Geosyntec consultants

10600 N. Port Washington Road, Suite 100
Mequon, WI 53092
PH 262.377.9828
www.geosyntec.com

May 19, 2023

Ms. Jennifer Meyer
Environmental Program Associate
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
1027 W. St. Paul Avenue
Milwaukee, WI 53233

Via WDNR RR Program Submittal Portal

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

Dear Ms. Meyer,

We are providing this *Pre-Design Investigation Report* ("Report") to the Wisconsin Department of Natural Resources (WDNR) for the Milwaukee Die Casting Company Site ("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]

This Report presents the scope and results of pre-design investigation activities conducted to support further evaluation of the need for additional remedial action in the MW-1 area and, if necessary, the identification and evaluation of viable remedial action options. The Wisconsin Administrative Code NR 712.09 submittal certification is provided as **Attachment 1**.

Salient background information and pre-design investigation field and laboratory methods were provided in the February 10, 2023 *Pre-Design Investigation Work Plan* (Work Plan).

1. SCOPE

The pre-design investigation included saturated soil and groundwater sampling and field and laboratory testing. The field sampling was conducted on February 14 and 15, 2023.

[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.

1.1. Saturated Soil Sampling, Field Screening and Laboratory Analysis

Eighteen (18) Geoprobe® soil borings (GP-01-2023 to GP-18-2023) were advanced by GESTRA Engineering, Inc. (GESTRA) in the vicinity of existing groundwater monitoring well MW-1.[2] The soil borings were advanced to depths ranging from approximately 15 to 17 feet below ground surface (bgs). **Figure 1 (Attachment 2)** depicts the approximate soil investigation area and **Figure 2 (Attachment 2)** depicts the soil boring locations.

Soil samples were field screened for volatile organic compounds (VOCs) with a photoionization detector (PID). One (1) saturated soil sample was collected from each soil boring for laboratory analysis with the exception of soil boring location GP-01-2023 [two (2) soil samples were collected from GP-01-2023]. Two (2) duplicate soil samples were also collected. The soil samples were generally collected from the sample interval with the highest PID reading.

Each soil sample was submitted to Pace Analytical Services, LLC (Pace) for laboratory analysis of VOCs. Six (6) samples [GP-01-2023 (11-12), GP-02-2023 (14-15), GP-08-2023 (11-12), GP-12-2023 (8-9), GP-13-2023 (10-12) and GP-15-2023 (11-12)] were also submitted to SiREM for laboratory analysis of organic carbon content, total iron, total sulfur and magnetic susceptibility. The soil sample analytical parameters, methods and laboratory are summarized in the following table:

Soil Sample Parameter	**Laboratory Method**	**Laboratory**
VOCs	EPA 8260	Pace Analytical
organic carbon content (f_{oc})	EPA 9060B	SiREM
total iron	EPA 6010B	SiREM
total sulfur	EPA 6010B	SiREM
magnetic susceptibility	EPA 600/R-09/115[3]	SiREM

Following soil sample collection, the soil borings were abandoned with bentonite chips in accordance with NR 141. A boring log (WDNR Form 4400-122) and a borehole abandonment form (WDNR Form 3300-005) were prepared for each soil boring and are included in **Attachment 3**.

[2] The planned soil boring locations and depths, as presented in the Work Plan, were modified in the field based on soil sample field screening and encountered soil conditions. The soil boring depth was established by Geoprobe® refusal upon encountering very dense silt.

[3] *Identification and Characterization Methods for Reactive Minerals Responsible for Natural Attenuation of Chlorinated Organic Compounds in Ground Water*, EPA 600/R-09/115, December 2009.

1.2. Groundwater Sampling and Field and Laboratory Testing

Groundwater samples were collected from existing groundwater monitoring wells MW-1, PZ-1, MW-6, and MW-7. One (1) duplicate groundwater sample was also collected. Water levels were measured in Site monitoring wells[4] prior to groundwater sampling. The groundwater monitoring well locations are depicted on **Figure 1**.

Groundwater samples were collected using low-flow purging and sampling. During low-flow purging, field parameters [pH, temperature, conductivity, dissolved oxygen (DO), turbidity and oxidation-reduction potential (ORP)] were monitored using a portable water quality meter.

Each groundwater sample was submitted to Pace for laboratory analysis of VOCs, total organic carbon (TOC), sulfate, sulfide, nitrate, total and dissolved iron, ethene, ethane and methane. Each groundwater sample was also submitted to SiREM for analysis of *Dehalococcoides* (Dhc) (microbial enumeration). Ferrous iron was measured in the field using a Hach field test kit.

The groundwater analytical parameters, methods and laboratory are summarized in the following table:

Groundwater Sample Parameter	Laboratory Method	Laboratory
VOCs	EPA 8260	Pace Analytical
Dhc	Gene-Trac®	SiREM
TOC	SM 5310C	Pace Analytical
sulfate	EPA 300.0	Pace Analytical
sulfide	SM 4500-S F (2000)	Pace Analytical
nitrate	EPA 300.0	Pace Analytical
total and dissolved iron	EPA 6010D	Pace Analytical
ethene, ethane and methane	EPA 8015B Modified	Pace Analytical

2. RESULTS

2.1. Soil and Groundwater Conditions

Subsurface conditions in the pre-design investigation area are documented on the soil boring logs included in **Attachment 3** and depicted in cross-section on **Figure 3 (Attachment 2)**. Subsurface conditions generally consist of heterogeneous clay fill (i.e., re-worked clay with varying amounts of silt, sand and gravel) to depths of approximately 8 to 10 feet bgs, overlying a silty sand to depths of approximately 15 to 17 feet bgs, which overlies a very dense silt. Geoprobe® refusal

[4] Off-site monitoring wells MW-10 and PZ-10 were not accessible for water level measurement due to construction activities on the adjacent property (the wells were temporarily enclosed within a construction fence).

occurred at the top of the very dense silt unit. Previous Site soil boring data (PZ-1A) document that this very dense silt unit extends to a depth of approximately 40 feet bgs.

Site shallow groundwater monitoring wells are screened within the clay fill and underlying silty sand unit. The depth to groundwater at MW-1 has averaged 4.1 feet bgs over the past nine (9) groundwater sampling events (8 quarterly sampling events and the subject pre-design investigation sampling event). Groundwater depth and elevation data for the pre-design investigation sampling event are summarized in **Table 1 (Attachment 4)**. **Table 1** also provides the average groundwater depth and elevation data for the nine (9) groundwater sampling events.

2.2. Soil Sample Field Screening Data

The soil sample field screening (PID) data are provided in **Table 2 (Attachment 4)** and on the boring logs in **Attachment 3**. Selected PID data are also depicted on **Figure 2** and **Figure 3** (cross-section).

In general, the highest PID readings were measured within the silty sand unit proximate to MW-1 and the 2015 chlorinated volatile organic compound (CVOC)-impacted unsaturated soil removal area as depicted on **Figure 3**.

2.3. Soil Sample Analytical Results

The saturated soil sample laboratory reports and associated data validation reports are provided in **Attachment 5**. The soil sample results are summarized on **Table 3 (Attachment 3)** and **Figure 2**. Select soil sample analytical results are also depicted on **Figure 3** (cross-section).

The highest total CVOC[5] saturated soil concentrations were detected at GP-01-2023 within the silty sand unit. GP-01-2023 was advanced adjacent to MW-1 on the east margin of the 2015 CVOC-impacted unsaturated soil removal area as depicted on **Figure 2**. Total CVOC saturated soil concentrations detected at GP-01-2023 were 236,641 micrograms per kilogram (µg/kg) (9 to 10 feet bgs) and 787,545 µg/kg (11 to 12 feet bgs). Elevated CVOC concentrations (greater than 1,000 µg/kg) were also detected at GP-02-2023, GP-03-2023, GP-11-2023, GP-12-2023 and GP-13-2023.

The soil f_{oc} (0.249 to 0.704 percent) is considered moderate content[6] and subsequently represents a moderate CVOC adsorption capacity for the silty sand unit.

---

[5] The total CVOC concentration is the sum of tetrachloroethene (PCE), trichloroethene (TCE), 1,1-dichloroethane, 1,1-dichloroethene (DCE), cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride concentrations; a concentration of one-half the detection limit was assumed for non-detect results.
[6] https://projects.itrcweb.org/DNAPL-ISC_tools-selection/Content/Appendix%20I.%20Foc%20Tables.htm

The detected total iron concentrations [11,000 to 16,000 micrograms per gram (µg/g)] and sulfur (4,400 to 5,700 µg/g) concentrations are considered generally favorable to abiotic reductive dechlorination of CVOCs by reactive minerals. The total iron and magnetic material data suggest that iron is present mostly as ferric iron oxide (i.e., non-magnetic). The detected sulfur is likely present as iron sulfide. Threshold concentrations for iron sulfides for "environmentally significant" abiotic dechlorination of CVOCs ranges from 0.1 to 0.5 percent.[7,8] Based on the low detected magnetic material concentrations (< 0.3 percent[9]), magnetic material is not likely to significantly contribute to abiotic reductive dichlorination of CVOCs at the Site.

2.4. Groundwater Sample Field and Analytical Results

The groundwater sample laboratory reports and associated data validation reports are provided in **Attachment 6**. The groundwater sample results are summarized on **Table 4 (Attachment 4)** and **Figure 4 (Attachment 2)**.

The groundwater analytical data indicate that parent CVOCs tetrachloroethene (PCE) and trichloroethene (TCE) and PCE/TCE degradation product concentrations are consistent with previous sampling events.

The groundwater geochemical data (ORP, DO, nitrate, dissolved iron, sulfate, sulfide and methane) indicate variable reduction-oxidation (redox) conditions with more reduced (anaerobic) conditions in the area of MW-1 than at downgradient monitoring well locations MW-7 and MW-6.

The ethene/ethane, microbial enumeration (Dhc) and TOC data indicate that active natural anaerobic biodegradation is occurring in the area of MW-1 but that this natural biodegradation activity is likely limited by low TOC (as well as the variable redox conditions indicated above).

- Ethene and ethane (reductive dechlorination end products) were detected in groundwater at MW-1 (and PZ-1) and not detected in groundwater at downgradient monitoring wells MW-7 and MW-6.
- Dhc were detected in groundwater at MW-1 and not detected in groundwater at downgradient monitoring wells MW-7 and MW-6. In addition, Dhc were not detected in PZ-1. Dhc was detected in the MW-1 groundwater sample at a concentration of 2 x 10^6

[7] He, T., et al (2015). *Review of Abiotic Degradation of Chlorinated Solvents by Reactive Iron Minerals in Aquifers*, Groundwater Monitoring & Remediation.
[8] EPA (2009). *Identification and Characterization Methods for Reactive Minerals Responsible for Natural Attenuation of Chlorinated Organic Compounds in Ground Water*, EPA 600/R-09/115.
[9] Ferrey, et al. (2004). *Non-biological removal of cis-dichloroethylene and 1,1- dichloroethylene in aquifer sediment containing magnetite*, Environmental Science and Technology.

enumerations per liter (e/L). Dhc concentrations between 10^5 and 10^6 e/L are considered moderate concentrations of Dhc.[10]

- TOC was detected at concentrations ranging from 2.4 to 3.0 milligrams per liter (mg/L). These TOC concentrations are an order of magnitude less than the TOC concentration generally considered to support reductive dechlorination (greater than 20 mg/L[11]).

3. CONCLUSIONS

The soil and groundwater data indicate that the Site would likely be suitable to enhanced in-situ bioremediation (bioaugmentation) through direct anaerobic reductive dechlorination (primary) and abiotic reductive dechlorination (secondary). There are no potentially complete migration or exposure pathways associated with the residual CVOCs. However, enhanced in-situ bioremediation, if applied, is expected to reduce CVOC mass, reduce the period of groundwater monitoring, and allow a determination that groundwater quality standards can be met in a "reasonable period of time" per NR 726.05(6)(b).

The groundwater data indicate existing reduced (anaerobic) conditions and active natural anaerobic biodegradation in the area of MW-1; however, this natural biodegradation activity is likely limited by low TOC. In-situ anaerobic bioremediation such as bioaugmentation could introduce an electron donor (carbon source) into shallow groundwater to stimulate microbial growth. Such a process depletes the groundwater zone of DO and other electron accepters including nitrate, sulfate, and ferric iron, which lowers the ORP, thereby creating the conditions for anaerobic reductive dechlorination to occur.

In addition, the reduction of ORP can produce ferrous iron (converting the ferric ion detected in soil) and hydrogen sulfide through biologically-mediated iron and sulfate reduction, respectively. These reactive compounds abiotically reduce CVOCs. Abiotic reductive dechlorination is expected to be effective for lower CVOC concentrations downgradient of the MW-1 area.

4. IDW MANAGEMENT

Soil boring soil cuttings and groundwater sampling purge water were contained in labeled 55-gallon drums. One (1) of soil and one (1) water drum were generated and staged in secondary containment in the northwest portion of the Site pending disposal. The IDW disposal documentation is include in **Attachment 7**.

---

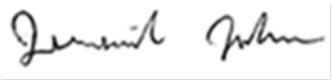
[10] SiREM Technical Note 1.5: *Interpretation of Gene-Trac® Dhc, Gene-Trac® Chloroethene FGA Assays*.
[11] *Understanding Chlorinated Hydrocarbon Behavior in Groundwater: Guidance on the Investigation, Assessment and Limitations of Monitored Natural Attenuation*, WDNR Publication RR-699.

5. CLOSING

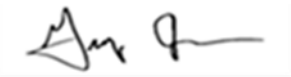
Due to WDNR's expressed concern[12] that groundwater quality standards may not be achieved in a reasonable period of time, Pharmacia will utilize the pre-design investigation results in the preparation of a *Remedial Action Options and Design Report* (RAO-DR).

Please contact us if you have any questions regarding this *Pre-Design Investigation Report*.

Sincerely,



Jeremiah Johnson, P.G.
Senior Geologist
(Licensed P.G. in WI)



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

Attachment 1 - NR 712.09 Submittal Certification
Attachment 2 - Figures
Attachment 3 - Boring Logs and Abandonment Forms
Attachment 4 - Tables
Attachment 5 - Soil Sampling Laboratory Reports
Attachment 6 - Groundwater Sampling Laboratory Reports
Attachment 7 - IDW Disposal Documentation

cc: Mr. Christopher Clark, Pharmacia LLC
Ms. Mary Jo Anzia, BSI
Mr. J. Gregory Moll, WDNR

[12] As documented in the February 10, 2023 *Pre-Design Investigation Work Plan*.

ATTACHMENT 1

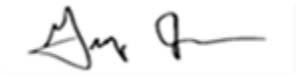
NR 712.09 Submittal Certification

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

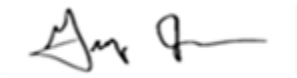
NR 712.09 Submittal certification.

Document Name	PRE-DESIGN INVESTIGATION REPORT
Document Date	May 19, 2023
Site Name	Milwaukee Die Casting Company Site
WDNR BRRTS #	02-41-000023

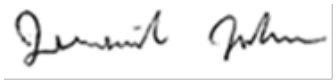
"I, Greg Johnson, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; 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	 5/19/2023
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."

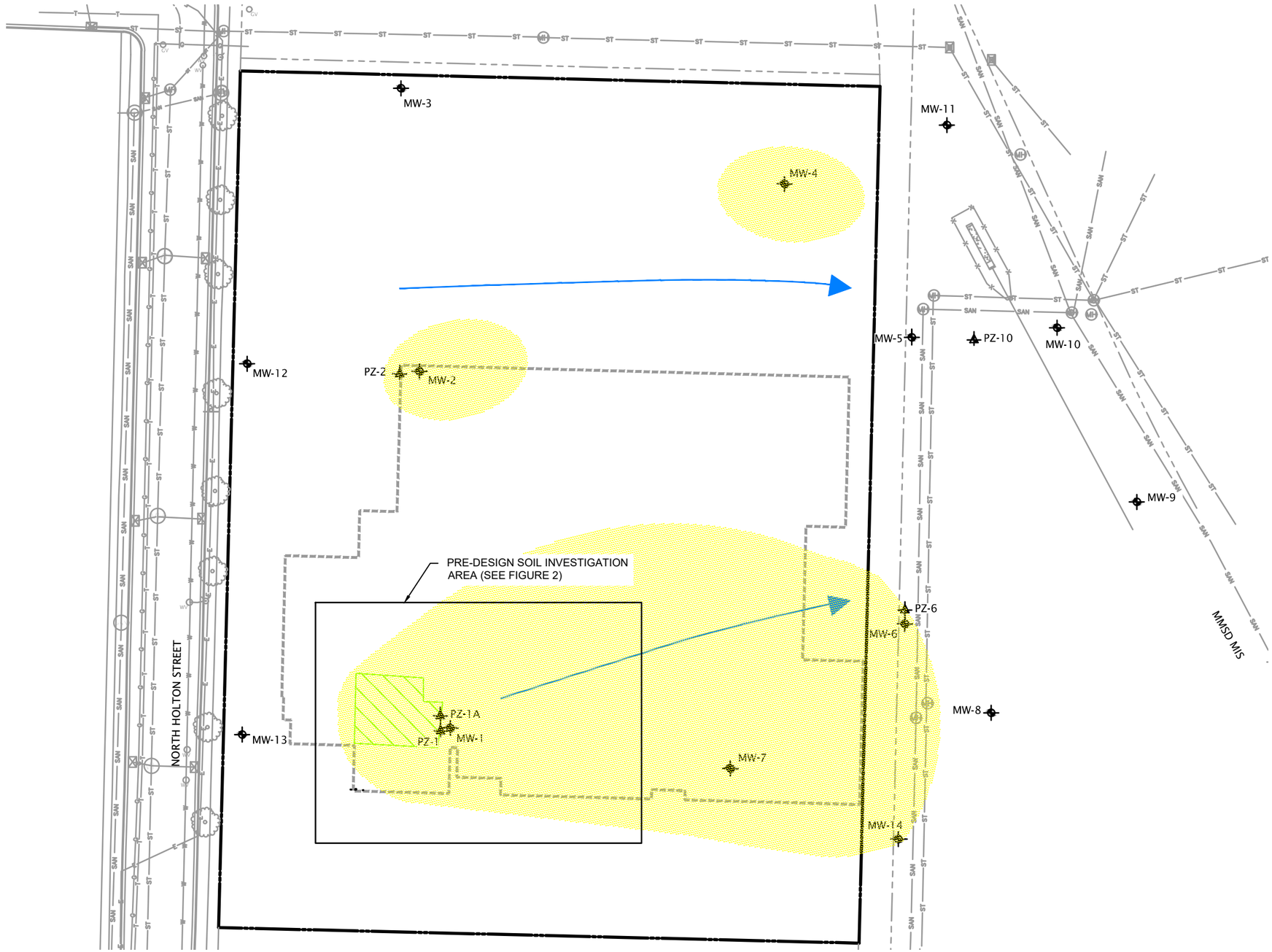
 Senior Engineer	5/19/2023
Signature and title	Date

"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."

 Senior Geologist	5/19/2023
Signature and title	Date

ATTACHMENT 2

Figures



LEGEND

- APPROXIMATE SITE PROPERTY LINE
- APPROXIMATE ADJACENT PROPERTY LINES
- APPROXIMATE FORMER BUILDING FOOTPRINT
- MW-7 — MONITORING WELL LOCATION
- PZ-2 — PIEZOMETER LOCATION
- ESTIMATED SHALLOW GROUNDWATER FLOW DIRECTION (SEE NOTE 1)
- ESTIMATED EXTENT OF CVOCs > NR 140 ES (SEE NOTE 1)
- 2015 CVOC-IMPACTED UNSATURATED SOIL REMOVAL AREA

NOTES:

CVOC - CHLORINATED VOLATILE ORGANIC COMPOUNDS
ES - ENFORCEMENT STANDARD
(1) - BASED ON JULY 27, 2022 GROUNDWATER DATA

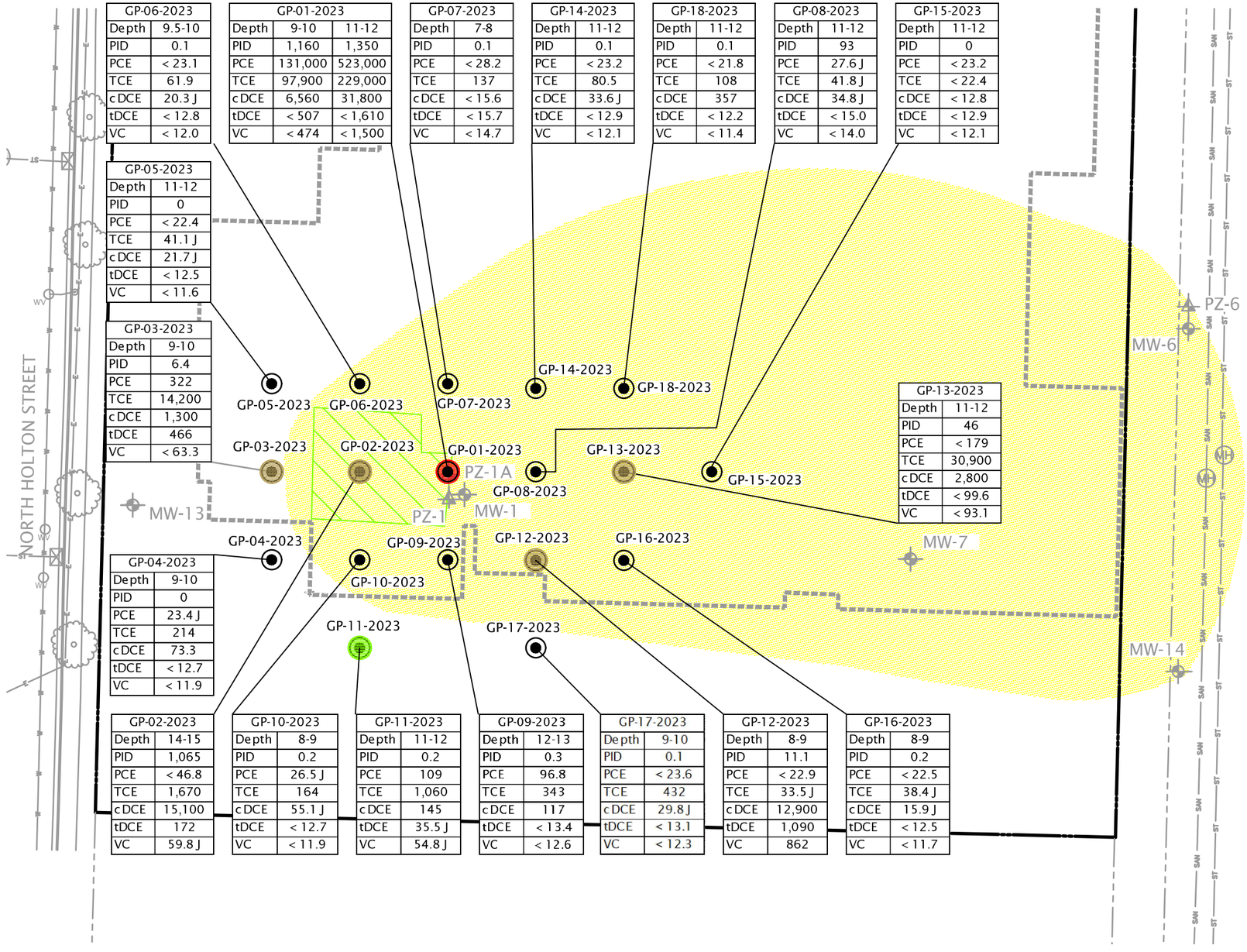
SCALE IN FEET
0 60'

N

Geosyntec consultants

CLIENT:	PHARMACIA, LLC.
PROJECT:	MILWAUKEE DIE CASTING COMPANY (MDCC) SITE 4132 NORTH HOLTON STREET MILWAUKEE, WISCONSIN
TITLE:	PRE-DESIGN INVESTIGATION SITE LAYOUT

PROJECT: CHW8271P	FIGURE NO.: 1	DRAWING NO.:	1 OF 4
DATE: April 6, 2023	FILE NO.: 23-04MDCC922		



LEGEND

- APPROXIMATE SITE PROPERTY LINE
- APPROXIMATE ADJACENT PROPERTY LINES
- APPROXIMATE FORMER BUILDING FOOTPRINT
- MW-7 MONITORING WELL LOCATION
- PZ-2 PIEZOMETER LOCATION
- 2015 CVOC-IMPACTED UNSATURATED SOIL REMOVAL AREA
- ESTIMATED EXTENT OF GROUNDWATER CVOCs > NR 140 ES
- SOIL BORING LOCATION

CVOC SOIL CONCENTRATIONS:

- CVOCs > 100,000 ug/Kg
- CVOCs > 10,000 AND < 100,000 ug/Kg
- CVOCs > 1,000 AND < 10,000 ug/Kg

NOTES:

ALL DATA IN MICROGRAMS PER KILOGRAM (ug/Kg)

CVOC - CHLORINATED VOLATILE ORGANIC COMPOUNDS
DCE - DICHLOROETHENE
DEPTH - FEET BELOW GROUND SURFACE
ES - ENFORCEMENT STANDARD
J - ESTIMATED CONCENTRATION AT OR ABOVE THE LIMIT OF DETECTION AND BELOW THE LIMIT OF QUANTITATION
PCE - TETRACHLOROETHENE
PID - PHOTOIONIZATION DECTECTOR READING (PPM)
PPM - PARTS PER MILLION
TCE - TRICHLOROETHENE
VC - VINYL CHLORIDE

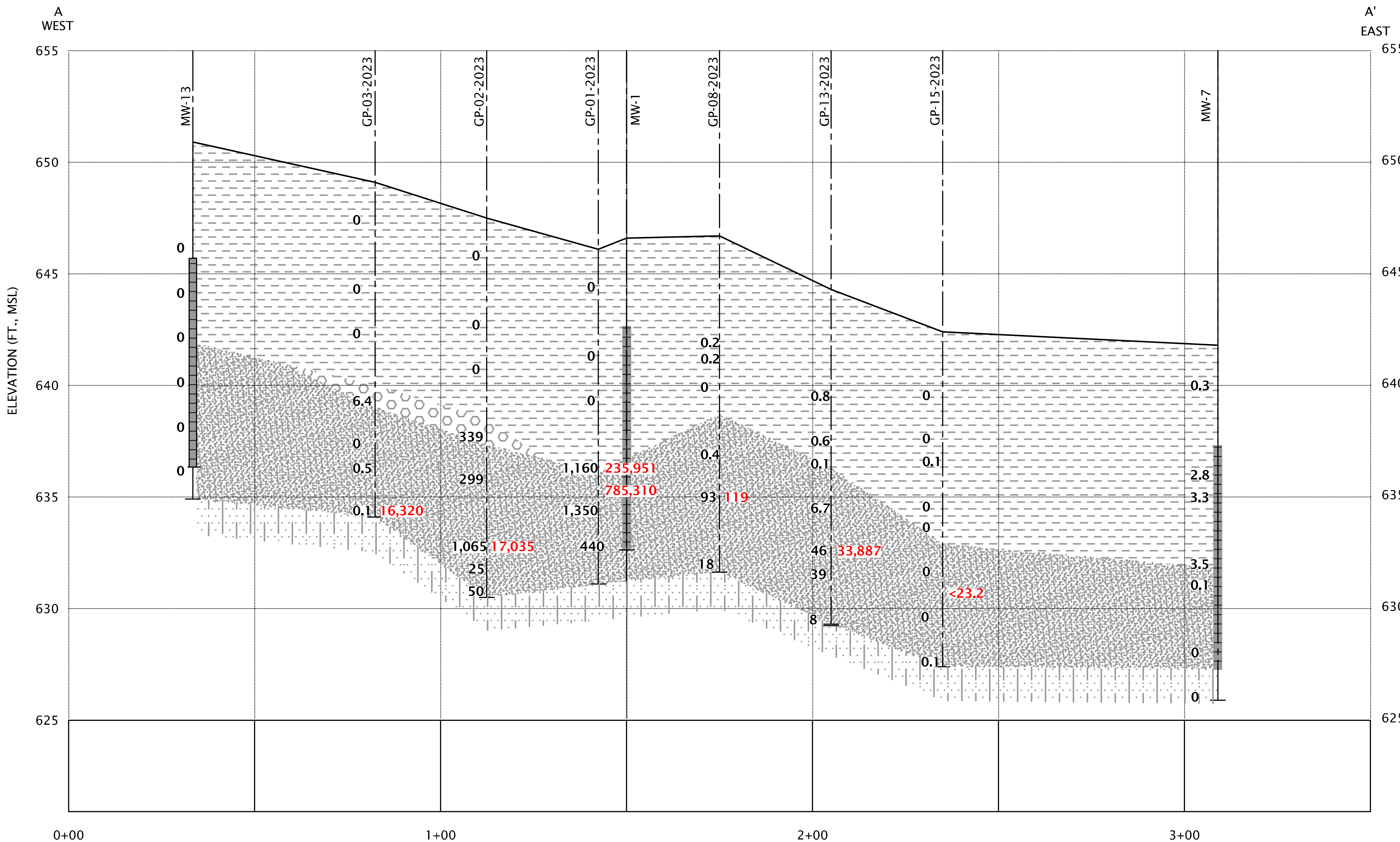
SCALE IN FEET
0 40'

N

Geosyntec consultants

CLIENT:	PHARMACIA, LLC.
PROJECT:	MILWAUKEE DIE CASTING COMPANY (MDCC) SITE 4132 NORTH HOLTON STREET MILWAUKEE, WISCONSIN
TITLE:	PRE-DESIGN INVESTIGATION SATURATED SOIL DATA MAP

PROJECT:	CHW8271P	FIGURE NO.: 2	DRAWING NO.: 2 OF 4
DATE:	April 6, 2023	FILE NO.: 2304MDCC922	

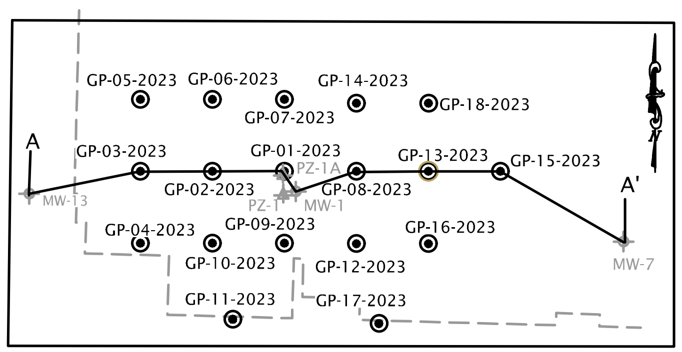


LEGEND:

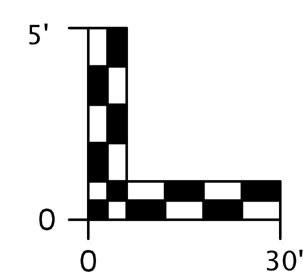
- EXISTING GROUND SURFACE
- CLAY FILL (HETEROGENEOUS RE-WORKED CLAY WITH VARYING SILT, SAND & GRAVEL)
- SILTY SAND
- SAND AND GRAVEL
- SILT (VERY DENSE)
- GROUNDWATER MONITORING WELL SCREEN
- 10 | 100 — PID READING (PPM) / TOTAL CVOCs (ug/Kg)

NOTES:

ug/Kg	- MICROGRAMS PER KILOGRAM
PID	- PHOTOIONIZATION DETECTOR
PPM	- PARTS PER MILLION
CVOCs	- CHLORINATED VOLATILE ORGANIC COMPOUNDS (ug/Kg)



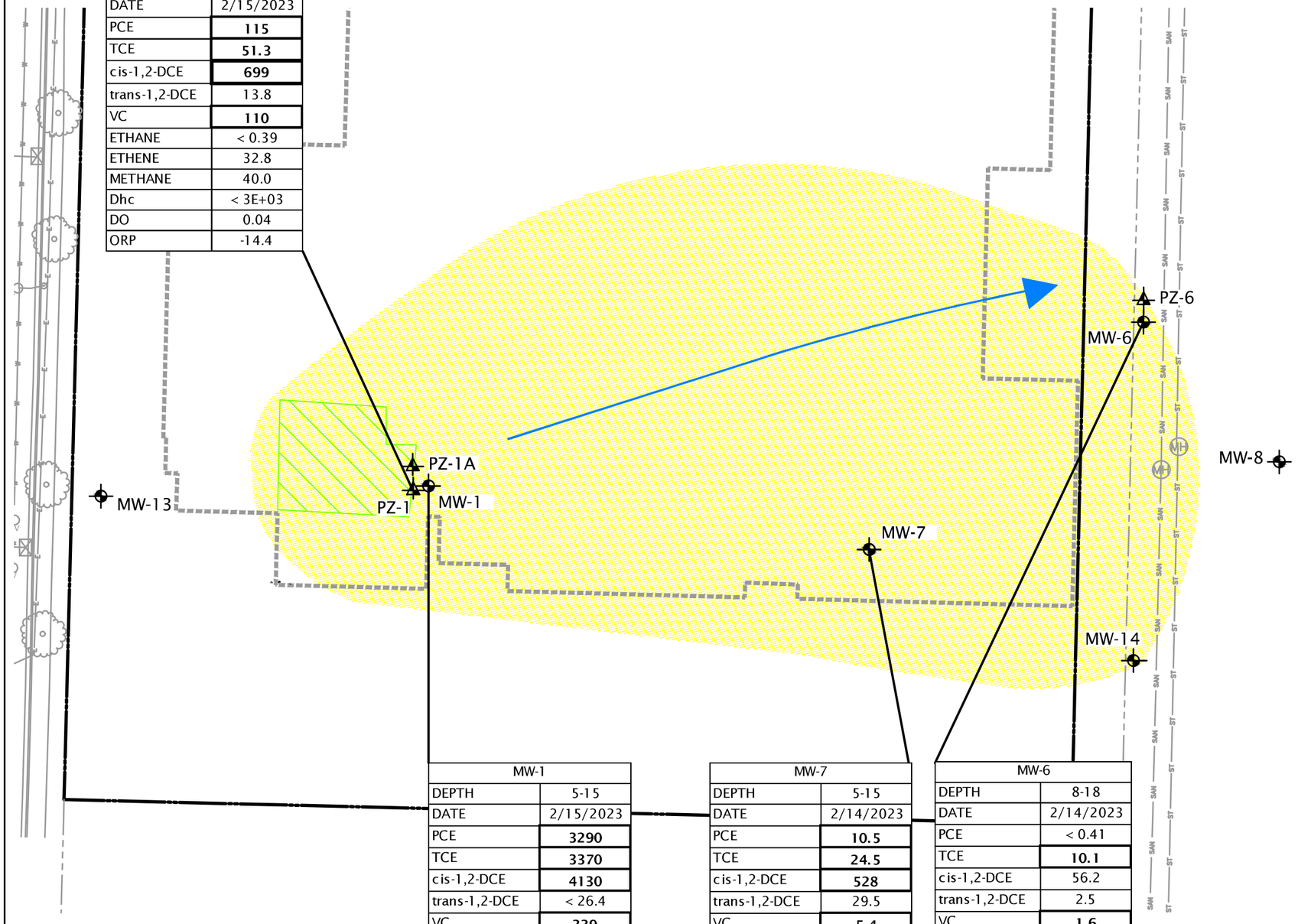
LOCATION MAP
N.T.S.



Geosyntec consultants

CLIENT:	PHARMACIA, LLC.
PROJECT:	MILWAUKEE DIE CASTING COMPANY (MDCC) SITE 4132 NORTH HOLTON STREET MILWAUKEE, WISCONSIN
TITLE:	PRE-DESIGN INVESTIGATION SECTION A - A'

PROJECT: CHW8271P	FIGURE NO.: 3	DRAWING NO.: 3 OF 4
DATE: April 6, 2023	FILE NO23-04 MDCC 922	



PZ-1	
DEPTH	31-36
DATE	2/15/2023
PCE	**115**
TCE	**51.3**
cis-1,2-DCE	**699**
trans-1,2-DCE	13.8
VC	**110**
ETHANE	< 0.39
ETHENE	32.8
METHANE	40.0
Dhc	< 3E+03
DO	0.04
ORP	-14.4

MW-1	
DEPTH	5-15
DATE	2/15/2023
PCE	**3290**
TCE	**3370**
cis-1,2-DCE	**4130**
trans-1,2-DCE	< 26.4
VC	**339**
ETHANE	21.4
ETHENE	83.7
METHANE	1260
Dhc	2E+06
DO	0.02
ORP	55.6

MW-7	
DEPTH	5-15
DATE	2/14/2023
PCE	**10.5**
TCE	**24.5**
cis-1,2-DCE	**528**
trans-1,2-DCE	29.5
VC	**5.4**
ETHANE	< 0.39
ETHENE	< 0.25
METHANE	0.99 J
Dhc	< 2E+03
DO	0.74
ORP	94.0

MW-6	
DEPTH	8-18
DATE	2/14/2023
PCE	< 0.41
TCE	**10.1**
cis-1,2-DCE	56.2
trans-1,2-DCE	2.5
VC	**1.6**
ETHANE	< 0.39
ETHENE	< 0.25
METHANE	187
Dhc	< 3E+03
DO	0.32
ORP	61.4

LEGEND

- APPROXIMATE SITE PROPERTY LINE
- APPROXIMATE ADJACENT PROPERTY LINES
- APPROXIMATE FORMER BUILDING FOOTPRINT
- MW-7 — MONITORING WELL LOCATION
- PZ-6 — PIEZOMETER LOCATION
- ESTIMATED GROUNDWATER FLOW DIRECTION (SEE NOTE 1)
- ESTIMATED EXTENT OF CVOCs > NR 140 ES (SEE NOTE 1
- 2015 CVOC-IMPACTED UNSATURATED SOIL REMOVAL AREA

NOTES:

ALL DATA IN MICROGRAMS PER LITER (µg/L) UNLESS NOTED
BOX + BOLD - CONCENTRATION GREATER THAN NR 140 ES
CVOC - CHLORINATED VOLATILE ORGANIC COMPOUNDS
DCE - DICHLOROETHENE
DEPTH - FEET BELOW GROUND SURFACE
Dhc - DEHALOCOCCOIDES (e/L)
DO - DISSOLVED OXYGEN (mg/L)
e/L - ENUMERATION PER LITER
ES - ENFORCEMENT STANDARD
J - ESTIMATED CONCENTRATION AT OR ABOVE THE LIMIT OF DETECTION AND BELOW THE LIMIT OF QUANTITATION
mg/l - MILLIGRAMS PER LITER
mV - MILLIVOLTS
ORP - OXIDATION-REDUCTION POTENTIAL (mV)
PCE - TETRACHLOROETHENE
TCE - TRICHLOROETHENE
VC - VINYL CHLORIDE
(1) BASED ON JULY 27, 2022 GROUNDWATER DATA

SCALE IN FEET
0 40'

N

Geosyntec consultants

CLIENT: PHARMACIA, LLC.

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

TITLE: PRE-DESIGN INVESTIGATION
GROUNDWATER DATA SUMMARY MAP

PROJECT: CHW8271P	FIGURE NO.: 4	DRAWING NO.: 4 OF 4
DATE: April 6, 2023	FILE NO.: 23-04MDCC922	

ATTACHMENT 3

Soil Boring Logs
Borehole Abandonment Forms

State of Wisconsin
Departament of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 **Rev. 7-98**

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remedation/Redevelopment ☒ Other ☐ _____

Facility/Project Name Milwaukee Die Casting Company Site			**License/Permit/Monitoring No.** BRTTS# 02-41-000023		**Boring Number** GP-01-2023
Boring Drilled By (First and Last Name, Firm) Dustin Harvey, Gestra Engineering, Inc.			**Drilling Start Date** 02/14/2023	**Drilling End Date** 02/14/2023	**Drilling Method** Direct Push
WI Unique Well No.	**DNR Well ID No.**	**Well Name** --	**Final Static WL** Feet MSL	**Surface Elevation** Feet MSL	**Borehole Diameter** 2 in
Local Grid Origin ☐ or **Boring Location** ☒ State Plane N, E **SW** 1/4 of **SW** 1/4 of Section **04**, T **07 N**, R **22 E**			**Lat** -- **Long** --	**Local Grid Location** ☐N ☐E _____ Feet ☐S _____ Feet ☐W	
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 (ppm)	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	N Value RQD	
1/GP	DP	24/60		0		(0') Brown CLAY (CL); moist (FILL).	FILL			0.0							
						(2') Grayish brown CLAY (CL); moist, trace silt.	CL			0.0							
2/GP	DP	24/60		5		(5') Dark brown to dark gray CLAY (CL); moist.	CL			0.0							
						(7.5') Gray SILT (ML); moist, few fine sand.	ML			1160							Sampled at 9-10 and 11-12 feet bgs.
3/GP	DP	48/60		10		(10') Gray, silty SAND with gravel (SM); moist to wet, few gravel, massive.	SM			1350							
				15		(15') Boring terminated-refusal (too dense for probe).				440							

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

Signature	Firm
	Geosyntec Consultants, Inc.

State of Wisconsin
Departament of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 **Rev. 7-98**

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remedation/Redevelopment ☒ Other ☐ _____

Facility/Project Name Milwaukee Die Casting Company Site			**License/Permit/Monitoring No.** BRTTS# 02-41-000023	**Boring Number** GP-02-2023
Boring Drilled By (First and Last Name, Firm) Dustin Harvey, Gestra Engineering, Inc.			**Drilling Start Date** 02/14/2023	**Drilling End Date** 02/14/2023	**Drilling Method** Direct Push
WI Unique Well No.	**DNR Well ID No.**	**Well Name** --	**Final Static WL** Feet MSL	**Surface Elevation** Feet MSL	**Borehole Diameter** 2 in
Local Grid Origin ☐ or **Boring Location** ☒ State Plane N, E **SW** 1/4 of **SW** 1/4 of Section **04**, T **07 N**, R **22 E**			**Lat** -- **Long** --	**Local Grid Location** ☐N ☐E _____ Feet ☐S _____ Feet ☐W	
Facility ID 241228240	**County** Milwaukee		**County Code** 41	**Civil Town/City/Village** Milwaukee	

SAMPLE						SOIL PROPERTIES						
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts	Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID (ppm)	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD	Comments
1/GP	DP	48/60		0	(0') Brown CLAY (CL); moist, topsoil (FILL).	FILL			0.0							
					(2') Grayish brown CLAY (CL); moist, few silt, trace gravel (FILL).	FILL			0.0							
2/GP	DP	48/60		5					0.0							
					(9') Gravel (GP); wet, crushed limestone (FILL).	FILL			339							
3/GP	DP	36/60		10	(9.5') Brown to gray CLAY and gravel (CL); wet (FILL).	FILL										
					(10') Gray, silty SAND (SM); wet, few gravel, massive.	SM			299							
4/GP	DP	24/24		15					1065							Sampled at 14-15 feet bgs.
									25							
									50							
					(17') 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.

State of Wisconsin
Departament of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 **Rev. 7-98**

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remedation/Redevelopment ☒ Other ☐ _____

Facility/Project Name Milwaukee Die Casting Company Site			**License/Permit/Monitoring No.** BRTTS# 02-41-000023	**Boring Number** GP-03-2023
Boring Drilled By (First and Last Name, Firm) Dustin Harvey, Gestra Engineering, Inc.			**Drilling Start Date** 02/14/2023	**Drilling End Date** 02/14/2023	**Drilling Method** Direct Push
WI Unique Well No.	**DNR Well ID No.**	**Well Name** --	**Final Static WL** Feet MSL	**Surface Elevation** Feet MSL	**Borehole Diameter** 2 in
Local Grid Origin ☐ or **Boring Location** ☒ State Plane N, E **SW** 1/4 of **SW** 1/4 of Section **04**, T **07 N**, R **22 E**			**Lat** -- **Long** --	**Local Grid Location** ☐N ☐E _____ Feet ☐S _____ Feet ☐W	
Facility ID 241228240	**County** Milwaukee		**County Code** 41	**Civil Town/City/Village** Milwaukee	

SAMPLE Sample ID	Sample Type	Length Attempt	Recovery (in)	Blow Counts	Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID (ppm)	SOIL PROPERTIES Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD	Comments
1/GP	DP		48/60		0	(0') Brown CLAY (CL); trace gravel (FILL).	FILL										
						(1') Grayish brown CLAY (CL); moist, trace to few gravel (FILL).	FILL			0.0							
						(2.5') Greenish gray CLAY (CL); moist, little silt, trace gravel.	CL										
						(3.5') Gray and brown CLAY (CL); moist, medium plasticity, cohesive, trace gravel, massive (FILL).	FILL			0.0							
2/GP	DP		30/60		5	(5') As above from 3.5-5.0 feet bgs.				0.0							
						(8.5') Red BRICK (FILL).	FILL										
						(9') Gray, poorly graded SAND with gravel (SP); wet.	SP			6.4							Sampled at 9-10 feet bgs.
3/GP	DP		36/60		10	(10') Gray, silty SAND (SM); moist, few gravel, few fine sand, massive.	SM			0.0							
										0.5							
					15					0.1							
						(15') Boring terminated-very dense.											

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

Signature	Firm
	Geosyntec Consultants, Inc.

State of Wisconsin
Departament of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 **Rev. 7-98**

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remedation/Redevelopment ☒ Other ☐ _____

Facility/Project Name Milwaukee Die Casting Company Site			**License/Permit/Monitoring No.** BRTTS# 02-41-000023	**Boring Number** GP-04-2023
Boring Drilled By (First and Last Name, Firm) Dustin Harvey, Gestra Engineering, Inc.			**Drilling Start Date** 02/14/2023	**Drilling End Date** 02/14/2023	**Drilling Method** Direct Push
WI Unique Well No.	**DNR Well ID No.**	**Well Name** --	**Final Static WL** Feet MSL	**Surface Elevation** Feet MSL	**Borehole Diameter** 2 in
Local Grid Origin ☐ or **Boring Location** ☒ State Plane N, E **SW** 1/4 of **SW** 1/4 of Section **04**, T **07 N**, R **22 E**			**Lat** -- **Long** --	**Local Grid Location** ☐N ☐E _____ Feet ☐S _____ Feet ☐W	
Facility ID 241228240	**County** Milwaukee		**County Code** 41	**Civil Town/City/Village** Milwaukee	

SAMPLE						SOIL PROPERTIES						
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts	Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID (ppm)	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD	Comments
1/GP	DP	48/60		0	(0') Brown CLAY (CL); moist, topsoil (FILL).	FILL										
					(1') Light brown CLAY (CL); moist, little sand, few gravel (FILL).	FILL			0.0							
					(4') Limestone boulder from 4.0-4.5 feet bgs.	FILL			0.0							
2/GP	DP	42/60		5	(4.5') Light brown, silty SAND (SM); moist, fine sand, massive (FILL).				0.0							
									0.0							
					(8.7') GRAVEL (GP); crushed limestone (FILL).	FILL										
3/GP	DP	36/60		10	(9.2') Very dense, grayish brown, silty SAND (SM); moist, fine sand, trace gravel, massive.	SM			0.0							
					(10') As above from 9.2-10.0 feet bgs.				0.0							
				15	(15') Boring terminated-too dense for probe.				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.

