valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for the project is 100%.

3.2 Holding Times

The holding times for the PCB analysis of a solid sample are one year from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch B0I0065). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One batch MS/MSD pair was reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Surrogates

The surrogate recoveries were within the laboratory specified acceptance criteria.

3.7 Sensitivity

The samples were assessed to the MDLs; however, the non-detects were reported as not detected at the LODs. Elevated non-detect results were not reported.

3.8 Electronic Data Deliverable Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

4.0 TCLP METALS

The samples were analyzed for TCLP metals per US EPA Methods 1311/3015/6020C. (TCLP mercury was evaluated separately in Section 3.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Serial Dilutions
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The metals data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this data set is 100%.

4.2 Holding Time

The holding times for the metals analysis of a solid sample is 180 days from collection to TCLP extraction and 180 days from TCLP extraction to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch B0I0028). Metals were not detected in the method blank above the MDLs.

A TCLP extraction blank was also reported in batch B0I0028. Metals were not detected in the TCLP extraction blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample specific MS/MSD pair was reported for TCLP metals, using sample WC-01 (East). The recovery and RPD results were within the laboratory specified acceptance criteria.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

A method reporting limit (MRL) check standard was also reported. Assessment of the MRL standard indicated the recoveries were within the laboratory acceptance criteria and did not lead to any qualifications of the data with the following exceptions.

The recovery of silver in the MRL check standard was high and outside the laboratory specified acceptance criteria. However, based on professional and technical judgement, no qualifications were applied to the data.

4.6 Serial Dilutions

One batch serial dilution was reported for metals. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

4.7 Post Digestion Spike

One batch post digestion spike was reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

4.8 Sensitivity

The samples were assessed to the MDLs; however, the non-detects were reported as not detected at the LODs. Elevated non-detect results were not reported.

4.9 Electronic Data Deliverable Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

5.0 TCLP MERCURY

The samples were analyzed for TCLP mercury per US EPA Methods 1311/7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The mercury data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

5.2 Holding Time

The holding times for the TCLP mercury analysis of a solid sample are 28 days from sample collection to TCLP extraction and 28 days from TCLP extraction to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch B0I0050). Mercury was not detected in the method blank above the MDL.

One TCLP extraction blank was also reported. Mercury was not detected in the extraction blank greater than the MDL.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample specific MS/MSD pair was reported, using sample WC-02. The recovery and RPD results were within the laboratory specified acceptance criteria.

One batch MS/MSD pair was reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

A MRL check standard was also reported. Assessment of the MRL standard indicated the recoveries were within the laboratory acceptance criteria and did not lead to any qualifications of the data

5.6 Sensitivity

The samples were assessed to the MDLs; however, the non-detects were reported as not detected at the LODs. Elevated non-detect results were not reported.

5.7 Electronic Data Deliverable Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

6.0 WET CHEMISTRY

The samples were analyzed for chlorine by US EPA 5050/9056A, specific gravity by ASTM D5057-90, ignitability by ASTM D92-90, total solids by SM2540G, reactive cyanide by

SW7.3.3.2/9014 by Discrete, reactive sulfide by SW 7.3.4.2, pH by SW9045C, phenolics by SW 9065 and free liquid by SW 9095.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The wet chemistry data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this data set is 100%.

6.2 Holding Time

The holding time for the wet chemistry parameters are listed in the table below. The holding times were met for the sample analyses.

Analyte	Method	Holding Time
Chlorine	US EPA 5050/9056A	28 days from collection to analysis
Specific Gravity	ASTM D5057-90	28 days from collection to analysis
Total Solids	SM2540G	7 days from collection to analysis
Reactive Cyanide	SW-846 7.3.3.2/9014 by Discrete	14 days from collection to extraction
Reactive Sulfide	SW-846 7.3.4.2	7 days from collection to analysis
pH	SW-846 9045C	7 days from collection to analysis
Phenolics	SW-846 9065	28 days from collection to analysis
Ignitability	ASTM D92	30 days from collection to analysis

6.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Method blanks were reported for each method as required (chlorine batch B0I0094, total solids batch B0H0910, phenolics batch B0H0928, reactive sulfide batch B0I0033 and reactive cyanide B0I0021). The wet chemistry parameters were not detected in the method blanks above the MDLs.

6.4 Matrix Spike/Matrix Spike Duplicate

One sample specific MS/MSD pair was reported for chlorine, using sample WC-03. The recovery and RPD results were within the laboratory specified acceptance criteria.

Batch MS/MSD pairs were reported for chlorine and phenolics. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

6.5 Laboratory Control Sample

LCSs were reported for chlorine, total solids, pH, phenolics, reactive cyanide and reactive sulfide. The recovery results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

Batch laboratory duplicates were reported for chlorine, total solids, pH, reactive cyanide, reactive sulfide and free liquid. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

Sample specific laboratory duplicates were reported for chlorine, pH and specific gravity, using samples WC-02 and WC-03. The RPD results were within the laboratory specified acceptance criteria.