State of Wisconsin
Departament of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 **Rev. 7-98**

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remedation/Redevelopment ☒ Other ☐ _____

Facility/Project Name Milwaukee Die Casting Company Site			**License/Permit/Monitoring No.** BRTTS# 02-41-000023	**Boring Number** GP-05-2023
Boring Drilled By (First and Last Name, Firm) Dustin Harvey, Gestra Engineering, Inc.			**Drilling Start Date** 02/14/2023	**Drilling End Date** 02/14/2023	**Drilling Method** Direct Push
WI Unique Well No.	**DNR Well ID No.**	**Well Name** --	**Final Static WL** Feet MSL	**Surface Elevation** Feet MSL	**Borehole Diameter** 2 in
Local Grid Origin ☐ or **Boring Location** ☒ State Plane N, E **SW** 1/4 of **SW** 1/4 of Section **04**, T **07 N**, R **22 E**			**Lat** -- **Long** --	**Local Grid Location** ☐N ☐E _____ Feet ☐S _____ Feet ☐W	
Facility ID 241228240	**County** Milwaukee		**County Code** 41	**Civil Town/City/Village** Milwaukee	

SAMPLE						SOIL PROPERTIES						
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts	Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID (ppm)	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD	Comments
1/GP	DP	42/60		0	(0') Brown CLAY (CL); topsoil (FILL).	FILL			0.0							
					(1') Grayish brown CLAY (CL); trace gravel (FILL).	FILL										
					(2.5') Greenish gray CLAY (CL); moist, few to little sand, few gravel (FILL).	FILL										
					(4') Gray CLAY (CL); moist, few sand, trace gravel (FILL).	FILL			0.0							
2/GP	DP	54/60		5	(5') As above from 4.0-5.0 feet bgs.				0.0							
					(9') GRAVEL (GP); wet, crushed limestone (FILL).	FILL			0.0							
3/GP	DP	48/54		10	(11') Gray, poorly graded SAND with silt (SP-SM); wet, fine sand, massive.	SP-SM			0.0							
					(14.5') Boring terminated-refusal.				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.

State of Wisconsin
Departament of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 **Rev. 7-98**

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remedation/Redevelopment ☒ Other ☐ _____

Facility/Project Name Milwaukee Die Casting Company Site			**License/Permit/Monitoring No.** BRTTS# 02-41-000023	**Boring Number** GP-06-2023
Boring Drilled By (First and Last Name, Firm) Dustin Harvey, Gestra Engineering, Inc.			**Drilling Start Date** 02/14/2023	**Drilling End Date** 02/14/2023	**Drilling Method** Direct Push
WI Unique Well No.	**DNR Well ID No.**	**Well Name** --	**Final Static WL** Feet MSL	**Surface Elevation** Feet MSL	**Borehole Diameter** 2 in
Local Grid Origin ☐ or **Boring Location** ☒ State Plane N, E **SW** 1/4 of **SW** 1/4 of Section **04**, T **07 N**, R **22 E**			**Lat** -- **Long** --	**Local Grid Location** ☐N ☐E _____ Feet ☐S _____ Feet ☐W	
Facility ID 241228240	**County** Milwaukee		**County Code** 41	**Civil Town/City/Village** Milwaukee	

SAMPLE						SOIL PROPERTIES						
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts	Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID (ppm)	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD	Comments
1/GP	DP	42/60		0	(0') Brown CLAY (CL); moist, topsoil (FILL).	FILL										
					(1') Gray to grayish brown CLAY (CL); moist, few silt, trace gravel (FILL).	FILL			0.0							
2/GP	DP	48/60		5					0.0							
					(6') Gray to black, poorly graded SAND (SP); dry, apparent slag and foundry sand (FILL).	FILL			0.5							
					(7') Brown, silty CLAY (CL-ML); moist, little to some sand, few gravel, massive.	CL-ML			0.0							
3/GP	DP	36/60		10	(9.5') Gray, silty SAND (SM); moist, fine sand, few gravel.	SM			0.1							
									0.0							
				15	(15') Boring terminated.				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.

State of Wisconsin
Departament of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 **Rev. 7-98**

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remedation/Redevelopment ☒ Other ☐ _____

Facility/Project Name Milwaukee Die Casting Company Site			**License/Permit/Monitoring No.** BRTTS# 02-41-000023	**Boring Number** GP-07-2023
Boring Drilled By (First and Last Name, Firm) Dustin Harvey, Gestra Engineering, Inc.			**Drilling Start Date** 02/14/2023	**Drilling End Date** 02/14/2023	**Drilling Method** Direct Push
WI Unique Well No.	**DNR Well ID No.**	**Well Name** --	**Final Static WL** Feet MSL	**Surface Elevation** Feet MSL	**Borehole Diameter** 2 in
Local Grid Origin ☐ or **Boring Location** ☒ State Plane N, E **SW** 1/4 of **SW** 1/4 of Section **04**, T **07 N**, R **22 E**			**Lat** -- **Long** --	**Local Grid Location** ☐N ☐E _____ Feet ☐S _____ Feet ☐W	
Facility ID 241228240	**County** Milwaukee		**County Code** 41	**Civil Town/City/Village** Milwaukee	

SAMPLE						SOIL PROPERTIES						
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts	Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID (ppm)	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD	Comments
1/GP	DP	60/60		0	(0') Brown CLAY (CL); moist, topsoil (FILL).	FILL			0.0							
					(1') Grayish brown CLAY (CL); moist, few gravel (FILL).	FILL										
					(3') Dark gray to black CLAY (CL); moist, trace organics, massive.	CL			0.0							
2/GP	DP	60/60		5					0.0							
									0.1							
					(8.5') Gray, sandy SILT (ML); moist, fine sand, trace gravel, massive.	ML			0.0							
3/GP	DP	30/60		10	(10') Gray, silty SAND (SM); moist to wet, trace gravel, massive.	SM										
				15	(15') 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.

State of Wisconsin
Departament of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 **Rev. 7-98**

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remedation/Redevelopment ☒ Other ☐ _____

Facility/Project Name Milwaukee Die Casting Company Site			**License/Permit/Monitoring No.** BRTTS# 02-41-000023	**Boring Number** GP-08-2023
Boring Drilled By (First and Last Name, Firm) Dustin Harvey, Gestra Engineering, Inc.			**Drilling Start Date** 02/14/2023	**Drilling End Date** 02/14/2023	**Drilling Method** Direct Push
WI Unique Well No.	**DNR Well ID No.**	**Well Name** --	**Final Static WL** Feet MSL	**Surface Elevation** Feet MSL	**Borehole Diameter** 2 in
Local Grid Origin ☐ or **Boring Location** ☒ State Plane N, E **SW** 1/4 of **SW** 1/4 of Section **04**, T **07 N**, R **22 E**			**Lat** -- **Long** --	**Local Grid Location** ☐N ☐E _____ Feet ☐S _____ Feet ☐W	
Facility ID 241228240	**County** Milwaukee		**County Code** 41	**Civil Town/City/Village** Milwaukee	

SAMPLE Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts	Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID (ppm)	SOIL PROPERTIES Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD	Comments
1/GP	DP	48/60		0	(0') Brown CLAY (CL); moist, topsoil (FILL).	FILL										
					(1') Grayish brown CLAY (CL); trace gravel (FILL).	FILL										
					(3.5') Brown CLAY (CL); moist, few sand, massive.	CL			0.2							
2/GP	DP	42/60		5	(5') As above from 3.5-5.0 feet bgs.				0.2							
									0.0							
					(8.5') Gray, silty SAND (SM); moist, few gravel, massive.	SM			0.4							
3/GP	DP	36/60		10	(10') As above from 8.5-10.0 feet bgs.				0.3							Sampled at 11-12 feet bgs.
									18-30							
				15	(15') 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.

State of Wisconsin
Departament of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 **Rev. 7-98**

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remedation/Redevelopment ☒ Other ☐ _____

Facility/Project Name Milwaukee Die Casting Company Site			**License/Permit/Monitoring No.** BRTTS# 02-41-000023		**Boring Number** GP-09-2023
Boring Drilled By (First and Last Name, Firm) Dustin Harvey, Gestra Engineering, Inc.			**Drilling Start Date** 02/14/2023	**Drilling End Date** 02/14/2023	**Drilling Method** Direct Push
WI Unique Well No.	**DNR Well ID No.**	**Well Name** --	**Final Static WL** Feet MSL	**Surface Elevation** Feet MSL	**Borehole Diameter** 2 in
Local Grid Origin ☐ or **Boring Location** ☒ State Plane N, E **SW** 1/4 of **SW** 1/4 of Section **04**, T **07 N**, R **22 E**			**Lat** -- **Long** --	**Local Grid Location** ☐N ☐E _____ Feet ☐S _____ Feet ☐W	
Facility ID 241228240	**County** Milwaukee		**County Code** 41	**Civil Town/City/Village** Milwaukee	

SAMPLE						SOIL PROPERTIES							
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts	Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID (ppm)	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD	Comments
1/GP	DP	48/60		0	(0') Brown CLAY (CL); moist, topsoil (FILL).	FILL										
					(1') Gray to brown CLAY (CL); trace gravel (FILL).	FILL										
					(3') Black CLAY (CL); moist, few gravel, trace organics, massive.	CL			0.1							
2/GP	DP	60/60		5	(5') As above from 3.0-5.0 feet bgs.				0.0							
									0.1							
					(8') Gray, sandy SILT (ML); moist.	ML			0.1							
					(9') Gray, silty SAND (SM); moist, fine sand.	SM			0.1							
3/GP	DP	48/60		10					0.3							Sampled at 12-13 feet bgs.
									0.8							
				15	(15') 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.

State of Wisconsin
Departament of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 **Rev. 7-98**

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remedation/Redevelopment ☒ Other ☐ _____

Facility/Project Name Milwaukee Die Casting Company Site			**License/Permit/Monitoring No.** BRTTS# 02-41-000023	**Boring Number** GP-10-2023
Boring Drilled By (First and Last Name, Firm) Dustin Harvey, Gestra Engineering, Inc.			**Drilling Start Date** 02/14/2023	**Drilling End Date** 02/14/2023	**Drilling Method** Direct Push
WI Unique Well No.	**DNR Well ID No.**	**Well Name** --	**Final Static WL** Feet MSL	**Surface Elevation** Feet MSL	**Borehole Diameter** 2 in
Local Grid Origin ☐ or **Boring Location** ☒ State Plane N, E **SW** 1/4 of **SW** 1/4 of Section **04**, T **07 N**, R **22 E**			**Lat** -- **Long** --	**Local Grid Location** ☐N ☐E _____ Feet ☐S _____ Feet ☐W	
Facility ID 241228240	**County** Milwaukee		**County Code** 41	**Civil Town/City/Village** Milwaukee	

SAMPLE						SOIL PROPERTIES						
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts	Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID (ppm)	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD	Comments
1/GP	DP	48/60		0	(0') Brown CLAY (CL); moist, topsoil (FILL).	FILL										
					(1') Grayish brown CLAY (CL); (FILL).	FILL										
					(3.5') Gray SILT (ML); moist (FILL).	FILL										
				5	(4.5') Brown CLAY (CL); (FILL).	FILL										
2/GP	DP	42/60			(5.5') Gray and brown CLAY (CL); moist (FILL).	FILL			0.1 0.2							Sampled at 8-9 feet bgs.
					(9') GRAVEL (GP); wet, crushed limestone (FILL).	FILL										
3/GP	DP	30/60		10	(9.5') Grayish brown, silty SAND (SM); moist, few gravel.	SM			0.2							
					(10') As above from 9.5-10.0 feet bgs.				0.3							
				15	(15') Boring terminated.				0.1							

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

Signature	Firm
	Geosyntec Consultants, Inc.

State of Wisconsin
Departament of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 **Rev. 7-98**

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remedation/Redevelopment ☒ Other ☐ _____

Facility/Project Name Milwaukee Die Casting Company Site			**License/Permit/Monitoring No.** BRTTS# 02-41-000023	**Boring Number** GP-11-2023
Boring Drilled By (First and Last Name, Firm) Dustin Harvey, Gestra Engineering, Inc.			**Drilling Start Date** 02/15/2023	**Drilling End Date** 02/15/2023	**Drilling Method** Direct Push
WI Unique Well No.	**DNR Well ID No.**	**Well Name** --	**Final Static WL** Feet MSL	**Surface Elevation** Feet MSL	**Borehole Diameter** 2 in
Local Grid Origin ☐ or **Boring Location** ☒ State Plane N, E **SW** 1/4 of **SW** 1/4 of Section **04**, T **07 N**, R **22 E**			**Lat** -- **Long** --	**Local Grid Location** ☐N ☐E _____ Feet ☐S _____ Feet ☐W	
Facility ID 241228240	**County** Milwaukee		**County Code** 41	**Civil Town/City/Village** Milwaukee	

SAMPLE						SOIL PROPERTIES							
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts	Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID (ppm)	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD	Comments
1/GP	DP	48/60		0	(0') Brown CLAY (CL); moist, topsoil (FILL).	FILL										
					(1') Brown CLAY (CL); moist, few gravel (FILL).	FILL			0.0							
					(3.5') Gray CLAY (CL); moist, few gravel (FILL).	FILL			0.2							
2/GP	DP	24/60		5	(5.5') GRAVEL (GP); wet, crushed limestone (FILL).	FILL										
					(9') Dark gray CLAY (CL); wet, trace organics, massive.	CL			0.0							
3/GP	DP	18/60		10	(11') Very dense, gray, silty SAND (SM); moist, few gravel.	SM			0.2							Sampled at 11-12 feet bgs.
				15	(15') Boring terminated.				0.1							

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

Signature	Firm
	Geosyntec Consultants, Inc.

State of Wisconsin
Departament of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 **Rev. 7-98**

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remedation/Redevelopment ☒ Other ☐ _____

Facility/Project Name Milwaukee Die Casting Company Site			**License/Permit/Monitoring No.** BRTTS# 02-41-000023	**Boring Number** GP-12-2023
Boring Drilled By (First and Last Name, Firm) Dustin Harvey, Gestra Engineering, Inc.			**Drilling Start Date** 02/15/2023	**Drilling End Date** 02/15/2023	**Drilling Method** Direct Push
WI Unique Well No.	**DNR Well ID No.**	**Well Name** --	**Final Static WL** Feet MSL	**Surface Elevation** Feet MSL	**Borehole Diameter** 2 in
Local Grid Origin ☐ or **Boring Location** ☒ State Plane N, E **SW** 1/4 of **SW** 1/4 of Section **04**, T **07 N**, R **22 E**			**Lat** -- **Long** --	**Local Grid Location** ☐N ☐E _____ Feet ☐S _____ Feet ☐W	
Facility ID 241228240	**County** Milwaukee		**County Code** 41	**Civil Town/City/Village** Milwaukee	

SAMPLE						SOIL PROPERTIES						
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts	Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID (ppm)	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD	Comments
1/GP	DP	48/60		0	(0') Brown CLAY (CL); moist, topsoil (FILL).	FILL										
					(1') Grayish brown CLAY (CL); moist, trace gravel (FILL).	FILL										
					(4') BRICK and ASPHALT (FILL).	FILL			0.7							
2/GP	DP	42/60		5	(4.3') Brown CLAY (CL); moist, trace gravel (FILL).	FILL			2.4							
									6.8							
					(8') Gray, silty SAND (SM); moist, fine sand, trace gravel.	SM			11.1							Sampled at 8-9 feet bgs.
3/GP	DP	36/60		10	(10') As above from 8.0-10.0 feet bgs but wet.				1.1							
									2.1							
									0.2							
				15	(15') Boring terminated.				0.2							

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

Signature	Firm
	**Geosyntec Consultants, Inc.**

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ ______________

Facility/Project Name Milwaukee Die Casting Company Site	**License/Permit/Monitoring No.** BRTTS# 02-41-000023	**Boring Number** GP-13-2023

Boring Drilled By (First and Last Name, Firm) Dustin Harvey, Gestra Engineering, Inc.	**Drilling Start Date** 02/15/2023	**Drilling End Date** 02/15/2023	**Drilling Method** Direct Push

WI Unique Well No.	**DNR Well ID No.**	**Well Name** --	**Final Static WL** Feet MSL	**Surface Elevation** Feet MSL	**Borehole Diameter** 2 in

Local Grid Origin ☐ or **Boring Location** ☒ State Plane N, E **SW** 1/4 of **SW** 1/4 of Section **04**, T **07 N**, R **22 E**	**Lat** -- **Long** --	**Local Grid Location** ☐N ☐E _____ Feet ☐S _____ Feet ☐W

Facility ID 241228240	**County** Milwaukee	**County Code** 41	**Civil Town/City/Village** Milwaukee

SAMPLE										SOIL PROPERTIES						
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts	Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID (ppm)	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD	Comments
1/GP	DP	48/60		0	(0') Brown CLAY (CL); moist, topsoil (FILL).	FILL										
					(1') Grayish brown CLAY (CL); moist, trace gravel (FILL).	FILL										
					(3.8') Brown CLAY (CL); moist, few gravel, few sand (FILL).	FILL			0.8							
2/GP	DP	48/60		5												
					(6') Red bricks.				0.6							
									0.1							
					(8') Gray, silty SAND (SM); moist, few gravel.	SM			6.3							
3/GP	DP	42/60		10	(10') As above from 8.0-10.0 feet bgs.											
									46							Sampled at 11-12 feet bgs.
									39							
					(13') Wet.				8.0							
				15	(15') 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.**

State of Wisconsin
Departament of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 **Rev. 7-98**

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remedation/Redevelopment ☒ Other ☐ _____

Facility/Project Name Milwaukee Die Casting Company Site			**License/Permit/Monitoring No.** BRTTS# 02-41-000023	**Boring Number** GP-14-2023
Boring Drilled By (First and Last Name, Firm) Dustin Harvey, Gestra Engineering, Inc.			**Drilling Start Date** 02/15/2023	**Drilling End Date** 02/15/2023	**Drilling Method** Direct Push
WI Unique Well No.	**DNR Well ID No.**	**Well Name** --	**Final Static WL** Feet MSL	**Surface Elevation** Feet MSL	**Borehole Diameter** 2 in
Local Grid Origin ☐ or **Boring Location** ☒ State Plane N, E **SW** 1/4 of **SW** 1/4 of Section **04**, T **07 N**, R **22 E**			**Lat** -- **Long** --	**Local Grid Location** ☐N ☐E _____ Feet ☐S _____ Feet ☐W	
Facility ID 241228240	**County** Milwaukee		**County Code** 41	**Civil Town/City/Village** Milwaukee	

SAMPLE						SOIL PROPERTIES							
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts	Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID (ppm)	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD	Comments
1/GP	DP	54/60		0	(0') Brown CLAY (CL); moist, topsoil (FILL).	FILL										
					(1') Grayish brown CLAY (CL); moist, few gravel (FILL).	FILL			0.0							
					(3.2') Gray and brown CLAY (CL); moist (FILL).	FILL										
					(4') Reddish-brown CLAY (CL); moist, trace gravel, massive (FILL).	FILL			0.0							
2/GP	DP	60/60		5					0.0							
					(6.5') Brown CLAY with sand (CL); moist, few gravel, possible (FILL).	FILL			0.0							
					(9') Large roots.				0.0							
					(9.3') Gray, silty SAND (SM); moist, fine sand, few gravel, massive.	SM			0.1							Sampled at 11-12 feet bgs.
3/GP	DP	48/60		10	(10') As above from 9.3-10.0 feet bgs.				0.1							
					(13.5') Wet.				0.0							
				15	(15') 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.**

State of Wisconsin
Departament of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 **Rev. 7-98**

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remedation/Redevelopment ☒ Other ☐ _____

Facility/Project Name Milwaukee Die Casting Company Site			**License/Permit/Monitoring No.** BRTTS# 02-41-000023		**Boring Number** GP-15-2023
Boring Drilled By (First and Last Name, Firm) Dustin Harvey, Gestra Engineering, Inc.			**Drilling Start Date** 02/15/2023	**Drilling End Date** 02/15/2023	**Drilling Method** Direct Push
WI Unique Well No.	**DNR Well ID No.**	**Well Name** --	**Final Static WL** Feet MSL	**Surface Elevation** Feet MSL	**Borehole Diameter** 2 in
Local Grid Origin ☐ or **Boring Location** ☒ State Plane N, E **SW** 1/4 of **SW** 1/4 of Section **04**, T **07 N**, R **22 E**			**Lat** -- **Long** --	**Local Grid Location** ☐N ☐E _____ Feet ☐S _____ Feet ☐W	
Facility ID 241228240	**County** Milwaukee		**County Code** 41	**Civil Town/City/Village** Milwaukee	

SAMPLE						SOIL PROPERTIES						
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts	Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID (ppm)	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD	Comments
1/GP	DP	48/60		0	(0') Brown CLAY (CL); topsoil (FILL).	FILL			0.0							
					(1') Grayish brown CLAY (CL); moist, few gravel (FILL).	FILL			0.0							
					(3') Brown CLAY (CL); moist, few gravel (FILL).	FILL			0.1							
2/GP	DP	60/60		5	(5') Reddish-brown CLAY (CL); moist.	CL			0.0							
					(7.5') Grayish brown CLAY (CL); moist.	CL			0.0							
					(8') Refusal at 8.0 feet bgs. Offset.											
					(9') Gray, clayey SAND (SC); moist.	SC			0.0							
3/GP	DP	36/60		10	(9.6') Gray, silty SAND (SM); moist to wet, trace gravel.	SM			0.0							Sampled at 11-12 feet bgs.
				15	(15') Boring terminated.				0.1							

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

Signature	Firm
	Geosyntec Consultants, Inc.

State of Wisconsin
Departament of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 **Rev. 7-98**

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remedation/Redevelopment ☒ Other ☐ _____

Facility/Project Name Milwaukee Die Casting Company Site			**License/Permit/Monitoring No.** BRTTS# 02-41-000023		**Boring Number** GP-16-2023
Boring Drilled By (First and Last Name, Firm) Dustin Harvey, Gestra Engineering, Inc.			**Drilling Start Date** 02/15/2023	**Drilling End Date** 02/15/2023	**Drilling Method** Direct Push
WI Unique Well No.	**DNR Well ID No.**	**Well Name** --	**Final Static WL** Feet MSL	**Surface Elevation** Feet MSL	**Borehole Diameter** 2 in
Local Grid Origin ☐ or **Boring Location** ☒ State Plane N, E **SW** 1/4 of **SW** 1/4 of Section **04**, T **07 N**, R **22 E**			**Lat** -- **Long** --	**Local Grid Location** ☐N ☐E _____ Feet ☐S _____ Feet ☐W	
Facility ID 241228240	**County** Milwaukee		**County Code** 41	**Civil Town/City/Village** Milwaukee	

SAMPLE						SOIL PROPERTIES						
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts	Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID (ppm)	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD	Comments
1/GP	DP	54/60		0	(0') Brown CLAY (CL); topsoil (FILL).	FILL										
					(1') Grayish brown CLAY (CL); moist, trace gravel (FILL).	FILL			0.0							
					(3') Brown CLAY (CL); few sand, trace gravel (FILL).	FILL			0.2							
2/GP	DP	60/60		5	(5') Reddish-brown CLAY (CL); moist, medium plasticity, trace gravel, massive.	CL			1.3							
					(6.5') Grayish brown CLAY (CL); moist, medium plasticity.	CL			0.3							
					(7.5') Gray, clayey SAND (SC); moist, fine to medium sand, few gravel, massive.	SC			0.2							
					(8') Gray, silty SAND (SM); moist, fine to medium sand, few gravel, massive.	SM			0.2							Sampled at 8-9 feet bgs.
3/GP	DP	42/60		10	(10') As above from 8.0-10.0 feet bgs.				0.2							
					(13') Grading to fine sand.				0.1							
					(13.5') Wet.				0.2							
				15	(15') 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.

State of Wisconsin
Departament of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 **Rev. 7-98**

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remedation/Redevelopment ☒ Other ☐ _____

Facility/Project Name Milwaukee Die Casting Company Site			**License/Permit/Monitoring No.** BRTTS# 02-41-000023	**Boring Number** GP-17-2023
Boring Drilled By (First and Last Name, Firm) Dustin Harvey, Gestra Engineering, Inc.			**Drilling Start Date** 02/15/2023	**Drilling End Date** 02/15/2023	**Drilling Method** Direct Push
WI Unique Well No.	**DNR Well ID No.**	**Well Name** --	**Final Static WL** Feet MSL	**Surface Elevation** Feet MSL	**Borehole Diameter** 2 in
Local Grid Origin ☐ or **Boring Location** ☒ State Plane N, E **SW** 1/4 of **SW** 1/4 of Section **04**, T **07 N**, R **22 E**			**Lat** -- **Long** --	**Local Grid Location** ☐N ☐E _____ Feet ☐S _____ Feet ☐W	
Facility ID 241228240	**County** Milwaukee		**County Code** 41	**Civil Town/City/Village** Milwaukee	

SAMPLE										SOIL PROPERTIES						
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts	Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID (ppm)	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD	Comments
1/GP	DP	36/60		0	(0') Brown CLAY (CL); moist, topsoil (FILL).	FILL										
					(1') Brown CLAY (CL); little gravel, little sand (FILL).	FILL			0.1							
2/GP	DP	60/60		5					1.2							
					(5.5') Brown, sandy CLAY to clayey SAND (CL-SC); moist, fine sand, few gravel.	CL-SC			0.1							
					(6') Brown, silty SAND (SM); moist, few gravel.	SM			0.1							
					(7') Grading to grayish brown.				0.1							
3/GP	DP	36/60		10	(10') As above from 7.0-10.0 feed bgs.											Sampled at 9-10 feet bgs.
					(11') Grayish brown, poorly graded SAND with silt (SP-SM); moist (SM) to wet (SP), few gravel, layers indistinguishable.	SP-SM			0.1							
									0.0							
				15					0.1							
					(15') 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.

State of Wisconsin
Departament of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 **Rev. 7-98**

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remedation/Redevelopment ☒ Other ☐ _____

Facility/Project Name Milwaukee Die Casting Company Site			**License/Permit/Monitoring No.** BRTTS# 02-41-000023		**Boring Number** GP-18-2023
Boring Drilled By (First and Last Name, Firm) Dustin Harvey, Gestra Engineering, Inc.			**Drilling Start Date** 02/15/2023	**Drilling End Date** 02/15/2023	**Drilling Method** Direct Push
WI Unique Well No.	**DNR Well ID No.**	**Well Name** --	**Final Static WL** Feet MSL	**Surface Elevation** Feet MSL	**Borehole Diameter** 2 in
Local Grid Origin ☐ or **Boring Location** ☒ State Plane N, E **SW** 1/4 of **SW** 1/4 of Section **04**, T **07 N**, R **22 E**			**Lat** -- **Long** --	**Local Grid Location** ☐N ☐E _____ Feet ☐S _____ Feet ☐W	
Facility ID 241228240	**County** Milwaukee		**County Code** 41	**Civil Town/City/Village** Milwaukee	

SAMPLE						SOIL PROPERTIES							
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts	Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID (ppm)	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD	Comments
1/GP	DP	60/60		0	(0') Brown CLAY (CL); topsoil (FILL).	FILL										
					(1') Grayish brown CLAY (CL); moist, trace gravel (FILL).	FILL										
					(3') Brown CLAY (CL); moist, few gravel, possible (FILL).	FILL			0.0							
					(4') Reddish-brown CLAY (CL); moist, trace to few gravel, massive.	CL			0.0							
2/GP	DP	24/60		5												
					(5.5') Gray, sandy CLAY (CL); moist, some sand, few gravel, massive.	CL			0.0							
					(6.5') Rocks present, no recovery below 7 feet bgs.				0.0							
3/GP	DP	42/60		10												
					(10') Gray, silty SAND (SM); moist, few gravel.	SM										
					(11') Gray, poorly graded SAND (SP); wet, fine to medium sand.	SP			0.1							Sampled at 11-12 feet bgs.
					(12') Gray, silty SAND (SM); moist, few gravel.	SM										
				15					0.0							
					(15') 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.

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**
SOIL BORING / WELL ID: GP-01-2023

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
MILWAUKEE	___ ___ ___ ___ ___	

Lattitude / Longitude (Degrees and Minutes) ___ ___ ° ___ ___ . ___ ___ ___ 'N / ___ ___ ° ___ ___ . ___ ___ ___ 'W — Method Code (see instructions): ___ ___ ___ ___ ___ ___

¼ / ¼	¼	Section	Township	Range	
SW	SW	4	7 N	22	☑ E ☐ W

or Gov't Lot #

Well Street Address: 4132 N HOLTON ST.

Well City, Village or Town	Well ZIP Code
Milwaukee	53212

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Test Boring	___ ___ ___ ___ ___

2. Facility / Owner Information

Facility Name: MILWAUKEE DIE CASTING COMPANY (MDCC) SITE

Facility ID (FID or PWS): 241228240

License/Permit/Monitoring #:

Original Well Owner: Redevelopment Authority of the City of Milwaukee

Present Well Owner: Redevelopment Authority of the City of Milwaukee

Mailing Address of Present Owner: 809 N. BROADWAY

City of Present Owner	State	ZIP Code
MILWAUKEE	WI	53202

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 04/30/2014

If a Well Construction Report is available, please attach.

Construction Type: ☑ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify): _____

Formation Type: ☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	NA

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☑ N/A
Liner(s) removed?	☐ Yes	☐ No	☑ N/A
Screen removed?	☐ Yes	☐ No	☑ N/A
Casing left in place?	☐ Yes	☐ No	☑ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☑ N/A
Did sealing material rise to surface?	☑ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☑ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☑ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☑ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	15.0	0.5 SACKS	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
GEOSYNTEC CONSULTANTS		2/14/2023

Street or Route	Telephone Number
10600 N. PORT WASHINGTON RD	(262)377-9828

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
MEQUON	WI	53092		

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**
SOIL BORING / WELL ID: GP-02-2023

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
MILWAUKEE	___ ___ ___ ___ ___	

Lattitude / Longitude (Degrees and Minutes) ___ ___ ° ___ ___ . ___ ___ ___ 'N ___ ___ ° ___ ___ . ___ ___ ___ 'W

Method Code (see instructions) ___ ___ ___ ___ ___ ___

¼ / ¼ SW	¼ sw	Section	Township	Range	
or Gov't Lot #		4	7 N	22	☑ E ☐ W

Well Street Address: 4132 N HOLTON ST.

Well City, Village or Town	Well ZIP Code
Milwaukee	53212

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Test Boring	___ ___ ___ ___ ___

2. Facility / Owner Information

Facility Name: MILWAUKEE DIE CASTING COMPANY (MDCC) SITE

Facility ID (FID or PWS): 241228240

License/Permit/Monitoring #:

Original Well Owner: Redevelopment Authority of the City of Milwaukee

Present Well Owner: Redevelopment Authority of the City of Milwaukee

Mailing Address of Present Owner: 809 N. BROADWAY

City of Present Owner	State	ZIP Code
MILWAUKEE	WI	53202

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 02/14/2023

If a Well Construction Report is available, please attach.

Construction Type: ☑ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify): _____

Formation Type: ☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
17.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	NA

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☑ N/A
Liner(s) removed?	☐ Yes	☐ No	☑ N/A
Screen removed?	☐ Yes	☐ No	☑ N/A
Casing left in place?	☐ Yes	☐ No	☑ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☑ N/A
Did sealing material rise to surface?	☑ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☑ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☑ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☑ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	17.0	0.5 SACKS	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
GEOSYNTEC CONSULTANTS		2/14/2023

Street or Route	Telephone Number
10600 N. PORT WASHINGTON RD	(262)377-9828

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
MEQUON	WI	53092		4/13/2023

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**
SOIL BORING / WELL ID: GP-03-2023

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
MILWAUKEE	___ ___ ___ ___ ___	

Lattitude / Longitude (Degrees and Minutes) ___ ___ ° ___ ___ . ___ ___ ___ 'N / ___ ___ ° ___ ___ . ___ ___ ___ 'W — Method Code (see instructions): ___ ___ ___ ___ ___ ___

¼ / ¼ SW	¼ sw	Section	Township	Range	
or Gov't Lot #		4	7 N	22	☑ E ☐ W

Well Street Address: 4132 N HOLTON ST.

Well City, Village or Town	Well ZIP Code
Milwaukee	53212

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Test Boring	___ ___ ___ ___ ___

2. Facility / Owner Information

Facility Name: MILWAUKEE DIE CASTING COMPANY (MDCC) SITE

Facility ID (FID or PWS): 241228240

License/Permit/Monitoring #:

Original Well Owner: Redevelopment Authority of the City of Milwaukee

Present Well Owner: Redevelopment Authority of the City of Milwaukee

Mailing Address of Present Owner: 809 N. BROADWAY

City of Present Owner	State	ZIP Code
MILWAUKEE	WI	53202

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 02/14/2023

If a Well Construction Report is available, please attach.

Construction Type: ☑ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify): _____

Formation Type: ☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	NA

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☑ N/A
Liner(s) removed?	☐ Yes	☐ No	☑ N/A
Screen removed?	☐ Yes	☐ No	☑ N/A
Casing left in place?	☐ Yes	☐ No	☑ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☑ N/A
Did sealing material rise to surface?	☑ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☑ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☑ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☑ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	15	0.5 SACKS	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
GEOSYNTEC CONSULTANTS		2/14/2023

Street or Route	Telephone Number
10600 N. PORT WASHINGTON RD	(262)377-9828

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
MEQUON	WI	53092		4/13/2023

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**
SOIL BORING / WELL ID: GP-04-2023

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
MILWAUKEE	___ ___ ___ ___ ___	

Lattitude / Longitude (Degrees and Minutes) ___ ___ ° ___ ___ . ___ ___ ___ 'N ___ ___ ° ___ ___ . ___ ___ ___ 'W

Method Code (see instructions) ___ ___ ___ ___ ___ ___

¼ / ¼ SW	¼ sw	Section	Township	Range	
or Gov't Lot #		4	7 N	22	☑ E ☐ W

Well Street Address: 4132 N HOLTON ST.

Well City, Village or Town	Well ZIP Code
Milwaukee	53212

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Test Boring	___ ___ ___ ___ ___

2. Facility / Owner Information

Facility Name: MILWAUKEE DIE CASTING COMPANY (MDCC) SITE

Facility ID (FID or PWS): 241228240

License/Permit/Monitoring #:

Original Well Owner: Redevelopment Authority of the City of Milwaukee

Present Well Owner: Redevelopment Authority of the City of Milwaukee

Mailing Address of Present Owner: 809 N. BROADWAY

City of Present Owner	State	ZIP Code
MILWAUKEE	WI	53202

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 02/14/2023

If a Well Construction Report is available, please attach.

Construction Type: ☑ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify): _____

Formation Type: ☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	NA

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☑ N/A
Liner(s) removed?	☐ Yes	☐ No	☑ N/A
Screen removed?	☐ Yes	☐ No	☑ N/A
Casing left in place?	☐ Yes	☐ No	☑ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☑ N/A
Did sealing material rise to surface?	☑ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☑ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☑ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☑ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	15	0.5 SACKS	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
GEOSYNTEC CONSULTANTS		2/14/2023

Street or Route	Telephone Number
10600 N. PORT WASHINGTON RD	(262)377-9828

City	State	ZIP Code
MEQUON	WI	53092

Signature of Person Doing Work

Date Signed: 4/13/2023

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**
SOIL BORING / WELL ID: GP-05-2023

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
MILWAUKEE	___ ___ ___ ___ ___	

Lattitude / Longitude (Degrees and Minutes) ___ ___ ° ___ ___ . ___ ___ ___ 'N / ___ ___ ° ___ ___ . ___ ___ ___ 'W

Method Code (see instructions): ___ ___ ___ ___ ___ ___

¼ / ¼ SW	¼ sw	Section	Township	Range	
or Gov't Lot #		4	7 N	22	☑ E ☐ W

Well Street Address: 4132 N HOLTON ST.

Well City, Village or Town	Well ZIP Code
Milwaukee	53212

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Test Boring	___ ___ ___ ___ ___

2. Facility / Owner Information

Facility Name: MILWAUKEE DIE CASTING COMPANY (MDCC) SITE

Facility ID (FID or PWS): 241228240

License/Permit/Monitoring #:

Original Well Owner: Redevelopment Authority of the City of Milwaukee

Present Well Owner: Redevelopment Authority of the City of Milwaukee

Mailing Address of Present Owner: 809 N. BROADWAY

City of Present Owner	State	ZIP Code
MILWAUKEE	WI	53202

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 02/14/2023

If a Well Construction Report is available, please attach.

Construction Type:
☑ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
14.5	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	NA

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☑ N/A
Liner(s) removed?	☐ Yes	☐ No	☑ N/A
Screen removed?	☐ Yes	☐ No	☑ N/A
Casing left in place?	☐ Yes	☐ No	☑ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☑ N/A
Did sealing material rise to surface?	☑ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☑ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☑ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☑ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	14.5	0.5 SACKS	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
GEOSYNTEC CONSULTANTS		2/14/2023

Street or Route	Telephone Number
10600 N. PORT WASHINGTON RD	(262)377-9828

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
MEQUON	WI	53092		4/13/2023

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**
SOIL BORING / WELL ID: GP-06-2023

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
MILWAUKEE	___ ___ ___ ___ ___	

Lattitude / Longitude (Degrees and Minutes) ___ ___ ° ___ ___ . ___ ___ ___ 'N / ___ ___ ° ___ ___ . ___ ___ ___ 'W — Method Code (see instructions): ___ ___ ___ ___ ___ ___

¼ / ¼ SW	¼ sw	Section	Township	Range	
or Gov't Lot #		4	7 N	22	☑ E ☐ W

Well Street Address: 4132 N HOLTON ST.

Well City, Village or Town	Well ZIP Code
Milwaukee	53212

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Test Boring	___ ___ ___ ___ ___

2. Facility / Owner Information

Facility Name: MILWAUKEE DIE CASTING COMPANY (MDCC) SITE

Facility ID (FID or PWS): 241228240

License/Permit/Monitoring #:

Original Well Owner: Redevelopment Authority of the City of Milwaukee

Present Well Owner: Redevelopment Authority of the City of Milwaukee

Mailing Address of Present Owner: 809 N. BROADWAY

City of Present Owner	State	ZIP Code
MILWAUKEE	WI	53202

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 02/14/2023

If a Well Construction Report is available, please attach.

Construction Type: ☑ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify): _____

Formation Type: ☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	NA

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☑ N/A
Liner(s) removed?	☐ Yes	☐ No	☑ N/A
Screen removed?	☐ Yes	☐ No	☑ N/A
Casing left in place?	☐ Yes	☐ No	☑ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☑ N/A
Did sealing material rise to surface?	☑ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☑ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☑ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☑ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	15	0.5 SACKS	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
GEOSYNTEC CONSULTANTS		2/14/2023

Street or Route	Telephone Number
10600 N. PORT WASHINGTON RD	(262)377-9828

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
MEQUON	WI	53092		4/13/2023

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**
SOIL BORING / WELL ID: GP-07-2023

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
MILWAUKEE	___ ___ ___ ___ ___	

Lattitude / Longitude (Degrees and Minutes) ___ ___ ° ___ ___ . ___ ___ ___ 'N / ___ ___ ° ___ ___ . ___ ___ ___ 'W — Method Code (see instructions): ___ ___ ___ ___ ___ ___

¼ / ¼ SW	¼ sw	Section	Township	Range	
or Gov't Lot #		4	7 N	22	☑ E ☐ W

Well Street Address: 4132 N HOLTON ST.

Well City, Village or Town	Well ZIP Code
Milwaukee	53212

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Test Boring	___ ___ ___ ___ ___

2. Facility / Owner Information

Facility Name: MILWAUKEE DIE CASTING COMPANY (MDCC) SITE

Facility ID (FID or PWS): 241228240

License/Permit/Monitoring #:

Original Well Owner: Redevelopment Authority of the City of Milwaukee

Present Well Owner: Redevelopment Authority of the City of Milwaukee

Mailing Address of Present Owner: 809 N. BROADWAY

City of Present Owner	State	ZIP Code
MILWAUKEE	WI	53202

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 02/14/2023

If a Well Construction Report is available, please attach.

Construction Type:
☑ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	NA

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☑ N/A
Liner(s) removed?	☐ Yes	☐ No	☑ N/A
Screen removed?	☐ Yes	☐ No	☑ N/A
Casing left in place?	☐ Yes	☐ No	☑ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☑ N/A
Did sealing material rise to surface?	☑ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☑ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☑ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☑ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	15	0.5 SACKS	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
GEOSYNTEC CONSULTANTS		2/14/2023

Street or Route	Telephone Number
10600 N. PORT WASHINGTON RD	(262)377-9828

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
MEQUON	WI	53092		4/13/2023

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**
SOIL BORING / WELL ID: GP-08-2023

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
MILWAUKEE	___ ___ ___ ___ ___	

Lattitude / Longitude (Degrees and Minutes) ___ ___ ° ___ ___ . ___ ___ ___ 'N / ___ ___ ° ___ ___ . ___ ___ ___ 'W — Method Code (see instructions): ___ ___ ___ ___ ___ ___

¼ / ¼ SW	¼ sw	Section	Township	Range	
or Gov't Lot #		4	7 N	22	☑ E ☐ W

Well Street Address: 4132 N HOLTON ST.

Well City, Village or Town	Well ZIP Code
Milwaukee	53212

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Test Boring	___ ___ ___ ___ ___

2. Facility / Owner Information

Facility Name: MILWAUKEE DIE CASTING COMPANY (MDCC) SITE

Facility ID (FID or PWS): 241228240

License/Permit/Monitoring #:

Original Well Owner: Redevelopment Authority of the City of Milwaukee

Present Well Owner: Redevelopment Authority of the City of Milwaukee

Mailing Address of Present Owner: 809 N. BROADWAY

City of Present Owner	State	ZIP Code
MILWAUKEE	WI	53202

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 02/14/2023

If a Well Construction Report is available, please attach.

Construction Type: ☑ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify): _____

Formation Type: ☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	NA

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☑ N/A
Liner(s) removed?	☐ Yes	☐ No	☑ N/A
Screen removed?	☐ Yes	☐ No	☑ N/A
Casing left in place?	☐ Yes	☐ No	☑ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☑ N/A
Did sealing material rise to surface?	☑ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☑ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☑ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☑ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	15	0.5 SACKS	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
GEOSYNTEC CONSULTANTS		2/14/2023

Street or Route	Telephone Number
10600 N. PORT WASHINGTON RD	(262)377-9828

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
MEQUON	WI	53092		4/13/2023

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**
SOIL BORING / WELL ID: GP-09-2023

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
MILWAUKEE	___ ___ ___ ___ ___	

Lattitude / Longitude (Degrees and Minutes) ___ ___ ° ___ ___ . ___ ___ ___ 'N / ___ ___ ° ___ ___ . ___ ___ ___ 'W — Method Code (see instructions): ___ ___ ___ ___ ___ ___

¼ / ¼ SW	¼ sw	Section	Township	Range	
or Gov't Lot #		4	7 N	22	☑ E ☐ W

Well Street Address: 4132 N HOLTON ST.

Well City, Village or Town	Well ZIP Code
Milwaukee	53212

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Test Boring	___ ___ ___ ___ ___

2. Facility / Owner Information

Facility Name: MILWAUKEE DIE CASTING COMPANY (MDCC) SITE

Facility ID (FID or PWS): 241228240

License/Permit/Monitoring #:

Original Well Owner: Redevelopment Authority of the City of Milwaukee

Present Well Owner: Redevelopment Authority of the City of Milwaukee

Mailing Address of Present Owner: 809 N. BROADWAY

City of Present Owner	State	ZIP Code
MILWAUKEE	WI	53202

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 02/14/2023

If a Well Construction Report is available, please attach.

Construction Type: ☑ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify): _____

Formation Type: ☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	NA

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☑ N/A
Liner(s) removed?	☐ Yes	☐ No	☑ N/A
Screen removed?	☐ Yes	☐ No	☑ N/A
Casing left in place?	☐ Yes	☐ No	☑ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☑ N/A
Did sealing material rise to surface?	☑ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☑ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☑ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☑ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	15	0.5 SACKS	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
GEOSYNTEC CONSULTANTS		2/14/2023

Street or Route	Telephone Number
10600 N. PORT WASHINGTON RD	(262)377-9828

City	State	ZIP Code
MEQUON	WI	53092

Signature of Person Doing Work: [signature]

Date Signed: 4/13/2023

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**
SOIL BORING / WELL ID: GP-10-2023

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
MILWAUKEE	___ ___ ___ ___ ___	

Lattitude / Longitude (Degrees and Minutes) ___ ___ ° ___ ___ . ___ ___ ___ 'N / ___ ___ ° ___ ___ . ___ ___ ___ 'W

Method Code (see instructions): ___ ___ ___ ___ ___ ___

¼ / ¼ SW	¼ sw	Section	Township	Range	
or Gov't Lot #		4	7 N	22	☑ E ☐ W

Well Street Address: 4132 N HOLTON ST.

Well City, Village or Town	Well ZIP Code
Milwaukee	53212

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Test Boring	___ ___ ___ ___ ___

2. Facility / Owner Information

Facility Name: MILWAUKEE DIE CASTING COMPANY (MDCC) SITE

Facility ID (FID or PWS): 241228240

License/Permit/Monitoring #:

Original Well Owner: Redevelopment Authority of the City of Milwaukee

Present Well Owner: Redevelopment Authority of the City of Milwaukee

Mailing Address of Present Owner: 809 N. BROADWAY

City of Present Owner	State	ZIP Code
MILWAUKEE	WI	53202

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 02/14/2023

If a Well Construction Report is available, please attach.

Construction Type: ☑ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify): _____

Formation Type: ☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	NA

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☑ N/A
Liner(s) removed?	☐ Yes	☐ No	☑ N/A
Screen removed?	☐ Yes	☐ No	☑ N/A
Casing left in place?	☐ Yes	☐ No	☑ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☑ N/A
Did sealing material rise to surface?	☑ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☑ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☑ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☑ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	15	0.5 SACKS	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
GEOSYNTEC CONSULTANTS		2/14/2023

Street or Route	Telephone Number
10600 N. PORT WASHINGTON RD	(262)377-9828

City	State	ZIP Code
MEQUON	WI	53092

Signature of Person Doing Work: [signature]

Date Signed: 4/13/2023

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**
SOIL BORING / WELL ID: GP-11-2023

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
MILWAUKEE	___ ___ ___ ___ ___	

Lattitude / Longitude (Degrees and Minutes) ___ ___ ° ___ ___ . ___ ___ ___ 'N / ___ ___ ° ___ ___ . ___ ___ ___ 'W — Method Code (see instructions): ___ ___ ___ ___ ___ ___

¼ / ¼ SW	¼ sw	Section	Township	Range	
or Gov't Lot #		4	7 N	22	☑ E ☐ W

Well Street Address: 4132 N HOLTON ST.

Well City, Village or Town	Well ZIP Code
Milwaukee	53212

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Test Boring	___ ___ ___ ___ ___

2. Facility / Owner Information

Facility Name: MILWAUKEE DIE CASTING COMPANY (MDCC) SITE

Facility ID (FID or PWS): 241228240

License/Permit/Monitoring #:

Original Well Owner: Redevelopment Authority of the City of Milwaukee

Present Well Owner: Redevelopment Authority of the City of Milwaukee

Mailing Address of Present Owner: 809 N. BROADWAY

City of Present Owner	State	ZIP Code
MILWAUKEE	WI	53202

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 02/15/2023

If a Well Construction Report is available, please attach.

Construction Type: ☑ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify): _____

Formation Type: ☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	NA

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☑ N/A
Liner(s) removed?	☐ Yes	☐ No	☑ N/A
Screen removed?	☐ Yes	☐ No	☑ N/A
Casing left in place?	☐ Yes	☐ No	☑ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☑ N/A
Did sealing material rise to surface?	☑ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☑ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☑ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☑ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	15	0.5 SACKS	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
GEOSYNTEC CONSULTANTS		2/15/2023

Street or Route	Telephone Number
10600 N. PORT WASHINGTON RD	(262)377-9828

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
MEQUON	WI	53092		4/13/2023

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**
SOIL BORING / WELL ID: GP-12-2023

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
MILWAUKEE	___ ___ ___ ___ ___	

Lattitude / Longitude (Degrees and Minutes) ___ ___ ° ___ ___ . ___ ___ ___ 'N / ___ ___ ° ___ ___ . ___ ___ ___ 'W — Method Code (see instructions): ___ ___ ___ ___ ___ ___

¼ / ¼ SW	¼ sw	Section	Township	Range	
or Gov't Lot #		4	7 N	22	☑ E ☐ W

Well Street Address: 4132 N HOLTON ST.

Well City, Village or Town	Well ZIP Code
Milwaukee	53212

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Test Boring	___ ___ ___ ___ ___

2. Facility / Owner Information

Facility Name: MILWAUKEE DIE CASTING COMPANY (MDCC) SITE

Facility ID (FID or PWS): 241228240

License/Permit/Monitoring #:

Original Well Owner: Redevelopment Authority of the City of Milwaukee

Present Well Owner: Redevelopment Authority of the City of Milwaukee

Mailing Address of Present Owner: 809 N. BROADWAY

City of Present Owner	State	ZIP Code
MILWAUKEE	WI	53202

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 02/15/2023

If a Well Construction Report is available, please attach.

Construction Type: ☑ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify): _____

Formation Type: ☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	NA

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☑ N/A
Liner(s) removed?	☐ Yes	☐ No	☑ N/A
Screen removed?	☐ Yes	☐ No	☑ N/A
Casing left in place?	☐ Yes	☐ No	☑ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☑ N/A
Did sealing material rise to surface?	☑ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☑ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☑ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☑ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	15	0.5 SACKS	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
GEOSYNTEC CONSULTANTS		2/15/2023

Street or Route	Telephone Number
10600 N. PORT WASHINGTON RD	(262)377-9828

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
MEQUON	WI	53092		4/13/2023

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**
SOIL BORING / WELL ID: GP-13-2023

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
MILWAUKEE	___ ___ ___ ___ ___	

Lattitude / Longitude (Degrees and Minutes) ___ ___ ° ___ ___ . ___ ___ ___ 'N / ___ ___ ° ___ ___ . ___ ___ ___ 'W — Method Code (see instructions): ___ ___ ___ ___ ___ ___

¼ / ¼ SW	¼ sw	Section	Township	Range	
or Gov't Lot #		4	7 N	22	☑ E ☐ W

Well Street Address: 4132 N HOLTON ST.

Well City, Village or Town	Well ZIP Code
Milwaukee	53212

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Test Boring	___ ___ ___ ___ ___

2. Facility / Owner Information

Facility Name: MILWAUKEE DIE CASTING COMPANY (MDCC) SITE

Facility ID (FID or PWS): 241228240

License/Permit/Monitoring #:

Original Well Owner: Redevelopment Authority of the City of Milwaukee

Present Well Owner: Redevelopment Authority of the City of Milwaukee

Mailing Address of Present Owner: 809 N. BROADWAY

City of Present Owner	State	ZIP Code
MILWAUKEE	WI	53202

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 02/15/2023

If a Well Construction Report is available, please attach.

Construction Type: ☑ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify): _____

Formation Type: ☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	NA

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☑ N/A
Liner(s) removed?	☐ Yes	☐ No	☑ N/A
Screen removed?	☐ Yes	☐ No	☑ N/A
Casing left in place?	☐ Yes	☐ No	☑ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☑ N/A
Did sealing material rise to surface?	☑ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☑ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☑ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☑ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	15	0.5 SACKS	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
GEOSYNTEC CONSULTANTS		2/15/2023

Street or Route	Telephone Number
10600 N. PORT WASHINGTON RD	(262)377-9828

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
MEQUON	WI	53092		4/13/2023

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**
SOIL BORING / WELL ID: GP-14-2023

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
MILWAUKEE	___ ___ ___ ___ ___	

Lattitude / Longitude (Degrees and Minutes) ___ ___ ° ___ ___ . ___ ___ ___ 'N / ___ ___ ° ___ ___ . ___ ___ ___ 'W — Method Code (see instructions): ___ ___ ___ ___ ___ ___

¼ / ¼	¼	Section	Township	Range	
SW	sw	4	7 N	22	☑ E ☐ W

or Gov't Lot #

Well Street Address: 4132 N HOLTON ST.

Well City, Village or Town	Well ZIP Code
Milwaukee	53212

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Test Boring	___ ___ ___ ___ ___

2. Facility / Owner Information

Facility Name: MILWAUKEE DIE CASTING COMPANY (MDCC) SITE

Facility ID (FID or PWS): 241228240

License/Permit/Monitoring #:

Original Well Owner: Redevelopment Authority of the City of Milwaukee

Present Well Owner: Redevelopment Authority of the City of Milwaukee

Mailing Address of Present Owner: 809 N. BROADWAY

City of Present Owner	State	ZIP Code
MILWAUKEE	WI	53202

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 02/15/2023

If a Well Construction Report is available, please attach.

Construction Type:
☑ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	NA

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☑ N/A
Liner(s) removed?	☐ Yes	☐ No	☑ N/A
Screen removed?	☐ Yes	☐ No	☑ N/A
Casing left in place?	☐ Yes	☐ No	☑ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☑ N/A
Did sealing material rise to surface?	☑ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☑ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☑ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☑ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	15	0.5 SACKS	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
GEOSYNTEC CONSULTANTS		2/15/2023

Street or Route	Telephone Number
10600 N. PORT WASHINGTON RD	(262)377-9828

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
MEQUON	WI	53092		4/13/2023

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**
SOIL BORING / WELL ID: GP-15-2023

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
MILWAUKEE	___ ___ ___ ___ ___	

Lattitude / Longitude (Degrees and Minutes) ___ ___ ° ___ ___ . ___ ___ ___ 'N / ___ ___ ° ___ ___ . ___ ___ ___ 'W — Method Code (see instructions): ___ ___ ___ ___ ___ ___

¼ / ¼ SW	¼ sw	Section	Township	Range	
or Gov't Lot #		4	7 N	22	☑ E ☐ W

Well Street Address: 4132 N HOLTON ST.

Well City, Village or Town	Well ZIP Code
Milwaukee	53212

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Test Boring	___ ___ ___ ___ ___

2. Facility / Owner Information

Facility Name: MILWAUKEE DIE CASTING COMPANY (MDCC) SITE

Facility ID (FID or PWS): 241228240

License/Permit/Monitoring #:

Original Well Owner: Redevelopment Authority of the City of Milwaukee

Present Well Owner: Redevelopment Authority of the City of Milwaukee

Mailing Address of Present Owner: 809 N. BROADWAY

City of Present Owner	State	ZIP Code
MILWAUKEE	WI	53202

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 02/15/2023

If a Well Construction Report is available, please attach.

Construction Type: ☑ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify): _____

Formation Type: ☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	NA

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☑ N/A
Liner(s) removed?	☐ Yes	☐ No	☑ N/A
Screen removed?	☐ Yes	☐ No	☑ N/A
Casing left in place?	☐ Yes	☐ No	☑ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☑ N/A
Did sealing material rise to surface?	☑ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☑ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☑ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☑ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	15	0.5 SACKS	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
GEOSYNTEC CONSULTANTS		2/15/2023

Street or Route	Telephone Number
10600 N. PORT WASHINGTON RD	(262)377-9828

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
MEQUON	WI	53092		4/13/2023

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**
SOIL BORING / WELL ID: GP-16-2023

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
MILWAUKEE	___ ___ ___ ___ ___	

Lattitude / Longitude (Degrees and Minutes) ___ ___ ° ___ ___ . ___ ___ ___ 'N / ___ ___ ° ___ ___ . ___ ___ ___ 'W

Method Code (see instructions): ___ ___ ___ ___ ___ ___

¼ / ¼ SW	¼ sw	Section	Township	Range	
or Gov't Lot #		4	7 N	22	☑ E ☐ W

Well Street Address: 4132 N HOLTON ST.

Well City, Village or Town	Well ZIP Code
Milwaukee	53212

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Test Boring	___ ___ ___ ___ ___

2. Facility / Owner Information

Facility Name: MILWAUKEE DIE CASTING COMPANY (MDCC) SITE

Facility ID (FID or PWS): 241228240

License/Permit/Monitoring #:

Original Well Owner: Redevelopment Authority of the City of Milwaukee

Present Well Owner: Redevelopment Authority of the City of Milwaukee

Mailing Address of Present Owner: 809 N. BROADWAY

City of Present Owner	State	ZIP Code
MILWAUKEE	WI	53202

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 02/15/2023

If a Well Construction Report is available, please attach.

Construction Type:
☑ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	NA

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☑ N/A
Liner(s) removed?	☐ Yes	☐ No	☑ N/A
Screen removed?	☐ Yes	☐ No	☑ N/A
Casing left in place?	☐ Yes	☐ No	☑ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☑ N/A
Did sealing material rise to surface?	☑ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☑ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☑ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☑ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	15	0.5 SACKS	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
GEOSYNTEC CONSULTANTS		2/15/2023

Street or Route	Telephone Number
10600 N. PORT WASHINGTON RD	(262)377-9828

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
MEQUON	WI	53092		4/13/2023

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**
SOIL BORING / WELL ID: GP-17-2023

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
MILWAUKEE	___ ___ ___ ___ ___	

Lattitude / Longitude (Degrees and Minutes) ___ ___ ° ___ ___ . ___ ___ ___ 'N ___ ___ ° ___ ___ . ___ ___ ___ 'W

Method Code (see instructions) ___ ___ ___ ___ ___ ___

¼ / ¼ SW	¼ sw	Section	Township	Range	
or Gov't Lot #		4	7 N	22	☑ E ☐ W

Well Street Address: 4132 N HOLTON ST.

Well City, Village or Town	Well ZIP Code
Milwaukee	53212

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Test Boring	___ ___ ___ ___ ___

2. Facility / Owner Information

Facility Name: MILWAUKEE DIE CASTING COMPANY (MDCC) SITE

Facility ID (FID or PWS): 241228240

License/Permit/Monitoring #:

Original Well Owner: Redevelopment Authority of the City of Milwaukee

Present Well Owner: Redevelopment Authority of the City of Milwaukee

Mailing Address of Present Owner: 809 N. BROADWAY

City of Present Owner	State	ZIP Code
MILWAUKEE	WI	53202

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 02/15/2023

If a Well Construction Report is available, please attach.

Construction Type:
☑ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify): _____

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	NA

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☑ N/A
Liner(s) removed?	☐ Yes	☐ No	☑ N/A
Screen removed?	☐ Yes	☐ No	☑ N/A
Casing left in place?	☐ Yes	☐ No	☑ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☑ N/A
Did sealing material rise to surface?	☑ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☑ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☑ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☑ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	15	0.5 SACKS	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
GEOSYNTEC CONSULTANTS		2/15/2023

Street or Route	Telephone Number
10600 N. PORT WASHINGTON RD	(262)377-9828

City	State	ZIP Code
MEQUON	WI	53092

Signature of Person Doing Work

Date Signed: 4/13/2023

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**
SOIL BORING / WELL ID: GP-18-2023

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
MILWAUKEE	___ ___ ___ ___ ___	

Lattitude / Longitude (Degrees and Minutes) ___ ___ ° ___ ___ . ___ ___ ___ 'N / ___ ___ ° ___ ___ . ___ ___ ___ 'W — Method Code (see instructions): ___ ___ ___ ___ ___ ___

¼ / ¼ SW	¼ sw	Section	Township	Range	
or Gov't Lot #		4	7 N	22	☑ E ☐ W

Well Street Address: 4132 N HOLTON ST.

Well City, Village or Town	Well ZIP Code
Milwaukee	53212

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Test Boring	___ ___ ___ ___ ___

2. Facility / Owner Information

Facility Name: MILWAUKEE DIE CASTING COMPANY (MDCC) SITE

Facility ID (FID or PWS): 241228240

License/Permit/Monitoring #:

Original Well Owner: Redevelopment Authority of the City of Milwaukee

Present Well Owner: Redevelopment Authority of the City of Milwaukee

Mailing Address of Present Owner: 809 N. BROADWAY

City of Present Owner	State	ZIP Code
MILWAUKEE	WI	53202

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 02/15/2023

If a Well Construction Report is available, please attach.

Construction Type: ☑ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify): _____

Formation Type: ☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	NA

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☑ N/A
Liner(s) removed?	☐ Yes	☐ No	☑ N/A
Screen removed?	☐ Yes	☐ No	☑ N/A
Casing left in place?	☐ Yes	☐ No	☑ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☑ N/A
Did sealing material rise to surface?	☑ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☑ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☑ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☑ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	15	0.5 SACKS	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
GEOSYNTEC CONSULTANTS		2/15/2023

Street or Route	Telephone Number
10600 N. PORT WASHINGTON RD	(262)377-9828

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
MEQUON	WI	53092		4/13/2023

DNR Use Only

Date Received	Noted By

Comments:

ATTACHMENT 4

Tables

TABLE 1
Summary of Groundwater Depth and Elevation Data
Pre-Design Investigation
Milwaukee Die Casting Company Site
4132 North Holton Street
Milwaukee, Wisconsin

Well	Ground Surface Elevation	TOC Elevation	Screen Interval Elevations		Groundwater Level[1]					
					2/14/2023			Average[2]		
			Bottom	Top	Depth		Elevation	Depth		Elevation
	(ft amsl)	(ft amsl)	(ft amsl)	(ft amsl)	(ft bTOC)	(ft bgs)	(ft amsl)	(ft bTOC)	(ft bgs)	(ft amsl)
MW-1	646.55	648.74	631.15	641.15	4.57	2.38	644.17	6.24	4.05	642.49
MW-2	647.67	650.20	632.67	642.67	5.84	3.31	644.36	7.92	5.39	642.27
MW-3	648.57	650.91	633.07	643.07	5.45	3.11	645.46	9.32	6.99	641.58
MW-4	641.68	644.48	624.18	634.18	5.51	2.71	638.97	7.57	4.77	636.91
MW-5	638.52	641.49	621.22	631.22	8.85	5.87	632.64	12.10	9.12	629.39
MW-6	639.26	641.59	621.26	631.26	10.64	8.31	630.95	11.78	9.45	629.82
MW-7	641.78	644.17	626.88	636.88	3.29	0.90	640.88	4.71	2.31	639.47
MW-8	638.03	640.47	621.23	631.23	4.68	2.24	635.79	8.46	6.01	632.01
MW-9	635.74	638.33	620.54	630.54	6.71	4.13	631.62	9.01	6.43	629.31
MW-10	637.28	639.42	618.98	628.98	--[3]	--	--	13.36	11.21	626.07
MW-11	637.66	640.29	622.36	632.36	5.38	2.76	634.91	9.29	6.67	631.00
MW-12	651.07	653.30	635.67	645.67	7.93	5.69	645.37	10.76	8.52	642.54
MW-13	650.91	653.17	635.61	645.61	8.33	6.08	644.84	10.00	7.75	643.16
MW-14	640.35	642.81	622.55	632.55	6.41	3.94	636.40	7.56	5.09	635.25
PZ-1	646.74	648.89	610.64	615.64	4.90	2.75	643.99	6.59	4.44	642.30
PZ-1A	646.79	648.62	598.79	603.79	6.45	4.62	642.17	7.72	5.90	640.90
PZ-2	648.21	650.86	611.11	616.11	7.80	5.15	643.06	9.76	7.10	641.10
PZ-6	639.27	641.35	606.27	611.27	17.81	15.74	623.54	18.72	16.64	622.63
PZ-10	637.53	640.15	604.83	609.83	--[3]	--	--	23.70	21.08	616.45

Notes:
[1] - measured prior to groundwater sampling
[2] - average of 9 sampling events between 2020 and 2023
[3] - location not accessible
ft amsl - feet above mean sea level
ft bgs - feet below ground surface
ft bTOC - feet below top of casing
TOC - top of casing

TABLE 2
Summary of Soil Boring PID Field Screening Data
Pre-Design Investigation
Milwaukee Die Casting Company Site
4132 North Holton Street
Milwaukee, Wisconsin

Boring ID	GP-1-2023	GP-2-2023	GP-3-2023	GP-4-2023	GP-5-2023	GP-6-2023	GP-7-2023	GP-8-2023	GP-9-2023	GP-10-2023	GP-11-2023	GP-12-2023	GP-13-2023	GP-14-2023	GP-15-2023	GP-16-2023	GP-17-2023	GP-18-2023
Boring Date	2/14/2023	2/14/2023	2/14/2023	2/14/2023	2/14/2023	2/14/2023	2/14/2023	2/14/2023	2/14/2023	2/14/2023	2/15/2023	2/15/2023	2/15/2023	2/15/2023	2/15/2023	2/15/2023	2/15/2023	2/15/2023
Boring Depth (ft bgs)	15	17	15	15	14.5	15	15	15	15	15	15	15	15	15	15	15	15	15
Screening Depth (ft bgs)																		
0-1				0														
1-2	0	0	0		0						0					0.0		
2-3						0	0							0	0		0.1	0
3-4							0									0.2		
4-5	0	0	0	0	0	0		0.2	0.1		0.2	0.7	0.8	0	0	1.3	1.2	0
5-6				0			0	0.2	0	0.1		2.4		0	0.1	0.3	0.1	0
6-7	0	0	0		0	0.5							0.6	0				0
7-8				0		0	0.1	0	0.1	0.2		6.8	0.1		0	0.2	0.1	
8-9												11.1		0	0			
9-10	1160	339	6.4	0	0	0.1	0	0.4	0.1	0.2	0	1.1	6.7			0.2	0.1	
10-11									0.1			2.1		0.1	0	0.2	0.1	
11-12	1350	299	0	0	0	0		93			0.2		46					0.1
12-13			0.5						0.3	0.3		0.2	39	0.1	0	0.1	0	
13-14																		0
14-15	440	1065	0.1	0	0	0		18	0.8	0.1	0.1	0.2	8	0	0.1	0.2	0.1	
15-16		25																
16-17		50																

Notes:
shaded - sample submitted for laboratory analysis
black line - approximate depth of boring (typically Geoprobe refusal)
ft bgs - feet below ground surface

TABLE 3
Summary of Soil Sample Analytical Results
Pre-Design Investigation
Milwaukee Die Casting Company Site
4132 North Holton Street
Milwaukee, Wisconsin

Soil Boring No.	GP-01-2023	GP-01-2023	GP-02-2023	GP-03-2023	GP-04-2023	GP-05-2023	GP-06-2023	GP-07-2023	GP-08-2023	GP-09-2023	GP-10-2023
Sample Collection Date	2/14/23	2/14/23	2/14/23	2/14/23	2/15/23	2/15/23	2/15/23	2/15/23	2/14/23	2/14/23	2/14/23
Sample Depth (feet, bgs)	9-10	11-12	14-15	9-10	9-10	11-12	9.5-10	7-8	11-12	12-13	8-9
Detected VOCs (µg/kg)											
1,1-Dichloroethane	<601	<1,910	<30.9	<80.2	<15.1	<14.8	<15.2	<18.6	<17.8	<15.9	<15.1
1,1-Dichloroethene	<779	<2,470	<40.1	<104	<19.5	<19.1	<19.7	<24.2	<23.0	<20.7	<19.5
cis-1,2-Dichloroethene	6,560	31,800	15,100	1,300	73.3	21.7 J	20.3 J	<15.6	34.8 J	117	55.1 J
trans-1,2-Dichloroethene	<507	<1,610	172	466	<12.7	<12.5	<12.8	<15.7	<15.0	<13.4	<12.7
Ethylbenzene	<558	<1,770	<28.7	173 J	<14.0	<13.7	<14.1	<17.3	<16.5	<14.8	<14.0
Methylene Chloride	<652	<2,070	<33.5	<87.1	<16.3	<16.0	<16.5	<20.2	<19.3	<17.3	<16.4
Tetrachloroethene (PCE)	131,000	523,000	<46.8	322	23.4 J	<22.4	<23.1	<28.2	27.6 J	96.8	26.5 J
Toluene	<591	<1,880	<30.4	<78.9	21.2 J	<14.5	<15.0	<18.3	<17.5	<15.7	<14.8
Trichloroethene (TCE)	97,900	229,000	1,670	14,200	214	41.1 J	61.9	137	41.8 J	343	164
Vinyl chloride	<474	<1,500	59.8 J	<63.3	<11.9	<11.6	<12.0	<14.7	<14.0	<12.6	<11.9
m&p-Xylene	<990	<3,140	<50.9	895	<24.8	<24.3	<25.1	<30.7	<29.3	<26.3	<24.8
o-Xylene	<704	<2,230	<36.2	485	<17.6	<17.3	<17.8	<21.8	<20.8	<18.7	<17.7
Xylenes, Total	<1,694	<5,370	<87.1	1,380	<42.4	<41.6	<42.9	<52.5	<50.1	<45	<42.5
Geochemical Parameters											
Total Carbon (%)	--	5.24	5.36	--	--	--	--	--	6.06	--	--
Total Inorganic Carbon (%)	--	4.78	5.11	--	--	--	--	--	5.65	--	--
Total Organic Carbon (%)	--	0.462	0.249	--	--	--	--	--	0.406	--	--
Total Iron (µg/g)	--	12,000	11,000	--	--	--	--	--	12,000	--	--
Total Sulfur (µg/g)	--	5,700	5,500	--	--	--	--	--	4,900	--	--
Other Parameters											
Magnetic Susceptibility (m^3/kg)	--	5.48E-07	6.81E-07	--	--	--	--	--	6.04E-07	--	--
Mass of Magnetically Separable Material (mg/kg)	--	870	1,101	--	--	--	--	--	967	--	--

Soil Boring No.	GP-11-2023	GP-12-2023	GP-13-2023	GP-13-2023 DUP	GP-14-2023	GP-15-2023	GP-16-2023	GP-17-2023	GP-17-2023 DUP	GP-18-2023
Sample Collection Date	2/15/23	2/15/23	2/15/23	2/15/23	2/15/23	2/15/23	2/15/23	2/15/23	2/15/23	2/15/23
Sample Depth (feet, bgs)	11-12	8-9	11-12	11-12	11-12	11-12	8-9	9-10	9-10	11-12
Detected VOCs (µg/kg)										
1,1-Dichloroethane	33.4 J	<15.1	<118	<117	<15.3	<15.3	<14.8	<15.6	<15.4	<14.4
1,1-Dichloroethene	<20.8	26.9 J	<153	<152	<19.9	<19.8	<19.2	<20.2	<20.0	<18.7
cis-1,2-Dichloroethene	145	12,900	2,800	2,710	33.6 J	<12.8	15.9 J	29.8 J	21.7 J	357
trans-1,2-Dichloroethene	35.5 J	1,090	<99.6	<99.1	<12.9	<12.9	<12.5	<13.1	<13.0	<12.2
Ethylbenzene	<14.9	<14.1	<110	<109	<14.2	<14.2	<13.8	<14.5	<14.3	<13.4
Methylene Chloride	<17.4	<16.4	<128	<128	<16.6	<16.6	18.1 J	17.2 J	19.3 J	<15.6
Tetrachloroethene (PCE)	109	<22.9	<179	<178	<23.2	<23.2	<22.5	<23.6	<23.3	<21.8
Toluene	<15.8	<14.9	<116	<116	<15.1	<15.1	<14.6	<15.3	<15.2	<14.2
Trichloroethene (TCE)	1,060	33.5 J	29,600	30,900	80.5	<22.4	38.4 J	124 *J*	432 *J*	108
Vinyl chloride	54.8 J	862	<93.1	<92.7	<12.1	<12.1	<11.7	<12.3	<12.1	<11.4
m&p-Xylene	<26.4	<24.9	<195	<194	<25.3	<25.2	<24.5	<25.7	<25.4	<23.7
o-Xylene	<18.8	<17.7	<138	<138	<18.0	<17.9	<17.4	<18.3	<18.0	<16.9
Xylenes, Total	<45.2	<42.6	<333	<332	<43.3	<43.1	<41.9	<44	<43.4	<40.6
Geochemical Parameters										
Total Carbon (%)	--	5.02	5.59	--	--	5.65	--	--	--	--
Total Inorganic Carbon (%)	--	4.66	5.23	--	--	4.95	--	--	--	--
Total Organic Carbon (%)	--	0.364	0.363	--	--	0.704	--	--	--	--
Total Iron (µg/g)	--	12,000	16,000	--	--	13,000	--	--	--	--
Total Sulfur (µg/g)	--	4,600	4,600	--	--	4,400	--	--	--	--
Other Parameters										
Magnetic Susceptibility (m^3/kg)	--	4.66E-07	4.23E-07	--	--	4.66E-07	--	--	--	--
Mass of Magnetically Separable Material (mg/kg)	--	719	658	--	--	731	--	--	--	--

Notes:
italics - data validation qualifier (refer to data validation report)
-- - not analyzed
% - percent
bgs - below ground surface
J - estimated concentration at or above the limit of detection and below the limit of quantitation
VOCs - volatile organic compounds
m^3/kg - cubic meters per kilogram
mg/kg - milligram per kilogram
µg/g - micrograms per gram
ug/kg - micrograms per kilogram

TABLE 4
Summary of Groundwater Sample Analytical Results
Pre-Design Investigation
Milwaukee Die Casting Company Site
4132 North Holton Street
Milwaukee, Wisconsin

Well Identification	MW-1	PZ-1	MW-6		MW-7	NR 140 Groundwater Quality Standard	
Approximate Screen Interval (ft bgs)	5-15	31-36	8-18		5-15		
Sample Date	2/15/2023	2/15/2023	2/14/2023	2/14/2023	2/14/2023	PAL	ES
Analytical Parameters				DUP			
Detected VOCS (µg/L)							
1,1,1-Trichloroethane	< 15.1	< 3.0	7.3	7.2	5.6	40	200
1,1-Dichloroethane	< 14.8	< 3.0	15.4	15.0	6.1	85	850
1,1-Dichloroethene	<29.1	< 5.8	< 0.58	< 0.58	**1.9 J**	0.7	7
cis-1,2-Dichloroethene	**4130**	**699**	**56.2**	**55.3**	**528**	7	70
Tetrachloroethene	**3290**	**115**	< 0.41	< 0.41	**10.5**	0.5	5
trans-1,2-Dichloroethene	< 26.4	13.8	2.5	2.2	**29.5**	20	100
Trichloroethene	**3370**	**51.3**	**10.1**	**10**	**24.5**	0.5	5
Vinyl chloride	**339**	**110 *J***	**1.6**	**1.6**	**5.4**	0.02	0.2
Geochemical Parameters							
Ethane (µg/L)	21.4	< 0.39	< 0.39	< 0.39	< 0.39	--	--
Ethene (µg/L)	83.7	32.8 *J*	< 0.25	< 0.25	< 0.25	--	--
Methane (µg/L)	1260	40.0	187	234	0.99 J	--	--
Iron (µg/L)	1910	1010	1540	1600	58.8 J	--	--
Iron, Dissolved (µg/L)	363	1150	265	265	< 56.7	150	300
Sulfide (mg/L)	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	--	--
Nitrate (mg/L)	< 0.044	< 0.044 *UJ*	< 0.044	< 0.044	< 0.044	2	10
Sulfate (mg/L)	228	96.0	247	249	128	125	150
TOC (mg/L)	2.7	2.3	3.0	2.9	2.4	--	--
Miscrobial Species							
Gene-Trac® Dhc (e/L)	2E+06	< 3E+03	< 3E+03	< 3E+03	< 2E+03	--	--
Field Parameters[(1)]							
Temperature (deg C)	7.1	8.7	8.6	--	6.9	--	--
pH	7.22	7.29	7.13	--	7.29	--	--
Conductivity (mS/cm)	1.495	1.161	1.112	--	0.988	--	--
Dissolved Oxygen (mg/L)	0.02	0.04	0.32	--	0.74	--	--
ORP (mV)	55.6	-14.4	61.4	--	94.0	--	--
Ferrous Iron (ppm)	0.29	1.17	1.03	--	0.02	--	--

Notes:
bold - VOC concentration greater than NR 140 PAL
boxed - VOC concentration greater than NR 140 ES
italics - data validation qualifier (refer to data validation report)
(1) - stabilized field parameters obtained prior to sample collection
-- - not established
deg C - degrees Celsius
Dhc - Dehalococcoides
DUP - duplicate
e/L - enumeration per liter
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
mS/cm - millisiemens per centimeter
mV - millivolts
ORP - oxidation-reduction potential
PAL - NR 140 Preventive Action Limit
ppm - parts per million
TOC - total organic carbon
µg/L - micrograms per liter
VOCs - volatile organics compounds

ATTACHMENT 5

Soil Sample Laboratory Reports
Data Validation Reports

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

February 24, 2023

Jeremiah Johnson
GEOSYNTEC CONSULTANTS
10600 North Port Washington Rd
Suite 100
Thiensville, WI 53092

RE: Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Dear Jeremiah Johnson:

Enclosed are the analytical results for sample(s) received by the laboratory on February 17, 2023. 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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

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
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40258372001	**GP-01-2023 (9-10)**	Solid	02/14/23 10:10	02/17/23 07:35
40258372002	**GP-01-2023 (11-12)**	Solid	02/14/23 10:20	02/17/23 07:35
40258372003	**GP-02-2023 (14-15)**	Solid	02/14/23 11:20	02/17/23 07:35
40258372004	**GP-03-2023 (9-10)**	Solid	02/14/23 11:48	02/17/23 07:35
40258372005	**GP-04-2023 (9-10)**	Solid	02/15/23 13:20	02/17/23 07:35
40258372006	**GP-05-2023 (11-12)**	Solid	02/15/23 13:10	02/17/23 07:35
40258372007	**GP-06-2023 (9.5-10)**	Solid	02/15/23 13:05	02/17/23 07:35
40258372008	**GP-07-2023 (7-8)**	Solid	02/15/23 12:55	02/17/23 07:35
40258372009	**GP-08-2023 (11-12)**	Solid	02/14/23 14:40	02/17/23 07:35
40258372010	**GP-09-2023 (12-13)**	Solid	02/14/23 15:30	02/17/23 07:35
40258372011	**GP-10-2023 (8-9)**	Solid	02/14/23 15:45	02/17/23 07:35
40258372012	**GP-11-2023 (11-12)**	Solid	02/15/23 08:45	02/17/23 07:35
40258372013	**GP-12-2023 (8-9)**	Solid	02/15/23 09:15	02/17/23 07:35
40258372014	**GP-13-2023 (11-12)**	Solid	02/15/23 09:38	02/17/23 07:35
40258372015	**GP-13-2023 (11-12) DUP**	Solid	02/15/23 09:38	02/17/23 07:35
40258372016	**GP-14-2023 (11-12)**	Solid	02/15/23 10:10	02/17/23 07:35
40258372017	**GP-15-2023 (11-12)**	Solid	02/15/23 10:50	02/17/23 07:35
40258372018	**GP-16-2023 (8-9)**	Solid	02/15/23 11:25	02/17/23 07:35
40258372019	**GP-17-2023 (9-10)**	Solid	02/15/23 11:55	02/17/23 07:35
40258372020	**GP-17-2023 (9-10) DUP**	Solid	02/15/23 11:55	02/17/23 07:35
40258372021	**GP-18-2023 (11-12)**	Solid	02/15/23 12:35	02/17/23 07:35
40258372022	**MEOH BLANK**	Solid	02/15/23 00:00	02/17/23 07:35

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40258372001	**GP-01-2023 (9-10)**	EPA 8260	ALD	64
		ASTM D2974-87	NMK	1
40258372002	**GP-01-2023 (11-12)**	EPA 8260	ALD	64
		ASTM D2974-87	NMK	1
40258372003	**GP-02-2023 (14-15)**	EPA 8260	ALD	64
		ASTM D2974-87	NMK	1
40258372004	**GP-03-2023 (9-10)**	EPA 8260	ALD	64
		ASTM D2974-87	NMK	1
40258372005	**GP-04-2023 (9-10)**	EPA 8260	ALD	64
		ASTM D2974-87	MYH	1
40258372006	**GP-05-2023 (11-12)**	EPA 8260	ALD	64
		ASTM D2974-87	MYH	1
40258372007	**GP-06-2023 (9.5-10)**	EPA 8260	ALD	64
		ASTM D2974-87	MYH	1
40258372008	**GP-07-2023 (7-8)**	EPA 8260	ALD	64
		ASTM D2974-87	MYH	1
40258372009	**GP-08-2023 (11-12)**	EPA 8260	ALD	64
		ASTM D2974-87	MYH	1
40258372010	**GP-09-2023 (12-13)**	EPA 8260	ALD	64
		ASTM D2974-87	MYH	1
40258372011	**GP-10-2023 (8-9)**	EPA 8260	ALD	64
		ASTM D2974-87	MYH	1
40258372012	**GP-11-2023 (11-12)**	EPA 8260	ALD	64
		ASTM D2974-87	MYH	1
40258372013	**GP-12-2023 (8-9)**	EPA 8260	ALD	64
		ASTM D2974-87	MYH	1
40258372014	**GP-13-2023 (11-12)**	EPA 8260	ALD	64
		ASTM D2974-87	MYH	1
40258372015	**GP-13-2023 (11-12) DUP**	EPA 8260	ALD	64
		ASTM D2974-87	MYH	1
40258372016	**GP-14-2023 (11-12)**	EPA 8260	ALD	64
		ASTM D2974-87	MYH	1
40258372017	**GP-15-2023 (11-12)**	EPA 8260	ALD	64
		ASTM D2974-87	MYH	1
40258372018	**GP-16-2023 (8-9)**	EPA 8260	ALD	64
		ASTM D2974-87	MYH	1
40258372019	**GP-17-2023 (9-10)**	EPA 8260	ALD	64

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		ASTM D2974-87	MYH	1
40258372020	**GP-17-2023 (9-10) DUP**	EPA 8260	ALD	64
		ASTM D2974-87	MYH	1
40258372021	**GP-18-2023 (11-12)**	EPA 8260	ALD	64
		ASTM D2974-87	MYH	1
40258372022	**MEOH BLANK**	EPA 8260	ALD	64

PASI-G = Pace Analytical Services - Green Bay

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-01-2023 (9-10) **Lab ID: 40258372001** Collected: 02/14/23 10:10 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<563**	ug/kg	2350	563	40	02/20/23 08:15	02/20/23 18:30	630-20-6	
1,1,1-Trichloroethane	**<601**	ug/kg	2350	601	40	02/20/23 08:15	02/20/23 18:30	71-55-6	
1,1,2,2-Tetrachloroethane	**<849**	ug/kg	2350	849	40	02/20/23 08:15	02/20/23 18:30	79-34-5	
1,1,2-Trichloroethane	**<854**	ug/kg	2350	854	40	02/20/23 08:15	02/20/23 18:30	79-00-5	
1,1-Dichloroethane	**<601**	ug/kg	2350	601	40	02/20/23 08:15	02/20/23 18:30	75-34-3	
1,1-Dichloroethene	**<779**	ug/kg	2350	779	40	02/20/23 08:15	02/20/23 18:30	75-35-4	
1,1-Dichloropropene	**<760**	ug/kg	2350	760	40	02/20/23 08:15	02/20/23 18:30	563-58-6	
1,2,3-Trichlorobenzene	**<2610**	ug/kg	11700	2610	40	02/20/23 08:15	02/20/23 18:30	87-61-6	
1,2,3-Trichloropropane	**<1140**	ug/kg	2350	1140	40	02/20/23 08:15	02/20/23 18:30	96-18-4	
1,2,4-Trichlorobenzene	**<1930**	ug/kg	11700	1930	40	02/20/23 08:15	02/20/23 18:30	120-82-1	
1,2,4-Trimethylbenzene	**<699**	ug/kg	2350	699	40	02/20/23 08:15	02/20/23 18:30	95-63-6	
1,2-Dibromo-3-chloropropane	**<1820**	ug/kg	11700	1820	40	02/20/23 08:15	02/20/23 18:30	96-12-8	
1,2-Dibromoethane (EDB)	**<643**	ug/kg	2350	643	40	02/20/23 08:15	02/20/23 18:30	106-93-4	
1,2-Dichlorobenzene	**<727**	ug/kg	2350	727	40	02/20/23 08:15	02/20/23 18:30	95-50-1	
1,2-Dichloroethane	**<540**	ug/kg	2350	540	40	02/20/23 08:15	02/20/23 18:30	107-06-2	
1,2-Dichloropropane	**<558**	ug/kg	2350	558	40	02/20/23 08:15	02/20/23 18:30	78-87-5	
1,3,5-Trimethylbenzene	**<755**	ug/kg	2350	755	40	02/20/23 08:15	02/20/23 18:30	108-67-8	
1,3-Dichlorobenzene	**<643**	ug/kg	2350	643	40	02/20/23 08:15	02/20/23 18:30	541-73-1	
1,3-Dichloropropane	**<511**	ug/kg	2350	511	40	02/20/23 08:15	02/20/23 18:30	142-28-9	
1,4-Dichlorobenzene	**<643**	ug/kg	2350	643	40	02/20/23 08:15	02/20/23 18:30	106-46-7	
2,2-Dichloropropane	**<633**	ug/kg	2350	633	40	02/20/23 08:15	02/20/23 18:30	594-20-7	
2-Chlorotoluene	**<760**	ug/kg	2350	760	40	02/20/23 08:15	02/20/23 18:30	95-49-8	
4-Chlorotoluene	**<892**	ug/kg	2350	892	40	02/20/23 08:15	02/20/23 18:30	106-43-4	
Benzene	**<558**	ug/kg	938	558	40	02/20/23 08:15	02/20/23 18:30	71-43-2	
Bromobenzene	**<915**	ug/kg	2350	915	40	02/20/23 08:15	02/20/23 18:30	108-86-1	
Bromochloromethane	**<643**	ug/kg	2350	643	40	02/20/23 08:15	02/20/23 18:30	74-97-5	
Bromodichloromethane	**<558**	ug/kg	2350	558	40	02/20/23 08:15	02/20/23 18:30	75-27-4	
Bromoform	**<10300**	ug/kg	11700	10300	40	02/20/23 08:15	02/20/23 18:30	75-25-2	
Bromomethane	**<3290**	ug/kg	11700	3290	40	02/20/23 08:15	02/20/23 18:30	74-83-9	
Carbon tetrachloride	**<516**	ug/kg	2350	516	40	02/20/23 08:15	02/20/23 18:30	56-23-5	
Chlorobenzene	**<281**	ug/kg	2350	281	40	02/20/23 08:15	02/20/23 18:30	108-90-7	
Chloroethane	**<990**	ug/kg	11700	990	40	02/20/23 08:15	02/20/23 18:30	75-00-3	
Chloroform	**<1680**	ug/kg	11700	1680	40	02/20/23 08:15	02/20/23 18:30	67-66-3	
Chloromethane	**<892**	ug/kg	2350	892	40	02/20/23 08:15	02/20/23 18:30	74-87-3	
Dibromochloromethane	**<8020**	ug/kg	11700	8020	40	02/20/23 08:15	02/20/23 18:30	124-48-1	
Dibromomethane	**<694**	ug/kg	2350	694	40	02/20/23 08:15	02/20/23 18:30	74-95-3	
Dichlorodifluoromethane	**<1010**	ug/kg	2350	1010	40	02/20/23 08:15	02/20/23 18:30	75-71-8	
Diisopropyl ether	**<582**	ug/kg	2350	582	40	02/20/23 08:15	02/20/23 18:30	108-20-3	
Ethylbenzene	**<558**	ug/kg	2350	558	40	02/20/23 08:15	02/20/23 18:30	100-41-4	
Hexachloro-1,3-butadiene	**<4660**	ug/kg	11700	4660	40	02/20/23 08:15	02/20/23 18:30	87-68-3	
Isopropylbenzene (Cumene)	**<633**	ug/kg	2350	633	40	02/20/23 08:15	02/20/23 18:30	98-82-8	
Methyl-tert-butyl ether	**<690**	ug/kg	2350	690	40	02/20/23 08:15	02/20/23 18:30	1634-04-4	
Methylene Chloride	**<652**	ug/kg	2350	652	40	02/20/23 08:15	02/20/23 18:30	75-09-2	
Naphthalene	**<732**	ug/kg	11700	732	40	02/20/23 08:15	02/20/23 18:30	91-20-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-01-2023 (9-10) **Lab ID: 40258372001** Collected: 02/14/23 10:10 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Styrene	**<601**	ug/kg	2350	601	40	02/20/23 08:15	02/20/23 18:30	100-42-5	
Tetrachloroethene	**131000**	ug/kg	2350	910	40	02/20/23 08:15	02/20/23 18:30	127-18-4	
Toluene	**<591**	ug/kg	2350	591	40	02/20/23 08:15	02/20/23 18:30	108-88-3	
Trichloroethene	**97900**	ug/kg	2350	877	40	02/20/23 08:15	02/20/23 18:30	79-01-6	
Trichlorofluoromethane	**<680**	ug/kg	2350	680	40	02/20/23 08:15	02/20/23 18:30	75-69-4	
Vinyl chloride	**<474**	ug/kg	2350	474	40	02/20/23 08:15	02/20/23 18:30	75-01-4	L1
cis-1,2-Dichloroethene	**6560**	ug/kg	2350	502	40	02/20/23 08:15	02/20/23 18:30	156-59-2	
cis-1,3-Dichloropropene	**<1550**	ug/kg	11700	1550	40	02/20/23 08:15	02/20/23 18:30	10061-01-5	
m&p-Xylene	**<990**	ug/kg	4690	990	40	02/20/23 08:15	02/20/23 18:30	179601-23-1	
n-Butylbenzene	**<1070**	ug/kg	2350	1070	40	02/20/23 08:15	02/20/23 18:30	104-51-8	
n-Propylbenzene	**<563**	ug/kg	2350	563	40	02/20/23 08:15	02/20/23 18:30	103-65-1	
o-Xylene	**<704**	ug/kg	2350	704	40	02/20/23 08:15	02/20/23 18:30	95-47-6	
p-Isopropyltoluene	**<713**	ug/kg	2350	713	40	02/20/23 08:15	02/20/23 18:30	99-87-6	
sec-Butylbenzene	**<572**	ug/kg	2350	572	40	02/20/23 08:15	02/20/23 18:30	135-98-8	
tert-Butylbenzene	**<737**	ug/kg	2350	737	40	02/20/23 08:15	02/20/23 18:30	98-06-6	
trans-1,2-Dichloroethene	**<507**	ug/kg	2350	507	40	02/20/23 08:15	02/20/23 18:30	156-60-5	
trans-1,3-Dichloropropene	**<6710**	ug/kg	11700	6710	40	02/20/23 08:15	02/20/23 18:30	10061-02-6	
Surrogates									
Toluene-d8 (S)	111	%	69-153		40	02/20/23 08:15	02/20/23 18:30	2037-26-5	S4
4-Bromofluorobenzene (S)	152	%	68-156		40	02/20/23 08:15	02/20/23 18:30	460-00-4	S4
1,2-Dichlorobenzene-d4 (S)	170	%	71-161		40	02/20/23 08:15	02/20/23 18:30	2199-69-1	S4
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**8.0**	%	0.10	0.10	1		02/17/23 16:18		