6.7 Sensitivity

The samples were assessed to the MDLs; however, the non-detects were reported as not detected at the LODs. Elevated non-detect results were not reported.

6.8 Electronic Data Deliverable Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Analytical Report

Jeremiah Johnson
Geosyntec Consultants
10600 N. Port Washington Rd.
Mequon, WI 53092

September 04, 2020

Work Order: 20H0877

RE: Milw Die Cast
CHW8271N

Dear Jeremiah Johnson:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,



Tim Witrzek For Nicole Ryan
Federal Project Manager
847.967.6666
nryan@emt.com

Approved for release: 9/4/2020 8:51:19AM

Approved by,



Nathan Fey
Laboratory Operations Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Wisconsin Dept of Natural Resources, Cert No. 999888890

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Sample Summary

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-5	20H0877-01	Soil	08/24/20 14:40	08/28/20 17:32
MW-6	20H0877-02	Soil	08/26/20 12:45	08/28/20 17:32
MW-9	20H0877-03	Soil	08/26/20 14:45	08/28/20 17:32
MW-10	20H0877-04	Soil	08/27/20 10:55	08/28/20 17:32
PZ-10	20H0877-05	Soil	08/24/20 12:40	08/28/20 17:32
MW-14	20H0877-06	Soil	08/26/20 11:00	08/28/20 17:32

Case Narrative

Client: Geosyntec Consultants

Date: 05/07/2021

Project: Milw Die Cast
CHW8271N

Work Order: 20H0877

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 20H0877

The samples were received on 08/28/20 17:32. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was:

<u>Cooler</u>	<u>Temp C°</u>
Default Cooler	2.2

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Client Sample Results

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0877

Client Sample ID: MW-5
Report Date: 05/07/2021
Collection Date: 08/24/2020 14:40
Matrix: Soil
Lab ID: 20H0877-01

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	91.7	0.100		% (Percent)	0.0240	08/31/20 05:58	B0H0910	MKP	1	
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3546										
Aroclor 1016	< 0.163	0.217		mg/Kg dry	0.0508	09/03/20 10:01	B0I0065	CS2	1	
Aroclor 1221	< 0.326	0.543		mg/Kg dry	0.144	09/03/20 10:01	B0I0065	CS2	1	
Aroclor 1232	< 0.109	0.217		mg/Kg dry	0.0437	09/03/20 10:01	B0I0065	CS2	1	
Aroclor 1242	< 0.109	0.217		mg/Kg dry	0.0411	09/03/20 10:01	B0I0065	CS2	1	
Aroclor 1248	< 0.109	0.217		mg/Kg dry	0.0451	09/03/20 10:01	B0I0065	CS2	1	
Aroclor 1254	< 0.109	0.217		mg/Kg dry	0.0456	09/03/20 10:01	B0I0065	CS2	1	
Aroclor 1260	< 0.163	0.217		mg/Kg dry	0.0561	09/03/20 10:01	B0I0065	CS2	1	
Total PCB	< 0.326	0.543		mg/Kg dry	0.144	09/03/20 10:01	B0I0065	CS2	1	
Surrogate: Decachlorobiphenyl				Recovery: 67%	Limits: 10-127	09/03/20 10:01	B0I0065	CS2	1	
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				Recovery: 67%	Limits: 11-119	09/03/20 10:01	B0I0065	CS2	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0877

Client Sample ID: MW-6
Report Date: 05/07/2021
Collection Date: 08/26/2020 12:45
Matrix: Soil
Lab ID: 20H0877-02

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	90.6	0.100		% (Percent)	0.0240	08/31/20 06:00	B0H0910	MKP	1	
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3546										
Aroclor 1016	< 0.165	0.219		mg/Kg dry	0.0512	09/03/20 10:22	B0I0065	CS2	1	
Aroclor 1221	< 0.329	0.548		mg/Kg dry	0.145	09/03/20 10:22	B0I0065	CS2	1	
Aroclor 1232	< 0.110	0.219		mg/Kg dry	0.0441	09/03/20 10:22	B0I0065	CS2	1	
Aroclor 1242	< 0.110	0.219		mg/Kg dry	0.0415	09/03/20 10:22	B0I0065	CS2	1	
Aroclor 1248	< 0.110	0.219		mg/Kg dry	0.0455	09/03/20 10:22	B0I0065	CS2	1	
Aroclor 1254	< 0.110	0.219		mg/Kg dry	0.0461	09/03/20 10:22	B0I0065	CS2	1	
Aroclor 1260	< 0.165	0.219		mg/Kg dry	0.0566	09/03/20 10:22	B0I0065	CS2	1	
Total PCB	< 0.329	0.548		mg/Kg dry	0.145	09/03/20 10:22	B0I0065	CS2	1	
Surrogate: Decachlorobiphenyl				Recovery: 77%	Limits: 10-127	09/03/20 10:22	B0I0065	CS2	1	
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				Recovery: 63%	Limits: 11-119	09/03/20 10:22	B0I0065	CS2	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0877