Sample: GP-01-2023 (11-12) **Lab ID: 40258372002** Collected: 02/14/23 10:20 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<1790**	ug/kg	7450	1790	125	02/20/23 08:30	02/20/23 23:03	630-20-6	
1,1,1-Trichloroethane	**<1910**	ug/kg	7450	1910	125	02/20/23 08:30	02/20/23 23:03	71-55-6	
1,1,2,2-Tetrachloroethane	**<2700**	ug/kg	7450	2700	125	02/20/23 08:30	02/20/23 23:03	79-34-5	
1,1,2-Trichloroethane	**<2710**	ug/kg	7450	2710	125	02/20/23 08:30	02/20/23 23:03	79-00-5	
1,1-Dichloroethane	**<1910**	ug/kg	7450	1910	125	02/20/23 08:30	02/20/23 23:03	75-34-3	
1,1-Dichloroethene	**<2470**	ug/kg	7450	2470	125	02/20/23 08:30	02/20/23 23:03	75-35-4	
1,1-Dichloropropene	**<2410**	ug/kg	7450	2410	125	02/20/23 08:30	02/20/23 23:03	563-58-6	
1,2,3-Trichlorobenzene	**<8300**	ug/kg	37200	8300	125	02/20/23 08:30	02/20/23 23:03	87-61-6	
1,2,3-Trichloropropane	**<3620**	ug/kg	7450	3620	125	02/20/23 08:30	02/20/23 23:03	96-18-4	
1,2,4-Trichlorobenzene	**<6140**	ug/kg	37200	6140	125	02/20/23 08:30	02/20/23 23:03	120-82-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-01-2023 (11-12) **Lab ID: 40258372002** Collected: 02/14/23 10:20 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,2,4-Trimethylbenzene	**<2220**	ug/kg	7450	2220	125	02/20/23 08:30	02/20/23 23:03	95-63-6	
1,2-Dibromo-3-chloropropane	**<5780**	ug/kg	37200	5780	125	02/20/23 08:30	02/20/23 23:03	96-12-8	
1,2-Dibromoethane (EDB)	**<2040**	ug/kg	7450	2040	125	02/20/23 08:30	02/20/23 23:03	106-93-4	
1,2-Dichlorobenzene	**<2310**	ug/kg	7450	2310	125	02/20/23 08:30	02/20/23 23:03	95-50-1	
1,2-Dichloroethane	**<1710**	ug/kg	7450	1710	125	02/20/23 08:30	02/20/23 23:03	107-06-2	
1,2-Dichloropropane	**<1770**	ug/kg	7450	1770	125	02/20/23 08:30	02/20/23 23:03	78-87-5	
1,3,5-Trimethylbenzene	**<2400**	ug/kg	7450	2400	125	02/20/23 08:30	02/20/23 23:03	108-67-8	
1,3-Dichlorobenzene	**<2040**	ug/kg	7450	2040	125	02/20/23 08:30	02/20/23 23:03	541-73-1	
1,3-Dichloropropane	**<1620**	ug/kg	7450	1620	125	02/20/23 08:30	02/20/23 23:03	142-28-9	
1,4-Dichlorobenzene	**<2040**	ug/kg	7450	2040	125	02/20/23 08:30	02/20/23 23:03	106-46-7	
2,2-Dichloropropane	**<2010**	ug/kg	7450	2010	125	02/20/23 08:30	02/20/23 23:03	594-20-7	
2-Chlorotoluene	**<2410**	ug/kg	7450	2410	125	02/20/23 08:30	02/20/23 23:03	95-49-8	
4-Chlorotoluene	**<2830**	ug/kg	7450	2830	125	02/20/23 08:30	02/20/23 23:03	106-43-4	
Benzene	**<1770**	ug/kg	2980	1770	125	02/20/23 08:30	02/20/23 23:03	71-43-2	
Bromobenzene	**<2910**	ug/kg	7450	2910	125	02/20/23 08:30	02/20/23 23:03	108-86-1	
Bromochloromethane	**<2040**	ug/kg	7450	2040	125	02/20/23 08:30	02/20/23 23:03	74-97-5	
Bromodichloromethane	**<1770**	ug/kg	7450	1770	125	02/20/23 08:30	02/20/23 23:03	75-27-4	
Bromoform	**<32800**	ug/kg	37200	32800	125	02/20/23 08:30	02/20/23 23:03	75-25-2	
Bromomethane	**<10400**	ug/kg	37200	10400	125	02/20/23 08:30	02/20/23 23:03	74-83-9	
Carbon tetrachloride	**<1640**	ug/kg	7450	1640	125	02/20/23 08:30	02/20/23 23:03	56-23-5	
Chlorobenzene	**<892**	ug/kg	7450	892	125	02/20/23 08:30	02/20/23 23:03	108-90-7	
Chloroethane	**<3140**	ug/kg	37200	3140	125	02/20/23 08:30	02/20/23 23:03	75-00-3	
Chloroform	**<5330**	ug/kg	37200	5330	125	02/20/23 08:30	02/20/23 23:03	67-66-3	
Chloromethane	**<2830**	ug/kg	7450	2830	125	02/20/23 08:30	02/20/23 23:03	74-87-3	
Dibromochloromethane	**<25500**	ug/kg	37200	25500	125	02/20/23 08:30	02/20/23 23:03	124-48-1	
Dibromomethane	**<2200**	ug/kg	7450	2200	125	02/20/23 08:30	02/20/23 23:03	74-95-3	
Dichlorodifluoromethane	**<3200**	ug/kg	7450	3200	125	02/20/23 08:30	02/20/23 23:03	75-71-8	
Diisopropyl ether	**<1850**	ug/kg	7450	1850	125	02/20/23 08:30	02/20/23 23:03	108-20-3	
Ethylbenzene	**<1770**	ug/kg	7450	1770	125	02/20/23 08:30	02/20/23 23:03	100-41-4	
Hexachloro-1,3-butadiene	**<14800**	ug/kg	37200	14800	125	02/20/23 08:30	02/20/23 23:03	87-68-3	
Isopropylbenzene (Cumene)	**<2010**	ug/kg	7450	2010	125	02/20/23 08:30	02/20/23 23:03	98-82-8	
Methyl-tert-butyl ether	**<2190**	ug/kg	7450	2190	125	02/20/23 08:30	02/20/23 23:03	1634-04-4	
Methylene Chloride	**<2070**	ug/kg	7450	2070	125	02/20/23 08:30	02/20/23 23:03	75-09-2	
Naphthalene	**<2320**	ug/kg	37200	2320	125	02/20/23 08:30	02/20/23 23:03	91-20-3	
Styrene	**<1910**	ug/kg	7450	1910	125	02/20/23 08:30	02/20/23 23:03	100-42-5	
Tetrachloroethene	**523000**	ug/kg	7450	2890	125	02/20/23 08:30	02/20/23 23:03	127-18-4	
Toluene	**<1880**	ug/kg	7450	1880	125	02/20/23 08:30	02/20/23 23:03	108-88-3	
Trichloroethene	**229000**	ug/kg	7450	2790	125	02/20/23 08:30	02/20/23 23:03	79-01-6	
Trichlorofluoromethane	**<2160**	ug/kg	7450	2160	125	02/20/23 08:30	02/20/23 23:03	75-69-4	
Vinyl chloride	**<1500**	ug/kg	7450	1500	125	02/20/23 08:30	02/20/23 23:03	75-01-4	
cis-1,2-Dichloroethene	**31800**	ug/kg	7450	1590	125	02/20/23 08:30	02/20/23 23:03	156-59-2	
cis-1,3-Dichloropropene	**<4920**	ug/kg	37200	4920	125	02/20/23 08:30	02/20/23 23:03	10061-01-5	
m&p-Xylene	**<3140**	ug/kg	14900	3140	125	02/20/23 08:30	02/20/23 23:03	179601-23-1	
n-Butylbenzene	**<3410**	ug/kg	7450	3410	125	02/20/23 08:30	02/20/23 23:03	104-51-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-01-2023 (11-12) **Lab ID: 40258372002** Collected: 02/14/23 10:20 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
n-Propylbenzene	**<1790**	ug/kg	7450	1790	125	02/20/23 08:30	02/20/23 23:03	103-65-1	
o-Xylene	**<2230**	ug/kg	7450	2230	125	02/20/23 08:30	02/20/23 23:03	95-47-6	
p-Isopropyltoluene	**<2260**	ug/kg	7450	2260	125	02/20/23 08:30	02/20/23 23:03	99-87-6	
sec-Butylbenzene	**<1820**	ug/kg	7450	1820	125	02/20/23 08:30	02/20/23 23:03	135-98-8	
tert-Butylbenzene	**<2340**	ug/kg	7450	2340	125	02/20/23 08:30	02/20/23 23:03	98-06-6	
trans-1,2-Dichloroethene	**<1610**	ug/kg	7450	1610	125	02/20/23 08:30	02/20/23 23:03	156-60-5	
trans-1,3-Dichloropropene	**<21300**	ug/kg	37200	21300	125	02/20/23 08:30	02/20/23 23:03	10061-02-6	
Surrogates									
Toluene-d8 (S)	128	%	69-153		125	02/20/23 08:30	02/20/23 23:03	2037-26-5	S4
4-Bromofluorobenzene (S)	266	%	68-156		125	02/20/23 08:30	02/20/23 23:03	460-00-4	S4
1,2-Dichlorobenzene-d4 (S)	408	%	71-161		125	02/20/23 08:30	02/20/23 23:03	2199-69-1	S4
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**8.8**	%	0.10	0.10	1		02/17/23 16:18		

Sample: GP-02-2023 (14-15) **Lab ID: 40258372003** Collected: 02/14/23 11:20 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<29.0**	ug/kg	121	29.0	2	02/20/23 08:30	02/21/23 00:22	630-20-6	
1,1,1-Trichloroethane	**<30.9**	ug/kg	121	30.9	2	02/20/23 08:30	02/21/23 00:22	71-55-6	
1,1,2,2-Tetrachloroethane	**<43.7**	ug/kg	121	43.7	2	02/20/23 08:30	02/21/23 00:22	79-34-5	
1,1,2-Trichloroethane	**<43.9**	ug/kg	121	43.9	2	02/20/23 08:30	02/21/23 00:22	79-00-5	
1,1-Dichloroethane	**<30.9**	ug/kg	121	30.9	2	02/20/23 08:30	02/21/23 00:22	75-34-3	
1,1-Dichloroethene	**<40.1**	ug/kg	121	40.1	2	02/20/23 08:30	02/21/23 00:22	75-35-4	
1,1-Dichloropropene	**<39.1**	ug/kg	121	39.1	2	02/20/23 08:30	02/21/23 00:22	563-58-6	
1,2,3-Trichlorobenzene	**<134**	ug/kg	603	134	2	02/20/23 08:30	02/21/23 00:22	87-61-6	
1,2,3-Trichloropropane	**<58.6**	ug/kg	121	58.6	2	02/20/23 08:30	02/21/23 00:22	96-18-4	
1,2,4-Trichlorobenzene	**<99.4**	ug/kg	603	99.4	2	02/20/23 08:30	02/21/23 00:22	120-82-1	
1,2,4-Trimethylbenzene	**<36.0**	ug/kg	121	36.0	2	02/20/23 08:30	02/21/23 00:22	95-63-6	
1,2-Dibromo-3-chloropropane	**<93.6**	ug/kg	603	93.6	2	02/20/23 08:30	02/21/23 00:22	96-12-8	
1,2-Dibromoethane (EDB)	**<33.1**	ug/kg	121	33.1	2	02/20/23 08:30	02/21/23 00:22	106-93-4	
1,2-Dichlorobenzene	**<37.4**	ug/kg	121	37.4	2	02/20/23 08:30	02/21/23 00:22	95-50-1	
1,2-Dichloroethane	**<27.8**	ug/kg	121	27.8	2	02/20/23 08:30	02/21/23 00:22	107-06-2	
1,2-Dichloropropane	**<28.7**	ug/kg	121	28.7	2	02/20/23 08:30	02/21/23 00:22	78-87-5	
1,3,5-Trimethylbenzene	**<38.9**	ug/kg	121	38.9	2	02/20/23 08:30	02/21/23 00:22	108-67-8	
1,3-Dichlorobenzene	**<33.1**	ug/kg	121	33.1	2	02/20/23 08:30	02/21/23 00:22	541-73-1	
1,3-Dichloropropane	**<26.3**	ug/kg	121	26.3	2	02/20/23 08:30	02/21/23 00:22	142-28-9	
1,4-Dichlorobenzene	**<33.1**	ug/kg	121	33.1	2	02/20/23 08:30	02/21/23 00:22	106-46-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-02-2023 (14-15) **Lab ID: 40258372003** Collected: 02/14/23 11:20 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
2,2-Dichloropropane	**<32.6**	ug/kg	121	32.6	2	02/20/23 08:30	02/21/23 00:22	594-20-7	
2-Chlorotoluene	**<39.1**	ug/kg	121	39.1	2	02/20/23 08:30	02/21/23 00:22	95-49-8	
4-Chlorotoluene	**<45.8**	ug/kg	121	45.8	2	02/20/23 08:30	02/21/23 00:22	106-43-4	
Benzene	**<28.7**	ug/kg	48.3	28.7	2	02/20/23 08:30	02/21/23 00:22	71-43-2	
Bromobenzene	**<47.1**	ug/kg	121	47.1	2	02/20/23 08:30	02/21/23 00:22	108-86-1	
Bromochloromethane	**<33.1**	ug/kg	121	33.1	2	02/20/23 08:30	02/21/23 00:22	74-97-5	
Bromodichloromethane	**<28.7**	ug/kg	121	28.7	2	02/20/23 08:30	02/21/23 00:22	75-27-4	
Bromoform	**<531**	ug/kg	603	531	2	02/20/23 08:30	02/21/23 00:22	75-25-2	
Bromomethane	**<169**	ug/kg	603	169	2	02/20/23 08:30	02/21/23 00:22	74-83-9	
Carbon tetrachloride	**<26.5**	ug/kg	121	26.5	2	02/20/23 08:30	02/21/23 00:22	56-23-5	
Chlorobenzene	**<14.5**	ug/kg	121	14.5	2	02/20/23 08:30	02/21/23 00:22	108-90-7	
Chloroethane	**<50.9**	ug/kg	603	50.9	2	02/20/23 08:30	02/21/23 00:22	75-00-3	
Chloroform	**<86.4**	ug/kg	603	86.4	2	02/20/23 08:30	02/21/23 00:22	67-66-3	
Chloromethane	**<45.8**	ug/kg	121	45.8	2	02/20/23 08:30	02/21/23 00:22	74-87-3	
Dibromochloromethane	**<412**	ug/kg	603	412	2	02/20/23 08:30	02/21/23 00:22	124-48-1	
Dibromomethane	**<35.7**	ug/kg	121	35.7	2	02/20/23 08:30	02/21/23 00:22	74-95-3	
Dichlorodifluoromethane	**<51.9**	ug/kg	121	51.9	2	02/20/23 08:30	02/21/23 00:22	75-71-8	
Diisopropyl ether	**<29.9**	ug/kg	121	29.9	2	02/20/23 08:30	02/21/23 00:22	108-20-3	
Ethylbenzene	**<28.7**	ug/kg	121	28.7	2	02/20/23 08:30	02/21/23 00:22	100-41-4	
Hexachloro-1,3-butadiene	**<240**	ug/kg	603	240	2	02/20/23 08:30	02/21/23 00:22	87-68-3	
Isopropylbenzene (Cumene)	**<32.6**	ug/kg	121	32.6	2	02/20/23 08:30	02/21/23 00:22	98-82-8	
Methyl-tert-butyl ether	**<35.5**	ug/kg	121	35.5	2	02/20/23 08:30	02/21/23 00:22	1634-04-4	
Methylene Chloride	**<33.5**	ug/kg	121	33.5	2	02/20/23 08:30	02/21/23 00:22	75-09-2	
Naphthalene	**<37.6**	ug/kg	603	37.6	2	02/20/23 08:30	02/21/23 00:22	91-20-3	
Styrene	**<30.9**	ug/kg	121	30.9	2	02/20/23 08:30	02/21/23 00:22	100-42-5	
Tetrachloroethene	**<46.8**	ug/kg	121	46.8	2	02/20/23 08:30	02/21/23 00:22	127-18-4	
Toluene	**<30.4**	ug/kg	121	30.4	2	02/20/23 08:30	02/21/23 00:22	108-88-3	
Trichloroethene	**1670**	ug/kg	121	45.1	2	02/20/23 08:30	02/21/23 00:22	79-01-6	
Trichlorofluoromethane	**<35.0**	ug/kg	121	35.0	2	02/20/23 08:30	02/21/23 00:22	75-69-4	
Vinyl chloride	**59.8J**	ug/kg	121	24.4	2	02/20/23 08:30	02/21/23 00:22	75-01-4	
cis-1,2-Dichloroethene	**15100**	ug/kg	121	25.8	2	02/20/23 08:30	02/21/23 00:22	156-59-2	
cis-1,3-Dichloropropene	**<79.6**	ug/kg	603	79.6	2	02/20/23 08:30	02/21/23 00:22	10061-01-5	
m&p-Xylene	**<50.9**	ug/kg	241	50.9	2	02/20/23 08:30	02/21/23 00:22	179601-23-1	
n-Butylbenzene	**<55.3**	ug/kg	121	55.3	2	02/20/23 08:30	02/21/23 00:22	104-51-8	
n-Propylbenzene	**<29.0**	ug/kg	121	29.0	2	02/20/23 08:30	02/21/23 00:22	103-65-1	
o-Xylene	**<36.2**	ug/kg	121	36.2	2	02/20/23 08:30	02/21/23 00:22	95-47-6	
p-Isopropyltoluene	**<36.7**	ug/kg	121	36.7	2	02/20/23 08:30	02/21/23 00:22	99-87-6	
sec-Butylbenzene	**<29.4**	ug/kg	121	29.4	2	02/20/23 08:30	02/21/23 00:22	135-98-8	
tert-Butylbenzene	**<37.9**	ug/kg	121	37.9	2	02/20/23 08:30	02/21/23 00:22	98-06-6	
trans-1,2-Dichloroethene	**172**	ug/kg	121	26.1	2	02/20/23 08:30	02/21/23 00:22	156-60-5	
trans-1,3-Dichloropropene	**<345**	ug/kg	603	345	2	02/20/23 08:30	02/21/23 00:22	10061-02-6	
Surrogates									
Toluene-d8 (S)	108	%	69-153		2	02/20/23 08:30	02/21/23 00:22	2037-26-5	
4-Bromofluorobenzene (S)	120	%	68-156		2	02/20/23 08:30	02/21/23 00:22	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-02-2023 (14-15) **Lab ID: 40258372003** Collected: 02/14/23 11:20 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Surrogates									
1,2-Dichlorobenzene-d4 (S)	117	%	71-161		2	02/20/23 08:30	02/21/23 00:22	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**9.4**	%	0.10	0.10	1		02/17/23 16:18		

Sample: GP-03-2023 (9-10) **Lab ID: 40258372004** Collected: 02/14/23 11:48 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<75.2**	ug/kg	313	75.2	5	02/20/23 08:30	02/21/23 00:02	630-20-6	
1,1,1-Trichloroethane	**<80.2**	ug/kg	313	80.2	5	02/20/23 08:30	02/21/23 00:02	71-55-6	
1,1,2,2-Tetrachloroethane	**<113**	ug/kg	313	113	5	02/20/23 08:30	02/21/23 00:02	79-34-5	
1,1,2-Trichloroethane	**<114**	ug/kg	313	114	5	02/20/23 08:30	02/21/23 00:02	79-00-5	
1,1-Dichloroethane	**<80.2**	ug/kg	313	80.2	5	02/20/23 08:30	02/21/23 00:02	75-34-3	
1,1-Dichloroethene	**<104**	ug/kg	313	104	5	02/20/23 08:30	02/21/23 00:02	75-35-4	
1,1-Dichloropropene	**<101**	ug/kg	313	101	5	02/20/23 08:30	02/21/23 00:02	563-58-6	
1,2,3-Trichlorobenzene	**<349**	ug/kg	1570	349	5	02/20/23 08:30	02/21/23 00:02	87-61-6	
1,2,3-Trichloropropane	**<152**	ug/kg	313	152	5	02/20/23 08:30	02/21/23 00:02	96-18-4	
1,2,4-Trichlorobenzene	**<258**	ug/kg	1570	258	5	02/20/23 08:30	02/21/23 00:02	120-82-1	
1,2,4-Trimethylbenzene	**<93.3**	ug/kg	313	93.3	5	02/20/23 08:30	02/21/23 00:02	95-63-6	
1,2-Dibromo-3-chloropropane	**<243**	ug/kg	1570	243	5	02/20/23 08:30	02/21/23 00:02	96-12-8	
1,2-Dibromoethane (EDB)	**<85.8**	ug/kg	313	85.8	5	02/20/23 08:30	02/21/23 00:02	106-93-4	
1,2-Dichlorobenzene	**<97.1**	ug/kg	313	97.1	5	02/20/23 08:30	02/21/23 00:02	95-50-1	
1,2-Dichloroethane	**<72.0**	ug/kg	313	72.0	5	02/20/23 08:30	02/21/23 00:02	107-06-2	
1,2-Dichloropropane	**<74.5**	ug/kg	313	74.5	5	02/20/23 08:30	02/21/23 00:02	78-87-5	
1,3,5-Trimethylbenzene	**<101**	ug/kg	313	101	5	02/20/23 08:30	02/21/23 00:02	108-67-8	
1,3-Dichlorobenzene	**<85.8**	ug/kg	313	85.8	5	02/20/23 08:30	02/21/23 00:02	541-73-1	
1,3-Dichloropropane	**<68.3**	ug/kg	313	68.3	5	02/20/23 08:30	02/21/23 00:02	142-28-9	
1,4-Dichlorobenzene	**<85.8**	ug/kg	313	85.8	5	02/20/23 08:30	02/21/23 00:02	106-46-7	
2,2-Dichloropropane	**<84.6**	ug/kg	313	84.6	5	02/20/23 08:30	02/21/23 00:02	594-20-7	
2-Chlorotoluene	**<101**	ug/kg	313	101	5	02/20/23 08:30	02/21/23 00:02	95-49-8	
4-Chlorotoluene	**<119**	ug/kg	313	119	5	02/20/23 08:30	02/21/23 00:02	106-43-4	
Benzene	**<74.5**	ug/kg	125	74.5	5	02/20/23 08:30	02/21/23 00:02	71-43-2	
Bromobenzene	**<122**	ug/kg	313	122	5	02/20/23 08:30	02/21/23 00:02	108-86-1	
Bromochloromethane	**<85.8**	ug/kg	313	85.8	5	02/20/23 08:30	02/21/23 00:02	74-97-5	
Bromodichloromethane	**<74.5**	ug/kg	313	74.5	5	02/20/23 08:30	02/21/23 00:02	75-27-4	
Bromoform	**<1380**	ug/kg	1570	1380	5	02/20/23 08:30	02/21/23 00:02	75-25-2	
Bromomethane	**<439**	ug/kg	1570	439	5	02/20/23 08:30	02/21/23 00:02	74-83-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-03-2023 (9-10) **Lab ID: 40258372004** Collected: 02/14/23 11:48 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Carbon tetrachloride	**<68.9**	ug/kg	313	68.9	5	02/20/23 08:30	02/21/23 00:02	56-23-5	
Chlorobenzene	**<37.5**	ug/kg	313	37.5	5	02/20/23 08:30	02/21/23 00:02	108-90-7	
Chloroethane	**<132**	ug/kg	1570	132	5	02/20/23 08:30	02/21/23 00:02	75-00-3	
Chloroform	**<224**	ug/kg	1570	224	5	02/20/23 08:30	02/21/23 00:02	67-66-3	
Chloromethane	**<119**	ug/kg	313	119	5	02/20/23 08:30	02/21/23 00:02	74-87-3	
Dibromochloromethane	**<1070**	ug/kg	1570	1070	5	02/20/23 08:30	02/21/23 00:02	124-48-1	
Dibromomethane	**<92.7**	ug/kg	313	92.7	5	02/20/23 08:30	02/21/23 00:02	74-95-3	
Dichlorodifluoromethane	**<135**	ug/kg	313	135	5	02/20/23 08:30	02/21/23 00:02	75-71-8	
Diisopropyl ether	**<77.7**	ug/kg	313	77.7	5	02/20/23 08:30	02/21/23 00:02	108-20-3	
Ethylbenzene	**173J**	ug/kg	313	74.5	5	02/20/23 08:30	02/21/23 00:02	100-41-4	
Hexachloro-1,3-butadiene	**<623**	ug/kg	1570	623	5	02/20/23 08:30	02/21/23 00:02	87-68-3	
Isopropylbenzene (Cumene)	**<84.6**	ug/kg	313	84.6	5	02/20/23 08:30	02/21/23 00:02	98-82-8	
Methyl-tert-butyl ether	**<92.1**	ug/kg	313	92.1	5	02/20/23 08:30	02/21/23 00:02	1634-04-4	
Methylene Chloride	**<87.1**	ug/kg	313	87.1	5	02/20/23 08:30	02/21/23 00:02	75-09-2	
Naphthalene	**<97.7**	ug/kg	1570	97.7	5	02/20/23 08:30	02/21/23 00:02	91-20-3	
Styrene	**<80.2**	ug/kg	313	80.2	5	02/20/23 08:30	02/21/23 00:02	100-42-5	
Tetrachloroethene	**322**	ug/kg	313	122	5	02/20/23 08:30	02/21/23 00:02	127-18-4	
Toluene	**<78.9**	ug/kg	313	78.9	5	02/20/23 08:30	02/21/23 00:02	108-88-3	
Trichloroethene	**14200**	ug/kg	313	117	5	02/20/23 08:30	02/21/23 00:02	79-01-6	
Trichlorofluoromethane	**<90.8**	ug/kg	313	90.8	5	02/20/23 08:30	02/21/23 00:02	75-69-4	
Vinyl chloride	**<63.3**	ug/kg	313	63.3	5	02/20/23 08:30	02/21/23 00:02	75-01-4	
cis-1,2-Dichloroethene	**1300**	ug/kg	313	67.0	5	02/20/23 08:30	02/21/23 00:02	156-59-2	
cis-1,3-Dichloropropene	**<207**	ug/kg	1570	207	5	02/20/23 08:30	02/21/23 00:02	10061-01-5	
m&p-Xylene	**895**	ug/kg	626	132	5	02/20/23 08:30	02/21/23 00:02	179601-23-1	
n-Butylbenzene	**<143**	ug/kg	313	143	5	02/20/23 08:30	02/21/23 00:02	104-51-8	
n-Propylbenzene	**<75.2**	ug/kg	313	75.2	5	02/20/23 08:30	02/21/23 00:02	103-65-1	
o-Xylene	**485**	ug/kg	313	94.0	5	02/20/23 08:30	02/21/23 00:02	95-47-6	
p-Isopropyltoluene	**<95.2**	ug/kg	313	95.2	5	02/20/23 08:30	02/21/23 00:02	99-87-6	
sec-Butylbenzene	**<76.4**	ug/kg	313	76.4	5	02/20/23 08:30	02/21/23 00:02	135-98-8	
tert-Butylbenzene	**<98.3**	ug/kg	313	98.3	5	02/20/23 08:30	02/21/23 00:02	98-06-6	
trans-1,2-Dichloroethene	**466**	ug/kg	313	67.7	5	02/20/23 08:30	02/21/23 00:02	156-60-5	
trans-1,3-Dichloropropene	**<896**	ug/kg	1570	896	5	02/20/23 08:30	02/21/23 00:02	10061-02-6	
Surrogates									
Toluene-d8 (S)	112	%	69-153		5	02/20/23 08:30	02/21/23 00:02	2037-26-5	
4-Bromofluorobenzene (S)	126	%	68-156		5	02/20/23 08:30	02/21/23 00:02	460-00-4	
1,2-Dichlorobenzene-d4 (S)	123	%	71-161		5	02/20/23 08:30	02/21/23 00:02	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**11.2**	%	0.10	0.10	1		02/17/23 16:18		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-04-2023 (9-10) **Lab ID: 40258372005** Collected: 02/15/23 13:20 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<14.1**	ug/kg	58.8	14.1	1	02/20/23 08:30	02/20/23 18:28	630-20-6	
1,1,1-Trichloroethane	**<15.1**	ug/kg	58.8	15.1	1	02/20/23 08:30	02/20/23 18:28	71-55-6	
1,1,2,2-Tetrachloroethane	**<21.3**	ug/kg	58.8	21.3	1	02/20/23 08:30	02/20/23 18:28	79-34-5	
1,1,2-Trichloroethane	**<21.4**	ug/kg	58.8	21.4	1	02/20/23 08:30	02/20/23 18:28	79-00-5	
1,1-Dichloroethane	**<15.1**	ug/kg	58.8	15.1	1	02/20/23 08:30	02/20/23 18:28	75-34-3	
1,1-Dichloroethene	**<19.5**	ug/kg	58.8	19.5	1	02/20/23 08:30	02/20/23 18:28	75-35-4	
1,1-Dichloropropene	**<19.1**	ug/kg	58.8	19.1	1	02/20/23 08:30	02/20/23 18:28	563-58-6	
1,2,3-Trichlorobenzene	**<65.5**	ug/kg	294	65.5	1	02/20/23 08:30	02/20/23 18:28	87-61-6	
1,2,3-Trichloropropane	**<28.6**	ug/kg	58.8	28.6	1	02/20/23 08:30	02/20/23 18:28	96-18-4	
1,2,4-Trichlorobenzene	**<48.5**	ug/kg	294	48.5	1	02/20/23 08:30	02/20/23 18:28	120-82-1	
1,2,4-Trimethylbenzene	**<17.5**	ug/kg	58.8	17.5	1	02/20/23 08:30	02/20/23 18:28	95-63-6	
1,2-Dibromo-3-chloropropane	**<45.6**	ug/kg	294	45.6	1	02/20/23 08:30	02/20/23 18:28	96-12-8	
1,2-Dibromoethane (EDB)	**<16.1**	ug/kg	58.8	16.1	1	02/20/23 08:30	02/20/23 18:28	106-93-4	
1,2-Dichlorobenzene	**<18.2**	ug/kg	58.8	18.2	1	02/20/23 08:30	02/20/23 18:28	95-50-1	
1,2-Dichloroethane	**<13.5**	ug/kg	58.8	13.5	1	02/20/23 08:30	02/20/23 18:28	107-06-2	
1,2-Dichloropropane	**<14.0**	ug/kg	58.8	14.0	1	02/20/23 08:30	02/20/23 18:28	78-87-5	
1,3,5-Trimethylbenzene	**<18.9**	ug/kg	58.8	18.9	1	02/20/23 08:30	02/20/23 18:28	108-67-8	
1,3-Dichlorobenzene	**<16.1**	ug/kg	58.8	16.1	1	02/20/23 08:30	02/20/23 18:28	541-73-1	
1,3-Dichloropropane	**<12.8**	ug/kg	58.8	12.8	1	02/20/23 08:30	02/20/23 18:28	142-28-9	
1,4-Dichlorobenzene	**<16.1**	ug/kg	58.8	16.1	1	02/20/23 08:30	02/20/23 18:28	106-46-7	
2,2-Dichloropropane	**<15.9**	ug/kg	58.8	15.9	1	02/20/23 08:30	02/20/23 18:28	594-20-7	
2-Chlorotoluene	**<19.1**	ug/kg	58.8	19.1	1	02/20/23 08:30	02/20/23 18:28	95-49-8	
4-Chlorotoluene	**<22.3**	ug/kg	58.8	22.3	1	02/20/23 08:30	02/20/23 18:28	106-43-4	
Benzene	**<14.0**	ug/kg	23.5	14.0	1	02/20/23 08:30	02/20/23 18:28	71-43-2	
Bromobenzene	**<22.9**	ug/kg	58.8	22.9	1	02/20/23 08:30	02/20/23 18:28	108-86-1	
Bromochloromethane	**<16.1**	ug/kg	58.8	16.1	1	02/20/23 08:30	02/20/23 18:28	74-97-5	
Bromodichloromethane	**<14.0**	ug/kg	58.8	14.0	1	02/20/23 08:30	02/20/23 18:28	75-27-4	
Bromoform	**<259**	ug/kg	294	259	1	02/20/23 08:30	02/20/23 18:28	75-25-2	
Bromomethane	**<82.4**	ug/kg	294	82.4	1	02/20/23 08:30	02/20/23 18:28	74-83-9	
Carbon tetrachloride	**<12.9**	ug/kg	58.8	12.9	1	02/20/23 08:30	02/20/23 18:28	56-23-5	
Chlorobenzene	**<7.0**	ug/kg	58.8	7.0	1	02/20/23 08:30	02/20/23 18:28	108-90-7	
Chloroethane	**<24.8**	ug/kg	294	24.8	1	02/20/23 08:30	02/20/23 18:28	75-00-3	
Chloroform	**<42.1**	ug/kg	294	42.1	1	02/20/23 08:30	02/20/23 18:28	67-66-3	
Chloromethane	**<22.3**	ug/kg	58.8	22.3	1	02/20/23 08:30	02/20/23 18:28	74-87-3	
Dibromochloromethane	**<201**	ug/kg	294	201	1	02/20/23 08:30	02/20/23 18:28	124-48-1	
Dibromomethane	**<17.4**	ug/kg	58.8	17.4	1	02/20/23 08:30	02/20/23 18:28	74-95-3	
Dichlorodifluoromethane	**<25.3**	ug/kg	58.8	25.3	1	02/20/23 08:30	02/20/23 18:28	75-71-8	
Diisopropyl ether	**<14.6**	ug/kg	58.8	14.6	1	02/20/23 08:30	02/20/23 18:28	108-20-3	
Ethylbenzene	**<14.0**	ug/kg	58.8	14.0	1	02/20/23 08:30	02/20/23 18:28	100-41-4	
Hexachloro-1,3-butadiene	**<117**	ug/kg	294	117	1	02/20/23 08:30	02/20/23 18:28	87-68-3	
Isopropylbenzene (Cumene)	**<15.9**	ug/kg	58.8	15.9	1	02/20/23 08:30	02/20/23 18:28	98-82-8	
Methyl-tert-butyl ether	**<17.3**	ug/kg	58.8	17.3	1	02/20/23 08:30	02/20/23 18:28	1634-04-4	
Methylene Chloride	**<16.3**	ug/kg	58.8	16.3	1	02/20/23 08:30	02/20/23 18:28	75-09-2	
Naphthalene	**<18.3**	ug/kg	294	18.3	1	02/20/23 08:30	02/20/23 18:28	91-20-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-04-2023 (9-10) **Lab ID: 40258372005** Collected: 02/15/23 13:20 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Styrene	**<15.1**	ug/kg	58.8	15.1	1	02/20/23 08:30	02/20/23 18:28	100-42-5	
Tetrachloroethene	**23.4J**	ug/kg	58.8	22.8	1	02/20/23 08:30	02/20/23 18:28	127-18-4	
Toluene	**21.2J**	ug/kg	58.8	14.8	1	02/20/23 08:30	02/20/23 18:28	108-88-3	
Trichloroethene	**214**	ug/kg	58.8	22.0	1	02/20/23 08:30	02/20/23 18:28	79-01-6	
Trichlorofluoromethane	**<17.1**	ug/kg	58.8	17.1	1	02/20/23 08:30	02/20/23 18:28	75-69-4	
Vinyl chloride	**<11.9**	ug/kg	58.8	11.9	1	02/20/23 08:30	02/20/23 18:28	75-01-4	
cis-1,2-Dichloroethene	**73.3**	ug/kg	58.8	12.6	1	02/20/23 08:30	02/20/23 18:28	156-59-2	
cis-1,3-Dichloropropene	**<38.8**	ug/kg	294	38.8	1	02/20/23 08:30	02/20/23 18:28	10061-01-5	
m&p-Xylene	**<24.8**	ug/kg	118	24.8	1	02/20/23 08:30	02/20/23 18:28	179601-23-1	
n-Butylbenzene	**<26.9**	ug/kg	58.8	26.9	1	02/20/23 08:30	02/20/23 18:28	104-51-8	
n-Propylbenzene	**<14.1**	ug/kg	58.8	14.1	1	02/20/23 08:30	02/20/23 18:28	103-65-1	
o-Xylene	**<17.6**	ug/kg	58.8	17.6	1	02/20/23 08:30	02/20/23 18:28	95-47-6	
p-Isopropyltoluene	**<17.9**	ug/kg	58.8	17.9	1	02/20/23 08:30	02/20/23 18:28	99-87-6	
sec-Butylbenzene	**<14.3**	ug/kg	58.8	14.3	1	02/20/23 08:30	02/20/23 18:28	135-98-8	
tert-Butylbenzene	**<18.5**	ug/kg	58.8	18.5	1	02/20/23 08:30	02/20/23 18:28	98-06-6	
trans-1,2-Dichloroethene	**<12.7**	ug/kg	58.8	12.7	1	02/20/23 08:30	02/20/23 18:28	156-60-5	
trans-1,3-Dichloropropene	**<168**	ug/kg	294	168	1	02/20/23 08:30	02/20/23 18:28	10061-02-6	
Surrogates									
Toluene-d8 (S)	115	%	69-153		1	02/20/23 08:30	02/20/23 18:28	2037-26-5	
4-Bromofluorobenzene (S)	131	%	68-156		1	02/20/23 08:30	02/20/23 18:28	460-00-4	
1,2-Dichlorobenzene-d4 (S)	127	%	71-161		1	02/20/23 08:30	02/20/23 18:28	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**8.1**	%	0.10	0.10	1		02/22/23 09:38		

Sample: GP-05-2023 (11-12) **Lab ID: 40258372006** Collected: 02/15/23 13:10 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<13.8**	ug/kg	57.7	13.8	1	02/20/23 08:30	02/20/23 18:47	630-20-6	
1,1,1-Trichloroethane	**<14.8**	ug/kg	57.7	14.8	1	02/20/23 08:30	02/20/23 18:47	71-55-6	
1,1,2,2-Tetrachloroethane	**<20.9**	ug/kg	57.7	20.9	1	02/20/23 08:30	02/20/23 18:47	79-34-5	
1,1,2-Trichloroethane	**<21.0**	ug/kg	57.7	21.0	1	02/20/23 08:30	02/20/23 18:47	79-00-5	
1,1-Dichloroethane	**<14.8**	ug/kg	57.7	14.8	1	02/20/23 08:30	02/20/23 18:47	75-34-3	
1,1-Dichloroethene	**<19.1**	ug/kg	57.7	19.1	1	02/20/23 08:30	02/20/23 18:47	75-35-4	
1,1-Dichloropropene	**<18.7**	ug/kg	57.7	18.7	1	02/20/23 08:30	02/20/23 18:47	563-58-6	
1,2,3-Trichlorobenzene	**<64.2**	ug/kg	288	64.2	1	02/20/23 08:30	02/20/23 18:47	87-61-6	
1,2,3-Trichloropropane	**<28.0**	ug/kg	57.7	28.0	1	02/20/23 08:30	02/20/23 18:47	96-18-4	
1,2,4-Trichlorobenzene	**<47.5**	ug/kg	288	47.5	1	02/20/23 08:30	02/20/23 18:47	120-82-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-05-2023 (11-12) **Lab ID: 40258372006** Collected: 02/15/23 13:10 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,2,4-Trimethylbenzene	**<17.2**	ug/kg	57.7	17.2	1	02/20/23 08:30	02/20/23 18:47	95-63-6	
1,2-Dibromo-3-chloropropane	**<44.7**	ug/kg	288	44.7	1	02/20/23 08:30	02/20/23 18:47	96-12-8	
1,2-Dibromoethane (EDB)	**<15.8**	ug/kg	57.7	15.8	1	02/20/23 08:30	02/20/23 18:47	106-93-4	
1,2-Dichlorobenzene	**<17.9**	ug/kg	57.7	17.9	1	02/20/23 08:30	02/20/23 18:47	95-50-1	
1,2-Dichloroethane	**<13.3**	ug/kg	57.7	13.3	1	02/20/23 08:30	02/20/23 18:47	107-06-2	
1,2-Dichloropropane	**<13.7**	ug/kg	57.7	13.7	1	02/20/23 08:30	02/20/23 18:47	78-87-5	
1,3,5-Trimethylbenzene	**<18.6**	ug/kg	57.7	18.6	1	02/20/23 08:30	02/20/23 18:47	108-67-8	
1,3-Dichlorobenzene	**<15.8**	ug/kg	57.7	15.8	1	02/20/23 08:30	02/20/23 18:47	541-73-1	
1,3-Dichloropropane	**<12.6**	ug/kg	57.7	12.6	1	02/20/23 08:30	02/20/23 18:47	142-28-9	
1,4-Dichlorobenzene	**<15.8**	ug/kg	57.7	15.8	1	02/20/23 08:30	02/20/23 18:47	106-46-7	
2,2-Dichloropropane	**<15.6**	ug/kg	57.7	15.6	1	02/20/23 08:30	02/20/23 18:47	594-20-7	
2-Chlorotoluene	**<18.7**	ug/kg	57.7	18.7	1	02/20/23 08:30	02/20/23 18:47	95-49-8	
4-Chlorotoluene	**<21.9**	ug/kg	57.7	21.9	1	02/20/23 08:30	02/20/23 18:47	106-43-4	
Benzene	**<13.7**	ug/kg	23.1	13.7	1	02/20/23 08:30	02/20/23 18:47	71-43-2	
Bromobenzene	**<22.5**	ug/kg	57.7	22.5	1	02/20/23 08:30	02/20/23 18:47	108-86-1	
Bromochloromethane	**<15.8**	ug/kg	57.7	15.8	1	02/20/23 08:30	02/20/23 18:47	74-97-5	
Bromodichloromethane	**<13.7**	ug/kg	57.7	13.7	1	02/20/23 08:30	02/20/23 18:47	75-27-4	
Bromoform	**<254**	ug/kg	288	254	1	02/20/23 08:30	02/20/23 18:47	75-25-2	
Bromomethane	**<80.8**	ug/kg	288	80.8	1	02/20/23 08:30	02/20/23 18:47	74-83-9	
Carbon tetrachloride	**<12.7**	ug/kg	57.7	12.7	1	02/20/23 08:30	02/20/23 18:47	56-23-5	
Chlorobenzene	**<6.9**	ug/kg	57.7	6.9	1	02/20/23 08:30	02/20/23 18:47	108-90-7	
Chloroethane	**<24.3**	ug/kg	288	24.3	1	02/20/23 08:30	02/20/23 18:47	75-00-3	
Chloroform	**<41.3**	ug/kg	288	41.3	1	02/20/23 08:30	02/20/23 18:47	67-66-3	
Chloromethane	**<21.9**	ug/kg	57.7	21.9	1	02/20/23 08:30	02/20/23 18:47	74-87-3	
Dibromochloromethane	**<197**	ug/kg	288	197	1	02/20/23 08:30	02/20/23 18:47	124-48-1	
Dibromomethane	**<17.1**	ug/kg	57.7	17.1	1	02/20/23 08:30	02/20/23 18:47	74-95-3	
Dichlorodifluoromethane	**<24.8**	ug/kg	57.7	24.8	1	02/20/23 08:30	02/20/23 18:47	75-71-8	
Diisopropyl ether	**<14.3**	ug/kg	57.7	14.3	1	02/20/23 08:30	02/20/23 18:47	108-20-3	
Ethylbenzene	**<13.7**	ug/kg	57.7	13.7	1	02/20/23 08:30	02/20/23 18:47	100-41-4	
Hexachloro-1,3-butadiene	**<115**	ug/kg	288	115	1	02/20/23 08:30	02/20/23 18:47	87-68-3	
Isopropylbenzene (Cumene)	**<15.6**	ug/kg	57.7	15.6	1	02/20/23 08:30	02/20/23 18:47	98-82-8	
Methyl-tert-butyl ether	**<17.0**	ug/kg	57.7	17.0	1	02/20/23 08:30	02/20/23 18:47	1634-04-4	
Methylene Chloride	**<16.0**	ug/kg	57.7	16.0	1	02/20/23 08:30	02/20/23 18:47	75-09-2	
Naphthalene	**<18.0**	ug/kg	288	18.0	1	02/20/23 08:30	02/20/23 18:47	91-20-3	
Styrene	**<14.8**	ug/kg	57.7	14.8	1	02/20/23 08:30	02/20/23 18:47	100-42-5	
Tetrachloroethene	**<22.4**	ug/kg	57.7	22.4	1	02/20/23 08:30	02/20/23 18:47	127-18-4	
Toluene	**<14.5**	ug/kg	57.7	14.5	1	02/20/23 08:30	02/20/23 18:47	108-88-3	
Trichloroethene	**41.1J**	ug/kg	57.7	21.6	1	02/20/23 08:30	02/20/23 18:47	79-01-6	
Trichlorofluoromethane	**<16.7**	ug/kg	57.7	16.7	1	02/20/23 08:30	02/20/23 18:47	75-69-4	
Vinyl chloride	**<11.6**	ug/kg	57.7	11.6	1	02/20/23 08:30	02/20/23 18:47	75-01-4	
cis-1,2-Dichloroethene	**21.7J**	ug/kg	57.7	12.3	1	02/20/23 08:30	02/20/23 18:47	156-59-2	
cis-1,3-Dichloropropene	**<38.1**	ug/kg	288	38.1	1	02/20/23 08:30	02/20/23 18:47	10061-01-5	
m&p-Xylene	**<24.3**	ug/kg	115	24.3	1	02/20/23 08:30	02/20/23 18:47	179601-23-1	
n-Butylbenzene	**<26.4**	ug/kg	57.7	26.4	1	02/20/23 08:30	02/20/23 18:47	104-51-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-05-2023 (11-12) **Lab ID: 40258372006** Collected: 02/15/23 13:10 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
n-Propylbenzene	**<13.8**	ug/kg	57.7	13.8	1	02/20/23 08:30	02/20/23 18:47	103-65-1	
o-Xylene	**<17.3**	ug/kg	57.7	17.3	1	02/20/23 08:30	02/20/23 18:47	95-47-6	
p-Isopropyltoluene	**<17.5**	ug/kg	57.7	17.5	1	02/20/23 08:30	02/20/23 18:47	99-87-6	
sec-Butylbenzene	**<14.1**	ug/kg	57.7	14.1	1	02/20/23 08:30	02/20/23 18:47	135-98-8	
tert-Butylbenzene	**<18.1**	ug/kg	57.7	18.1	1	02/20/23 08:30	02/20/23 18:47	98-06-6	
trans-1,2-Dichloroethene	**<12.5**	ug/kg	57.7	12.5	1	02/20/23 08:30	02/20/23 18:47	156-60-5	
trans-1,3-Dichloropropene	**<165**	ug/kg	288	165	1	02/20/23 08:30	02/20/23 18:47	10061-02-6	
Surrogates									
Toluene-d8 (S)	109	%	69-153		1	02/20/23 08:30	02/20/23 18:47	2037-26-5	
4-Bromofluorobenzene (S)	123	%	68-156		1	02/20/23 08:30	02/20/23 18:47	460-00-4	
1,2-Dichlorobenzene-d4 (S)	119	%	71-161		1	02/20/23 08:30	02/20/23 18:47	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**7.1**	%	0.10	0.10	1		02/22/23 09:38		

Sample: GP-06-2023 (9.5-10) **Lab ID: 40258372007** Collected: 02/15/23 13:05 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<14.3**	ug/kg	59.4	14.3	1	02/20/23 08:30	02/20/23 19:07	630-20-6	
1,1,1-Trichloroethane	**<15.2**	ug/kg	59.4	15.2	1	02/20/23 08:30	02/20/23 19:07	71-55-6	
1,1,2,2-Tetrachloroethane	**<21.5**	ug/kg	59.4	21.5	1	02/20/23 08:30	02/20/23 19:07	79-34-5	
1,1,2-Trichloroethane	**<21.6**	ug/kg	59.4	21.6	1	02/20/23 08:30	02/20/23 19:07	79-00-5	
1,1-Dichloroethane	**<15.2**	ug/kg	59.4	15.2	1	02/20/23 08:30	02/20/23 19:07	75-34-3	
1,1-Dichloroethene	**<19.7**	ug/kg	59.4	19.7	1	02/20/23 08:30	02/20/23 19:07	75-35-4	
1,1-Dichloropropene	**<19.3**	ug/kg	59.4	19.3	1	02/20/23 08:30	02/20/23 19:07	563-58-6	
1,2,3-Trichlorobenzene	**<66.2**	ug/kg	297	66.2	1	02/20/23 08:30	02/20/23 19:07	87-61-6	
1,2,3-Trichloropropane	**<28.9**	ug/kg	59.4	28.9	1	02/20/23 08:30	02/20/23 19:07	96-18-4	
1,2,4-Trichlorobenzene	**<49.0**	ug/kg	297	49.0	1	02/20/23 08:30	02/20/23 19:07	120-82-1	
1,2,4-Trimethylbenzene	**<17.7**	ug/kg	59.4	17.7	1	02/20/23 08:30	02/20/23 19:07	95-63-6	
1,2-Dibromo-3-chloropropane	**<46.1**	ug/kg	297	46.1	1	02/20/23 08:30	02/20/23 19:07	96-12-8	
1,2-Dibromoethane (EDB)	**<16.3**	ug/kg	59.4	16.3	1	02/20/23 08:30	02/20/23 19:07	106-93-4	
1,2-Dichlorobenzene	**<18.4**	ug/kg	59.4	18.4	1	02/20/23 08:30	02/20/23 19:07	95-50-1	
1,2-Dichloroethane	**<13.7**	ug/kg	59.4	13.7	1	02/20/23 08:30	02/20/23 19:07	107-06-2	
1,2-Dichloropropane	**<14.1**	ug/kg	59.4	14.1	1	02/20/23 08:30	02/20/23 19:07	78-87-5	
1,3,5-Trimethylbenzene	**<19.1**	ug/kg	59.4	19.1	1	02/20/23 08:30	02/20/23 19:07	108-67-8	
1,3-Dichlorobenzene	**<16.3**	ug/kg	59.4	16.3	1	02/20/23 08:30	02/20/23 19:07	541-73-1	
1,3-Dichloropropane	**<13.0**	ug/kg	59.4	13.0	1	02/20/23 08:30	02/20/23 19:07	142-28-9	
1,4-Dichlorobenzene	**<16.3**	ug/kg	59.4	16.3	1	02/20/23 08:30	02/20/23 19:07	106-46-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-06-2023 (9.5-10) **Lab ID: 40258372007** Collected: 02/15/23 13:05 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
2,2-Dichloropropane	**<16.0**	ug/kg	59.4	16.0	1	02/20/23 08:30	02/20/23 19:07	594-20-7	
2-Chlorotoluene	**<19.3**	ug/kg	59.4	19.3	1	02/20/23 08:30	02/20/23 19:07	95-49-8	
4-Chlorotoluene	**<22.6**	ug/kg	59.4	22.6	1	02/20/23 08:30	02/20/23 19:07	106-43-4	
Benzene	**<14.1**	ug/kg	23.8	14.1	1	02/20/23 08:30	02/20/23 19:07	71-43-2	
Bromobenzene	**<23.2**	ug/kg	59.4	23.2	1	02/20/23 08:30	02/20/23 19:07	108-86-1	
Bromochloromethane	**<16.3**	ug/kg	59.4	16.3	1	02/20/23 08:30	02/20/23 19:07	74-97-5	
Bromodichloromethane	**<14.1**	ug/kg	59.4	14.1	1	02/20/23 08:30	02/20/23 19:07	75-27-4	
Bromoform	**<262**	ug/kg	297	262	1	02/20/23 08:30	02/20/23 19:07	75-25-2	
Bromomethane	**<83.3**	ug/kg	297	83.3	1	02/20/23 08:30	02/20/23 19:07	74-83-9	
Carbon tetrachloride	**<13.1**	ug/kg	59.4	13.1	1	02/20/23 08:30	02/20/23 19:07	56-23-5	
Chlorobenzene	**<7.1**	ug/kg	59.4	7.1	1	02/20/23 08:30	02/20/23 19:07	108-90-7	
Chloroethane	**<25.1**	ug/kg	297	25.1	1	02/20/23 08:30	02/20/23 19:07	75-00-3	
Chloroform	**<42.6**	ug/kg	297	42.6	1	02/20/23 08:30	02/20/23 19:07	67-66-3	
Chloromethane	**<22.6**	ug/kg	59.4	22.6	1	02/20/23 08:30	02/20/23 19:07	74-87-3	
Dibromochloromethane	**<203**	ug/kg	297	203	1	02/20/23 08:30	02/20/23 19:07	124-48-1	
Dibromomethane	**<17.6**	ug/kg	59.4	17.6	1	02/20/23 08:30	02/20/23 19:07	74-95-3	
Dichlorodifluoromethane	**<25.6**	ug/kg	59.4	25.6	1	02/20/23 08:30	02/20/23 19:07	75-71-8	
Diisopropyl ether	**<14.7**	ug/kg	59.4	14.7	1	02/20/23 08:30	02/20/23 19:07	108-20-3	
Ethylbenzene	**<14.1**	ug/kg	59.4	14.1	1	02/20/23 08:30	02/20/23 19:07	100-41-4	
Hexachloro-1,3-butadiene	**<118**	ug/kg	297	118	1	02/20/23 08:30	02/20/23 19:07	87-68-3	
Isopropylbenzene (Cumene)	**<16.0**	ug/kg	59.4	16.0	1	02/20/23 08:30	02/20/23 19:07	98-82-8	
Methyl-tert-butyl ether	**<17.5**	ug/kg	59.4	17.5	1	02/20/23 08:30	02/20/23 19:07	1634-04-4	
Methylene Chloride	**<16.5**	ug/kg	59.4	16.5	1	02/20/23 08:30	02/20/23 19:07	75-09-2	
Naphthalene	**<18.5**	ug/kg	297	18.5	1	02/20/23 08:30	02/20/23 19:07	91-20-3	
Styrene	**<15.2**	ug/kg	59.4	15.2	1	02/20/23 08:30	02/20/23 19:07	100-42-5	
Tetrachloroethene	**<23.1**	ug/kg	59.4	23.1	1	02/20/23 08:30	02/20/23 19:07	127-18-4	
Toluene	**<15.0**	ug/kg	59.4	15.0	1	02/20/23 08:30	02/20/23 19:07	108-88-3	
Trichloroethene	**61.9**	ug/kg	59.4	22.2	1	02/20/23 08:30	02/20/23 19:07	79-01-6	
Trichlorofluoromethane	**<17.2**	ug/kg	59.4	17.2	1	02/20/23 08:30	02/20/23 19:07	75-69-4	
Vinyl chloride	**<12.0**	ug/kg	59.4	12.0	1	02/20/23 08:30	02/20/23 19:07	75-01-4	
cis-1,2-Dichloroethene	**20.3J**	ug/kg	59.4	12.7	1	02/20/23 08:30	02/20/23 19:07	156-59-2	
cis-1,3-Dichloropropene	**<39.2**	ug/kg	297	39.2	1	02/20/23 08:30	02/20/23 19:07	10061-01-5	
m&p-Xylene	**<25.1**	ug/kg	119	25.1	1	02/20/23 08:30	02/20/23 19:07	179601-23-1	
n-Butylbenzene	**<27.2**	ug/kg	59.4	27.2	1	02/20/23 08:30	02/20/23 19:07	104-51-8	
n-Propylbenzene	**<14.3**	ug/kg	59.4	14.3	1	02/20/23 08:30	02/20/23 19:07	103-65-1	
o-Xylene	**<17.8**	ug/kg	59.4	17.8	1	02/20/23 08:30	02/20/23 19:07	95-47-6	
p-Isopropyltoluene	**<18.1**	ug/kg	59.4	18.1	1	02/20/23 08:30	02/20/23 19:07	99-87-6	
sec-Butylbenzene	**<14.5**	ug/kg	59.4	14.5	1	02/20/23 08:30	02/20/23 19:07	135-98-8	
tert-Butylbenzene	**<18.7**	ug/kg	59.4	18.7	1	02/20/23 08:30	02/20/23 19:07	98-06-6	
trans-1,2-Dichloroethene	**<12.8**	ug/kg	59.4	12.8	1	02/20/23 08:30	02/20/23 19:07	156-60-5	
trans-1,3-Dichloropropene	**<170**	ug/kg	297	170	1	02/20/23 08:30	02/20/23 19:07	10061-02-6	
Surrogates									
Toluene-d8 (S)	114	%	69-153		1	02/20/23 08:30	02/20/23 19:07	2037-26-5	
4-Bromofluorobenzene (S)	126	%	68-156		1	02/20/23 08:30	02/20/23 19:07	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-06-2023 (9.5-10) **Lab ID: 40258372007** Collected: 02/15/23 13:05 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Surrogates									
1,2-Dichlorobenzene-d4 (S)	127	%	71-161		1	02/20/23 08:30	02/20/23 19:07	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**8.6**	%	0.10	0.10	1		02/22/23 09:38		

Sample: GP-07-2023 (7-8) **Lab ID: 40258372008** Collected: 02/15/23 12:55 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<17.5**	ug/kg	72.8	17.5	1	02/20/23 08:30	02/20/23 19:27	630-20-6	
1,1,1-Trichloroethane	**<18.6**	ug/kg	72.8	18.6	1	02/20/23 08:30	02/20/23 19:27	71-55-6	
1,1,2,2-Tetrachloroethane	**<26.3**	ug/kg	72.8	26.3	1	02/20/23 08:30	02/20/23 19:27	79-34-5	
1,1,2-Trichloroethane	**<26.5**	ug/kg	72.8	26.5	1	02/20/23 08:30	02/20/23 19:27	79-00-5	
1,1-Dichloroethane	**<18.6**	ug/kg	72.8	18.6	1	02/20/23 08:30	02/20/23 19:27	75-34-3	
1,1-Dichloroethene	**<24.2**	ug/kg	72.8	24.2	1	02/20/23 08:30	02/20/23 19:27	75-35-4	
1,1-Dichloropropene	**<23.6**	ug/kg	72.8	23.6	1	02/20/23 08:30	02/20/23 19:27	563-58-6	
1,2,3-Trichlorobenzene	**<81.1**	ug/kg	364	81.1	1	02/20/23 08:30	02/20/23 19:27	87-61-6	
1,2,3-Trichloropropane	**<35.4**	ug/kg	72.8	35.4	1	02/20/23 08:30	02/20/23 19:27	96-18-4	
1,2,4-Trichlorobenzene	**<60.0**	ug/kg	364	60.0	1	02/20/23 08:30	02/20/23 19:27	120-82-1	
1,2,4-Trimethylbenzene	**<21.7**	ug/kg	72.8	21.7	1	02/20/23 08:30	02/20/23 19:27	95-63-6	
1,2-Dibromo-3-chloropropane	**<56.5**	ug/kg	364	56.5	1	02/20/23 08:30	02/20/23 19:27	96-12-8	
1,2-Dibromoethane (EDB)	**<19.9**	ug/kg	72.8	19.9	1	02/20/23 08:30	02/20/23 19:27	106-93-4	
1,2-Dichlorobenzene	**<22.6**	ug/kg	72.8	22.6	1	02/20/23 08:30	02/20/23 19:27	95-50-1	
1,2-Dichloroethane	**<16.7**	ug/kg	72.8	16.7	1	02/20/23 08:30	02/20/23 19:27	107-06-2	
1,2-Dichloropropane	**<17.3**	ug/kg	72.8	17.3	1	02/20/23 08:30	02/20/23 19:27	78-87-5	
1,3,5-Trimethylbenzene	**<23.4**	ug/kg	72.8	23.4	1	02/20/23 08:30	02/20/23 19:27	108-67-8	
1,3-Dichlorobenzene	**<19.9**	ug/kg	72.8	19.9	1	02/20/23 08:30	02/20/23 19:27	541-73-1	
1,3-Dichloropropane	**<15.9**	ug/kg	72.8	15.9	1	02/20/23 08:30	02/20/23 19:27	142-28-9	
1,4-Dichlorobenzene	**<19.9**	ug/kg	72.8	19.9	1	02/20/23 08:30	02/20/23 19:27	106-46-7	
2,2-Dichloropropane	**<19.7**	ug/kg	72.8	19.7	1	02/20/23 08:30	02/20/23 19:27	594-20-7	
2-Chlorotoluene	**<23.6**	ug/kg	72.8	23.6	1	02/20/23 08:30	02/20/23 19:27	95-49-8	
4-Chlorotoluene	**<27.7**	ug/kg	72.8	27.7	1	02/20/23 08:30	02/20/23 19:27	106-43-4	
Benzene	**<17.3**	ug/kg	29.1	17.3	1	02/20/23 08:30	02/20/23 19:27	71-43-2	
Bromobenzene	**<28.4**	ug/kg	72.8	28.4	1	02/20/23 08:30	02/20/23 19:27	108-86-1	
Bromochloromethane	**<19.9**	ug/kg	72.8	19.9	1	02/20/23 08:30	02/20/23 19:27	74-97-5	
Bromodichloromethane	**<17.3**	ug/kg	72.8	17.3	1	02/20/23 08:30	02/20/23 19:27	75-27-4	
Bromoform	**<320**	ug/kg	364	320	1	02/20/23 08:30	02/20/23 19:27	75-25-2	
Bromomethane	**<102**	ug/kg	364	102	1	02/20/23 08:30	02/20/23 19:27	74-83-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-07-2023 (7-8) **Lab ID: 40258372008** Collected: 02/15/23 12:55 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Carbon tetrachloride	**<16.0**	ug/kg	72.8	16.0	1	02/20/23 08:30	02/20/23 19:27	56-23-5	
Chlorobenzene	**<8.7**	ug/kg	72.8	8.7	1	02/20/23 08:30	02/20/23 19:27	108-90-7	
Chloroethane	**<30.7**	ug/kg	364	30.7	1	02/20/23 08:30	02/20/23 19:27	75-00-3	
Chloroform	**<52.1**	ug/kg	364	52.1	1	02/20/23 08:30	02/20/23 19:27	67-66-3	
Chloromethane	**<27.7**	ug/kg	72.8	27.7	1	02/20/23 08:30	02/20/23 19:27	74-87-3	
Dibromochloromethane	**<249**	ug/kg	364	249	1	02/20/23 08:30	02/20/23 19:27	124-48-1	
Dibromomethane	**<21.5**	ug/kg	72.8	21.5	1	02/20/23 08:30	02/20/23 19:27	74-95-3	
Dichlorodifluoromethane	**<31.3**	ug/kg	72.8	31.3	1	02/20/23 08:30	02/20/23 19:27	75-71-8	
Diisopropyl ether	**<18.0**	ug/kg	72.8	18.0	1	02/20/23 08:30	02/20/23 19:27	108-20-3	
Ethylbenzene	**<17.3**	ug/kg	72.8	17.3	1	02/20/23 08:30	02/20/23 19:27	100-41-4	
Hexachloro-1,3-butadiene	**<145**	ug/kg	364	145	1	02/20/23 08:30	02/20/23 19:27	87-68-3	
Isopropylbenzene (Cumene)	**<19.7**	ug/kg	72.8	19.7	1	02/20/23 08:30	02/20/23 19:27	98-82-8	
Methyl-tert-butyl ether	**<21.4**	ug/kg	72.8	21.4	1	02/20/23 08:30	02/20/23 19:27	1634-04-4	
Methylene Chloride	**<20.2**	ug/kg	72.8	20.2	1	02/20/23 08:30	02/20/23 19:27	75-09-2	
Naphthalene	**<22.7**	ug/kg	364	22.7	1	02/20/23 08:30	02/20/23 19:27	91-20-3	
Styrene	**<18.6**	ug/kg	72.8	18.6	1	02/20/23 08:30	02/20/23 19:27	100-42-5	
Tetrachloroethene	**<28.2**	ug/kg	72.8	28.2	1	02/20/23 08:30	02/20/23 19:27	127-18-4	
Toluene	**<18.3**	ug/kg	72.8	18.3	1	02/20/23 08:30	02/20/23 19:27	108-88-3	
Trichloroethene	**137**	ug/kg	72.8	27.2	1	02/20/23 08:30	02/20/23 19:27	79-01-6	
Trichlorofluoromethane	**<21.1**	ug/kg	72.8	21.1	1	02/20/23 08:30	02/20/23 19:27	75-69-4	
Vinyl chloride	**<14.7**	ug/kg	72.8	14.7	1	02/20/23 08:30	02/20/23 19:27	75-01-4	
cis-1,2-Dichloroethene	**<15.6**	ug/kg	72.8	15.6	1	02/20/23 08:30	02/20/23 19:27	156-59-2	
cis-1,3-Dichloropropene	**<48.0**	ug/kg	364	48.0	1	02/20/23 08:30	02/20/23 19:27	10061-01-5	
m&p-Xylene	**<30.7**	ug/kg	146	30.7	1	02/20/23 08:30	02/20/23 19:27	179601-23-1	
n-Butylbenzene	**<33.3**	ug/kg	72.8	33.3	1	02/20/23 08:30	02/20/23 19:27	104-51-8	
n-Propylbenzene	**<17.5**	ug/kg	72.8	17.5	1	02/20/23 08:30	02/20/23 19:27	103-65-1	
o-Xylene	**<21.8**	ug/kg	72.8	21.8	1	02/20/23 08:30	02/20/23 19:27	95-47-6	
p-Isopropyltoluene	**<22.1**	ug/kg	72.8	22.1	1	02/20/23 08:30	02/20/23 19:27	99-87-6	
sec-Butylbenzene	**<17.8**	ug/kg	72.8	17.8	1	02/20/23 08:30	02/20/23 19:27	135-98-8	
tert-Butylbenzene	**<22.9**	ug/kg	72.8	22.9	1	02/20/23 08:30	02/20/23 19:27	98-06-6	
trans-1,2-Dichloroethene	**<15.7**	ug/kg	72.8	15.7	1	02/20/23 08:30	02/20/23 19:27	156-60-5	
trans-1,3-Dichloropropene	**<208**	ug/kg	364	208	1	02/20/23 08:30	02/20/23 19:27	10061-02-6	
Surrogates									
Toluene-d8 (S)	122	%	69-153		1	02/20/23 08:30	02/20/23 19:27	2037-26-5	
4-Bromofluorobenzene (S)	138	%	68-156		1	02/20/23 08:30	02/20/23 19:27	460-00-4	
1,2-Dichlorobenzene-d4 (S)	137	%	71-161		1	02/20/23 08:30	02/20/23 19:27	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**18.6**	%	0.10	0.10	1		02/22/23 09:38		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-08-2023 (11-12) **Lab ID: 40258372009** Collected: 02/14/23 14:40 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<16.6**	ug/kg	69.4	16.6	1	02/20/23 08:30	02/20/23 19:46	630-20-6	
1,1,1-Trichloroethane	**<17.8**	ug/kg	69.4	17.8	1	02/20/23 08:30	02/20/23 19:46	71-55-6	
1,1,2,2-Tetrachloroethane	**<25.1**	ug/kg	69.4	25.1	1	02/20/23 08:30	02/20/23 19:46	79-34-5	
1,1,2-Trichloroethane	**<25.2**	ug/kg	69.4	25.2	1	02/20/23 08:30	02/20/23 19:46	79-00-5	
1,1-Dichloroethane	**<17.8**	ug/kg	69.4	17.8	1	02/20/23 08:30	02/20/23 19:46	75-34-3	
1,1-Dichloroethene	**<23.0**	ug/kg	69.4	23.0	1	02/20/23 08:30	02/20/23 19:46	75-35-4	
1,1-Dichloropropene	**<22.5**	ug/kg	69.4	22.5	1	02/20/23 08:30	02/20/23 19:46	563-58-6	
1,2,3-Trichlorobenzene	**<77.3**	ug/kg	347	77.3	1	02/20/23 08:30	02/20/23 19:46	87-61-6	
1,2,3-Trichloropropane	**<33.7**	ug/kg	69.4	33.7	1	02/20/23 08:30	02/20/23 19:46	96-18-4	
1,2,4-Trichlorobenzene	**<57.1**	ug/kg	347	57.1	1	02/20/23 08:30	02/20/23 19:46	120-82-1	
1,2,4-Trimethylbenzene	**<20.7**	ug/kg	69.4	20.7	1	02/20/23 08:30	02/20/23 19:46	95-63-6	
1,2-Dibromo-3-chloropropane	**<53.8**	ug/kg	347	53.8	1	02/20/23 08:30	02/20/23 19:46	96-12-8	
1,2-Dibromoethane (EDB)	**<19.0**	ug/kg	69.4	19.0	1	02/20/23 08:30	02/20/23 19:46	106-93-4	
1,2-Dichlorobenzene	**<21.5**	ug/kg	69.4	21.5	1	02/20/23 08:30	02/20/23 19:46	95-50-1	
1,2-Dichloroethane	**<16.0**	ug/kg	69.4	16.0	1	02/20/23 08:30	02/20/23 19:46	107-06-2	
1,2-Dichloropropane	**<16.5**	ug/kg	69.4	16.5	1	02/20/23 08:30	02/20/23 19:46	78-87-5	
1,3,5-Trimethylbenzene	**<22.3**	ug/kg	69.4	22.3	1	02/20/23 08:30	02/20/23 19:46	108-67-8	
1,3-Dichlorobenzene	**<19.0**	ug/kg	69.4	19.0	1	02/20/23 08:30	02/20/23 19:46	541-73-1	
1,3-Dichloropropane	**<15.1**	ug/kg	69.4	15.1	1	02/20/23 08:30	02/20/23 19:46	142-28-9	
1,4-Dichlorobenzene	**<19.0**	ug/kg	69.4	19.0	1	02/20/23 08:30	02/20/23 19:46	106-46-7	
2,2-Dichloropropane	**<18.7**	ug/kg	69.4	18.7	1	02/20/23 08:30	02/20/23 19:46	594-20-7	
2-Chlorotoluene	**<22.5**	ug/kg	69.4	22.5	1	02/20/23 08:30	02/20/23 19:46	95-49-8	
4-Chlorotoluene	**<26.4**	ug/kg	69.4	26.4	1	02/20/23 08:30	02/20/23 19:46	106-43-4	
Benzene	**<16.5**	ug/kg	27.7	16.5	1	02/20/23 08:30	02/20/23 19:46	71-43-2	
Bromobenzene	**<27.0**	ug/kg	69.4	27.0	1	02/20/23 08:30	02/20/23 19:46	108-86-1	
Bromochloromethane	**<19.0**	ug/kg	69.4	19.0	1	02/20/23 08:30	02/20/23 19:46	74-97-5	
Bromodichloromethane	**<16.5**	ug/kg	69.4	16.5	1	02/20/23 08:30	02/20/23 19:46	75-27-4	
Bromoform	**<305**	ug/kg	347	305	1	02/20/23 08:30	02/20/23 19:46	75-25-2	
Bromomethane	**<97.2**	ug/kg	347	97.2	1	02/20/23 08:30	02/20/23 19:46	74-83-9	
Carbon tetrachloride	**<15.3**	ug/kg	69.4	15.3	1	02/20/23 08:30	02/20/23 19:46	56-23-5	
Chlorobenzene	**<8.3**	ug/kg	69.4	8.3	1	02/20/23 08:30	02/20/23 19:46	108-90-7	
Chloroethane	**<29.3**	ug/kg	347	29.3	1	02/20/23 08:30	02/20/23 19:46	75-00-3	
Chloroform	**<49.7**	ug/kg	347	49.7	1	02/20/23 08:30	02/20/23 19:46	67-66-3	
Chloromethane	**<26.4**	ug/kg	69.4	26.4	1	02/20/23 08:30	02/20/23 19:46	74-87-3	
Dibromochloromethane	**<237**	ug/kg	347	237	1	02/20/23 08:30	02/20/23 19:46	124-48-1	
Dibromomethane	**<20.5**	ug/kg	69.4	20.5	1	02/20/23 08:30	02/20/23 19:46	74-95-3	
Dichlorodifluoromethane	**<29.8**	ug/kg	69.4	29.8	1	02/20/23 08:30	02/20/23 19:46	75-71-8	
Diisopropyl ether	**<17.2**	ug/kg	69.4	17.2	1	02/20/23 08:30	02/20/23 19:46	108-20-3	
Ethylbenzene	**<16.5**	ug/kg	69.4	16.5	1	02/20/23 08:30	02/20/23 19:46	100-41-4	
Hexachloro-1,3-butadiene	**<138**	ug/kg	347	138	1	02/20/23 08:30	02/20/23 19:46	87-68-3	
Isopropylbenzene (Cumene)	**<18.7**	ug/kg	69.4	18.7	1	02/20/23 08:30	02/20/23 19:46	98-82-8	
Methyl-tert-butyl ether	**<20.4**	ug/kg	69.4	20.4	1	02/20/23 08:30	02/20/23 19:46	1634-04-4	
Methylene Chloride	**<19.3**	ug/kg	69.4	19.3	1	02/20/23 08:30	02/20/23 19:46	75-09-2	
Naphthalene	**<21.6**	ug/kg	347	21.6	1	02/20/23 08:30	02/20/23 19:46	91-20-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-08-2023 (11-12) **Lab ID: 40258372009** Collected: 02/14/23 14:40 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Styrene	**<17.8**	ug/kg	69.4	17.8	1	02/20/23 08:30	02/20/23 19:46	100-42-5	
Tetrachloroethene	**27.6J**	ug/kg	69.4	26.9	1	02/20/23 08:30	02/20/23 19:46	127-18-4	
Toluene	**<17.5**	ug/kg	69.4	17.5	1	02/20/23 08:30	02/20/23 19:46	108-88-3	
Trichloroethene	**41.8J**	ug/kg	69.4	25.9	1	02/20/23 08:30	02/20/23 19:46	79-01-6	
Trichlorofluoromethane	**<20.1**	ug/kg	69.4	20.1	1	02/20/23 08:30	02/20/23 19:46	75-69-4	
Vinyl chloride	**<14.0**	ug/kg	69.4	14.0	1	02/20/23 08:30	02/20/23 19:46	75-01-4	
cis-1,2-Dichloroethene	**34.8J**	ug/kg	69.4	14.8	1	02/20/23 08:30	02/20/23 19:46	156-59-2	
cis-1,3-Dichloropropene	**<45.8**	ug/kg	347	45.8	1	02/20/23 08:30	02/20/23 19:46	10061-01-5	
m&p-Xylene	**<29.3**	ug/kg	139	29.3	1	02/20/23 08:30	02/20/23 19:46	179601-23-1	
n-Butylbenzene	**<31.8**	ug/kg	69.4	31.8	1	02/20/23 08:30	02/20/23 19:46	104-51-8	
n-Propylbenzene	**<16.6**	ug/kg	69.4	16.6	1	02/20/23 08:30	02/20/23 19:46	103-65-1	
o-Xylene	**<20.8**	ug/kg	69.4	20.8	1	02/20/23 08:30	02/20/23 19:46	95-47-6	
p-Isopropyltoluene	**<21.1**	ug/kg	69.4	21.1	1	02/20/23 08:30	02/20/23 19:46	99-87-6	
sec-Butylbenzene	**<16.9**	ug/kg	69.4	16.9	1	02/20/23 08:30	02/20/23 19:46	135-98-8	
tert-Butylbenzene	**<21.8**	ug/kg	69.4	21.8	1	02/20/23 08:30	02/20/23 19:46	98-06-6	
trans-1,2-Dichloroethene	**<15.0**	ug/kg	69.4	15.0	1	02/20/23 08:30	02/20/23 19:46	156-60-5	
trans-1,3-Dichloropropene	**<198**	ug/kg	347	198	1	02/20/23 08:30	02/20/23 19:46	10061-02-6	
Surrogates									
Toluene-d8 (S)	119	%	69-153		1	02/20/23 08:30	02/20/23 19:46	2037-26-5	
4-Bromofluorobenzene (S)	134	%	68-156		1	02/20/23 08:30	02/20/23 19:46	460-00-4	
1,2-Dichlorobenzene-d4 (S)	130	%	71-161		1	02/20/23 08:30	02/20/23 19:46	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**16.2**	%	0.10	0.10	1		02/22/23 09:38		

Sample: GP-09-2023 (12-13) **Lab ID: 40258372010** Collected: 02/14/23 15:30 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<14.9**	ug/kg	62.2	14.9	1	02/20/23 08:30	02/20/23 20:06	630-20-6	
1,1,1-Trichloroethane	**<15.9**	ug/kg	62.2	15.9	1	02/20/23 08:30	02/20/23 20:06	71-55-6	
1,1,2,2-Tetrachloroethane	**<22.5**	ug/kg	62.2	22.5	1	02/20/23 08:30	02/20/23 20:06	79-34-5	
1,1,2-Trichloroethane	**<22.6**	ug/kg	62.2	22.6	1	02/20/23 08:30	02/20/23 20:06	79-00-5	
1,1-Dichloroethane	**<15.9**	ug/kg	62.2	15.9	1	02/20/23 08:30	02/20/23 20:06	75-34-3	
1,1-Dichloroethene	**<20.7**	ug/kg	62.2	20.7	1	02/20/23 08:30	02/20/23 20:06	75-35-4	
1,1-Dichloropropene	**<20.2**	ug/kg	62.2	20.2	1	02/20/23 08:30	02/20/23 20:06	563-58-6	
1,2,3-Trichlorobenzene	**<69.3**	ug/kg	311	69.3	1	02/20/23 08:30	02/20/23 20:06	87-61-6	
1,2,3-Trichloropropane	**<30.2**	ug/kg	62.2	30.2	1	02/20/23 08:30	02/20/23 20:06	96-18-4	
1,2,4-Trichlorobenzene	**<51.3**	ug/kg	311	51.3	1	02/20/23 08:30	02/20/23 20:06	120-82-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-09-2023 (12-13) **Lab ID: 40258372010** Collected: 02/14/23 15:30 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,2,4-Trimethylbenzene	**<18.5**	ug/kg	62.2	18.5	1	02/20/23 08:30	02/20/23 20:06	95-63-6	
1,2-Dibromo-3-chloropropane	**<48.3**	ug/kg	311	48.3	1	02/20/23 08:30	02/20/23 20:06	96-12-8	
1,2-Dibromoethane (EDB)	**<17.0**	ug/kg	62.2	17.0	1	02/20/23 08:30	02/20/23 20:06	106-93-4	
1,2-Dichlorobenzene	**<19.3**	ug/kg	62.2	19.3	1	02/20/23 08:30	02/20/23 20:06	95-50-1	
1,2-Dichloroethane	**<14.3**	ug/kg	62.2	14.3	1	02/20/23 08:30	02/20/23 20:06	107-06-2	
1,2-Dichloropropane	**<14.8**	ug/kg	62.2	14.8	1	02/20/23 08:30	02/20/23 20:06	78-87-5	
1,3,5-Trimethylbenzene	**<20.0**	ug/kg	62.2	20.0	1	02/20/23 08:30	02/20/23 20:06	108-67-8	
1,3-Dichlorobenzene	**<17.0**	ug/kg	62.2	17.0	1	02/20/23 08:30	02/20/23 20:06	541-73-1	
1,3-Dichloropropane	**<13.6**	ug/kg	62.2	13.6	1	02/20/23 08:30	02/20/23 20:06	142-28-9	
1,4-Dichlorobenzene	**<17.0**	ug/kg	62.2	17.0	1	02/20/23 08:30	02/20/23 20:06	106-46-7	
2,2-Dichloropropane	**<16.8**	ug/kg	62.2	16.8	1	02/20/23 08:30	02/20/23 20:06	594-20-7	
2-Chlorotoluene	**<20.2**	ug/kg	62.2	20.2	1	02/20/23 08:30	02/20/23 20:06	95-49-8	
4-Chlorotoluene	**<23.6**	ug/kg	62.2	23.6	1	02/20/23 08:30	02/20/23 20:06	106-43-4	
Benzene	**<14.8**	ug/kg	24.9	14.8	1	02/20/23 08:30	02/20/23 20:06	71-43-2	
Bromobenzene	**<24.3**	ug/kg	62.2	24.3	1	02/20/23 08:30	02/20/23 20:06	108-86-1	
Bromochloromethane	**<17.0**	ug/kg	62.2	17.0	1	02/20/23 08:30	02/20/23 20:06	74-97-5	
Bromodichloromethane	**<14.8**	ug/kg	62.2	14.8	1	02/20/23 08:30	02/20/23 20:06	75-27-4	
Bromoform	**<274**	ug/kg	311	274	1	02/20/23 08:30	02/20/23 20:06	75-25-2	
Bromomethane	**<87.2**	ug/kg	311	87.2	1	02/20/23 08:30	02/20/23 20:06	74-83-9	
Carbon tetrachloride	**<13.7**	ug/kg	62.2	13.7	1	02/20/23 08:30	02/20/23 20:06	56-23-5	
Chlorobenzene	**<7.5**	ug/kg	62.2	7.5	1	02/20/23 08:30	02/20/23 20:06	108-90-7	
Chloroethane	**<26.3**	ug/kg	311	26.3	1	02/20/23 08:30	02/20/23 20:06	75-00-3	
Chloroform	**<44.5**	ug/kg	311	44.5	1	02/20/23 08:30	02/20/23 20:06	67-66-3	
Chloromethane	**<23.6**	ug/kg	62.2	23.6	1	02/20/23 08:30	02/20/23 20:06	74-87-3	
Dibromochloromethane	**<213**	ug/kg	311	213	1	02/20/23 08:30	02/20/23 20:06	124-48-1	
Dibromomethane	**<18.4**	ug/kg	62.2	18.4	1	02/20/23 08:30	02/20/23 20:06	74-95-3	
Dichlorodifluoromethane	**<26.7**	ug/kg	62.2	26.7	1	02/20/23 08:30	02/20/23 20:06	75-71-8	
Diisopropyl ether	**<15.4**	ug/kg	62.2	15.4	1	02/20/23 08:30	02/20/23 20:06	108-20-3	
Ethylbenzene	**<14.8**	ug/kg	62.2	14.8	1	02/20/23 08:30	02/20/23 20:06	100-41-4	
Hexachloro-1,3-butadiene	**<124**	ug/kg	311	124	1	02/20/23 08:30	02/20/23 20:06	87-68-3	
Isopropylbenzene (Cumene)	**<16.8**	ug/kg	62.2	16.8	1	02/20/23 08:30	02/20/23 20:06	98-82-8	
Methyl-tert-butyl ether	**<18.3**	ug/kg	62.2	18.3	1	02/20/23 08:30	02/20/23 20:06	1634-04-4	
Methylene Chloride	**<17.3**	ug/kg	62.2	17.3	1	02/20/23 08:30	02/20/23 20:06	75-09-2	
Naphthalene	**<19.4**	ug/kg	311	19.4	1	02/20/23 08:30	02/20/23 20:06	91-20-3	
Styrene	**<15.9**	ug/kg	62.2	15.9	1	02/20/23 08:30	02/20/23 20:06	100-42-5	
Tetrachloroethene	**96.8**	ug/kg	62.2	24.1	1	02/20/23 08:30	02/20/23 20:06	127-18-4	
Toluene	**<15.7**	ug/kg	62.2	15.7	1	02/20/23 08:30	02/20/23 20:06	108-88-3	
Trichloroethene	**343**	ug/kg	62.2	23.3	1	02/20/23 08:30	02/20/23 20:06	79-01-6	
Trichlorofluoromethane	**<18.0**	ug/kg	62.2	18.0	1	02/20/23 08:30	02/20/23 20:06	75-69-4	
Vinyl chloride	**<12.6**	ug/kg	62.2	12.6	1	02/20/23 08:30	02/20/23 20:06	75-01-4	
cis-1,2-Dichloroethene	**117**	ug/kg	62.2	13.3	1	02/20/23 08:30	02/20/23 20:06	156-59-2	
cis-1,3-Dichloropropene	**<41.1**	ug/kg	311	41.1	1	02/20/23 08:30	02/20/23 20:06	10061-01-5	
m&p-Xylene	**<26.3**	ug/kg	124	26.3	1	02/20/23 08:30	02/20/23 20:06	179601-23-1	
n-Butylbenzene	**<28.5**	ug/kg	62.2	28.5	1	02/20/23 08:30	02/20/23 20:06	104-51-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-09-2023 (12-13) **Lab ID: 40258372010** Collected: 02/14/23 15:30 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
n-Propylbenzene	**<14.9**	ug/kg	62.2	14.9	1	02/20/23 08:30	02/20/23 20:06	103-65-1	
o-Xylene	**<18.7**	ug/kg	62.2	18.7	1	02/20/23 08:30	02/20/23 20:06	95-47-6	
p-Isopropyltoluene	**<18.9**	ug/kg	62.2	18.9	1	02/20/23 08:30	02/20/23 20:06	99-87-6	
sec-Butylbenzene	**<15.2**	ug/kg	62.2	15.2	1	02/20/23 08:30	02/20/23 20:06	135-98-8	
tert-Butylbenzene	**<19.5**	ug/kg	62.2	19.5	1	02/20/23 08:30	02/20/23 20:06	98-06-6	
trans-1,2-Dichloroethene	**<13.4**	ug/kg	62.2	13.4	1	02/20/23 08:30	02/20/23 20:06	156-60-5	
trans-1,3-Dichloropropene	**<178**	ug/kg	311	178	1	02/20/23 08:30	02/20/23 20:06	10061-02-6	
Surrogates									
Toluene-d8 (S)	105	%	69-153		1	02/20/23 08:30	02/20/23 20:06	2037-26-5	
4-Bromofluorobenzene (S)	112	%	68-156		1	02/20/23 08:30	02/20/23 20:06	460-00-4	
1,2-Dichlorobenzene-d4 (S)	110	%	71-161		1	02/20/23 08:30	02/20/23 20:06	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**10**	%	0.10	0.10	1		02/22/23 09:38		

Sample: GP-10-2023 (8-9) **Lab ID: 40258372011** Collected: 02/14/23 15:45 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<14.1**	ug/kg	58.9	14.1	1	02/20/23 08:30	02/20/23 20:26	630-20-6	
1,1,1-Trichloroethane	**<15.1**	ug/kg	58.9	15.1	1	02/20/23 08:30	02/20/23 20:26	71-55-6	
1,1,2,2-Tetrachloroethane	**<21.3**	ug/kg	58.9	21.3	1	02/20/23 08:30	02/20/23 20:26	79-34-5	
1,1,2-Trichloroethane	**<21.4**	ug/kg	58.9	21.4	1	02/20/23 08:30	02/20/23 20:26	79-00-5	
1,1-Dichloroethane	**<15.1**	ug/kg	58.9	15.1	1	02/20/23 08:30	02/20/23 20:26	75-34-3	
1,1-Dichloroethene	**<19.5**	ug/kg	58.9	19.5	1	02/20/23 08:30	02/20/23 20:26	75-35-4	
1,1-Dichloropropene	**<19.1**	ug/kg	58.9	19.1	1	02/20/23 08:30	02/20/23 20:26	563-58-6	
1,2,3-Trichlorobenzene	**<65.6**	ug/kg	294	65.6	1	02/20/23 08:30	02/20/23 20:26	87-61-6	
1,2,3-Trichloropropane	**<28.6**	ug/kg	58.9	28.6	1	02/20/23 08:30	02/20/23 20:26	96-18-4	
1,2,4-Trichlorobenzene	**<48.5**	ug/kg	294	48.5	1	02/20/23 08:30	02/20/23 20:26	120-82-1	
1,2,4-Trimethylbenzene	**<17.5**	ug/kg	58.9	17.5	1	02/20/23 08:30	02/20/23 20:26	95-63-6	
1,2-Dibromo-3-chloropropane	**<45.7**	ug/kg	294	45.7	1	02/20/23 08:30	02/20/23 20:26	96-12-8	
1,2-Dibromoethane (EDB)	**<16.1**	ug/kg	58.9	16.1	1	02/20/23 08:30	02/20/23 20:26	106-93-4	
1,2-Dichlorobenzene	**<18.2**	ug/kg	58.9	18.2	1	02/20/23 08:30	02/20/23 20:26	95-50-1	
1,2-Dichloroethane	**<13.5**	ug/kg	58.9	13.5	1	02/20/23 08:30	02/20/23 20:26	107-06-2	
1,2-Dichloropropane	**<14.0**	ug/kg	58.9	14.0	1	02/20/23 08:30	02/20/23 20:26	78-87-5	
1,3,5-Trimethylbenzene	**<19.0**	ug/kg	58.9	19.0	1	02/20/23 08:30	02/20/23 20:26	108-67-8	
1,3-Dichlorobenzene	**<16.1**	ug/kg	58.9	16.1	1	02/20/23 08:30	02/20/23 20:26	541-73-1	
1,3-Dichloropropane	**<12.8**	ug/kg	58.9	12.8	1	02/20/23 08:30	02/20/23 20:26	142-28-9	
1,4-Dichlorobenzene	**<16.1**	ug/kg	58.9	16.1	1	02/20/23 08:30	02/20/23 20:26	106-46-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-10-2023 (8-9) **Lab ID: 40258372011** Collected: 02/14/23 15:45 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
2,2-Dichloropropane	**<15.9**	ug/kg	58.9	15.9	1	02/20/23 08:30	02/20/23 20:26	594-20-7	
2-Chlorotoluene	**<19.1**	ug/kg	58.9	19.1	1	02/20/23 08:30	02/20/23 20:26	95-49-8	
4-Chlorotoluene	**<22.4**	ug/kg	58.9	22.4	1	02/20/23 08:30	02/20/23 20:26	106-43-4	
Benzene	**<14.0**	ug/kg	23.5	14.0	1	02/20/23 08:30	02/20/23 20:26	71-43-2	
Bromobenzene	**<23.0**	ug/kg	58.9	23.0	1	02/20/23 08:30	02/20/23 20:26	108-86-1	
Bromochloromethane	**<16.1**	ug/kg	58.9	16.1	1	02/20/23 08:30	02/20/23 20:26	74-97-5	
Bromodichloromethane	**<14.0**	ug/kg	58.9	14.0	1	02/20/23 08:30	02/20/23 20:26	75-27-4	
Bromoform	**<259**	ug/kg	294	259	1	02/20/23 08:30	02/20/23 20:26	75-25-2	
Bromomethane	**<82.5**	ug/kg	294	82.5	1	02/20/23 08:30	02/20/23 20:26	74-83-9	
Carbon tetrachloride	**<13.0**	ug/kg	58.9	13.0	1	02/20/23 08:30	02/20/23 20:26	56-23-5	
Chlorobenzene	**<7.1**	ug/kg	58.9	7.1	1	02/20/23 08:30	02/20/23 20:26	108-90-7	
Chloroethane	**<24.8**	ug/kg	294	24.8	1	02/20/23 08:30	02/20/23 20:26	75-00-3	
Chloroform	**<42.1**	ug/kg	294	42.1	1	02/20/23 08:30	02/20/23 20:26	67-66-3	
Chloromethane	**<22.4**	ug/kg	58.9	22.4	1	02/20/23 08:30	02/20/23 20:26	74-87-3	
Dibromochloromethane	**<201**	ug/kg	294	201	1	02/20/23 08:30	02/20/23 20:26	124-48-1	
Dibromomethane	**<17.4**	ug/kg	58.9	17.4	1	02/20/23 08:30	02/20/23 20:26	74-95-3	
Dichlorodifluoromethane	**<25.3**	ug/kg	58.9	25.3	1	02/20/23 08:30	02/20/23 20:26	75-71-8	
Diisopropyl ether	**<14.6**	ug/kg	58.9	14.6	1	02/20/23 08:30	02/20/23 20:26	108-20-3	
Ethylbenzene	**<14.0**	ug/kg	58.9	14.0	1	02/20/23 08:30	02/20/23 20:26	100-41-4	
Hexachloro-1,3-butadiene	**<117**	ug/kg	294	117	1	02/20/23 08:30	02/20/23 20:26	87-68-3	
Isopropylbenzene (Cumene)	**<15.9**	ug/kg	58.9	15.9	1	02/20/23 08:30	02/20/23 20:26	98-82-8	
Methyl-tert-butyl ether	**<17.3**	ug/kg	58.9	17.3	1	02/20/23 08:30	02/20/23 20:26	1634-04-4	
Methylene Chloride	**<16.4**	ug/kg	58.9	16.4	1	02/20/23 08:30	02/20/23 20:26	75-09-2	
Naphthalene	**<18.4**	ug/kg	294	18.4	1	02/20/23 08:30	02/20/23 20:26	91-20-3	
Styrene	**<15.1**	ug/kg	58.9	15.1	1	02/20/23 08:30	02/20/23 20:26	100-42-5	
Tetrachloroethene	**26.5J**	ug/kg	58.9	22.8	1	02/20/23 08:30	02/20/23 20:26	127-18-4	
Toluene	**<14.8**	ug/kg	58.9	14.8	1	02/20/23 08:30	02/20/23 20:26	108-88-3	
Trichloroethene	**164**	ug/kg	58.9	22.0	1	02/20/23 08:30	02/20/23 20:26	79-01-6	
Trichlorofluoromethane	**<17.1**	ug/kg	58.9	17.1	1	02/20/23 08:30	02/20/23 20:26	75-69-4	
Vinyl chloride	**<11.9**	ug/kg	58.9	11.9	1	02/20/23 08:30	02/20/23 20:26	75-01-4	
cis-1,2-Dichloroethene	**55.1J**	ug/kg	58.9	12.6	1	02/20/23 08:30	02/20/23 20:26	156-59-2	
cis-1,3-Dichloropropene	**<38.9**	ug/kg	294	38.9	1	02/20/23 08:30	02/20/23 20:26	10061-01-5	
m&p-Xylene	**<24.8**	ug/kg	118	24.8	1	02/20/23 08:30	02/20/23 20:26	179601-23-1	
n-Butylbenzene	**<27.0**	ug/kg	58.9	27.0	1	02/20/23 08:30	02/20/23 20:26	104-51-8	
n-Propylbenzene	**<14.1**	ug/kg	58.9	14.1	1	02/20/23 08:30	02/20/23 20:26	103-65-1	
o-Xylene	**<17.7**	ug/kg	58.9	17.7	1	02/20/23 08:30	02/20/23 20:26	95-47-6	
p-Isopropyltoluene	**<17.9**	ug/kg	58.9	17.9	1	02/20/23 08:30	02/20/23 20:26	99-87-6	
sec-Butylbenzene	**<14.4**	ug/kg	58.9	14.4	1	02/20/23 08:30	02/20/23 20:26	135-98-8	
tert-Butylbenzene	**<18.5**	ug/kg	58.9	18.5	1	02/20/23 08:30	02/20/23 20:26	98-06-6	
trans-1,2-Dichloroethene	**<12.7**	ug/kg	58.9	12.7	1	02/20/23 08:30	02/20/23 20:26	156-60-5	
trans-1,3-Dichloropropene	**<168**	ug/kg	294	168	1	02/20/23 08:30	02/20/23 20:26	10061-02-6	
Surrogates									
Toluene-d8 (S)	108	%	69-153		1	02/20/23 08:30	02/20/23 20:26	2037-26-5	
4-Bromofluorobenzene (S)	123	%	68-156		1	02/20/23 08:30	02/20/23 20:26	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-10-2023 (8-9) **Lab ID: 40258372011** Collected: 02/14/23 15:45 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Surrogates									
1,2-Dichlorobenzene-d4 (S)	124	%	71-161		1	02/20/23 08:30	02/20/23 20:26	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**8.1**	%	0.10	0.10	1		02/22/23 09:38		