Client Sample ID: MW-9
Report Date: 05/07/2021
Collection Date: 08/26/2020 14:45
Matrix: Soil
Lab ID: 20H0877-03

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit							
Wet Chemistry										
Method: SM2540G										
Total Solids	84.4	0.100			% (Percent)	0.0240	08/31/20 06:02	B0H0910	MKP	1
Polychlorinated Biphenyls (PCBs) by GC/ECD										
Method: SW8082A / SW3546										
Aroclor 1016	< 0.178	0.237			mg/Kg dry	0.0553	09/03/20 10:39	B0I0065	CS2	1
Aroclor 1221	< 0.355	0.592			mg/Kg dry	0.156	09/03/20 10:39	B0I0065	CS2	1
Aroclor 1232	< 0.118	0.237			mg/Kg dry	0.0476	09/03/20 10:39	B0I0065	CS2	1
Aroclor 1242	< 0.118	0.237			mg/Kg dry	0.0448	09/03/20 10:39	B0I0065	CS2	1
Aroclor 1248	< 0.118	0.237			mg/Kg dry	0.0491	09/03/20 10:39	B0I0065	CS2	1
Aroclor 1254	< 0.118	0.237			mg/Kg dry	0.0497	09/03/20 10:39	B0I0065	CS2	1
Aroclor 1260	< 0.178	0.237			mg/Kg dry	0.0611	09/03/20 10:39	B0I0065	CS2	1
Total PCB	< 0.355	0.592			mg/Kg dry	0.156	09/03/20 10:39	B0I0065	CS2	1
Surrogate: Decachlorobiphenyl					Recovery: 82%		Limits: 10-127		09/03/20 10:39 B0I0065 CS2 1	
Surrogate: 2,4,5,6-Tetrachloro-m-xylene					Recovery: 74%		Limits: 11-119		09/03/20 10:39 B0I0065 CS2 1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0877

Client Sample ID: MW-10
Report Date: 05/07/2021
Collection Date: 08/27/2020 10:55
Matrix: Soil
Lab ID: 20H0877-04

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF			
		Limit	Limit										
Wet Chemistry													
Method: SM2540G													
Total Solids	84.4	0.100			% (Percent)	0.0240	08/31/20 06:04	B0H0910	MKP	1			
Polychlorinated Biphenyls (PCBs) by GC/ECD													
Method: SW8082A / SW3546													
Aroclor 1016	< 0.177	0.237			mg/Kg dry	0.0553	09/03/20 10:56	B0I0065	CS2	1			
Aroclor 1221	< 0.355	0.592			mg/Kg dry	0.156	09/03/20 10:56	B0I0065	CS2	1			
Aroclor 1232	< 0.118	0.237			mg/Kg dry	0.0476	09/03/20 10:56	B0I0065	CS2	1			
Aroclor 1242	< 0.118	0.237			mg/Kg dry	0.0447	09/03/20 10:56	B0I0065	CS2	1			
Aroclor 1248	< 0.118	0.237			mg/Kg dry	0.0491	09/03/20 10:56	B0I0065	CS2	1			
Aroclor 1254	< 0.118	0.237			mg/Kg dry	0.0497	09/03/20 10:56	B0I0065	CS2	1			
Aroclor 1260	< 0.177	0.237			mg/Kg dry	0.0611	09/03/20 10:56	B0I0065	CS2	1			
Total PCB	< 0.355	0.592			mg/Kg dry	0.156	09/03/20 10:56	B0I0065	CS2	1			
Surrogate: Decachlorobiphenyl					Recovery: 80%		Limits: 10-127		09/03/20 10:56		B0I0065	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene					Recovery: 71%		Limits: 11-119		09/03/20 10:56		B0I0065	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0877

Client Sample ID: PZ-10
Report Date: 05/07/2021
Collection Date: 08/24/2020 12:40
Matrix: Soil
Lab ID: 20H0877-05

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF			
		Limit	Limit										
Wet Chemistry													
Method: SM2540G													
Total Solids	92.4	0.100			% (Percent)	0.0240	08/31/20 06:06	B0H0910	MKP	1			
Polychlorinated Biphenyls (PCBs) by GC/ECD													
Method: SW8082A / SW3546													
Aroclor 1016	< 0.162	0.216			mg/Kg dry	0.0504	09/03/20 11:13	B0I0065	CS2	1			
Aroclor 1221	< 0.324	0.539			mg/Kg dry	0.142	09/03/20 11:13	B0I0065	CS2	1			
Aroclor 1232	< 0.108	0.216			mg/Kg dry	0.0434	09/03/20 11:13	B0I0065	CS2	1			
Aroclor 1242	< 0.108	0.216			mg/Kg dry	0.0408	09/03/20 11:13	B0I0065	CS2	1			
Aroclor 1248	< 0.108	0.216			mg/Kg dry	0.0448	09/03/20 11:13	B0I0065	CS2	1			
Aroclor 1254	< 0.108	0.216			mg/Kg dry	0.0453	09/03/20 11:13	B0I0065	CS2	1			
Aroclor 1260	< 0.162	0.216			mg/Kg dry	0.0556	09/03/20 11:13	B0I0065	CS2	1			
Total PCB	< 0.324	0.539			mg/Kg dry	0.142	09/03/20 11:13	B0I0065	CS2	1			
Surrogate: Decachlorobiphenyl					Recovery: 86%		Limits: 10-127		09/03/20 11:13		B0I0065	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene					Recovery: 76%		Limits: 11-119		09/03/20 11:13		B0I0065	CS2	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0877