Sample: GP-11-2023 (11-12) **Lab ID: 40258372012** Collected: 02/15/23 08:45 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<15.0**	ug/kg	62.6	15.0	1	02/20/23 08:30	02/20/23 18:08	630-20-6	
1,1,1-Trichloroethane	**<16.0**	ug/kg	62.6	16.0	1	02/20/23 08:30	02/20/23 18:08	71-55-6	
1,1,2,2-Tetrachloroethane	**<22.7**	ug/kg	62.6	22.7	1	02/20/23 08:30	02/20/23 18:08	79-34-5	
1,1,2-Trichloroethane	**<22.8**	ug/kg	62.6	22.8	1	02/20/23 08:30	02/20/23 18:08	79-00-5	
1,1-Dichloroethane	**33.4J**	ug/kg	62.6	16.0	1	02/20/23 08:30	02/20/23 18:08	75-34-3	
1,1-Dichloroethene	**<20.8**	ug/kg	62.6	20.8	1	02/20/23 08:30	02/20/23 18:08	75-35-4	
1,1-Dichloropropene	**<20.3**	ug/kg	62.6	20.3	1	02/20/23 08:30	02/20/23 18:08	563-58-6	
1,2,3-Trichlorobenzene	**<69.7**	ug/kg	313	69.7	1	02/20/23 08:30	02/20/23 18:08	87-61-6	
1,2,3-Trichloropropane	**<30.4**	ug/kg	62.6	30.4	1	02/20/23 08:30	02/20/23 18:08	96-18-4	
1,2,4-Trichlorobenzene	**<51.6**	ug/kg	313	51.6	1	02/20/23 08:30	02/20/23 18:08	120-82-1	
1,2,4-Trimethylbenzene	**<18.6**	ug/kg	62.6	18.6	1	02/20/23 08:30	02/20/23 18:08	95-63-6	
1,2-Dibromo-3-chloropropane	**<48.6**	ug/kg	313	48.6	1	02/20/23 08:30	02/20/23 18:08	96-12-8	
1,2-Dibromoethane (EDB)	**<17.1**	ug/kg	62.6	17.1	1	02/20/23 08:30	02/20/23 18:08	106-93-4	
1,2-Dichlorobenzene	**<19.4**	ug/kg	62.6	19.4	1	02/20/23 08:30	02/20/23 18:08	95-50-1	
1,2-Dichloroethane	**<14.4**	ug/kg	62.6	14.4	1	02/20/23 08:30	02/20/23 18:08	107-06-2	
1,2-Dichloropropane	**<14.9**	ug/kg	62.6	14.9	1	02/20/23 08:30	02/20/23 18:08	78-87-5	
1,3,5-Trimethylbenzene	**<20.2**	ug/kg	62.6	20.2	1	02/20/23 08:30	02/20/23 18:08	108-67-8	
1,3-Dichlorobenzene	**<17.1**	ug/kg	62.6	17.1	1	02/20/23 08:30	02/20/23 18:08	541-73-1	
1,3-Dichloropropane	**<13.6**	ug/kg	62.6	13.6	1	02/20/23 08:30	02/20/23 18:08	142-28-9	
1,4-Dichlorobenzene	**<17.1**	ug/kg	62.6	17.1	1	02/20/23 08:30	02/20/23 18:08	106-46-7	
2,2-Dichloropropane	**<16.9**	ug/kg	62.6	16.9	1	02/20/23 08:30	02/20/23 18:08	594-20-7	
2-Chlorotoluene	**<20.3**	ug/kg	62.6	20.3	1	02/20/23 08:30	02/20/23 18:08	95-49-8	
4-Chlorotoluene	**<23.8**	ug/kg	62.6	23.8	1	02/20/23 08:30	02/20/23 18:08	106-43-4	
Benzene	**<14.9**	ug/kg	25.0	14.9	1	02/20/23 08:30	02/20/23 18:08	71-43-2	
Bromobenzene	**<24.4**	ug/kg	62.6	24.4	1	02/20/23 08:30	02/20/23 18:08	108-86-1	
Bromochloromethane	**<17.1**	ug/kg	62.6	17.1	1	02/20/23 08:30	02/20/23 18:08	74-97-5	
Bromodichloromethane	**<14.9**	ug/kg	62.6	14.9	1	02/20/23 08:30	02/20/23 18:08	75-27-4	
Bromoform	**<275**	ug/kg	313	275	1	02/20/23 08:30	02/20/23 18:08	75-25-2	
Bromomethane	**<87.7**	ug/kg	313	87.7	1	02/20/23 08:30	02/20/23 18:08	74-83-9	

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-11-2023 (11-12) **Lab ID: 40258372012** Collected: 02/15/23 08:45 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Carbon tetrachloride	**<13.8**	ug/kg	62.6	13.8	1	02/20/23 08:30	02/20/23 18:08	56-23-5	
Chlorobenzene	**<7.5**	ug/kg	62.6	7.5	1	02/20/23 08:30	02/20/23 18:08	108-90-7	
Chloroethane	**<26.4**	ug/kg	313	26.4	1	02/20/23 08:30	02/20/23 18:08	75-00-3	
Chloroform	**<44.8**	ug/kg	313	44.8	1	02/20/23 08:30	02/20/23 18:08	67-66-3	
Chloromethane	**<23.8**	ug/kg	62.6	23.8	1	02/20/23 08:30	02/20/23 18:08	74-87-3	
Dibromochloromethane	**<214**	ug/kg	313	214	1	02/20/23 08:30	02/20/23 18:08	124-48-1	
Dibromomethane	**<18.5**	ug/kg	62.6	18.5	1	02/20/23 08:30	02/20/23 18:08	74-95-3	
Dichlorodifluoromethane	**<26.9**	ug/kg	62.6	26.9	1	02/20/23 08:30	02/20/23 18:08	75-71-8	
Diisopropyl ether	**<15.5**	ug/kg	62.6	15.5	1	02/20/23 08:30	02/20/23 18:08	108-20-3	
Ethylbenzene	**<14.9**	ug/kg	62.6	14.9	1	02/20/23 08:30	02/20/23 18:08	100-41-4	
Hexachloro-1,3-butadiene	**<124**	ug/kg	313	124	1	02/20/23 08:30	02/20/23 18:08	87-68-3	
Isopropylbenzene (Cumene)	**<16.9**	ug/kg	62.6	16.9	1	02/20/23 08:30	02/20/23 18:08	98-82-8	
Methyl-tert-butyl ether	**<18.4**	ug/kg	62.6	18.4	1	02/20/23 08:30	02/20/23 18:08	1634-04-4	
Methylene Chloride	**<17.4**	ug/kg	62.6	17.4	1	02/20/23 08:30	02/20/23 18:08	75-09-2	
Naphthalene	**<19.5**	ug/kg	313	19.5	1	02/20/23 08:30	02/20/23 18:08	91-20-3	
Styrene	**<16.0**	ug/kg	62.6	16.0	1	02/20/23 08:30	02/20/23 18:08	100-42-5	
Tetrachloroethene	**109**	ug/kg	62.6	24.3	1	02/20/23 08:30	02/20/23 18:08	127-18-4	
Toluene	**<15.8**	ug/kg	62.6	15.8	1	02/20/23 08:30	02/20/23 18:08	108-88-3	
Trichloroethene	**1060**	ug/kg	62.6	23.4	1	02/20/23 08:30	02/20/23 18:08	79-01-6	
Trichlorofluoromethane	**<18.1**	ug/kg	62.6	18.1	1	02/20/23 08:30	02/20/23 18:08	75-69-4	
Vinyl chloride	**54.8J**	ug/kg	62.6	12.6	1	02/20/23 08:30	02/20/23 18:08	75-01-4	
cis-1,2-Dichloroethene	**145**	ug/kg	62.6	13.4	1	02/20/23 08:30	02/20/23 18:08	156-59-2	
cis-1,3-Dichloropropene	**<41.3**	ug/kg	313	41.3	1	02/20/23 08:30	02/20/23 18:08	10061-01-5	
m&p-Xylene	**<26.4**	ug/kg	125	26.4	1	02/20/23 08:30	02/20/23 18:08	179601-23-1	
n-Butylbenzene	**<28.7**	ug/kg	62.6	28.7	1	02/20/23 08:30	02/20/23 18:08	104-51-8	
n-Propylbenzene	**<15.0**	ug/kg	62.6	15.0	1	02/20/23 08:30	02/20/23 18:08	103-65-1	
o-Xylene	**<18.8**	ug/kg	62.6	18.8	1	02/20/23 08:30	02/20/23 18:08	95-47-6	
p-Isopropyltoluene	**<19.0**	ug/kg	62.6	19.0	1	02/20/23 08:30	02/20/23 18:08	99-87-6	
sec-Butylbenzene	**<15.3**	ug/kg	62.6	15.3	1	02/20/23 08:30	02/20/23 18:08	135-98-8	
tert-Butylbenzene	**<19.7**	ug/kg	62.6	19.7	1	02/20/23 08:30	02/20/23 18:08	98-06-6	
trans-1,2-Dichloroethene	**35.5J**	ug/kg	62.6	13.5	1	02/20/23 08:30	02/20/23 18:08	156-60-5	
trans-1,3-Dichloropropene	**<179**	ug/kg	313	179	1	02/20/23 08:30	02/20/23 18:08	10061-02-6	
Surrogates									
Toluene-d8 (S)	110	%	69-153		1	02/20/23 08:30	02/20/23 18:08	2037-26-5	
4-Bromofluorobenzene (S)	128	%	68-156		1	02/20/23 08:30	02/20/23 18:08	460-00-4	
1,2-Dichlorobenzene-d4 (S)	123	%	71-161		1	02/20/23 08:30	02/20/23 18:08	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**11.2**	%	0.10	0.10	1		02/22/23 09:38		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-12-2023 (8-9) **Lab ID: 40258372013** Collected: 02/15/23 09:15 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<14.2**	ug/kg	59.1	14.2	1	02/20/23 08:30	02/20/23 20:45	630-20-6	
1,1,1-Trichloroethane	**<15.1**	ug/kg	59.1	15.1	1	02/20/23 08:30	02/20/23 20:45	71-55-6	
1,1,2,2-Tetrachloroethane	**<21.4**	ug/kg	59.1	21.4	1	02/20/23 08:30	02/20/23 20:45	79-34-5	
1,1,2-Trichloroethane	**<21.5**	ug/kg	59.1	21.5	1	02/20/23 08:30	02/20/23 20:45	79-00-5	
1,1-Dichloroethane	**<15.1**	ug/kg	59.1	15.1	1	02/20/23 08:30	02/20/23 20:45	75-34-3	
1,1-Dichloroethene	**26.9J**	ug/kg	59.1	19.6	1	02/20/23 08:30	02/20/23 20:45	75-35-4	
1,1-Dichloropropene	**<19.1**	ug/kg	59.1	19.1	1	02/20/23 08:30	02/20/23 20:45	563-58-6	
1,2,3-Trichlorobenzene	**<65.8**	ug/kg	295	65.8	1	02/20/23 08:30	02/20/23 20:45	87-61-6	
1,2,3-Trichloropropane	**<28.7**	ug/kg	59.1	28.7	1	02/20/23 08:30	02/20/23 20:45	96-18-4	
1,2,4-Trichlorobenzene	**<48.7**	ug/kg	295	48.7	1	02/20/23 08:30	02/20/23 20:45	120-82-1	
1,2,4-Trimethylbenzene	**<17.6**	ug/kg	59.1	17.6	1	02/20/23 08:30	02/20/23 20:45	95-63-6	
1,2-Dibromo-3-chloropropane	**<45.8**	ug/kg	295	45.8	1	02/20/23 08:30	02/20/23 20:45	96-12-8	
1,2-Dibromoethane (EDB)	**<16.2**	ug/kg	59.1	16.2	1	02/20/23 08:30	02/20/23 20:45	106-93-4	
1,2-Dichlorobenzene	**<18.3**	ug/kg	59.1	18.3	1	02/20/23 08:30	02/20/23 20:45	95-50-1	
1,2-Dichloroethane	**<13.6**	ug/kg	59.1	13.6	1	02/20/23 08:30	02/20/23 20:45	107-06-2	
1,2-Dichloropropane	**<14.1**	ug/kg	59.1	14.1	1	02/20/23 08:30	02/20/23 20:45	78-87-5	
1,3,5-Trimethylbenzene	**<19.0**	ug/kg	59.1	19.0	1	02/20/23 08:30	02/20/23 20:45	108-67-8	
1,3-Dichlorobenzene	**<16.2**	ug/kg	59.1	16.2	1	02/20/23 08:30	02/20/23 20:45	541-73-1	
1,3-Dichloropropane	**<12.9**	ug/kg	59.1	12.9	1	02/20/23 08:30	02/20/23 20:45	142-28-9	
1,4-Dichlorobenzene	**<16.2**	ug/kg	59.1	16.2	1	02/20/23 08:30	02/20/23 20:45	106-46-7	
2,2-Dichloropropane	**<15.9**	ug/kg	59.1	15.9	1	02/20/23 08:30	02/20/23 20:45	594-20-7	
2-Chlorotoluene	**<19.1**	ug/kg	59.1	19.1	1	02/20/23 08:30	02/20/23 20:45	95-49-8	
4-Chlorotoluene	**<22.4**	ug/kg	59.1	22.4	1	02/20/23 08:30	02/20/23 20:45	106-43-4	
Benzene	**<14.1**	ug/kg	23.6	14.1	1	02/20/23 08:30	02/20/23 20:45	71-43-2	
Bromobenzene	**<23.0**	ug/kg	59.1	23.0	1	02/20/23 08:30	02/20/23 20:45	108-86-1	
Bromochloromethane	**<16.2**	ug/kg	59.1	16.2	1	02/20/23 08:30	02/20/23 20:45	74-97-5	
Bromodichloromethane	**<14.1**	ug/kg	59.1	14.1	1	02/20/23 08:30	02/20/23 20:45	75-27-4	
Bromoform	**<260**	ug/kg	295	260	1	02/20/23 08:30	02/20/23 20:45	75-25-2	
Bromomethane	**<82.8**	ug/kg	295	82.8	1	02/20/23 08:30	02/20/23 20:45	74-83-9	
Carbon tetrachloride	**<13.0**	ug/kg	59.1	13.0	1	02/20/23 08:30	02/20/23 20:45	56-23-5	
Chlorobenzene	**<7.1**	ug/kg	59.1	7.1	1	02/20/23 08:30	02/20/23 20:45	108-90-7	
Chloroethane	**<24.9**	ug/kg	295	24.9	1	02/20/23 08:30	02/20/23 20:45	75-00-3	
Chloroform	**<42.3**	ug/kg	295	42.3	1	02/20/23 08:30	02/20/23 20:45	67-66-3	
Chloromethane	**<22.4**	ug/kg	59.1	22.4	1	02/20/23 08:30	02/20/23 20:45	74-87-3	
Dibromochloromethane	**<202**	ug/kg	295	202	1	02/20/23 08:30	02/20/23 20:45	124-48-1	
Dibromomethane	**<17.5**	ug/kg	59.1	17.5	1	02/20/23 08:30	02/20/23 20:45	74-95-3	
Dichlorodifluoromethane	**<25.4**	ug/kg	59.1	25.4	1	02/20/23 08:30	02/20/23 20:45	75-71-8	
Diisopropyl ether	**<14.6**	ug/kg	59.1	14.6	1	02/20/23 08:30	02/20/23 20:45	108-20-3	
Ethylbenzene	**<14.1**	ug/kg	59.1	14.1	1	02/20/23 08:30	02/20/23 20:45	100-41-4	
Hexachloro-1,3-butadiene	**<117**	ug/kg	295	117	1	02/20/23 08:30	02/20/23 20:45	87-68-3	
Isopropylbenzene (Cumene)	**<15.9**	ug/kg	59.1	15.9	1	02/20/23 08:30	02/20/23 20:45	98-82-8	
Methyl-tert-butyl ether	**<17.4**	ug/kg	59.1	17.4	1	02/20/23 08:30	02/20/23 20:45	1634-04-4	
Methylene Chloride	**<16.4**	ug/kg	59.1	16.4	1	02/20/23 08:30	02/20/23 20:45	75-09-2	
Naphthalene	**<18.4**	ug/kg	295	18.4	1	02/20/23 08:30	02/20/23 20:45	91-20-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-12-2023 (8-9) **Lab ID: 40258372013** Collected: 02/15/23 09:15 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Styrene	**<15.1**	ug/kg	59.1	15.1	1	02/20/23 08:30	02/20/23 20:45	100-42-5	
Tetrachloroethene	**<22.9**	ug/kg	59.1	22.9	1	02/20/23 08:30	02/20/23 20:45	127-18-4	
Toluene	**<14.9**	ug/kg	59.1	14.9	1	02/20/23 08:30	02/20/23 20:45	108-88-3	
Trichloroethene	**33.5J**	ug/kg	59.1	22.1	1	02/20/23 08:30	02/20/23 20:45	79-01-6	
Trichlorofluoromethane	**<17.1**	ug/kg	59.1	17.1	1	02/20/23 08:30	02/20/23 20:45	75-69-4	
Vinyl chloride	**862**	ug/kg	59.1	11.9	1	02/20/23 08:30	02/20/23 20:45	75-01-4	
cis-1,2-Dichloroethene	**12900**	ug/kg	236	50.6	4	02/20/23 08:30	02/21/23 12:59	156-59-2	
cis-1,3-Dichloropropene	**<39.0**	ug/kg	295	39.0	1	02/20/23 08:30	02/20/23 20:45	10061-01-5	
m&p-Xylene	**<24.9**	ug/kg	118	24.9	1	02/20/23 08:30	02/20/23 20:45	179601-23-1	
n-Butylbenzene	**<27.1**	ug/kg	59.1	27.1	1	02/20/23 08:30	02/20/23 20:45	104-51-8	
n-Propylbenzene	**<14.2**	ug/kg	59.1	14.2	1	02/20/23 08:30	02/20/23 20:45	103-65-1	
o-Xylene	**<17.7**	ug/kg	59.1	17.7	1	02/20/23 08:30	02/20/23 20:45	95-47-6	
p-Isopropyltoluene	**<18.0**	ug/kg	59.1	18.0	1	02/20/23 08:30	02/20/23 20:45	99-87-6	
sec-Butylbenzene	**<14.4**	ug/kg	59.1	14.4	1	02/20/23 08:30	02/20/23 20:45	135-98-8	
tert-Butylbenzene	**<18.5**	ug/kg	59.1	18.5	1	02/20/23 08:30	02/20/23 20:45	98-06-6	
trans-1,2-Dichloroethene	**1090**	ug/kg	59.1	12.8	1	02/20/23 08:30	02/20/23 20:45	156-60-5	
trans-1,3-Dichloropropene	**<169**	ug/kg	295	169	1	02/20/23 08:30	02/20/23 20:45	10061-02-6	
Surrogates									
Toluene-d8 (S)	128	%	69-153		1	02/20/23 08:30	02/20/23 20:45	2037-26-5	
4-Bromofluorobenzene (S)	141	%	68-156		1	02/20/23 08:30	02/20/23 20:45	460-00-4	
1,2-Dichlorobenzene-d4 (S)	134	%	71-161		1	02/20/23 08:30	02/20/23 20:45	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**8.3**	%	0.10	0.10	1		02/22/23 09:38		

Sample: GP-13-2023 (11-12) **Lab ID: 40258372014** Collected: 02/15/23 09:38 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<111**	ug/kg	461	111	8	02/20/23 08:30	02/21/23 12:20	630-20-6	
1,1,1-Trichloroethane	**<118**	ug/kg	461	118	8	02/20/23 08:30	02/21/23 12:20	71-55-6	
1,1,2,2-Tetrachloroethane	**<167**	ug/kg	461	167	8	02/20/23 08:30	02/21/23 12:20	79-34-5	
1,1,2-Trichloroethane	**<168**	ug/kg	461	168	8	02/20/23 08:30	02/21/23 12:20	79-00-5	
1,1-Dichloroethane	**<118**	ug/kg	461	118	8	02/20/23 08:30	02/21/23 12:20	75-34-3	
1,1-Dichloroethene	**<153**	ug/kg	461	153	8	02/20/23 08:30	02/21/23 12:20	75-35-4	
1,1-Dichloropropene	**<149**	ug/kg	461	149	8	02/20/23 08:30	02/21/23 12:20	563-58-6	
1,2,3-Trichlorobenzene	**<514**	ug/kg	2310	514	8	02/20/23 08:30	02/21/23 12:20	87-61-6	
1,2,3-Trichloropropane	**<224**	ug/kg	461	224	8	02/20/23 08:30	02/21/23 12:20	96-18-4	
1,2,4-Trichlorobenzene	**<380**	ug/kg	2310	380	8	02/20/23 08:30	02/21/23 12:20	120-82-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-13-2023 (11-12) **Lab ID: 40258372014** Collected: 02/15/23 09:38 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,2,4-Trimethylbenzene	**<137**	ug/kg	461	137	8	02/20/23 08:30	02/21/23 12:20	95-63-6	
1,2-Dibromo-3-chloropropane	**<358**	ug/kg	2310	358	8	02/20/23 08:30	02/21/23 12:20	96-12-8	
1,2-Dibromoethane (EDB)	**<126**	ug/kg	461	126	8	02/20/23 08:30	02/21/23 12:20	106-93-4	
1,2-Dichlorobenzene	**<143**	ug/kg	461	143	8	02/20/23 08:30	02/21/23 12:20	95-50-1	
1,2-Dichloroethane	**<106**	ug/kg	461	106	8	02/20/23 08:30	02/21/23 12:20	107-06-2	
1,2-Dichloropropane	**<110**	ug/kg	461	110	8	02/20/23 08:30	02/21/23 12:20	78-87-5	
1,3,5-Trimethylbenzene	**<148**	ug/kg	461	148	8	02/20/23 08:30	02/21/23 12:20	108-67-8	
1,3-Dichlorobenzene	**<126**	ug/kg	461	126	8	02/20/23 08:30	02/21/23 12:20	541-73-1	
1,3-Dichloropropane	**<101**	ug/kg	461	101	8	02/20/23 08:30	02/21/23 12:20	142-28-9	
1,4-Dichlorobenzene	**<126**	ug/kg	461	126	8	02/20/23 08:30	02/21/23 12:20	106-46-7	
2,2-Dichloropropane	**<124**	ug/kg	461	124	8	02/20/23 08:30	02/21/23 12:20	594-20-7	
2-Chlorotoluene	**<149**	ug/kg	461	149	8	02/20/23 08:30	02/21/23 12:20	95-49-8	
4-Chlorotoluene	**<175**	ug/kg	461	175	8	02/20/23 08:30	02/21/23 12:20	106-43-4	
Benzene	**<110**	ug/kg	184	110	8	02/20/23 08:30	02/21/23 12:20	71-43-2	
Bromobenzene	**<180**	ug/kg	461	180	8	02/20/23 08:30	02/21/23 12:20	108-86-1	
Bromochloromethane	**<126**	ug/kg	461	126	8	02/20/23 08:30	02/21/23 12:20	74-97-5	
Bromodichloromethane	**<110**	ug/kg	461	110	8	02/20/23 08:30	02/21/23 12:20	75-27-4	
Bromoform	**<2030**	ug/kg	2310	2030	8	02/20/23 08:30	02/21/23 12:20	75-25-2	
Bromomethane	**<646**	ug/kg	2310	646	8	02/20/23 08:30	02/21/23 12:20	74-83-9	
Carbon tetrachloride	**<101**	ug/kg	461	101	8	02/20/23 08:30	02/21/23 12:20	56-23-5	
Chlorobenzene	**<55.2**	ug/kg	461	55.2	8	02/20/23 08:30	02/21/23 12:20	108-90-7	
Chloroethane	**<195**	ug/kg	2310	195	8	02/20/23 08:30	02/21/23 12:20	75-00-3	
Chloroform	**<330**	ug/kg	2310	330	8	02/20/23 08:30	02/21/23 12:20	67-66-3	
Chloromethane	**<175**	ug/kg	461	175	8	02/20/23 08:30	02/21/23 12:20	74-87-3	
Dibromochloromethane	**<1580**	ug/kg	2310	1580	8	02/20/23 08:30	02/21/23 12:20	124-48-1	
Dibromomethane	**<136**	ug/kg	461	136	8	02/20/23 08:30	02/21/23 12:20	74-95-3	
Dichlorodifluoromethane	**<198**	ug/kg	461	198	8	02/20/23 08:30	02/21/23 12:20	75-71-8	
Diisopropyl ether	**<114**	ug/kg	461	114	8	02/20/23 08:30	02/21/23 12:20	108-20-3	
Ethylbenzene	**<110**	ug/kg	461	110	8	02/20/23 08:30	02/21/23 12:20	100-41-4	
Hexachloro-1,3-butadiene	**<917**	ug/kg	2310	917	8	02/20/23 08:30	02/21/23 12:20	87-68-3	
Isopropylbenzene (Cumene)	**<124**	ug/kg	461	124	8	02/20/23 08:30	02/21/23 12:20	98-82-8	
Methyl-tert-butyl ether	**<136**	ug/kg	461	136	8	02/20/23 08:30	02/21/23 12:20	1634-04-4	
Methylene Chloride	**<128**	ug/kg	461	128	8	02/20/23 08:30	02/21/23 12:20	75-09-2	
Naphthalene	**<144**	ug/kg	2310	144	8	02/20/23 08:30	02/21/23 12:20	91-20-3	
Styrene	**<118**	ug/kg	461	118	8	02/20/23 08:30	02/21/23 12:20	100-42-5	
Tetrachloroethene	**<179**	ug/kg	461	179	8	02/20/23 08:30	02/21/23 12:20	127-18-4	
Toluene	**<116**	ug/kg	461	116	8	02/20/23 08:30	02/21/23 12:20	108-88-3	
Trichloroethene	**29600**	ug/kg	461	172	8	02/20/23 08:30	02/21/23 12:20	79-01-6	
Trichlorofluoromethane	**<134**	ug/kg	461	134	8	02/20/23 08:30	02/21/23 12:20	75-69-4	
Vinyl chloride	**<93.1**	ug/kg	461	93.1	8	02/20/23 08:30	02/21/23 12:20	75-01-4	
cis-1,2-Dichloroethene	**2800**	ug/kg	461	98.7	8	02/20/23 08:30	02/21/23 12:20	156-59-2	
cis-1,3-Dichloropropene	**<304**	ug/kg	2310	304	8	02/20/23 08:30	02/21/23 12:20	10061-01-5	
m&p-Xylene	**<195**	ug/kg	922	195	8	02/20/23 08:30	02/21/23 12:20	179601-23-1	
n-Butylbenzene	**<211**	ug/kg	461	211	8	02/20/23 08:30	02/21/23 12:20	104-51-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-13-2023 (11-12) **Lab ID: 40258372014** Collected: 02/15/23 09:38 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
n-Propylbenzene	**<111**	ug/kg	461	111	8	02/20/23 08:30	02/21/23 12:20	103-65-1	
o-Xylene	**<138**	ug/kg	461	138	8	02/20/23 08:30	02/21/23 12:20	95-47-6	
p-Isopropyltoluene	**<140**	ug/kg	461	140	8	02/20/23 08:30	02/21/23 12:20	99-87-6	
sec-Butylbenzene	**<112**	ug/kg	461	112	8	02/20/23 08:30	02/21/23 12:20	135-98-8	
tert-Butylbenzene	**<145**	ug/kg	461	145	8	02/20/23 08:30	02/21/23 12:20	98-06-6	
trans-1,2-Dichloroethene	**<99.6**	ug/kg	461	99.6	8	02/20/23 08:30	02/21/23 12:20	156-60-5	
trans-1,3-Dichloropropene	**<1320**	ug/kg	2310	1320	8	02/20/23 08:30	02/21/23 12:20	10061-02-6	
Surrogates									
Toluene-d8 (S)	106	%	69-153		8	02/20/23 08:30	02/21/23 12:20	2037-26-5	
4-Bromofluorobenzene (S)	128	%	68-156		8	02/20/23 08:30	02/21/23 12:20	460-00-4	
1,2-Dichlorobenzene-d4 (S)	139	%	71-161		8	02/20/23 08:30	02/21/23 12:20	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**7.1**	%	0.10	0.10	1		02/22/23 09:38		

Sample: GP-13-2023 (11-12) DUP **Lab ID: 40258372015** Collected: 02/15/23 09:38 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<110**	ug/kg	459	110	8	02/20/23 08:30	02/21/23 12:40	630-20-6	
1,1,1-Trichloroethane	**<117**	ug/kg	459	117	8	02/20/23 08:30	02/21/23 12:40	71-55-6	
1,1,2,2-Tetrachloroethane	**<166**	ug/kg	459	166	8	02/20/23 08:30	02/21/23 12:40	79-34-5	
1,1,2-Trichloroethane	**<167**	ug/kg	459	167	8	02/20/23 08:30	02/21/23 12:40	79-00-5	
1,1-Dichloroethane	**<117**	ug/kg	459	117	8	02/20/23 08:30	02/21/23 12:40	75-34-3	
1,1-Dichloroethene	**<152**	ug/kg	459	152	8	02/20/23 08:30	02/21/23 12:40	75-35-4	
1,1-Dichloropropene	**<149**	ug/kg	459	149	8	02/20/23 08:30	02/21/23 12:40	563-58-6	
1,2,3-Trichlorobenzene	**<511**	ug/kg	2290	511	8	02/20/23 08:30	02/21/23 12:40	87-61-6	
1,2,3-Trichloropropane	**<223**	ug/kg	459	223	8	02/20/23 08:30	02/21/23 12:40	96-18-4	
1,2,4-Trichlorobenzene	**<378**	ug/kg	2290	378	8	02/20/23 08:30	02/21/23 12:40	120-82-1	
1,2,4-Trimethylbenzene	**<137**	ug/kg	459	137	8	02/20/23 08:30	02/21/23 12:40	95-63-6	
1,2-Dibromo-3-chloropropane	**<356**	ug/kg	2290	356	8	02/20/23 08:30	02/21/23 12:40	96-12-8	
1,2-Dibromoethane (EDB)	**<126**	ug/kg	459	126	8	02/20/23 08:30	02/21/23 12:40	106-93-4	
1,2-Dichlorobenzene	**<142**	ug/kg	459	142	8	02/20/23 08:30	02/21/23 12:40	95-50-1	
1,2-Dichloroethane	**<106**	ug/kg	459	106	8	02/20/23 08:30	02/21/23 12:40	107-06-2	
1,2-Dichloropropane	**<109**	ug/kg	459	109	8	02/20/23 08:30	02/21/23 12:40	78-87-5	
1,3,5-Trimethylbenzene	**<148**	ug/kg	459	148	8	02/20/23 08:30	02/21/23 12:40	108-67-8	
1,3-Dichlorobenzene	**<126**	ug/kg	459	126	8	02/20/23 08:30	02/21/23 12:40	541-73-1	
1,3-Dichloropropane	**<100**	ug/kg	459	100	8	02/20/23 08:30	02/21/23 12:40	142-28-9	
1,4-Dichlorobenzene	**<126**	ug/kg	459	126	8	02/20/23 08:30	02/21/23 12:40	106-46-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-13-2023 (11-12) DUP **Lab ID: 40258372015** Collected: 02/15/23 09:38 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
2,2-Dichloropropane	**<124**	ug/kg	459	124	8	02/20/23 08:30	02/21/23 12:40	594-20-7	
2-Chlorotoluene	**<149**	ug/kg	459	149	8	02/20/23 08:30	02/21/23 12:40	95-49-8	
4-Chlorotoluene	**<174**	ug/kg	459	174	8	02/20/23 08:30	02/21/23 12:40	106-43-4	
Benzene	**<109**	ug/kg	184	109	8	02/20/23 08:30	02/21/23 12:40	71-43-2	
Bromobenzene	**<179**	ug/kg	459	179	8	02/20/23 08:30	02/21/23 12:40	108-86-1	
Bromochloromethane	**<126**	ug/kg	459	126	8	02/20/23 08:30	02/21/23 12:40	74-97-5	
Bromodichloromethane	**<109**	ug/kg	459	109	8	02/20/23 08:30	02/21/23 12:40	75-27-4	
Bromoform	**<2020**	ug/kg	2290	2020	8	02/20/23 08:30	02/21/23 12:40	75-25-2	
Bromomethane	**<643**	ug/kg	2290	643	8	02/20/23 08:30	02/21/23 12:40	74-83-9	
Carbon tetrachloride	**<101**	ug/kg	459	101	8	02/20/23 08:30	02/21/23 12:40	56-23-5	
Chlorobenzene	**<55.0**	ug/kg	459	55.0	8	02/20/23 08:30	02/21/23 12:40	108-90-7	
Chloroethane	**<194**	ug/kg	2290	194	8	02/20/23 08:30	02/21/23 12:40	75-00-3	
Chloroform	**<329**	ug/kg	2290	329	8	02/20/23 08:30	02/21/23 12:40	67-66-3	
Chloromethane	**<174**	ug/kg	459	174	8	02/20/23 08:30	02/21/23 12:40	74-87-3	
Dibromochloromethane	**<1570**	ug/kg	2290	1570	8	02/20/23 08:30	02/21/23 12:40	124-48-1	
Dibromomethane	**<136**	ug/kg	459	136	8	02/20/23 08:30	02/21/23 12:40	74-95-3	
Dichlorodifluoromethane	**<197**	ug/kg	459	197	8	02/20/23 08:30	02/21/23 12:40	75-71-8	
Diisopropyl ether	**<114**	ug/kg	459	114	8	02/20/23 08:30	02/21/23 12:40	108-20-3	
Ethylbenzene	**<109**	ug/kg	459	109	8	02/20/23 08:30	02/21/23 12:40	100-41-4	
Hexachloro-1,3-butadiene	**<912**	ug/kg	2290	912	8	02/20/23 08:30	02/21/23 12:40	87-68-3	
Isopropylbenzene (Cumene)	**<124**	ug/kg	459	124	8	02/20/23 08:30	02/21/23 12:40	98-82-8	
Methyl-tert-butyl ether	**<135**	ug/kg	459	135	8	02/20/23 08:30	02/21/23 12:40	1634-04-4	
Methylene Chloride	**<128**	ug/kg	459	128	8	02/20/23 08:30	02/21/23 12:40	75-09-2	
Naphthalene	**<143**	ug/kg	2290	143	8	02/20/23 08:30	02/21/23 12:40	91-20-3	
Styrene	**<117**	ug/kg	459	117	8	02/20/23 08:30	02/21/23 12:40	100-42-5	
Tetrachloroethene	**<178**	ug/kg	459	178	8	02/20/23 08:30	02/21/23 12:40	127-18-4	
Toluene	**<116**	ug/kg	459	116	8	02/20/23 08:30	02/21/23 12:40	108-88-3	
Trichloroethene	**30900**	ug/kg	459	172	8	02/20/23 08:30	02/21/23 12:40	79-01-6	
Trichlorofluoromethane	**<133**	ug/kg	459	133	8	02/20/23 08:30	02/21/23 12:40	75-69-4	
Vinyl chloride	**<92.7**	ug/kg	459	92.7	8	02/20/23 08:30	02/21/23 12:40	75-01-4	
cis-1,2-Dichloroethene	**2710**	ug/kg	459	98.2	8	02/20/23 08:30	02/21/23 12:40	156-59-2	
cis-1,3-Dichloropropene	**<303**	ug/kg	2290	303	8	02/20/23 08:30	02/21/23 12:40	10061-01-5	
m&p-Xylene	**<194**	ug/kg	918	194	8	02/20/23 08:30	02/21/23 12:40	179601-23-1	
n-Butylbenzene	**<210**	ug/kg	459	210	8	02/20/23 08:30	02/21/23 12:40	104-51-8	
n-Propylbenzene	**<110**	ug/kg	459	110	8	02/20/23 08:30	02/21/23 12:40	103-65-1	
o-Xylene	**<138**	ug/kg	459	138	8	02/20/23 08:30	02/21/23 12:40	95-47-6	
p-Isopropyltoluene	**<140**	ug/kg	459	140	8	02/20/23 08:30	02/21/23 12:40	99-87-6	
sec-Butylbenzene	**<112**	ug/kg	459	112	8	02/20/23 08:30	02/21/23 12:40	135-98-8	
tert-Butylbenzene	**<144**	ug/kg	459	144	8	02/20/23 08:30	02/21/23 12:40	98-06-6	
trans-1,2-Dichloroethene	**<99.1**	ug/kg	459	99.1	8	02/20/23 08:30	02/21/23 12:40	156-60-5	
trans-1,3-Dichloropropene	**<1310**	ug/kg	2290	1310	8	02/20/23 08:30	02/21/23 12:40	10061-02-6	
Surrogates									
Toluene-d8 (S)	102	%	69-153		8	02/20/23 08:30	02/21/23 12:40	2037-26-5	
4-Bromofluorobenzene (S)	117	%	68-156		8	02/20/23 08:30	02/21/23 12:40	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-13-2023 (11-12) DUP **Lab ID: 40258372015** Collected: 02/15/23 09:38 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Surrogates									
1,2-Dichlorobenzene-d4 (S)	119	%	71-161		8	02/20/23 08:30	02/21/23 12:40	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**6.9**	%	0.10	0.10	1		02/22/23 09:38		

Sample: GP-14-2023 (11-12) **Lab ID: 40258372016** Collected: 02/15/23 10:10 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<14.4**	ug/kg	59.8	14.4	1	02/20/23 08:30	02/21/23 12:00	630-20-6	
1,1,1-Trichloroethane	**<15.3**	ug/kg	59.8	15.3	1	02/20/23 08:30	02/21/23 12:00	71-55-6	
1,1,2,2-Tetrachloroethane	**<21.7**	ug/kg	59.8	21.7	1	02/20/23 08:30	02/21/23 12:00	79-34-5	
1,1,2-Trichloroethane	**<21.8**	ug/kg	59.8	21.8	1	02/20/23 08:30	02/21/23 12:00	79-00-5	
1,1-Dichloroethane	**<15.3**	ug/kg	59.8	15.3	1	02/20/23 08:30	02/21/23 12:00	75-34-3	
1,1-Dichloroethene	**<19.9**	ug/kg	59.8	19.9	1	02/20/23 08:30	02/21/23 12:00	75-35-4	
1,1-Dichloropropene	**<19.4**	ug/kg	59.8	19.4	1	02/20/23 08:30	02/21/23 12:00	563-58-6	
1,2,3-Trichlorobenzene	**<66.7**	ug/kg	299	66.7	1	02/20/23 08:30	02/21/23 12:00	87-61-6	
1,2,3-Trichloropropane	**<29.1**	ug/kg	59.8	29.1	1	02/20/23 08:30	02/21/23 12:00	96-18-4	
1,2,4-Trichlorobenzene	**<49.3**	ug/kg	299	49.3	1	02/20/23 08:30	02/21/23 12:00	120-82-1	
1,2,4-Trimethylbenzene	**<17.8**	ug/kg	59.8	17.8	1	02/20/23 08:30	02/21/23 12:00	95-63-6	
1,2-Dibromo-3-chloropropane	**<46.4**	ug/kg	299	46.4	1	02/20/23 08:30	02/21/23 12:00	96-12-8	
1,2-Dibromoethane (EDB)	**<16.4**	ug/kg	59.8	16.4	1	02/20/23 08:30	02/21/23 12:00	106-93-4	
1,2-Dichlorobenzene	**<18.6**	ug/kg	59.8	18.6	1	02/20/23 08:30	02/21/23 12:00	95-50-1	
1,2-Dichloroethane	**<13.8**	ug/kg	59.8	13.8	1	02/20/23 08:30	02/21/23 12:00	107-06-2	
1,2-Dichloropropane	**<14.2**	ug/kg	59.8	14.2	1	02/20/23 08:30	02/21/23 12:00	78-87-5	
1,3,5-Trimethylbenzene	**<19.3**	ug/kg	59.8	19.3	1	02/20/23 08:30	02/21/23 12:00	108-67-8	
1,3-Dichlorobenzene	**<16.4**	ug/kg	59.8	16.4	1	02/20/23 08:30	02/21/23 12:00	541-73-1	
1,3-Dichloropropane	**<13.0**	ug/kg	59.8	13.0	1	02/20/23 08:30	02/21/23 12:00	142-28-9	
1,4-Dichlorobenzene	**<16.4**	ug/kg	59.8	16.4	1	02/20/23 08:30	02/21/23 12:00	106-46-7	
2,2-Dichloropropane	**<16.2**	ug/kg	59.8	16.2	1	02/20/23 08:30	02/21/23 12:00	594-20-7	
2-Chlorotoluene	**<19.4**	ug/kg	59.8	19.4	1	02/20/23 08:30	02/21/23 12:00	95-49-8	
4-Chlorotoluene	**<22.7**	ug/kg	59.8	22.7	1	02/20/23 08:30	02/21/23 12:00	106-43-4	
Benzene	**<14.2**	ug/kg	23.9	14.2	1	02/20/23 08:30	02/21/23 12:00	71-43-2	
Bromobenzene	**<23.3**	ug/kg	59.8	23.3	1	02/20/23 08:30	02/21/23 12:00	108-86-1	
Bromochloromethane	**<16.4**	ug/kg	59.8	16.4	1	02/20/23 08:30	02/21/23 12:00	74-97-5	
Bromodichloromethane	**<14.2**	ug/kg	59.8	14.2	1	02/20/23 08:30	02/21/23 12:00	75-27-4	
Bromoform	**<263**	ug/kg	299	263	1	02/20/23 08:30	02/21/23 12:00	75-25-2	
Bromomethane	**<83.9**	ug/kg	299	83.9	1	02/20/23 08:30	02/21/23 12:00	74-83-9	