Client Sample ID: MW-14
Report Date: 05/07/2021
Collection Date: 08/26/2020 11:00
Matrix: Soil
Lab ID: 20H0877-06

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF			
		Limit	Limit										
Wet Chemistry													
Method: SM2540G													
Total Solids	88.5	0.100			% (Percent)	0.0240	08/31/20 06:08	B0H0910	MKP	1			
Polychlorinated Biphenyls (PCBs) by GC/ECD													
Method: SW8082A / SW3546													
Aroclor 1016	< 0.169	0.225			mg/Kg dry	0.0525	09/03/20 11:30	B0I0065	CS2	1			
Aroclor 1221	< 0.337	0.562			mg/Kg dry	0.148	09/03/20 11:30	B0I0065	CS2	1			
Aroclor 1232	< 0.112	0.225			mg/Kg dry	0.0452	09/03/20 11:30	B0I0065	CS2	1			
Aroclor 1242	< 0.112	0.225			mg/Kg dry	0.0425	09/03/20 11:30	B0I0065	CS2	1			
Aroclor 1248	< 0.112	0.225			mg/Kg dry	0.0466	09/03/20 11:30	B0I0065	CS2	1			
Aroclor 1254	< 0.112	0.225			mg/Kg dry	0.0472	09/03/20 11:30	B0I0065	CS2	1			
Aroclor 1260	< 0.169	0.225			mg/Kg dry	0.0580	09/03/20 11:30	B0I0065	CS2	1			
Total PCB	< 0.337	0.562			mg/Kg dry	0.148	09/03/20 11:30	B0I0065	CS2	1			
Surrogate: Decachlorobiphenyl					Recovery: 74%		Limits: 10-127		09/03/20 11:30		B0I0065	CS2	1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene					Recovery: 69%		Limits: 11-119		09/03/20 11:30		B0I0065	CS2	1

Dates Report

Client: Geosyntec Consultants

Report Date: 05/07/2021

Project: Milw Die Cast
CHW8271N

Work Order: 20H0877

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
20H0877-01	MW-5	08/24/20	Soil	Total Solids / Percent Moisture		08/31/20 05:04	08/31/20 05:58	B0H0910	
				Polychlorinated Biphenyls by GC/ECD		09/02/20 10:31	09/03/20 10:01	B0I0065	S0I0060
20H0877-02	MW-6	08/26/20		Total Solids / Percent Moisture		08/31/20 05:04	08/31/20 06:00	B0H0910	
				Polychlorinated Biphenyls by GC/ECD		09/02/20 10:31	09/03/20 10:22	B0I0065	S0I0060
20H0877-03	MW-9	08/26/20		Total Solids / Percent Moisture		08/31/20 05:04	08/31/20 06:02	B0H0910	
				Polychlorinated Biphenyls by GC/ECD		09/02/20 10:31	09/03/20 10:39	B0I0065	S0I0060
20H0877-04	MW-10	08/27/20		Total Solids / Percent Moisture		08/31/20 05:04	08/31/20 06:04	B0H0910	
				Polychlorinated Biphenyls by GC/ECD		09/02/20 10:31	09/03/20 10:56	B0I0065	S0I0060
20H0877-05	PZ-10	08/24/20		Total Solids / Percent Moisture		08/31/20 05:04	08/31/20 06:06	B0H0910	
				Polychlorinated Biphenyls by GC/ECD		09/02/20 10:31	09/03/20 11:13	B0I0065	S0I0060
20H0877-06	MW-14	08/26/20		Total Solids / Percent Moisture		08/31/20 05:04	08/31/20 06:08	B0H0910	
				Polychlorinated Biphenyls by GC/ECD		09/02/20 10:31	09/03/20 11:30	B0I0065	S0I0060

Quality Control

Client: Geosyntec DoD
Project: Milw Die Cast
 CHW8271N
Work Order: 20H0877

Report Date: 05/07/2021
Matrix: Solid

Wet Chemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
Batch: B0H0910											
Blank (B0H0910-BLK1) <i>Prepared: 08/31/2020 05:04 Analyzed: 08/31/2020 06:10</i>											
Total Solids	<0.0500	0.100	%								1
LCS (B0H0910-BS1) <i>Prepared: 08/31/2020 05:04 Analyzed: 08/31/2020 06:12</i>											
Total Solids	0.203	0.100	%	0.2038		99.5	83.9-103				1
Duplicate (B0H0910-DUP1) Source: 20H0859-01 <i>Prepared: 08/31/2020 05:04 Analyzed: 08/31/2020 06:14</i>											
Total Solids	95.1	0.100	%		95.4			0.284	5		1
Duplicate (B0H0910-DUP2) Source: 20H0877-06 <i>Prepared: 08/31/2020 05:04 Analyzed: 08/31/2020 06:16</i>											
Total Solids	90.7	0.100	%		88.5			2.45	5		1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast
CHW8271N
Work Order: 20H0877

Report Date: 05/07/2021
Matrix: Solid

Polychlorinated Biphenyls (PCBs) by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0I0065 - SW3546**Blank (B0I0065-BLK1)**

Prepared: 09/02/2020 10:31 Analyzed: 09/03/2020 08:54

Aroclor 1016	<0.149	0.199	mg/Kg wet								1
Aroclor 1221	<0.298	0.497	mg/Kg wet								1
Aroclor 1232	<0.0994	0.199	mg/Kg wet								1
Aroclor 1242	<0.0994	0.199	mg/Kg wet								1
Aroclor 1248	<0.0994	0.199	mg/Kg wet								1
Aroclor 1254	<0.0994	0.199	mg/Kg wet								1
Aroclor 1260	<0.149	0.199	mg/Kg wet								1
Total PCB	<0.298	0.497	mg/Kg wet								1
<hr/>											
Surrogate: Decachlorobiphenyl	0.203		mg/Kg wet	0.1989		102	10-127				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.175		mg/Kg wet	0.1989		88	11-119				1

LCS (B0I0065-BS1)

Prepared: 09/02/2020 10:31 Analyzed: 09/03/2020 09:11

Aroclor 1016	0.337	0.199	mg/Kg wet	0.3983		85	70-130				1
Aroclor 1260	0.364	0.199	mg/Kg wet	0.3983		91	55-155				1
<hr/>											
Surrogate: Decachlorobiphenyl	0.196		mg/Kg wet	0.1991		99	10-127				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.165		mg/Kg wet	0.1991		83	11-119				1

Matrix Spike (B0I0065-MS1)**Source: 20H0877-06**

Prepared: 09/02/2020 10:31 Analyzed: 09/03/2020 11:47

Aroclor 1016	0.328	0.224	mg/Kg dry	0.4484	ND	73	35-128				1
Aroclor 1260	0.318	0.224	mg/Kg dry	0.4484	ND	71	14-142				1
<hr/>											
Surrogate: Decachlorobiphenyl	0.184		mg/Kg dry	0.2242		82	10-127				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.169		mg/Kg dry	0.2242		75	11-119				1

Matrix Spike Dup (B0I0065-MSD1)**Source: 20H0877-06**

Prepared: 09/02/2020 10:31 Analyzed: 09/03/2020 12:04

Aroclor 1016	0.338	0.225	mg/Kg dry	0.4504	ND	75	35-128	3	28		1
Aroclor 1260	0.323	0.225	mg/Kg dry	0.4504	ND	72	14-142	2	33		1
<hr/>											
Surrogate: Decachlorobiphenyl	0.191		mg/Kg dry	0.2252		85	10-127				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.175		mg/Kg dry	0.2252		78	11-119				1

Certified Analyses included in this Report

Analyte	CAS #	Certifications
SM2540G in Solid		
Total Solids	Moist	WDNR,DoD
SW8082A in Solid		
Aroclor 1016	12674-11-2	AKDEC,WDNR,DoD,ILEPA
Aroclor 1221	11104-28-2	AKDEC,WDNR,DoD,ILEPA
Aroclor 1232	11141-16-5	AKDEC,WDNR,DoD,ILEPA
Aroclor 1242	53469-21-9	AKDEC,WDNR,DoD,ILEPA
Aroclor 1248	12672-29-6	AKDEC,WDNR,DoD,ILEPA
Aroclor 1254	11097-69-1	AKDEC,WDNR,DoD,ILEPA
Aroclor 1260	11096-82-5	AKDEC,WDNR,DoD,ILEPA
Total PCB	1336-36-3	AKDEC,WDNR,DoD,ILEPA

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	17-011	05/31/2022
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L18-184-R1	03/31/2021
DoD	Department of Defense, Accredited by PJLA	L18-183-R3	03/31/2022
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	1002562020-3	07/27/2021
ISO	ISO/IEC 17025, Accredited by PJLA	L18-184-R1	03/31/2022
TX	Texas Commission of Environmental Quality	T104704554-20-5	10/31/2021
WA	Washington State Department of Ecology	C1057	01/05/2022
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2021

Qualifiers and Definitions

Item	Description
%Rec	Percent Recovery



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

509 N. 3rd Avenue
Des Plaines, IL 60016



20H0877
PM: Nicole Ryan
Geosyntec DoD
Milw Die Cast

Chain of Custody Record

TURNAROUND TIME:
 RUSH _____ day turnaround
 ROUTINE

6735

Due Date: _____ COC #: **237565**

Company: Geosyntec Consultants
 Address: 10600 N Port Washington Rd
Site 100
Mequon, WI 53092
 Phone #: (262) 834-0228 Fax #: _____
 P.O. #: _____ Proj. #: CH0877LN
 Client Contact: Seremiah Johnson
 Project ID / Location: MDCC, Milwaukee, WI