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-14-2023 (11-12) **Lab ID: 40258372016** Collected: 02/15/23 10:10 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Carbon tetrachloride	**<13.2**	ug/kg	59.8	13.2	1	02/20/23 08:30	02/21/23 12:00	56-23-5	
Chlorobenzene	**<7.2**	ug/kg	59.8	7.2	1	02/20/23 08:30	02/21/23 12:00	108-90-7	
Chloroethane	**<25.3**	ug/kg	299	25.3	1	02/20/23 08:30	02/21/23 12:00	75-00-3	
Chloroform	**<42.8**	ug/kg	299	42.8	1	02/20/23 08:30	02/21/23 12:00	67-66-3	
Chloromethane	**<22.7**	ug/kg	59.8	22.7	1	02/20/23 08:30	02/21/23 12:00	74-87-3	
Dibromochloromethane	**<205**	ug/kg	299	205	1	02/20/23 08:30	02/21/23 12:00	124-48-1	
Dibromomethane	**<17.7**	ug/kg	59.8	17.7	1	02/20/23 08:30	02/21/23 12:00	74-95-3	
Dichlorodifluoromethane	**<25.7**	ug/kg	59.8	25.7	1	02/20/23 08:30	02/21/23 12:00	75-71-8	
Diisopropyl ether	**<14.8**	ug/kg	59.8	14.8	1	02/20/23 08:30	02/21/23 12:00	108-20-3	
Ethylbenzene	**<14.2**	ug/kg	59.8	14.2	1	02/20/23 08:30	02/21/23 12:00	100-41-4	
Hexachloro-1,3-butadiene	**<119**	ug/kg	299	119	1	02/20/23 08:30	02/21/23 12:00	87-68-3	
Isopropylbenzene (Cumene)	**<16.2**	ug/kg	59.8	16.2	1	02/20/23 08:30	02/21/23 12:00	98-82-8	
Methyl-tert-butyl ether	**<17.6**	ug/kg	59.8	17.6	1	02/20/23 08:30	02/21/23 12:00	1634-04-4	
Methylene Chloride	**<16.6**	ug/kg	59.8	16.6	1	02/20/23 08:30	02/21/23 12:00	75-09-2	
Naphthalene	**<18.7**	ug/kg	299	18.7	1	02/20/23 08:30	02/21/23 12:00	91-20-3	
Styrene	**<15.3**	ug/kg	59.8	15.3	1	02/20/23 08:30	02/21/23 12:00	100-42-5	
Tetrachloroethene	**<23.2**	ug/kg	59.8	23.2	1	02/20/23 08:30	02/21/23 12:00	127-18-4	
Toluene	**<15.1**	ug/kg	59.8	15.1	1	02/20/23 08:30	02/21/23 12:00	108-88-3	
Trichloroethene	**80.5**	ug/kg	59.8	22.4	1	02/20/23 08:30	02/21/23 12:00	79-01-6	
Trichlorofluoromethane	**<17.4**	ug/kg	59.8	17.4	1	02/20/23 08:30	02/21/23 12:00	75-69-4	
Vinyl chloride	**<12.1**	ug/kg	59.8	12.1	1	02/20/23 08:30	02/21/23 12:00	75-01-4	
cis-1,2-Dichloroethene	**33.6J**	ug/kg	59.8	12.8	1	02/20/23 08:30	02/21/23 12:00	156-59-2	
cis-1,3-Dichloropropene	**<39.5**	ug/kg	299	39.5	1	02/20/23 08:30	02/21/23 12:00	10061-01-5	
m&p-Xylene	**<25.3**	ug/kg	120	25.3	1	02/20/23 08:30	02/21/23 12:00	179601-23-1	
n-Butylbenzene	**<27.4**	ug/kg	59.8	27.4	1	02/20/23 08:30	02/21/23 12:00	104-51-8	
n-Propylbenzene	**<14.4**	ug/kg	59.8	14.4	1	02/20/23 08:30	02/21/23 12:00	103-65-1	
o-Xylene	**<18.0**	ug/kg	59.8	18.0	1	02/20/23 08:30	02/21/23 12:00	95-47-6	
p-Isopropyltoluene	**<18.2**	ug/kg	59.8	18.2	1	02/20/23 08:30	02/21/23 12:00	99-87-6	
sec-Butylbenzene	**<14.6**	ug/kg	59.8	14.6	1	02/20/23 08:30	02/21/23 12:00	135-98-8	
tert-Butylbenzene	**<18.8**	ug/kg	59.8	18.8	1	02/20/23 08:30	02/21/23 12:00	98-06-6	
trans-1,2-Dichloroethene	**<12.9**	ug/kg	59.8	12.9	1	02/20/23 08:30	02/21/23 12:00	156-60-5	
trans-1,3-Dichloropropene	**<171**	ug/kg	299	171	1	02/20/23 08:30	02/21/23 12:00	10061-02-6	
Surrogates									
Toluene-d8 (S)	113	%	69-153		1	02/20/23 08:30	02/21/23 12:00	2037-26-5	
4-Bromofluorobenzene (S)	127	%	68-156		1	02/20/23 08:30	02/21/23 12:00	460-00-4	
1,2-Dichlorobenzene-d4 (S)	124	%	71-161		1	02/20/23 08:30	02/21/23 12:00	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**9.0**	%	0.10	0.10	1		02/22/23 09:38		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-15-2023 (11-12) **Lab ID: 40258372017** Collected: 02/15/23 10:50 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<14.3**	ug/kg	59.8	14.3	1	02/20/23 08:30	02/20/23 21:25	630-20-6	
1,1,1-Trichloroethane	**<15.3**	ug/kg	59.8	15.3	1	02/20/23 08:30	02/20/23 21:25	71-55-6	
1,1,2,2-Tetrachloroethane	**<21.6**	ug/kg	59.8	21.6	1	02/20/23 08:30	02/20/23 21:25	79-34-5	
1,1,2-Trichloroethane	**<21.8**	ug/kg	59.8	21.8	1	02/20/23 08:30	02/20/23 21:25	79-00-5	
1,1-Dichloroethane	**<15.3**	ug/kg	59.8	15.3	1	02/20/23 08:30	02/20/23 21:25	75-34-3	
1,1-Dichloroethene	**<19.8**	ug/kg	59.8	19.8	1	02/20/23 08:30	02/20/23 21:25	75-35-4	
1,1-Dichloropropene	**<19.4**	ug/kg	59.8	19.4	1	02/20/23 08:30	02/20/23 21:25	563-58-6	
1,2,3-Trichlorobenzene	**<66.6**	ug/kg	299	66.6	1	02/20/23 08:30	02/20/23 21:25	87-61-6	
1,2,3-Trichloropropane	**<29.1**	ug/kg	59.8	29.1	1	02/20/23 08:30	02/20/23 21:25	96-18-4	
1,2,4-Trichlorobenzene	**<49.3**	ug/kg	299	49.3	1	02/20/23 08:30	02/20/23 21:25	120-82-1	
1,2,4-Trimethylbenzene	**<17.8**	ug/kg	59.8	17.8	1	02/20/23 08:30	02/20/23 21:25	95-63-6	
1,2-Dibromo-3-chloropropane	**<46.4**	ug/kg	299	46.4	1	02/20/23 08:30	02/20/23 21:25	96-12-8	
1,2-Dibromoethane (EDB)	**<16.4**	ug/kg	59.8	16.4	1	02/20/23 08:30	02/20/23 21:25	106-93-4	
1,2-Dichlorobenzene	**<18.5**	ug/kg	59.8	18.5	1	02/20/23 08:30	02/20/23 21:25	95-50-1	
1,2-Dichloroethane	**<13.7**	ug/kg	59.8	13.7	1	02/20/23 08:30	02/20/23 21:25	107-06-2	
1,2-Dichloropropane	**<14.2**	ug/kg	59.8	14.2	1	02/20/23 08:30	02/20/23 21:25	78-87-5	
1,3,5-Trimethylbenzene	**<19.2**	ug/kg	59.8	19.2	1	02/20/23 08:30	02/20/23 21:25	108-67-8	
1,3-Dichlorobenzene	**<16.4**	ug/kg	59.8	16.4	1	02/20/23 08:30	02/20/23 21:25	541-73-1	
1,3-Dichloropropane	**<13.0**	ug/kg	59.8	13.0	1	02/20/23 08:30	02/20/23 21:25	142-28-9	
1,4-Dichlorobenzene	**<16.4**	ug/kg	59.8	16.4	1	02/20/23 08:30	02/20/23 21:25	106-46-7	
2,2-Dichloropropane	**<16.1**	ug/kg	59.8	16.1	1	02/20/23 08:30	02/20/23 21:25	594-20-7	
2-Chlorotoluene	**<19.4**	ug/kg	59.8	19.4	1	02/20/23 08:30	02/20/23 21:25	95-49-8	
4-Chlorotoluene	**<22.7**	ug/kg	59.8	22.7	1	02/20/23 08:30	02/20/23 21:25	106-43-4	
Benzene	**<14.2**	ug/kg	23.9	14.2	1	02/20/23 08:30	02/20/23 21:25	71-43-2	
Bromobenzene	**<23.3**	ug/kg	59.8	23.3	1	02/20/23 08:30	02/20/23 21:25	108-86-1	
Bromochloromethane	**<16.4**	ug/kg	59.8	16.4	1	02/20/23 08:30	02/20/23 21:25	74-97-5	
Bromodichloromethane	**<14.2**	ug/kg	59.8	14.2	1	02/20/23 08:30	02/20/23 21:25	75-27-4	
Bromoform	**<263**	ug/kg	299	263	1	02/20/23 08:30	02/20/23 21:25	75-25-2	
Bromomethane	**<83.8**	ug/kg	299	83.8	1	02/20/23 08:30	02/20/23 21:25	74-83-9	
Carbon tetrachloride	**<13.2**	ug/kg	59.8	13.2	1	02/20/23 08:30	02/20/23 21:25	56-23-5	
Chlorobenzene	**<7.2**	ug/kg	59.8	7.2	1	02/20/23 08:30	02/20/23 21:25	108-90-7	
Chloroethane	**<25.2**	ug/kg	299	25.2	1	02/20/23 08:30	02/20/23 21:25	75-00-3	
Chloroform	**<42.8**	ug/kg	299	42.8	1	02/20/23 08:30	02/20/23 21:25	67-66-3	
Chloromethane	**<22.7**	ug/kg	59.8	22.7	1	02/20/23 08:30	02/20/23 21:25	74-87-3	
Dibromochloromethane	**<204**	ug/kg	299	204	1	02/20/23 08:30	02/20/23 21:25	124-48-1	
Dibromomethane	**<17.7**	ug/kg	59.8	17.7	1	02/20/23 08:30	02/20/23 21:25	74-95-3	
Dichlorodifluoromethane	**<25.7**	ug/kg	59.8	25.7	1	02/20/23 08:30	02/20/23 21:25	75-71-8	
Diisopropyl ether	**<14.8**	ug/kg	59.8	14.8	1	02/20/23 08:30	02/20/23 21:25	108-20-3	
Ethylbenzene	**<14.2**	ug/kg	59.8	14.2	1	02/20/23 08:30	02/20/23 21:25	100-41-4	
Hexachloro-1,3-butadiene	**<119**	ug/kg	299	119	1	02/20/23 08:30	02/20/23 21:25	87-68-3	
Isopropylbenzene (Cumene)	**<16.1**	ug/kg	59.8	16.1	1	02/20/23 08:30	02/20/23 21:25	98-82-8	
Methyl-tert-butyl ether	**<17.6**	ug/kg	59.8	17.6	1	02/20/23 08:30	02/20/23 21:25	1634-04-4	
Methylene Chloride	**<16.6**	ug/kg	59.8	16.6	1	02/20/23 08:30	02/20/23 21:25	75-09-2	
Naphthalene	**<18.7**	ug/kg	299	18.7	1	02/20/23 08:30	02/20/23 21:25	91-20-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-15-2023 (11-12) **Lab ID: 40258372017** Collected: 02/15/23 10:50 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Styrene	**<15.3**	ug/kg	59.8	15.3	1	02/20/23 08:30	02/20/23 21:25	100-42-5	
Tetrachloroethene	**<23.2**	ug/kg	59.8	23.2	1	02/20/23 08:30	02/20/23 21:25	127-18-4	
Toluene	**<15.1**	ug/kg	59.8	15.1	1	02/20/23 08:30	02/20/23 21:25	108-88-3	
Trichloroethene	**<22.4**	ug/kg	59.8	22.4	1	02/20/23 08:30	02/20/23 21:25	79-01-6	
Trichlorofluoromethane	**<17.3**	ug/kg	59.8	17.3	1	02/20/23 08:30	02/20/23 21:25	75-69-4	
Vinyl chloride	**<12.1**	ug/kg	59.8	12.1	1	02/20/23 08:30	02/20/23 21:25	75-01-4	
cis-1,2-Dichloroethene	**<12.8**	ug/kg	59.8	12.8	1	02/20/23 08:30	02/20/23 21:25	156-59-2	
cis-1,3-Dichloropropene	**<39.5**	ug/kg	299	39.5	1	02/20/23 08:30	02/20/23 21:25	10061-01-5	
m&p-Xylene	**<25.2**	ug/kg	120	25.2	1	02/20/23 08:30	02/20/23 21:25	179601-23-1	
n-Butylbenzene	**<27.4**	ug/kg	59.8	27.4	1	02/20/23 08:30	02/20/23 21:25	104-51-8	
n-Propylbenzene	**<14.3**	ug/kg	59.8	14.3	1	02/20/23 08:30	02/20/23 21:25	103-65-1	
o-Xylene	**<17.9**	ug/kg	59.8	17.9	1	02/20/23 08:30	02/20/23 21:25	95-47-6	
p-Isopropyltoluene	**<18.2**	ug/kg	59.8	18.2	1	02/20/23 08:30	02/20/23 21:25	99-87-6	
sec-Butylbenzene	**<14.6**	ug/kg	59.8	14.6	1	02/20/23 08:30	02/20/23 21:25	135-98-8	
tert-Butylbenzene	**<18.8**	ug/kg	59.8	18.8	1	02/20/23 08:30	02/20/23 21:25	98-06-6	
trans-1,2-Dichloroethene	**<12.9**	ug/kg	59.8	12.9	1	02/20/23 08:30	02/20/23 21:25	156-60-5	
trans-1,3-Dichloropropene	**<171**	ug/kg	299	171	1	02/20/23 08:30	02/20/23 21:25	10061-02-6	
Surrogates									
Toluene-d8 (S)	110	%	69-153		1	02/20/23 08:30	02/20/23 21:25	2037-26-5	
4-Bromofluorobenzene (S)	124	%	68-156		1	02/20/23 08:30	02/20/23 21:25	460-00-4	
1,2-Dichlorobenzene-d4 (S)	119	%	71-161		1	02/20/23 08:30	02/20/23 21:25	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**8.9**	%	0.10	0.10	1		02/22/23 09:39		

Sample: GP-16-2023 (8-9) **Lab ID: 40258372018** Collected: 02/15/23 11:25 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<13.9**	ug/kg	58.0	13.9	1	02/20/23 08:30	02/20/23 21:44	630-20-6	
1,1,1-Trichloroethane	**<14.8**	ug/kg	58.0	14.8	1	02/20/23 08:30	02/20/23 21:44	71-55-6	
1,1,2,2-Tetrachloroethane	**<21.0**	ug/kg	58.0	21.0	1	02/20/23 08:30	02/20/23 21:44	79-34-5	
1,1,2-Trichloroethane	**<21.1**	ug/kg	58.0	21.1	1	02/20/23 08:30	02/20/23 21:44	79-00-5	
1,1-Dichloroethane	**<14.8**	ug/kg	58.0	14.8	1	02/20/23 08:30	02/20/23 21:44	75-34-3	
1,1-Dichloroethene	**<19.2**	ug/kg	58.0	19.2	1	02/20/23 08:30	02/20/23 21:44	75-35-4	
1,1-Dichloropropene	**<18.8**	ug/kg	58.0	18.8	1	02/20/23 08:30	02/20/23 21:44	563-58-6	
1,2,3-Trichlorobenzene	**<64.6**	ug/kg	290	64.6	1	02/20/23 08:30	02/20/23 21:44	87-61-6	
1,2,3-Trichloropropane	**<28.2**	ug/kg	58.0	28.2	1	02/20/23 08:30	02/20/23 21:44	96-18-4	
1,2,4-Trichlorobenzene	**<47.8**	ug/kg	290	47.8	1	02/20/23 08:30	02/20/23 21:44	120-82-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-16-2023 (8-9) **Lab ID: 40258372018** Collected: 02/15/23 11:25 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,2,4-Trimethylbenzene	**<17.3**	ug/kg	58.0	17.3	1	02/20/23 08:30	02/20/23 21:44	95-63-6	
1,2-Dibromo-3-chloropropane	**<45.0**	ug/kg	290	45.0	1	02/20/23 08:30	02/20/23 21:44	96-12-8	
1,2-Dibromoethane (EDB)	**<15.9**	ug/kg	58.0	15.9	1	02/20/23 08:30	02/20/23 21:44	106-93-4	
1,2-Dichlorobenzene	**<18.0**	ug/kg	58.0	18.0	1	02/20/23 08:30	02/20/23 21:44	95-50-1	
1,2-Dichloroethane	**<13.3**	ug/kg	58.0	13.3	1	02/20/23 08:30	02/20/23 21:44	107-06-2	
1,2-Dichloropropane	**<13.8**	ug/kg	58.0	13.8	1	02/20/23 08:30	02/20/23 21:44	78-87-5	
1,3,5-Trimethylbenzene	**<18.7**	ug/kg	58.0	18.7	1	02/20/23 08:30	02/20/23 21:44	108-67-8	
1,3-Dichlorobenzene	**<15.9**	ug/kg	58.0	15.9	1	02/20/23 08:30	02/20/23 21:44	541-73-1	
1,3-Dichloropropane	**<12.6**	ug/kg	58.0	12.6	1	02/20/23 08:30	02/20/23 21:44	142-28-9	
1,4-Dichlorobenzene	**<15.9**	ug/kg	58.0	15.9	1	02/20/23 08:30	02/20/23 21:44	106-46-7	
2,2-Dichloropropane	**<15.7**	ug/kg	58.0	15.7	1	02/20/23 08:30	02/20/23 21:44	594-20-7	
2-Chlorotoluene	**<18.8**	ug/kg	58.0	18.8	1	02/20/23 08:30	02/20/23 21:44	95-49-8	
4-Chlorotoluene	**<22.0**	ug/kg	58.0	22.0	1	02/20/23 08:30	02/20/23 21:44	106-43-4	
Benzene	**<13.8**	ug/kg	23.2	13.8	1	02/20/23 08:30	02/20/23 21:44	71-43-2	
Bromobenzene	**<22.6**	ug/kg	58.0	22.6	1	02/20/23 08:30	02/20/23 21:44	108-86-1	
Bromochloromethane	**<15.9**	ug/kg	58.0	15.9	1	02/20/23 08:30	02/20/23 21:44	74-97-5	
Bromodichloromethane	**<13.8**	ug/kg	58.0	13.8	1	02/20/23 08:30	02/20/23 21:44	75-27-4	
Bromoform	**<255**	ug/kg	290	255	1	02/20/23 08:30	02/20/23 21:44	75-25-2	
Bromomethane	**<81.3**	ug/kg	290	81.3	1	02/20/23 08:30	02/20/23 21:44	74-83-9	
Carbon tetrachloride	**<12.8**	ug/kg	58.0	12.8	1	02/20/23 08:30	02/20/23 21:44	56-23-5	
Chlorobenzene	**<6.9**	ug/kg	58.0	6.9	1	02/20/23 08:30	02/20/23 21:44	108-90-7	
Chloroethane	**<24.5**	ug/kg	290	24.5	1	02/20/23 08:30	02/20/23 21:44	75-00-3	
Chloroform	**<41.5**	ug/kg	290	41.5	1	02/20/23 08:30	02/20/23 21:44	67-66-3	
Chloromethane	**<22.0**	ug/kg	58.0	22.0	1	02/20/23 08:30	02/20/23 21:44	74-87-3	
Dibromochloromethane	**<198**	ug/kg	290	198	1	02/20/23 08:30	02/20/23 21:44	124-48-1	
Dibromomethane	**<17.2**	ug/kg	58.0	17.2	1	02/20/23 08:30	02/20/23 21:44	74-95-3	
Dichlorodifluoromethane	**<24.9**	ug/kg	58.0	24.9	1	02/20/23 08:30	02/20/23 21:44	75-71-8	
Diisopropyl ether	**<14.4**	ug/kg	58.0	14.4	1	02/20/23 08:30	02/20/23 21:44	108-20-3	
Ethylbenzene	**<13.8**	ug/kg	58.0	13.8	1	02/20/23 08:30	02/20/23 21:44	100-41-4	
Hexachloro-1,3-butadiene	**<115**	ug/kg	290	115	1	02/20/23 08:30	02/20/23 21:44	87-68-3	
Isopropylbenzene (Cumene)	**<15.7**	ug/kg	58.0	15.7	1	02/20/23 08:30	02/20/23 21:44	98-82-8	
Methyl-tert-butyl ether	**<17.0**	ug/kg	58.0	17.0	1	02/20/23 08:30	02/20/23 21:44	1634-04-4	
Methylene Chloride	**18.1J**	ug/kg	58.0	16.1	1	02/20/23 08:30	02/20/23 21:44	75-09-2	
Naphthalene	**<18.1**	ug/kg	290	18.1	1	02/20/23 08:30	02/20/23 21:44	91-20-3	
Styrene	**<14.8**	ug/kg	58.0	14.8	1	02/20/23 08:30	02/20/23 21:44	100-42-5	
Tetrachloroethene	**<22.5**	ug/kg	58.0	22.5	1	02/20/23 08:30	02/20/23 21:44	127-18-4	
Toluene	**<14.6**	ug/kg	58.0	14.6	1	02/20/23 08:30	02/20/23 21:44	108-88-3	
Trichloroethene	**38.4J**	ug/kg	58.0	21.7	1	02/20/23 08:30	02/20/23 21:44	79-01-6	
Trichlorofluoromethane	**<16.8**	ug/kg	58.0	16.8	1	02/20/23 08:30	02/20/23 21:44	75-69-4	
Vinyl chloride	**<11.7**	ug/kg	58.0	11.7	1	02/20/23 08:30	02/20/23 21:44	75-01-4	
cis-1,2-Dichloroethene	**15.9J**	ug/kg	58.0	12.4	1	02/20/23 08:30	02/20/23 21:44	156-59-2	
cis-1,3-Dichloropropene	**<38.3**	ug/kg	290	38.3	1	02/20/23 08:30	02/20/23 21:44	10061-01-5	
m&p-Xylene	**<24.5**	ug/kg	116	24.5	1	02/20/23 08:30	02/20/23 21:44	179601-23-1	
n-Butylbenzene	**<26.6**	ug/kg	58.0	26.6	1	02/20/23 08:30	02/20/23 21:44	104-51-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-16-2023 (8-9) **Lab ID: 40258372018** Collected: 02/15/23 11:25 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
n-Propylbenzene	**<13.9**	ug/kg	58.0	13.9	1	02/20/23 08:30	02/20/23 21:44	103-65-1	
o-Xylene	**<17.4**	ug/kg	58.0	17.4	1	02/20/23 08:30	02/20/23 21:44	95-47-6	
p-Isopropyltoluene	**<17.6**	ug/kg	58.0	17.6	1	02/20/23 08:30	02/20/23 21:44	99-87-6	
sec-Butylbenzene	**<14.1**	ug/kg	58.0	14.1	1	02/20/23 08:30	02/20/23 21:44	135-98-8	
tert-Butylbenzene	**<18.2**	ug/kg	58.0	18.2	1	02/20/23 08:30	02/20/23 21:44	98-06-6	
trans-1,2-Dichloroethene	**<12.5**	ug/kg	58.0	12.5	1	02/20/23 08:30	02/20/23 21:44	156-60-5	
trans-1,3-Dichloropropene	**<166**	ug/kg	290	166	1	02/20/23 08:30	02/20/23 21:44	10061-02-6	
Surrogates									
Toluene-d8 (S)	125	%	69-153		1	02/20/23 08:30	02/20/23 21:44	2037-26-5	
4-Bromofluorobenzene (S)	137	%	68-156		1	02/20/23 08:30	02/20/23 21:44	460-00-4	
1,2-Dichlorobenzene-d4 (S)	134	%	71-161		1	02/20/23 08:30	02/20/23 21:44	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**7.4**	%	0.10	0.10	1		02/22/23 09:39		

Sample: GP-17-2023 (9-10) **Lab ID: 40258372019** Collected: 02/15/23 11:55 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<14.6**	ug/kg	60.9	14.6	1	02/20/23 08:30	02/20/23 22:04	630-20-6	
1,1,1-Trichloroethane	**<15.6**	ug/kg	60.9	15.6	1	02/20/23 08:30	02/20/23 22:04	71-55-6	
1,1,2,2-Tetrachloroethane	**<22.0**	ug/kg	60.9	22.0	1	02/20/23 08:30	02/20/23 22:04	79-34-5	
1,1,2-Trichloroethane	**<22.2**	ug/kg	60.9	22.2	1	02/20/23 08:30	02/20/23 22:04	79-00-5	
1,1-Dichloroethane	**<15.6**	ug/kg	60.9	15.6	1	02/20/23 08:30	02/20/23 22:04	75-34-3	
1,1-Dichloroethene	**<20.2**	ug/kg	60.9	20.2	1	02/20/23 08:30	02/20/23 22:04	75-35-4	
1,1-Dichloropropene	**<19.7**	ug/kg	60.9	19.7	1	02/20/23 08:30	02/20/23 22:04	563-58-6	
1,2,3-Trichlorobenzene	**<67.8**	ug/kg	304	67.8	1	02/20/23 08:30	02/20/23 22:04	87-61-6	
1,2,3-Trichloropropane	**<29.6**	ug/kg	60.9	29.6	1	02/20/23 08:30	02/20/23 22:04	96-18-4	
1,2,4-Trichlorobenzene	**<50.1**	ug/kg	304	50.1	1	02/20/23 08:30	02/20/23 22:04	120-82-1	
1,2,4-Trimethylbenzene	**<18.1**	ug/kg	60.9	18.1	1	02/20/23 08:30	02/20/23 22:04	95-63-6	
1,2-Dibromo-3-chloropropane	**<47.2**	ug/kg	304	47.2	1	02/20/23 08:30	02/20/23 22:04	96-12-8	
1,2-Dibromoethane (EDB)	**<16.7**	ug/kg	60.9	16.7	1	02/20/23 08:30	02/20/23 22:04	106-93-4	
1,2-Dichlorobenzene	**<18.9**	ug/kg	60.9	18.9	1	02/20/23 08:30	02/20/23 22:04	95-50-1	
1,2-Dichloroethane	**<14.0**	ug/kg	60.9	14.0	1	02/20/23 08:30	02/20/23 22:04	107-06-2	
1,2-Dichloropropane	**<14.5**	ug/kg	60.9	14.5	1	02/20/23 08:30	02/20/23 22:04	78-87-5	
1,3,5-Trimethylbenzene	**<19.6**	ug/kg	60.9	19.6	1	02/20/23 08:30	02/20/23 22:04	108-67-8	
1,3-Dichlorobenzene	**<16.7**	ug/kg	60.9	16.7	1	02/20/23 08:30	02/20/23 22:04	541-73-1	
1,3-Dichloropropane	**<13.3**	ug/kg	60.9	13.3	1	02/20/23 08:30	02/20/23 22:04	142-28-9	
1,4-Dichlorobenzene	**<16.7**	ug/kg	60.9	16.7	1	02/20/23 08:30	02/20/23 22:04	106-46-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-17-2023 (9-10) **Lab ID: 40258372019** Collected: 02/15/23 11:55 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
2,2-Dichloropropane	**<16.4**	ug/kg	60.9	16.4	1	02/20/23 08:30	02/20/23 22:04	594-20-7	
2-Chlorotoluene	**<19.7**	ug/kg	60.9	19.7	1	02/20/23 08:30	02/20/23 22:04	95-49-8	
4-Chlorotoluene	**<23.1**	ug/kg	60.9	23.1	1	02/20/23 08:30	02/20/23 22:04	106-43-4	
Benzene	**<14.5**	ug/kg	24.3	14.5	1	02/20/23 08:30	02/20/23 22:04	71-43-2	
Bromobenzene	**<23.7**	ug/kg	60.9	23.7	1	02/20/23 08:30	02/20/23 22:04	108-86-1	
Bromochloromethane	**<16.7**	ug/kg	60.9	16.7	1	02/20/23 08:30	02/20/23 22:04	74-97-5	
Bromodichloromethane	**<14.5**	ug/kg	60.9	14.5	1	02/20/23 08:30	02/20/23 22:04	75-27-4	
Bromoform	**<268**	ug/kg	304	268	1	02/20/23 08:30	02/20/23 22:04	75-25-2	
Bromomethane	**<85.3**	ug/kg	304	85.3	1	02/20/23 08:30	02/20/23 22:04	74-83-9	
Carbon tetrachloride	**<13.4**	ug/kg	60.9	13.4	1	02/20/23 08:30	02/20/23 22:04	56-23-5	
Chlorobenzene	**<7.3**	ug/kg	60.9	7.3	1	02/20/23 08:30	02/20/23 22:04	108-90-7	
Chloroethane	**<25.7**	ug/kg	304	25.7	1	02/20/23 08:30	02/20/23 22:04	75-00-3	
Chloroform	**<43.6**	ug/kg	304	43.6	1	02/20/23 08:30	02/20/23 22:04	67-66-3	
Chloromethane	**<23.1**	ug/kg	60.9	23.1	1	02/20/23 08:30	02/20/23 22:04	74-87-3	
Dibromochloromethane	**<208**	ug/kg	304	208	1	02/20/23 08:30	02/20/23 22:04	124-48-1	
Dibromomethane	**<18.0**	ug/kg	60.9	18.0	1	02/20/23 08:30	02/20/23 22:04	74-95-3	
Dichlorodifluoromethane	**<26.2**	ug/kg	60.9	26.2	1	02/20/23 08:30	02/20/23 22:04	75-71-8	
Diisopropyl ether	**<15.1**	ug/kg	60.9	15.1	1	02/20/23 08:30	02/20/23 22:04	108-20-3	
Ethylbenzene	**<14.5**	ug/kg	60.9	14.5	1	02/20/23 08:30	02/20/23 22:04	100-41-4	
Hexachloro-1,3-butadiene	**<121**	ug/kg	304	121	1	02/20/23 08:30	02/20/23 22:04	87-68-3	
Isopropylbenzene (Cumene)	**<16.4**	ug/kg	60.9	16.4	1	02/20/23 08:30	02/20/23 22:04	98-82-8	
Methyl-tert-butyl ether	**<17.9**	ug/kg	60.9	17.9	1	02/20/23 08:30	02/20/23 22:04	1634-04-4	
Methylene Chloride	**17.2J**	ug/kg	60.9	16.9	1	02/20/23 08:30	02/20/23 22:04	75-09-2	
Naphthalene	**<19.0**	ug/kg	304	19.0	1	02/20/23 08:30	02/20/23 22:04	91-20-3	
Styrene	**<15.6**	ug/kg	60.9	15.6	1	02/20/23 08:30	02/20/23 22:04	100-42-5	
Tetrachloroethene	**<23.6**	ug/kg	60.9	23.6	1	02/20/23 08:30	02/20/23 22:04	127-18-4	
Toluene	**<15.3**	ug/kg	60.9	15.3	1	02/20/23 08:30	02/20/23 22:04	108-88-3	
Trichloroethene	**124**	ug/kg	60.9	22.8	1	02/20/23 08:30	02/20/23 22:04	79-01-6	
Trichlorofluoromethane	**<17.6**	ug/kg	60.9	17.6	1	02/20/23 08:30	02/20/23 22:04	75-69-4	
Vinyl chloride	**<12.3**	ug/kg	60.9	12.3	1	02/20/23 08:30	02/20/23 22:04	75-01-4	
cis-1,2-Dichloroethene	**29.8J**	ug/kg	60.9	13.0	1	02/20/23 08:30	02/20/23 22:04	156-59-2	
cis-1,3-Dichloropropene	**<40.2**	ug/kg	304	40.2	1	02/20/23 08:30	02/20/23 22:04	10061-01-5	
m&p-Xylene	**<25.7**	ug/kg	122	25.7	1	02/20/23 08:30	02/20/23 22:04	179601-23-1	
n-Butylbenzene	**<27.9**	ug/kg	60.9	27.9	1	02/20/23 08:30	02/20/23 22:04	104-51-8	
n-Propylbenzene	**<14.6**	ug/kg	60.9	14.6	1	02/20/23 08:30	02/20/23 22:04	103-65-1	
o-Xylene	**<18.3**	ug/kg	60.9	18.3	1	02/20/23 08:30	02/20/23 22:04	95-47-6	
p-Isopropyltoluene	**<18.5**	ug/kg	60.9	18.5	1	02/20/23 08:30	02/20/23 22:04	99-87-6	
sec-Butylbenzene	**<14.8**	ug/kg	60.9	14.8	1	02/20/23 08:30	02/20/23 22:04	135-98-8	
tert-Butylbenzene	**<19.1**	ug/kg	60.9	19.1	1	02/20/23 08:30	02/20/23 22:04	98-06-6	
trans-1,2-Dichloroethene	**<13.1**	ug/kg	60.9	13.1	1	02/20/23 08:30	02/20/23 22:04	156-60-5	
trans-1,3-Dichloropropene	**<174**	ug/kg	304	174	1	02/20/23 08:30	02/20/23 22:04	10061-02-6	
Surrogates									
Toluene-d8 (S)	121	%	69-153		1	02/20/23 08:30	02/20/23 22:04	2037-26-5	
4-Bromofluorobenzene (S)	134	%	68-156		1	02/20/23 08:30	02/20/23 22:04	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-17-2023 (9-10) **Lab ID: 40258372019** Collected: 02/15/23 11:55 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Surrogates									
1,2-Dichlorobenzene-d4 (S)	131	%	71-161		1	02/20/23 08:30	02/20/23 22:04	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**9.8**	%	0.10	0.10	1		02/22/23 09:39		

Sample: GP-17-2023 (9-10) DUP **Lab ID: 40258372020** Collected: 02/15/23 11:55 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<14.4**	ug/kg	60.1	14.4	1	02/20/23 08:30	02/20/23 22:24	630-20-6	
1,1,1-Trichloroethane	**<15.4**	ug/kg	60.1	15.4	1	02/20/23 08:30	02/20/23 22:24	71-55-6	
1,1,2,2-Tetrachloroethane	**<21.8**	ug/kg	60.1	21.8	1	02/20/23 08:30	02/20/23 22:24	79-34-5	
1,1,2-Trichloroethane	**<21.9**	ug/kg	60.1	21.9	1	02/20/23 08:30	02/20/23 22:24	79-00-5	
1,1-Dichloroethane	**<15.4**	ug/kg	60.1	15.4	1	02/20/23 08:30	02/20/23 22:24	75-34-3	
1,1-Dichloroethene	**<20.0**	ug/kg	60.1	20.0	1	02/20/23 08:30	02/20/23 22:24	75-35-4	
1,1-Dichloropropene	**<19.5**	ug/kg	60.1	19.5	1	02/20/23 08:30	02/20/23 22:24	563-58-6	
1,2,3-Trichlorobenzene	**<67.0**	ug/kg	301	67.0	1	02/20/23 08:30	02/20/23 22:24	87-61-6	
1,2,3-Trichloropropane	**<29.2**	ug/kg	60.1	29.2	1	02/20/23 08:30	02/20/23 22:24	96-18-4	
1,2,4-Trichlorobenzene	**<49.5**	ug/kg	301	49.5	1	02/20/23 08:30	02/20/23 22:24	120-82-1	
1,2,4-Trimethylbenzene	**<17.9**	ug/kg	60.1	17.9	1	02/20/23 08:30	02/20/23 22:24	95-63-6	
1,2-Dibromo-3-chloropropane	**<46.7**	ug/kg	301	46.7	1	02/20/23 08:30	02/20/23 22:24	96-12-8	
1,2-Dibromoethane (EDB)	**<16.5**	ug/kg	60.1	16.5	1	02/20/23 08:30	02/20/23 22:24	106-93-4	
1,2-Dichlorobenzene	**<18.6**	ug/kg	60.1	18.6	1	02/20/23 08:30	02/20/23 22:24	95-50-1	
1,2-Dichloroethane	**<13.8**	ug/kg	60.1	13.8	1	02/20/23 08:30	02/20/23 22:24	107-06-2	
1,2-Dichloropropane	**<14.3**	ug/kg	60.1	14.3	1	02/20/23 08:30	02/20/23 22:24	78-87-5	
1,3,5-Trimethylbenzene	**<19.4**	ug/kg	60.1	19.4	1	02/20/23 08:30	02/20/23 22:24	108-67-8	
1,3-Dichlorobenzene	**<16.5**	ug/kg	60.1	16.5	1	02/20/23 08:30	02/20/23 22:24	541-73-1	
1,3-Dichloropropane	**<13.1**	ug/kg	60.1	13.1	1	02/20/23 08:30	02/20/23 22:24	142-28-9	
1,4-Dichlorobenzene	**<16.5**	ug/kg	60.1	16.5	1	02/20/23 08:30	02/20/23 22:24	106-46-7	
2,2-Dichloropropane	**<16.2**	ug/kg	60.1	16.2	1	02/20/23 08:30	02/20/23 22:24	594-20-7	
2-Chlorotoluene	**<19.5**	ug/kg	60.1	19.5	1	02/20/23 08:30	02/20/23 22:24	95-49-8	
4-Chlorotoluene	**<22.8**	ug/kg	60.1	22.8	1	02/20/23 08:30	02/20/23 22:24	106-43-4	
Benzene	**<14.3**	ug/kg	24.0	14.3	1	02/20/23 08:30	02/20/23 22:24	71-43-2	
Bromobenzene	**<23.4**	ug/kg	60.1	23.4	1	02/20/23 08:30	02/20/23 22:24	108-86-1	
Bromochloromethane	**<16.5**	ug/kg	60.1	16.5	1	02/20/23 08:30	02/20/23 22:24	74-97-5	
Bromodichloromethane	**<14.3**	ug/kg	60.1	14.3	1	02/20/23 08:30	02/20/23 22:24	75-27-4	
Bromoform	**<265**	ug/kg	301	265	1	02/20/23 08:30	02/20/23 22:24	75-25-2	
Bromomethane	**<84.3**	ug/kg	301	84.3	1	02/20/23 08:30	02/20/23 22:24	74-83-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-17-2023 (9-10) DUP **Lab ID: 40258372020** Collected: 02/15/23 11:55 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Carbon tetrachloride	**<13.2**	ug/kg	60.1	13.2	1	02/20/23 08:30	02/20/23 22:24	56-23-5	
Chlorobenzene	**<7.2**	ug/kg	60.1	7.2	1	02/20/23 08:30	02/20/23 22:24	108-90-7	
Chloroethane	**<25.4**	ug/kg	301	25.4	1	02/20/23 08:30	02/20/23 22:24	75-00-3	
Chloroform	**<43.0**	ug/kg	301	43.0	1	02/20/23 08:30	02/20/23 22:24	67-66-3	
Chloromethane	**<22.8**	ug/kg	60.1	22.8	1	02/20/23 08:30	02/20/23 22:24	74-87-3	
Dibromochloromethane	**<206**	ug/kg	301	206	1	02/20/23 08:30	02/20/23 22:24	124-48-1	
Dibromomethane	**<17.8**	ug/kg	60.1	17.8	1	02/20/23 08:30	02/20/23 22:24	74-95-3	
Dichlorodifluoromethane	**<25.9**	ug/kg	60.1	25.9	1	02/20/23 08:30	02/20/23 22:24	75-71-8	
Diisopropyl ether	**<14.9**	ug/kg	60.1	14.9	1	02/20/23 08:30	02/20/23 22:24	108-20-3	
Ethylbenzene	**<14.3**	ug/kg	60.1	14.3	1	02/20/23 08:30	02/20/23 22:24	100-41-4	
Hexachloro-1,3-butadiene	**<120**	ug/kg	301	120	1	02/20/23 08:30	02/20/23 22:24	87-68-3	
Isopropylbenzene (Cumene)	**<16.2**	ug/kg	60.1	16.2	1	02/20/23 08:30	02/20/23 22:24	98-82-8	
Methyl-tert-butyl ether	**<17.7**	ug/kg	60.1	17.7	1	02/20/23 08:30	02/20/23 22:24	1634-04-4	
Methylene Chloride	**19.3J**	ug/kg	60.1	16.7	1	02/20/23 08:30	02/20/23 22:24	75-09-2	
Naphthalene	**<18.8**	ug/kg	301	18.8	1	02/20/23 08:30	02/20/23 22:24	91-20-3	
Styrene	**<15.4**	ug/kg	60.1	15.4	1	02/20/23 08:30	02/20/23 22:24	100-42-5	
Tetrachloroethene	**<23.3**	ug/kg	60.1	23.3	1	02/20/23 08:30	02/20/23 22:24	127-18-4	
Toluene	**<15.2**	ug/kg	60.1	15.2	1	02/20/23 08:30	02/20/23 22:24	108-88-3	
Trichloroethene	**432**	ug/kg	60.1	22.5	1	02/20/23 08:30	02/20/23 22:24	79-01-6	
Trichlorofluoromethane	**<17.4**	ug/kg	60.1	17.4	1	02/20/23 08:30	02/20/23 22:24	75-69-4	
Vinyl chloride	**<12.1**	ug/kg	60.1	12.1	1	02/20/23 08:30	02/20/23 22:24	75-01-4	
cis-1,2-Dichloroethene	**21.7J**	ug/kg	60.1	12.9	1	02/20/23 08:30	02/20/23 22:24	156-59-2	
cis-1,3-Dichloropropene	**<39.7**	ug/kg	301	39.7	1	02/20/23 08:30	02/20/23 22:24	10061-01-5	
m&p-Xylene	**<25.4**	ug/kg	120	25.4	1	02/20/23 08:30	02/20/23 22:24	179601-23-1	
n-Butylbenzene	**<27.5**	ug/kg	60.1	27.5	1	02/20/23 08:30	02/20/23 22:24	104-51-8	
n-Propylbenzene	**<14.4**	ug/kg	60.1	14.4	1	02/20/23 08:30	02/20/23 22:24	103-65-1	
o-Xylene	**<18.0**	ug/kg	60.1	18.0	1	02/20/23 08:30	02/20/23 22:24	95-47-6	
p-Isopropyltoluene	**<18.3**	ug/kg	60.1	18.3	1	02/20/23 08:30	02/20/23 22:24	99-87-6	
sec-Butylbenzene	**<14.7**	ug/kg	60.1	14.7	1	02/20/23 08:30	02/20/23 22:24	135-98-8	
tert-Butylbenzene	**<18.9**	ug/kg	60.1	18.9	1	02/20/23 08:30	02/20/23 22:24	98-06-6	
trans-1,2-Dichloroethene	**<13.0**	ug/kg	60.1	13.0	1	02/20/23 08:30	02/20/23 22:24	156-60-5	
trans-1,3-Dichloropropene	**<172**	ug/kg	301	172	1	02/20/23 08:30	02/20/23 22:24	10061-02-6	
Surrogates									
Toluene-d8 (S)	117	%	69-153		1	02/20/23 08:30	02/20/23 22:24	2037-26-5	
4-Bromofluorobenzene (S)	132	%	68-156		1	02/20/23 08:30	02/20/23 22:24	460-00-4	
1,2-Dichlorobenzene-d4 (S)	128	%	71-161		1	02/20/23 08:30	02/20/23 22:24	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**9.2**	%	0.10	0.10	1		02/22/23 09:39		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-18-2023 (11-12) **Lab ID: 40258372021** Collected: 02/15/23 12:35 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<13.5**	ug/kg	56.3	13.5	1	02/20/23 08:30	02/20/23 22:43	630-20-6	
1,1,1-Trichloroethane	**<14.4**	ug/kg	56.3	14.4	1	02/20/23 08:30	02/20/23 22:43	71-55-6	
1,1,2,2-Tetrachloroethane	**<20.4**	ug/kg	56.3	20.4	1	02/20/23 08:30	02/20/23 22:43	79-34-5	
1,1,2-Trichloroethane	**<20.5**	ug/kg	56.3	20.5	1	02/20/23 08:30	02/20/23 22:43	79-00-5	
1,1-Dichloroethane	**<14.4**	ug/kg	56.3	14.4	1	02/20/23 08:30	02/20/23 22:43	75-34-3	
1,1-Dichloroethene	**<18.7**	ug/kg	56.3	18.7	1	02/20/23 08:30	02/20/23 22:43	75-35-4	
1,1-Dichloropropene	**<18.2**	ug/kg	56.3	18.2	1	02/20/23 08:30	02/20/23 22:43	563-58-6	
1,2,3-Trichlorobenzene	**<62.7**	ug/kg	281	62.7	1	02/20/23 08:30	02/20/23 22:43	87-61-6	
1,2,3-Trichloropropane	**<27.3**	ug/kg	56.3	27.3	1	02/20/23 08:30	02/20/23 22:43	96-18-4	
1,2,4-Trichlorobenzene	**<46.4**	ug/kg	281	46.4	1	02/20/23 08:30	02/20/23 22:43	120-82-1	
1,2,4-Trimethylbenzene	**<16.8**	ug/kg	56.3	16.8	1	02/20/23 08:30	02/20/23 22:43	95-63-6	
1,2-Dibromo-3-chloropropane	**<43.7**	ug/kg	281	43.7	1	02/20/23 08:30	02/20/23 22:43	96-12-8	
1,2-Dibromoethane (EDB)	**<15.4**	ug/kg	56.3	15.4	1	02/20/23 08:30	02/20/23 22:43	106-93-4	
1,2-Dichlorobenzene	**<17.4**	ug/kg	56.3	17.4	1	02/20/23 08:30	02/20/23 22:43	95-50-1	
1,2-Dichloroethane	**<12.9**	ug/kg	56.3	12.9	1	02/20/23 08:30	02/20/23 22:43	107-06-2	
1,2-Dichloropropane	**<13.4**	ug/kg	56.3	13.4	1	02/20/23 08:30	02/20/23 22:43	78-87-5	
1,3,5-Trimethylbenzene	**<18.1**	ug/kg	56.3	18.1	1	02/20/23 08:30	02/20/23 22:43	108-67-8	
1,3-Dichlorobenzene	**<15.4**	ug/kg	56.3	15.4	1	02/20/23 08:30	02/20/23 22:43	541-73-1	
1,3-Dichloropropane	**<12.3**	ug/kg	56.3	12.3	1	02/20/23 08:30	02/20/23 22:43	142-28-9	
1,4-Dichlorobenzene	**<15.4**	ug/kg	56.3	15.4	1	02/20/23 08:30	02/20/23 22:43	106-46-7	
2,2-Dichloropropane	**<15.2**	ug/kg	56.3	15.2	1	02/20/23 08:30	02/20/23 22:43	594-20-7	
2-Chlorotoluene	**<18.2**	ug/kg	56.3	18.2	1	02/20/23 08:30	02/20/23 22:43	95-49-8	
4-Chlorotoluene	**<21.4**	ug/kg	56.3	21.4	1	02/20/23 08:30	02/20/23 22:43	106-43-4	
Benzene	**<13.4**	ug/kg	22.5	13.4	1	02/20/23 08:30	02/20/23 22:43	71-43-2	
Bromobenzene	**<21.9**	ug/kg	56.3	21.9	1	02/20/23 08:30	02/20/23 22:43	108-86-1	
Bromochloromethane	**<15.4**	ug/kg	56.3	15.4	1	02/20/23 08:30	02/20/23 22:43	74-97-5	
Bromodichloromethane	**<13.4**	ug/kg	56.3	13.4	1	02/20/23 08:30	02/20/23 22:43	75-27-4	
Bromoform	**<248**	ug/kg	281	248	1	02/20/23 08:30	02/20/23 22:43	75-25-2	
Bromomethane	**<78.9**	ug/kg	281	78.9	1	02/20/23 08:30	02/20/23 22:43	74-83-9	
Carbon tetrachloride	**<12.4**	ug/kg	56.3	12.4	1	02/20/23 08:30	02/20/23 22:43	56-23-5	
Chlorobenzene	**<6.7**	ug/kg	56.3	6.7	1	02/20/23 08:30	02/20/23 22:43	108-90-7	
Chloroethane	**<23.7**	ug/kg	281	23.7	1	02/20/23 08:30	02/20/23 22:43	75-00-3	
Chloroform	**<40.3**	ug/kg	281	40.3	1	02/20/23 08:30	02/20/23 22:43	67-66-3	
Chloromethane	**<21.4**	ug/kg	56.3	21.4	1	02/20/23 08:30	02/20/23 22:43	74-87-3	
Dibromochloromethane	**<192**	ug/kg	281	192	1	02/20/23 08:30	02/20/23 22:43	124-48-1	
Dibromomethane	**<16.7**	ug/kg	56.3	16.7	1	02/20/23 08:30	02/20/23 22:43	74-95-3	
Dichlorodifluoromethane	**<24.2**	ug/kg	56.3	24.2	1	02/20/23 08:30	02/20/23 22:43	75-71-8	
Diisopropyl ether	**<14.0**	ug/kg	56.3	14.0	1	02/20/23 08:30	02/20/23 22:43	108-20-3	
Ethylbenzene	**<13.4**	ug/kg	56.3	13.4	1	02/20/23 08:30	02/20/23 22:43	100-41-4	
Hexachloro-1,3-butadiene	**<112**	ug/kg	281	112	1	02/20/23 08:30	02/20/23 22:43	87-68-3	
Isopropylbenzene (Cumene)	**<15.2**	ug/kg	56.3	15.2	1	02/20/23 08:30	02/20/23 22:43	98-82-8	
Methyl-tert-butyl ether	**<16.5**	ug/kg	56.3	16.5	1	02/20/23 08:30	02/20/23 22:43	1634-04-4	
Methylene Chloride	**<15.6**	ug/kg	56.3	15.6	1	02/20/23 08:30	02/20/23 22:43	75-09-2	
Naphthalene	**<17.6**	ug/kg	281	17.6	1	02/20/23 08:30	02/20/23 22:43	91-20-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: GP-18-2023 (11-12) **Lab ID: 40258372021** Collected: 02/15/23 12:35 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Styrene	**<14.4**	ug/kg	56.3	14.4	1	02/20/23 08:30	02/20/23 22:43	100-42-5	
Tetrachloroethene	**<21.8**	ug/kg	56.3	21.8	1	02/20/23 08:30	02/20/23 22:43	127-18-4	
Toluene	**<14.2**	ug/kg	56.3	14.2	1	02/20/23 08:30	02/20/23 22:43	108-88-3	
Trichloroethene	**108**	ug/kg	56.3	21.0	1	02/20/23 08:30	02/20/23 22:43	79-01-6	
Trichlorofluoromethane	**<16.3**	ug/kg	56.3	16.3	1	02/20/23 08:30	02/20/23 22:43	75-69-4	
Vinyl chloride	**<11.4**	ug/kg	56.3	11.4	1	02/20/23 08:30	02/20/23 22:43	75-01-4	
cis-1,2-Dichloroethene	**357**	ug/kg	56.3	12.0	1	02/20/23 08:30	02/20/23 22:43	156-59-2	
cis-1,3-Dichloropropene	**<37.1**	ug/kg	281	37.1	1	02/20/23 08:30	02/20/23 22:43	10061-01-5	
m&p-Xylene	**<23.7**	ug/kg	113	23.7	1	02/20/23 08:30	02/20/23 22:43	179601-23-1	
n-Butylbenzene	**<25.8**	ug/kg	56.3	25.8	1	02/20/23 08:30	02/20/23 22:43	104-51-8	
n-Propylbenzene	**<13.5**	ug/kg	56.3	13.5	1	02/20/23 08:30	02/20/23 22:43	103-65-1	
o-Xylene	**<16.9**	ug/kg	56.3	16.9	1	02/20/23 08:30	02/20/23 22:43	95-47-6	
p-Isopropyltoluene	**<17.1**	ug/kg	56.3	17.1	1	02/20/23 08:30	02/20/23 22:43	99-87-6	
sec-Butylbenzene	**<13.7**	ug/kg	56.3	13.7	1	02/20/23 08:30	02/20/23 22:43	135-98-8	
tert-Butylbenzene	**<17.7**	ug/kg	56.3	17.7	1	02/20/23 08:30	02/20/23 22:43	98-06-6	
trans-1,2-Dichloroethene	**<12.2**	ug/kg	56.3	12.2	1	02/20/23 08:30	02/20/23 22:43	156-60-5	
trans-1,3-Dichloropropene	**<161**	ug/kg	281	161	1	02/20/23 08:30	02/20/23 22:43	10061-02-6	
Surrogates									
Toluene-d8 (S)	98	%	69-153		1	02/20/23 08:30	02/20/23 22:43	2037-26-5	
4-Bromofluorobenzene (S)	115	%	68-156		1	02/20/23 08:30	02/20/23 22:43	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	71-161		1	02/20/23 08:30	02/20/23 22:43	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**5.9**	%	0.10	0.10	1		02/22/23 09:39		