Sample Type:
 1. Waste Water. 4. Sludge 7. Groundwater (filtered)
 2. Drinking Water 5. Oil 8. Other
 3. Soil 6. Groundwater
Container Type:
 P - Plastic V - VOC Vial O - Other
 G - Glass B - Tedlar Bag
Preservative:
 1. None 4. NaOH 7. Zn Ace
 2. H₂SO₄ 5. HCl 8. Other
 3. HNO₃ 6. MeOH

Analyses

EMT
USE
ONLY

EMT
WORKORDER

20H0877

Sample I.D.	Sample Type	Container			Sampling					Preservation		PCB
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab	
Mw-5 (8-10) ²⁰	3	90z	G	1	CIC	8/24/20	1440	/	/	1		X
Mw-6 (8-10) ²⁰	↓	↓	↓	↓	↓	8/26/20	1245	/	/	↓		↓
Mw-9 (8-10) ²⁰	↓	↓	↓	↓	↓	8/26/20	1445	/	/	↓		↓
Mw-10 (8-10) ²⁰	↓	↓	↓	↓	↓	8/27/20	1055	/	/	↓		↓
PZ-10 (8-10) ²⁰	↓	↓	↓	↓	↓	8/24/20	1240	/	/	↓		↓
Mw-14 (4-6) ²⁰	↓	↓	↓	↓	↓	8/26/20	1100	/	/	↓		↓
END OK 8-27-20												

Relinquished By: <u>Wojcik</u>	Date: <u>8-28-20</u> Time: <u>15:25</u>	Received By: <u>[Signature]</u>	Date: <u>8-28-20</u> Time: <u>15:25</u>
Relinquished By: <u>[Signature]</u>	Date: <u>8-28-20</u> Time: <u>17:32</u>	Received For Lab By: <u>Agnieszka Zabawa</u>	Date: <u>08/28/2020</u> Time: <u>17:32</u>

EMT USE ONLY

SAMPLE RECEIVED ON ICE
 TEMPERATURE

EMT Project I.D. _____

Jar Lot No. _____

2.2
EMT SAMPLE RETURN POLICY ON BACK

SPECIAL INSTRUCTIONS:

Sample Receipt Checklist

Work Order: 20H0877

Printed: 8/28/2020 6:16:07PM

Client: Geosyntec DoD
Project: Milw Die Cast

Date Due: Friday, September 4, 2020

Received By: Agnieszka B. Zabawa
Logged In By: Agnieszka B. Zabawa

Date Received: 08/28/20 17:32
Date Logged In: 08/28/20 18:15

Sample Temperature at Receipt:	2.2°C
How were samples received?	EMT
Custody Seals Present	No
Custody Seals Intact	NA
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	No

Comments

ABZ
08/28/2020

Memorandum

Date: May 7, 2021
To: Jeremiah Johnson
From: Jennifer Pinion
CC: J. Caprio
Subject: **Stage 2A Data Validation – Level II Data Deliverable – Environmental Monitoring and Technologies Work Order # 20H0877**

SITE: Milwaukee Die Casting Company Site, Milwaukee, WI

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of six soil samples, collected on August 24, 26 and 27, 2020, during a Milwaukee Die Casting Company Site sampling event. The analyses were performed by Environmental Monitoring and Technologies (EMT), Inc, Des Plaines, Illinois. The samples were analyzed for the following tests:

- Polychlorinated Biphenyls (PCBs) by United States (US) Environmental Protection Agency (EPA) Methods 3546/8082A

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data are usable for supporting project objectives.

The data were reviewed based on the pertinent methods referenced by the data package, professional and technical judgment and the following documents:

- Updated Site Investigation Work Plan, Milwaukee Die Casting Company Site, 4132 North Holton Street. Milwaukee, Wisconsin, November 12, 2019
- US EPA National Functional Guidelines for Organic Superfund Methods Data Review, November 2020 (EPA 540-R-20-005)

The following samples were analyzed in the data set and validated at a Stage 2A level:

Laboratory IDs	Client IDs
20H0877-01	MW-5
20H0877-02	MW-6
20H0877-03	MW-9

Laboratory IDs	Client IDs
20H0877-04	MW-10
20H0877-05	PZ-10
20H0877-06	MW-14

The samples were received at the laboratory at 2.2°C within the temperature criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

Incorrect error corrections were observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

The laboratory report and electronic data deliverable (EDD) was revised on 5/6/2021 to correct the client name to Geosyntec Consultants.

The solids data, used to report the sample on a dry weight basis, were not validated.

1.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs per US EPA Methods 3546/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The PCB data reported in this package are considered to be usable for supporting project objectives. The results are considered to be valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for the project is 100%.

1.2 Holding Times

The holding times for the PCB analysis of a solid sample are one year from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch B0I0065). PCBs were not detected in the method blank above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample specific MS/MSD pair was reported, using sample MW-14. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Surrogates

The surrogate recoveries were within the laboratory specified acceptance criteria.

1.7 Sensitivity

The samples were assessed to the MDLs; however, the non-detects were reported as not detected at the LODs. Elevated non-detect results were not reported.

1.8 Electronic Data Deliverable Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The laboratory report includes the LODs, MDLs and RLs with the sample results; however, the EDD only reports MDLs and RLs. No additional discrepancies were identified between the level II report and the EDD.

ATTACHMENT 1

DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY

Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference



Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number W I D 0 0 6 1 0 2 3 0 5	2. Page 1 of 1	3. Emergency Response Phone (800) 326-1221	4. Manifest Tracking Number 001873417 VES				
5. Generator's Name and Mailing Address FORMER MILWAUKEE DIE CAST 4132 N HOLSTON ST MILWAUKEE, WI 53212 Generator's Phone: 414-788-8633 262-292-6080 ac				Generator's Site Address (if different than mailing address) SAME					
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS				U.S. EPA ID Number N J D 0 8 0 6 3 1 3 6 9					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS W124 N9451 BOUNDARY RD. MENOMONEE FALLS, WI 53051				U.S. EPA ID Number W I D 0 0 3 9 6 7 1 4 8					
Facility's Phone: 262 255-6655									
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	X	1. NA3082, HAZARDOUS WASTE, LIQUID, n.o.s., (TRICHLOROETHENE, VINYL CHLORIDE), 9, III		1	D M	SS	G	F002	D040
	X	2. NA3082, HAZARDOUS WASTE, LIQUID, n.o.s., (TRICHLOROETHENE, VINYL CHLORIDE), 9, III		1	D M	SS	G	F002	D043
		3. NON-HAZARDOUS WATER, n.o.s., (PURGE WATER)		4	D M	220	G	NONE	
		4.							
14. Special Handling Instructions and Additional Information ER Service Contracted by HERITAGE + OU36210 WP									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offeror's Printed/Typed Name MARY JO ANZIA AS AGENT FOR PHARMACIA LLC				Signature <i>Mary Jo Anzia</i>		Month Day Year 02 25 21			
TRANSPORTER INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
	17. Transporter Acknowledgment of Receipt of Materials								
	Transporter 1 Printed/Typed Name Mitchell Sher				Signature <i>Mitchell Sher</i>		Month Day Year 02 25 21		
Transporter 2 Printed/Typed Name				Signature		Month Day Year			
DESIGNATED FACILITY	18. Discrepancy								
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
	18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____								
	Facility's Phone: _____								
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H141		2. H141		3. H141		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name William Banks				Signature <i>William Banks</i>		Month Day Year 02 25 21			



SHIPPING DOCUMENT	1. Generator ID Number WID008192305	2. Page 1 of 1	3. Emergency Response Phone (800) 326-1221	4. Shipping Document Tracking Number ZZ 00942001			
5. Generator's Name and Mailing Address FORMER MILWAUKEE DIE CAST 4132 N HOLSTON ST MILWAUKEE, WI 53212 Generator's Phone: 414 378-3633		Generator's Site Address (if different than mailing address) SAME					
6. Transporter 1 Company Name BADGER DAYLIGHTING		U.S. EPA ID Number NON REQUIRED					
7. Transporter 2 Company Name		U.S. EPA ID Number					
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS W124 N9431 BOUNDARY RD MENOMONEE FALLS, WI 53051		U.S. EPA ID Number WID003967148					
Facility's Phone: 262 255-6655							
GENERATOR	9a. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol	13. Codes	
	1. NON-REGULATED MATERIAL, NON-RCRA, NON-DOT, (NON TSCA NON RCRA HYDROVAC SOIL/WATER)	No. 1	Type TT	2000	G	NONE	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information ER Service Contracted by HERITAGE +OU36210 WW WP 874 961 - CWD 874961 5.16 TONS NET							
15. GENERATOR S/OFFEROR'S CERTIFICATION. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded and are in all respects in proper condition for transport according to applicable international and national governmental regulations.							
Generator's/Officer's Printed/Typed Name MARY JO ANZIA AS AGENT FOR PHARMACIA LLC					Signature <i>Mary Jo Anzia</i>		Month Day Year 08 24 20
TRANSPORTER/INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of Embarkment Distinguishing U.S.:				
	17. Transporter Acknowledgment of Receipt of Shipment Transporter 1 Printed/Typed Name DOUGLAS BODDEN						
DESIGNATED FACILITY	18. Discrepancy		Shipping Document Tracking Number				
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
18b. Alternate Facility (or Generator)		U.S. EPA ID Number					
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)							Month Day Year
19. Report Management Method Codes (i.e., codes for treatment, disposal, and recycling systems)							
1. H100	2.	3.	4.				
20. Designated Facility Owner or Operator. Certification of receipt of shipment except as noted in Item 18a							
Printed/Typed Name RICHARD WADE					Signature <i>Richard Wade</i>		Month Day Year 08 24 20

DESIGNATED FACILITY TO GENERATOR



SHIPPING DOCUMENT	1. Generator ID Number WID006102305	2. Page 1 of 1	3. Emergency Response Phone (800) 375-1221	4. Shipping Document Tracking Number ZZ 00944607		
5. Generator's Name and Mailing Address FORMER MILWAUKEE DIE CAST 132 N HOLSTON BT MILWAUKEE, WI 53212		Generator's Site Address (if different than mailing address) SAME				
6. Generator's Phone 414 378 8633		7. Transporter 1 Company Name Veolia Es Technical Solutions		U.S. EPA ID Number WID003967148		
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS, W124 NMS1 BOUNDARY MENASHOKE FALLS, WI 53051		U.S. EPA ID Number WID003967148				
Facility's Phone 702 255 6655						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type	11. Total Quantity	12. Unit Wt/Vol.	13. Codes
	1	NON-REGULATED MATERIAL, NON-PCRA, NON-DOT, (NON-TSCA NON-RC RA SOL, EDW)	1 6 DM	9000 SK	P	NONE
	2					
	3					
	4					
14. Special Handling Instructions and Additional Information ER Service Contracted by HERITAGE + Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf. + DW 956453 A. CWD/SOR/BS						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
Generator's/Officer's Printed/Typed Name MARY JO ANZIA AS AGENT FOR PHARMACH LLC		Signature <i>Mary Jo Anzia</i>		Month 11	Day 16	Year 20
TRANSPORTER INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Perf. of Int'l Perf. Date Leaving U.S.			
	17. Transporter Acknowledgment of Receipt of Shipment Transporter 1 Printed/Typed Name Samuel Timmesch		Signature <i>Samuel Timmesch</i>		Month 10	Day 16
18. Discrepancy		18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection				
18b. Alternate Facility (or Generator)		Shipping Document Tracking Number				
18c. Signature of Alternate Facility (or Generator)		U.S. EPA ID Number				
DESIGNATED FACILITY	19. Report Management Method Codes (i.e. codes for treatment, disposal, and recycling systems)		Facility's Phone			
	1 H141	2	3	4		
20. Designated Facility Owner or Operator Certification of receipt of shipment except as noted in Item 18a Printed/Typed Name William Banks		Signature <i>William Banks</i>		Month 10	Day 19	Year 20



Please print or type

UNIFORM HAZARDOUS WASTE MANIFEST		1 Generator ID Number W I D 0 0 6 1 0 2 3 0 5	2 Page 1 of 1	3 Emergency Response Phone (800) 326-1221	4 Manifest Tracking Number 001971978 VES					
5 Generator's Name and Mailing Address FORMER MILWAUKEE DIE CAST 4132 N HOLSTON ST MILWAUKEE, WI 53212 Generator's Phone 414 378-8633				Generator's Site Address (if different than mailing address) SAME						
6 Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS				U.S. EPA ID Number N J D 0 8 0 6 3 1 3 6 9						
7 Transporter 2 Company Name				U.S. EPA ID Number						
8 Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS, W124 N9451 BOUNDARY MENOMONIE FALLS, WI 53051				U.S. EPA ID Number W I D 0 0 3 9 6 7 1 4 R						
9a HM		9b U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number and Packing Group, if any):		10 Containers No. Type		11 Total Quantity	12 Unit Wt./Vol.	13 Waste Codes		
X		1 NA3082, HAZARDOUS WASTE, LIQUID, n.o.s., (TRICHLOROETHENE, VINYL CHLORIDE), 9, III		2 D M		110	G	F002	D040	
		2. NON-REGULATED MATERIAL, NON-RCRA, NON-DOT, (NON-TSCA NON-RCRA SOIL IDW)		2 D M		110	G	NONE		
3										
4										
14 Special Handling Instructions and Additional Information ER Service Contracted by HERITAGE + 0136190 + Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf. + 1) ERG 17) W:992094 A:CWDYTWLQ 2) W:956453 A:CWDSGRNHS										
15. GENERATOR/SOFFEROR'S CERTIFICATION. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Officer's Printed/Typed Name MARY JO ANZIA AS AGENT FOR PHARMACIA LP								Signature Mary Jo Anzia		Month Day Year 11 06 20
16 International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. <input type="checkbox"/> Permitted/Export Data leaving U.S.										
17 Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Zach Davis										
Signature Zach Davis								Month Day Year 11 06 2008		
Transporter 2 Printed/Typed Name Signature Month Day Year										
18 Discrepancy 18a Discrepancy Indication Specify <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number										
18b. Alternate Facility (or Generator) Facility's Phone								U.S. EPA ID Number		
18c Signature of Alternate Facility (or Generator)								Month Day Year		
19 Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
1 H141		2 H141		3		4				
20 Designated Facility Owner or Operator Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name William Banks										
Signature William Banks								Month Day Year 11 06 20		