Sample: MEOH BLANK **Lab ID: 40258372022** Collected: 02/15/23 00:00 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<12.0**	ug/kg	50.0	12.0	1	02/20/23 08:15	02/20/23 13:23	630-20-6	
1,1,1-Trichloroethane	**<12.8**	ug/kg	50.0	12.8	1	02/20/23 08:15	02/20/23 13:23	71-55-6	
1,1,2,2-Tetrachloroethane	**<18.1**	ug/kg	50.0	18.1	1	02/20/23 08:15	02/20/23 13:23	79-34-5	
1,1,2-Trichloroethane	**<18.2**	ug/kg	50.0	18.2	1	02/20/23 08:15	02/20/23 13:23	79-00-5	
1,1-Dichloroethane	**<12.8**	ug/kg	50.0	12.8	1	02/20/23 08:15	02/20/23 13:23	75-34-3	
1,1-Dichloroethene	**<16.6**	ug/kg	50.0	16.6	1	02/20/23 08:15	02/20/23 13:23	75-35-4	
1,1-Dichloropropene	**<16.2**	ug/kg	50.0	16.2	1	02/20/23 08:15	02/20/23 13:23	563-58-6	
1,2,3-Trichlorobenzene	**<55.7**	ug/kg	250	55.7	1	02/20/23 08:15	02/20/23 13:23	87-61-6	
1,2,3-Trichloropropane	**<24.3**	ug/kg	50.0	24.3	1	02/20/23 08:15	02/20/23 13:23	96-18-4	
1,2,4-Trichlorobenzene	**<41.2**	ug/kg	250	41.2	1	02/20/23 08:15	02/20/23 13:23	120-82-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: MEOH BLANK **Lab ID: 40258372022** Collected: 02/15/23 00:00 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,2,4-Trimethylbenzene	**<14.9**	ug/kg	50.0	14.9	1	02/20/23 08:15	02/20/23 13:23	95-63-6	
1,2-Dibromo-3-chloropropane	**<38.8**	ug/kg	250	38.8	1	02/20/23 08:15	02/20/23 13:23	96-12-8	
1,2-Dibromoethane (EDB)	**<13.7**	ug/kg	50.0	13.7	1	02/20/23 08:15	02/20/23 13:23	106-93-4	
1,2-Dichlorobenzene	**<15.5**	ug/kg	50.0	15.5	1	02/20/23 08:15	02/20/23 13:23	95-50-1	
1,2-Dichloroethane	**<11.5**	ug/kg	50.0	11.5	1	02/20/23 08:15	02/20/23 13:23	107-06-2	
1,2-Dichloropropane	**<11.9**	ug/kg	50.0	11.9	1	02/20/23 08:15	02/20/23 13:23	78-87-5	
1,3,5-Trimethylbenzene	**<16.1**	ug/kg	50.0	16.1	1	02/20/23 08:15	02/20/23 13:23	108-67-8	
1,3-Dichlorobenzene	**<13.7**	ug/kg	50.0	13.7	1	02/20/23 08:15	02/20/23 13:23	541-73-1	
1,3-Dichloropropane	**<10.9**	ug/kg	50.0	10.9	1	02/20/23 08:15	02/20/23 13:23	142-28-9	
1,4-Dichlorobenzene	**<13.7**	ug/kg	50.0	13.7	1	02/20/23 08:15	02/20/23 13:23	106-46-7	
2,2-Dichloropropane	**<13.5**	ug/kg	50.0	13.5	1	02/20/23 08:15	02/20/23 13:23	594-20-7	
2-Chlorotoluene	**<16.2**	ug/kg	50.0	16.2	1	02/20/23 08:15	02/20/23 13:23	95-49-8	
4-Chlorotoluene	**<19.0**	ug/kg	50.0	19.0	1	02/20/23 08:15	02/20/23 13:23	106-43-4	
Benzene	**<11.9**	ug/kg	20.0	11.9	1	02/20/23 08:15	02/20/23 13:23	71-43-2	
Bromobenzene	**<19.5**	ug/kg	50.0	19.5	1	02/20/23 08:15	02/20/23 13:23	108-86-1	
Bromochloromethane	**<13.7**	ug/kg	50.0	13.7	1	02/20/23 08:15	02/20/23 13:23	74-97-5	
Bromodichloromethane	**<11.9**	ug/kg	50.0	11.9	1	02/20/23 08:15	02/20/23 13:23	75-27-4	
Bromoform	**<220**	ug/kg	250	220	1	02/20/23 08:15	02/20/23 13:23	75-25-2	
Bromomethane	**<70.1**	ug/kg	250	70.1	1	02/20/23 08:15	02/20/23 13:23	74-83-9	
Carbon tetrachloride	**<11.0**	ug/kg	50.0	11.0	1	02/20/23 08:15	02/20/23 13:23	56-23-5	
Chlorobenzene	**<6.0**	ug/kg	50.0	6.0	1	02/20/23 08:15	02/20/23 13:23	108-90-7	
Chloroethane	**<21.1**	ug/kg	250	21.1	1	02/20/23 08:15	02/20/23 13:23	75-00-3	
Chloroform	**<35.8**	ug/kg	250	35.8	1	02/20/23 08:15	02/20/23 13:23	67-66-3	
Chloromethane	**<19.0**	ug/kg	50.0	19.0	1	02/20/23 08:15	02/20/23 13:23	74-87-3	
Dibromochloromethane	**<171**	ug/kg	250	171	1	02/20/23 08:15	02/20/23 13:23	124-48-1	
Dibromomethane	**<14.8**	ug/kg	50.0	14.8	1	02/20/23 08:15	02/20/23 13:23	74-95-3	
Dichlorodifluoromethane	**<21.5**	ug/kg	50.0	21.5	1	02/20/23 08:15	02/20/23 13:23	75-71-8	
Diisopropyl ether	**<12.4**	ug/kg	50.0	12.4	1	02/20/23 08:15	02/20/23 13:23	108-20-3	
Ethylbenzene	**<11.9**	ug/kg	50.0	11.9	1	02/20/23 08:15	02/20/23 13:23	100-41-4	
Hexachloro-1,3-butadiene	**<99.4**	ug/kg	250	99.4	1	02/20/23 08:15	02/20/23 13:23	87-68-3	
Isopropylbenzene (Cumene)	**<13.5**	ug/kg	50.0	13.5	1	02/20/23 08:15	02/20/23 13:23	98-82-8	
Methyl-tert-butyl ether	**<14.7**	ug/kg	50.0	14.7	1	02/20/23 08:15	02/20/23 13:23	1634-04-4	
Methylene Chloride	**<13.9**	ug/kg	50.0	13.9	1	02/20/23 08:15	02/20/23 13:23	75-09-2	
Naphthalene	**<15.6**	ug/kg	250	15.6	1	02/20/23 08:15	02/20/23 13:23	91-20-3	
Styrene	**<12.8**	ug/kg	50.0	12.8	1	02/20/23 08:15	02/20/23 13:23	100-42-5	
Tetrachloroethene	**<19.4**	ug/kg	50.0	19.4	1	02/20/23 08:15	02/20/23 13:23	127-18-4	
Toluene	**<12.6**	ug/kg	50.0	12.6	1	02/20/23 08:15	02/20/23 13:23	108-88-3	
Trichloroethene	**<18.7**	ug/kg	50.0	18.7	1	02/20/23 08:15	02/20/23 13:23	79-01-6	
Trichlorofluoromethane	**<14.5**	ug/kg	50.0	14.5	1	02/20/23 08:15	02/20/23 13:23	75-69-4	
Vinyl chloride	**<10.1**	ug/kg	50.0	10.1	1	02/20/23 08:15	02/20/23 13:23	75-01-4	L1
cis-1,2-Dichloroethene	**<10.7**	ug/kg	50.0	10.7	1	02/20/23 08:15	02/20/23 13:23	156-59-2	
cis-1,3-Dichloropropene	**<33.0**	ug/kg	250	33.0	1	02/20/23 08:15	02/20/23 13:23	10061-01-5	
m&p-Xylene	**<21.1**	ug/kg	100	21.1	1	02/20/23 08:15	02/20/23 13:23	179601-23-1	
n-Butylbenzene	**<22.9**	ug/kg	50.0	22.9	1	02/20/23 08:15	02/20/23 13:23	104-51-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Sample: MEOH BLANK **Lab ID: 40258372022** Collected: 02/15/23 00:00 Received: 02/17/23 07:35 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
n-Propylbenzene	**<12.0**	ug/kg	50.0	12.0	1	02/20/23 08:15	02/20/23 13:23	103-65-1	
o-Xylene	**<15.0**	ug/kg	50.0	15.0	1	02/20/23 08:15	02/20/23 13:23	95-47-6	
p-Isopropyltoluene	**<15.2**	ug/kg	50.0	15.2	1	02/20/23 08:15	02/20/23 13:23	99-87-6	
sec-Butylbenzene	**<12.2**	ug/kg	50.0	12.2	1	02/20/23 08:15	02/20/23 13:23	135-98-8	
tert-Butylbenzene	**<15.7**	ug/kg	50.0	15.7	1	02/20/23 08:15	02/20/23 13:23	98-06-6	
trans-1,2-Dichloroethene	**<10.8**	ug/kg	50.0	10.8	1	02/20/23 08:15	02/20/23 13:23	156-60-5	
trans-1,3-Dichloropropene	**<143**	ug/kg	250	143	1	02/20/23 08:15	02/20/23 13:23	10061-02-6	
Surrogates									
Toluene-d8 (S)	93	%	69-153		1	02/20/23 08:15	02/20/23 13:23	2037-26-5	
4-Bromofluorobenzene (S)	99	%	68-156		1	02/20/23 08:15	02/20/23 13:23	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	71-161		1	02/20/23 08:15	02/20/23 13:23	2199-69-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

QC Batch: 438191
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40258372002, 40258372003, 40258372004, 40258372005, 40258372006, 40258372007, 40258372008, 40258372009, 40258372010, 40258372011, 40258372012, 40258372013, 40258372014, 40258372015, 40258372016, 40258372017, 40258372018, 40258372019, 40258372020, 40258372021

METHOD BLANK: 2518525
Matrix: Solid
Associated Lab Samples: 40258372002, 40258372003, 40258372004, 40258372005, 40258372006, 40258372007, 40258372008, 40258372009, 40258372010, 40258372011, 40258372012, 40258372013, 40258372014, 40258372015, 40258372016, 40258372017, 40258372018, 40258372019, 40258372020, 40258372021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<12.0	50.0	02/20/23 16:10	
1,1,1-Trichloroethane	ug/kg	<12.8	50.0	02/20/23 16:10	
1,1,2,2-Tetrachloroethane	ug/kg	<18.1	50.0	02/20/23 16:10	
1,1,2-Trichloroethane	ug/kg	<18.2	50.0	02/20/23 16:10	
1,1-Dichloroethane	ug/kg	<12.8	50.0	02/20/23 16:10	
1,1-Dichloroethene	ug/kg	<16.6	50.0	02/20/23 16:10	
1,1-Dichloropropene	ug/kg	<16.2	50.0	02/20/23 16:10	
1,2,3-Trichlorobenzene	ug/kg	<55.7	250	02/20/23 16:10	
1,2,3-Trichloropropane	ug/kg	<24.3	50.0	02/20/23 16:10	
1,2,4-Trichlorobenzene	ug/kg	<41.2	250	02/20/23 16:10	
1,2,4-Trimethylbenzene	ug/kg	<14.9	50.0	02/20/23 16:10	
1,2-Dibromo-3-chloropropane	ug/kg	<38.8	250	02/20/23 16:10	
1,2-Dibromoethane (EDB)	ug/kg	<13.7	50.0	02/20/23 16:10	
1,2-Dichlorobenzene	ug/kg	<15.5	50.0	02/20/23 16:10	
1,2-Dichloroethane	ug/kg	<11.5	50.0	02/20/23 16:10	
1,2-Dichloropropane	ug/kg	<11.9	50.0	02/20/23 16:10	
1,3,5-Trimethylbenzene	ug/kg	<16.1	50.0	02/20/23 16:10	
1,3-Dichlorobenzene	ug/kg	<13.7	50.0	02/20/23 16:10	
1,3-Dichloropropane	ug/kg	<10.9	50.0	02/20/23 16:10	
1,4-Dichlorobenzene	ug/kg	<13.7	50.0	02/20/23 16:10	
2,2-Dichloropropane	ug/kg	<13.5	50.0	02/20/23 16:10	
2-Chlorotoluene	ug/kg	<16.2	50.0	02/20/23 16:10	
4-Chlorotoluene	ug/kg	<19.0	50.0	02/20/23 16:10	
Benzene	ug/kg	<11.9	20.0	02/20/23 16:10	
Bromobenzene	ug/kg	<19.5	50.0	02/20/23 16:10	
Bromochloromethane	ug/kg	<13.7	50.0	02/20/23 16:10	
Bromodichloromethane	ug/kg	<11.9	50.0	02/20/23 16:10	
Bromoform	ug/kg	<220	250	02/20/23 16:10	
Bromomethane	ug/kg	<70.1	250	02/20/23 16:10	
Carbon tetrachloride	ug/kg	<11.0	50.0	02/20/23 16:10	
Chlorobenzene	ug/kg	<6.0	50.0	02/20/23 16:10	
Chloroethane	ug/kg	<21.1	250	02/20/23 16:10	
Chloroform	ug/kg	<35.8	250	02/20/23 16:10	
Chloromethane	ug/kg	<19.0	50.0	02/20/23 16:10	
cis-1,2-Dichloroethene	ug/kg	<10.7	50.0	02/20/23 16:10	
cis-1,3-Dichloropropene	ug/kg	<33.0	250	02/20/23 16:10	
Dibromochloromethane	ug/kg	<171	250	02/20/23 16:10	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

METHOD BLANK: 2518525 Matrix: Solid

Associated Lab Samples: 40258372002, 40258372003, 40258372004, 40258372005, 40258372006, 40258372007, 40258372008, 40258372009, 40258372010, 40258372011, 40258372012, 40258372013, 40258372014, 40258372015, 40258372016, 40258372017, 40258372018, 40258372019, 40258372020, 40258372021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	<14.8	50.0	02/20/23 16:10	
Dichlorodifluoromethane	ug/kg	<21.5	50.0	02/20/23 16:10	
Diisopropyl ether	ug/kg	<12.4	50.0	02/20/23 16:10	
Ethylbenzene	ug/kg	<11.9	50.0	02/20/23 16:10	
Hexachloro-1,3-butadiene	ug/kg	<99.4	250	02/20/23 16:10	
Isopropylbenzene (Cumene)	ug/kg	<13.5	50.0	02/20/23 16:10	
m&p-Xylene	ug/kg	<21.1	100	02/20/23 16:10	
Methyl-tert-butyl ether	ug/kg	<14.7	50.0	02/20/23 16:10	
Methylene Chloride	ug/kg	<13.9	50.0	02/20/23 16:10	
n-Butylbenzene	ug/kg	<22.9	50.0	02/20/23 16:10	
n-Propylbenzene	ug/kg	<12.0	50.0	02/20/23 16:10	
Naphthalene	ug/kg	<15.6	250	02/20/23 16:10	
o-Xylene	ug/kg	<15.0	50.0	02/20/23 16:10	
p-Isopropyltoluene	ug/kg	<15.2	50.0	02/20/23 16:10	
sec-Butylbenzene	ug/kg	<12.2	50.0	02/20/23 16:10	
Styrene	ug/kg	<12.8	50.0	02/20/23 16:10	
tert-Butylbenzene	ug/kg	<15.7	50.0	02/20/23 16:10	
Tetrachloroethene	ug/kg	<19.4	50.0	02/20/23 16:10	
Toluene	ug/kg	<12.6	50.0	02/20/23 16:10	
trans-1,2-Dichloroethene	ug/kg	<10.8	50.0	02/20/23 16:10	
trans-1,3-Dichloropropene	ug/kg	<143	250	02/20/23 16:10	
Trichloroethene	ug/kg	<18.7	50.0	02/20/23 16:10	
Trichlorofluoromethane	ug/kg	<14.5	50.0	02/20/23 16:10	
Vinyl chloride	ug/kg	<10.1	50.0	02/20/23 16:10	
1,2-Dichlorobenzene-d4 (S)	%	98	71-161	02/20/23 16:10	
4-Bromofluorobenzene (S)	%	101	68-156	02/20/23 16:10	
Toluene-d8 (S)	%	91	69-153	02/20/23 16:10	

LABORATORY CONTROL SAMPLE: 2518526

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2380	95	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2690	108	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2620	105	70-130	
1,1-Dichloroethane	ug/kg	2500	2450	98	70-130	
1,1-Dichloroethene	ug/kg	2500	2460	98	77-120	
1,2,4-Trichlorobenzene	ug/kg	2500	2380	95	67-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2730	109	70-130	
1,2-Dibromoethane (EDB)	ug/kg	2500	2590	104	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2580	103	70-130	
1,2-Dichloroethane	ug/kg	2500	2610	105	70-130	
1,2-Dichloropropane	ug/kg	2500	2560	102	80-123	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

LABORATORY CONTROL SAMPLE: 2518526

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/kg	2500	2590	103	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2440	98	70-130	
Benzene	ug/kg	2500	2500	100	70-130	
Bromodichloromethane	ug/kg	2500	2570	103	70-130	
Bromoform	ug/kg	2500	2680	107	60-130	
Bromomethane	ug/kg	2500	2420	97	45-153	
Carbon tetrachloride	ug/kg	2500	2570	103	70-130	
Chlorobenzene	ug/kg	2500	2550	102	70-130	
Chloroethane	ug/kg	2500	2390	95	55-160	
Chloroform	ug/kg	2500	2500	100	80-120	
Chloromethane	ug/kg	2500	2240	89	47-130	
cis-1,2-Dichloroethene	ug/kg	2500	2310	92	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2520	101	70-130	
Dibromochloromethane	ug/kg	2500	2540	102	70-130	
Dichlorodifluoromethane	ug/kg	2500	1630	65	16-83	
Ethylbenzene	ug/kg	2500	2540	102	80-120	
Isopropylbenzene (Cumene)	ug/kg	2500	2530	101	70-130	
m&p-Xylene	ug/kg	5000	5080	102	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2650	106	65-130	
Methylene Chloride	ug/kg	2500	2580	103	70-130	
o-Xylene	ug/kg	2500	2530	101	70-130	
Styrene	ug/kg	2500	3160	126	70-130	
Tetrachloroethene	ug/kg	2500	2430	97	70-130	
Toluene	ug/kg	2500	2460	98	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2470	99	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2590	104	70-130	
Trichloroethene	ug/kg	2500	2420	97	70-130	
Trichlorofluoromethane	ug/kg	2500	2480	99	70-130	
Vinyl chloride	ug/kg	2500	2060	82	59-114	
1,2-Dichlorobenzene-d4 (S)	%			109	71-161	
4-Bromofluorobenzene (S)	%			118	68-156	
Toluene-d8 (S)	%			100	69-153	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2518527 2518528

Parameter	Units	40258372012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<16.0	1250	1250	910	1010	73	81	69-130	10	20	
1,1,2,2-Tetrachloroethane	ug/kg	<22.7	1250	1250	1410	1450	113	116	70-130	2	20	
1,1,2-Trichloroethane	ug/kg	<22.8	1250	1250	1310	1340	105	107	70-130	3	20	
1,1-Dichloroethane	ug/kg	33.4J	1250	1250	1180	1210	91	94	70-130	3	20	
1,1-Dichloroethene	ug/kg	<20.8	1250	1250	867	924	69	74	55-120	6	22	
1,2,4-Trichlorobenzene	ug/kg	<51.6	1250	1250	1360	1350	108	108	67-130	1	20	
1,2-Dibromo-3-chloropropane	ug/kg	<48.6	1250	1250	1490	1370	119	110	70-130	8	22	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2518527 2518528

Parameter	Units	40258372012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/kg	<17.1	1250	1250	1280	1270	103	102	70-130	1	20	
1,2-Dichlorobenzene	ug/kg	<19.4	1250	1250	1410	1370	113	109	70-130	3	20	
1,2-Dichloroethane	ug/kg	<14.4	1250	1250	1290	1300	103	104	70-130	1	20	
1,2-Dichloropropane	ug/kg	<14.9	1250	1250	1190	1280	95	102	80-123	7	20	
1,3-Dichlorobenzene	ug/kg	<17.1	1250	1250	1400	1340	112	107	70-130	4	20	
1,4-Dichlorobenzene	ug/kg	<17.1	1250	1250	1330	1350	106	108	70-130	2	20	
Benzene	ug/kg	<14.9	1250	1250	1150	1190	92	95	70-130	3	20	
Bromodichloromethane	ug/kg	<14.9	1250	1250	1200	1220	96	97	70-130	1	20	
Bromoform	ug/kg	<275	1250	1250	1260	1340	100	107	60-130	6	20	
Bromomethane	ug/kg	<87.7	1250	1250	1140	1210	91	97	38-153	6	20	
Carbon tetrachloride	ug/kg	<13.8	1250	1250	797	897	64	72	62-130	12	20	
Chlorobenzene	ug/kg	<7.5	1250	1250	1230	1280	99	102	70-130	4	20	
Chloroethane	ug/kg	<26.4	1250	1250	1070	1160	86	92	53-160	8	24	
Chloroform	ug/kg	<44.8	1250	1250	1210	1260	97	101	80-120	4	20	
Chloromethane	ug/kg	<23.8	1250	1250	1100	1140	88	91	10-130	4	20	
cis-1,2-Dichloroethene	ug/kg	145	1250	1250	1310	1270	93	90	70-130	3	20	
cis-1,3-Dichloropropene	ug/kg	<41.3	1250	1250	1170	1200	94	96	70-130	2	20	
Dibromochloromethane	ug/kg	<214	1250	1250	1250	1250	100	100	70-130	0	20	
Dichlorodifluoromethane	ug/kg	<26.9	1250	1250	525	500	42	40	10-83	5	31	
Ethylbenzene	ug/kg	<14.9	1250	1250	1150	1200	92	96	80-120	4	20	
Isopropylbenzene (Cumene)	ug/kg	<16.9	1250	1250	1070	1120	86	89	70-130	4	20	
m&p-Xylene	ug/kg	<26.4	2500	2500	2360	2390	94	96	70-130	1	20	
Methyl-tert-butyl ether	ug/kg	<18.4	1250	1250	1230	1270	98	101	66-130	3	20	
Methylene Chloride	ug/kg	<17.4	1250	1250	1280	1250	103	100	70-130	3	20	
o-Xylene	ug/kg	<18.8	1250	1250	1220	1260	97	100	70-130	3	20	
Styrene	ug/kg	<16.0	1250	1250	1440	1510	115	121	70-130	5	20	
Tetrachloroethene	ug/kg	109	1250	1250	1100	1150	79	83	69-130	4	20	
Toluene	ug/kg	<15.8	1250	1250	1130	1200	90	96	79-120	6	20	
trans-1,2-Dichloroethene	ug/kg	35.5J	1250	1250	1090	1180	84	91	70-130	8	20	
trans-1,3-Dichloropropene	ug/kg	<179	1250	1250	1240	1260	99	100	69-130	2	20	
Trichloroethene	ug/kg	1060	1250	1250	2060	2210	80	92	70-130	7	20	
Trichlorofluoromethane	ug/kg	<18.1	1250	1250	737	727	59	58	50-130	1	22	
Vinyl chloride	ug/kg	54.8J	1250	1250	852	872	64	65	26-114	2	20	
1,2-Dichlorobenzene-d4 (S)	%						127	126	71-161			
4-Bromofluorobenzene (S)	%						134	129	68-156			
Toluene-d8 (S)	%						111	112	69-153			

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

QC Batch: 438221
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40258372001, 40258372022

METHOD BLANK: 2518710 Matrix: Solid
Associated Lab Samples: 40258372001, 40258372022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<12.0	50.0	02/20/23 10:41	
1,1,1-Trichloroethane	ug/kg	<12.8	50.0	02/20/23 10:41	
1,1,2,2-Tetrachloroethane	ug/kg	<18.1	50.0	02/20/23 10:41	
1,1,2-Trichloroethane	ug/kg	<18.2	50.0	02/20/23 10:41	
1,1-Dichloroethane	ug/kg	<12.8	50.0	02/20/23 10:41	
1,1-Dichloroethene	ug/kg	<16.6	50.0	02/20/23 10:41	
1,1-Dichloropropene	ug/kg	<16.2	50.0	02/20/23 10:41	
1,2,3-Trichlorobenzene	ug/kg	<55.7	250	02/20/23 10:41	
1,2,3-Trichloropropane	ug/kg	<24.3	50.0	02/20/23 10:41	
1,2,4-Trichlorobenzene	ug/kg	<41.2	250	02/20/23 10:41	
1,2,4-Trimethylbenzene	ug/kg	<14.9	50.0	02/20/23 10:41	
1,2-Dibromo-3-chloropropane	ug/kg	<38.8	250	02/20/23 10:41	
1,2-Dibromoethane (EDB)	ug/kg	<13.7	50.0	02/20/23 10:41	
1,2-Dichlorobenzene	ug/kg	<15.5	50.0	02/20/23 10:41	
1,2-Dichloroethane	ug/kg	<11.5	50.0	02/20/23 10:41	
1,2-Dichloropropane	ug/kg	<11.9	50.0	02/20/23 10:41	
1,3,5-Trimethylbenzene	ug/kg	<16.1	50.0	02/20/23 10:41	
1,3-Dichlorobenzene	ug/kg	<13.7	50.0	02/20/23 10:41	
1,3-Dichloropropane	ug/kg	<10.9	50.0	02/20/23 10:41	
1,4-Dichlorobenzene	ug/kg	<13.7	50.0	02/20/23 10:41	
2,2-Dichloropropane	ug/kg	<13.5	50.0	02/20/23 10:41	
2-Chlorotoluene	ug/kg	<16.2	50.0	02/20/23 10:41	
4-Chlorotoluene	ug/kg	<19.0	50.0	02/20/23 10:41	
Benzene	ug/kg	<11.9	20.0	02/20/23 10:41	
Bromobenzene	ug/kg	<19.5	50.0	02/20/23 10:41	
Bromochloromethane	ug/kg	<13.7	50.0	02/20/23 10:41	
Bromodichloromethane	ug/kg	<11.9	50.0	02/20/23 10:41	
Bromoform	ug/kg	<220	250	02/20/23 10:41	
Bromomethane	ug/kg	<70.1	250	02/20/23 10:41	
Carbon tetrachloride	ug/kg	<11.0	50.0	02/20/23 10:41	
Chlorobenzene	ug/kg	<6.0	50.0	02/20/23 10:41	
Chloroethane	ug/kg	<21.1	250	02/20/23 10:41	
Chloroform	ug/kg	<35.8	250	02/20/23 10:41	
Chloromethane	ug/kg	<19.0	50.0	02/20/23 10:41	
cis-1,2-Dichloroethene	ug/kg	<10.7	50.0	02/20/23 10:41	
cis-1,3-Dichloropropene	ug/kg	<33.0	250	02/20/23 10:41	
Dibromochloromethane	ug/kg	<171	250	02/20/23 10:41	
Dibromomethane	ug/kg	<14.8	50.0	02/20/23 10:41	
Dichlorodifluoromethane	ug/kg	<21.5	50.0	02/20/23 10:41	
Diisopropyl ether	ug/kg	<12.4	50.0	02/20/23 10:41	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

METHOD BLANK: 2518710 Matrix: Solid
Associated Lab Samples: 40258372001, 40258372022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/kg	<11.9	50.0	02/20/23 10:41	
Hexachloro-1,3-butadiene	ug/kg	<99.4	250	02/20/23 10:41	
Isopropylbenzene (Cumene)	ug/kg	<13.5	50.0	02/20/23 10:41	
m&p-Xylene	ug/kg	<21.1	100	02/20/23 10:41	
Methyl-tert-butyl ether	ug/kg	<14.7	50.0	02/20/23 10:41	
Methylene Chloride	ug/kg	<13.9	50.0	02/20/23 10:41	
n-Butylbenzene	ug/kg	<22.9	50.0	02/20/23 10:41	
n-Propylbenzene	ug/kg	<12.0	50.0	02/20/23 10:41	
Naphthalene	ug/kg	<15.6	250	02/20/23 10:41	
o-Xylene	ug/kg	<15.0	50.0	02/20/23 10:41	
p-Isopropyltoluene	ug/kg	<15.2	50.0	02/20/23 10:41	
sec-Butylbenzene	ug/kg	<12.2	50.0	02/20/23 10:41	
Styrene	ug/kg	<12.8	50.0	02/20/23 10:41	
tert-Butylbenzene	ug/kg	<15.7	50.0	02/20/23 10:41	
Tetrachloroethene	ug/kg	<19.4	50.0	02/20/23 10:41	
Toluene	ug/kg	<12.6	50.0	02/20/23 10:41	
trans-1,2-Dichloroethene	ug/kg	<10.8	50.0	02/20/23 10:41	
trans-1,3-Dichloropropene	ug/kg	<143	250	02/20/23 10:41	
Trichloroethene	ug/kg	<18.7	50.0	02/20/23 10:41	
Trichlorofluoromethane	ug/kg	<14.5	50.0	02/20/23 10:41	
Vinyl chloride	ug/kg	<10.1	50.0	02/20/23 10:41	
1,2-Dichlorobenzene-d4 (S)	%	99	71-161	02/20/23 10:41	
4-Bromofluorobenzene (S)	%	106	68-156	02/20/23 10:41	
Toluene-d8 (S)	%	99	69-153	02/20/23 10:41	

LABORATORY CONTROL SAMPLE: 2518711

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2610	104	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2600	104	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2620	105	70-130	
1,1-Dichloroethane	ug/kg	2500	2570	103	70-130	
1,1-Dichloroethene	ug/kg	2500	2690	108	77-120	
1,2,4-Trichlorobenzene	ug/kg	2500	2620	105	67-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2560	102	70-130	
1,2-Dibromoethane (EDB)	ug/kg	2500	2740	110	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2540	102	70-130	
1,2-Dichloroethane	ug/kg	2500	2730	109	70-130	
1,2-Dichloropropane	ug/kg	2500	2560	102	80-123	
1,3-Dichlorobenzene	ug/kg	2500	2580	103	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2390	96	70-130	
Benzene	ug/kg	2500	2530	101	70-130	
Bromodichloromethane	ug/kg	2500	2760	110	70-130	
Bromoform	ug/kg	2500	2770	111	60-130	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

LABORATORY CONTROL SAMPLE: 2518711

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/kg	2500	2150	86	45-153	
Carbon tetrachloride	ug/kg	2500	2710	108	70-130	
Chlorobenzene	ug/kg	2500	2620	105	70-130	
Chloroethane	ug/kg	2500	2170	87	55-160	
Chloroform	ug/kg	2500	2620	105	80-120	
Chloromethane	ug/kg	2500	2680	107	47-130	
cis-1,2-Dichloroethene	ug/kg	2500	2540	101	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2600	104	70-130	
Dibromochloromethane	ug/kg	2500	2710	109	70-130	
Dichlorodifluoromethane	ug/kg	2500	1910	77	16-83	
Ethylbenzene	ug/kg	2500	2650	106	80-120	
Isopropylbenzene (Cumene)	ug/kg	2500	2570	103	70-130	
m&p-Xylene	ug/kg	5000	5200	104	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2560	102	65-130	
Methylene Chloride	ug/kg	2500	2620	105	70-130	
o-Xylene	ug/kg	2500	2600	104	70-130	
Styrene	ug/kg	2500	3180	127	70-130	
Tetrachloroethene	ug/kg	2500	2560	102	70-130	
Toluene	ug/kg	2500	2590	104	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2570	103	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2800	112	70-130	
Trichloroethene	ug/kg	2500	2550	102	70-130	
Trichlorofluoromethane	ug/kg	2500	2360	94	70-130	
Vinyl chloride	ug/kg	2500	2890	116	59-114	L1
1,2-Dichlorobenzene-d4 (S)	%			104	71-161	
4-Bromofluorobenzene (S)	%			109	68-156	
Toluene-d8 (S)	%			103	69-153	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

QC Batch: 438122
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40258372001, 40258372002, 40258372003, 40258372004

SAMPLE DUPLICATE: 2518153

Parameter	Units	40258326003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	57.4	57.3	0	10	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

QC Batch: 438397
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40258372005, 40258372006, 40258372007, 40258372008, 40258372009, 40258372010, 40258372011, 40258372012, 40258372013, 40258372014, 40258372015, 40258372016, 40258372017, 40258372018, 40258372019, 40258372020, 40258372021

SAMPLE DUPLICATE: 2519322

Parameter	Units	40258372016 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.0	8.1	10	10	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

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

L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CHW8271P.01 MDCC
Pace Project No.: 40258372

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40258372001	**GP-01-2023 (9-10)**	EPA 5035/5030B	438221	EPA 8260	438226
40258372002	**GP-01-2023 (11-12)**	EPA 5035/5030B	438191	EPA 8260	438192
40258372003	**GP-02-2023 (14-15)**	EPA 5035/5030B	438191	EPA 8260	438192
40258372004	**GP-03-2023 (9-10)**	EPA 5035/5030B	438191	EPA 8260	438192
40258372005	**GP-04-2023 (9-10)**	EPA 5035/5030B	438191	EPA 8260	438192
40258372006	**GP-05-2023 (11-12)**	EPA 5035/5030B	438191	EPA 8260	438192
40258372007	**GP-06-2023 (9.5-10)**	EPA 5035/5030B	438191	EPA 8260	438192
40258372008	**GP-07-2023 (7-8)**	EPA 5035/5030B	438191	EPA 8260	438192
40258372009	**GP-08-2023 (11-12)**	EPA 5035/5030B	438191	EPA 8260	438192
40258372010	**GP-09-2023 (12-13)**	EPA 5035/5030B	438191	EPA 8260	438192
40258372011	**GP-10-2023 (8-9)**	EPA 5035/5030B	438191	EPA 8260	438192
40258372012	**GP-11-2023 (11-12)**	EPA 5035/5030B	438191	EPA 8260	438192
40258372013	**GP-12-2023 (8-9)**	EPA 5035/5030B	438191	EPA 8260	438192
40258372014	**GP-13-2023 (11-12)**	EPA 5035/5030B	438191	EPA 8260	438192
40258372015	**GP-13-2023 (11-12) DUP**	EPA 5035/5030B	438191	EPA 8260	438192
40258372016	**GP-14-2023 (11-12)**	EPA 5035/5030B	438191	EPA 8260	438192
40258372017	**GP-15-2023 (11-12)**	EPA 5035/5030B	438191	EPA 8260	438192
40258372018	**GP-16-2023 (8-9)**	EPA 5035/5030B	438191	EPA 8260	438192
40258372019	**GP-17-2023 (9-10)**	EPA 5035/5030B	438191	EPA 8260	438192
40258372020	**GP-17-2023 (9-10) DUP**	EPA 5035/5030B	438191	EPA 8260	438192
40258372021	**GP-18-2023 (11-12)**	EPA 5035/5030B	438191	EPA 8260	438192
40258372022	**MEOH BLANK**	EPA 5035/5030B	438221	EPA 8260	438226
40258372001	**GP-01-2023 (9-10)**	ASTM D2974-87	438122		
40258372002	**GP-01-2023 (11-12)**	ASTM D2974-87	438122		
40258372003	**GP-02-2023 (14-15)**	ASTM D2974-87	438122		
40258372004	**GP-03-2023 (9-10)**	ASTM D2974-87	438122		
40258372005	**GP-04-2023 (9-10)**	ASTM D2974-87	438397		
40258372006	**GP-05-2023 (11-12)**	ASTM D2974-87	438397		
40258372007	**GP-06-2023 (9.5-10)**	ASTM D2974-87	438397		
40258372008	**GP-07-2023 (7-8)**	ASTM D2974-87	438397		
40258372009	**GP-08-2023 (11-12)**	ASTM D2974-87	438397		
40258372010	**GP-09-2023 (12-13)**	ASTM D2974-87	438397		
40258372011	**GP-10-2023 (8-9)**	ASTM D2974-87	438397		
40258372012	**GP-11-2023 (11-12)**	ASTM D2974-87	438397		
40258372013	**GP-12-2023 (8-9)**	ASTM D2974-87	438397		
40258372014	**GP-13-2023 (11-12)**	ASTM D2974-87	438397		
40258372015	**GP-13-2023 (11-12) DUP**	ASTM D2974-87	438397		
40258372016	**GP-14-2023 (11-12)**	ASTM D2974-87	438397		
40258372017	**GP-15-2023 (11-12)**	ASTM D2974-87	438397		
40258372018	**GP-16-2023 (8-9)**	ASTM D2974-87	438397		
40258372019	**GP-17-2023 (9-10)**	ASTM D2974-87	438397		
40258372020	**GP-17-2023 (9-10) DUP**	ASTM D2974-87	438397		
40258372021	**GP-18-2023 (11-12)**	ASTM D2974-87	438397		

REPORT OF LABORATORY ANALYSIS

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https //info pacelabs com/hubfs/pas-standard-terms pdf
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

40256372

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: Geosyntec Consultants	**Billing Information:** Geosyntec Consultants
Address: 10600 N. Port Washington Road, Suite 100	10600 N. Port Washington Rd. Ste 100; Mequon, WI 53092
Report To: Dave Zolp; Jeremiah Johnson; Greg Johnson	**Email To:** dzolp@geosyntec.com; gjohnson@geosyntec.com jpjohnson@geosyntec.com
Copy To: --	**Site CollectionInfo/Address:** --
Customer Project Name/Number: MDCC/ CHW8271P.01	**State:** WI **County/City:** / **Time Zone Collected:** [ ]PT [ ]MT [ ]CT [ ]ET
Phone: 262-496-6103 **Email:** dzolp@geosyntec.com	**Site/Facility ID #:** -- **Compliance Monitoring?** [ ] Yes [X] No
Collected By (print): Dave Zolp	**Purchase Order # :** **Quote #:** **DW PWS ID #:** **DW Location Code:**
Collected By (signature):	**Turnaround Date Required:** standard **Immediately Packed on Ice:** [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	**Rush:** (Expedite Charges Apply) [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day **Field Filtered (if applicable):** [ ] Yes [ ] No Analysis: _____

Container Preservative Type **: 6

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Lab Project Manager:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	Analyses: VOCs	Lab Profile/Line:
GP-01-2023 (9-10)	SL	GRAB	2/14/23	1010				2	G/P	X	001
GP-01-2023 (11-12)	SL	GRAB	2/14/23	1020				2	G/P	X	002
GP-02-2023 (14-15)	SL	GRAB	2/14/23	1120				2	G/P	X	003
GP-03-2023 (9-10)	SL	GRAB	2/14/23	1148				2	G/P	X	004
GP-04-2023 (9-10)	SL	GRAB	2/15/23	1320				2	G/P	X	005
GP-05-2023 (11-12)	SL	GRAB	2/15/23	1310				2	G/P	X	006
GP-06-2023 (9.5-10)	SL	GRAB	2/15/23	1305				2	G/P	X	007
GP-07-2023 (7-8)	SL	GRAB	2/15/23	1255				2	G/P	X	008
GP-08-2023 (11-12)	SL	GRAB	2/14/23	1440				2	G/P	X	009
GP-09-2023 (12-13)	SL	GRAB	2/14/23	1530				2	G/P	X	010

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: _____
Sample pH Acceptable Y N NA
pH Strips: _____
Sulfide Present Y N NA
Lead Acetate Strips: _____

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor: __oC
Cooler 1 Corrected Temp: _____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Geosyntec			
CB Logistics	2/17/230735		2/17/230735

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 3

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https //info pacelabs com/hubfs/pas-standard-terms pdf
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

4258370

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: Geosyntec Consultants	**Billing Information:** Geosyntec Consultants
Address: 10600 N. Port Washington Road, Suite 100; Mequon, WI 53092	10600 N. Port Washington Rd. Ste 100; Mequon, WI 53092
Report To: Dave Zolp; Jeremiah Johnson; Greg Johnson	**Email To:** dzolp@geosyntec.com; gjohnson@geosyntec.com jpjohnson@geosyntec.com
Copy To: --	**Site CollectionInfo/Address:** --
Customer Project Name/Number: MDCC/ CHW8271P.01	**State:** WI **County/City:** / **Time Zone Collected:** [ ]PT [ ]MT [ ]CT [ ]ET

Container Preservative Type **: 6

Lab Project Manager:

** Preservative Types (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Phone: 262-496-6103 **Email:** dzolp@geosyntec.com	**Site/Facility ID #:** --	**Compliance Monitoring?** [ ] Yes [X] No
Collected By (print): Dave Zolp	Purchase Order # : Quote #:	**DW PWS ID #:** **DW Location Code:**
Collected By (signature):	**Turnaround Date Required:** standard	**Immediately Packed on Ice:** [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold. _____	**Rush: (Expedite Charges Apply)** [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day	**Field Filtered (if applicable):** [ ] Yes [ ] No Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	VOCs	Lab Sample # / Comments
GP-10-2023 (8-9)	SL	GRAB	2/14/23	1545				2	G/P	X	011
GP-11-2023 (11-12)	SL	GRAB	2/15/23	845				2	G/P	X	012
GP-12-2023 (8-9)	SL	GRAB	2/15/23	915				2	G/P	X	013
GP-13-2023 (11-12)	SL	GRAB	2/15/23	938				2	G/P	X	014
GP-13-2023 (11-12) DUP	SL	GRAB	2/15/23	938				2	G/P	X	015
GP-14-2023 (11-12)	SL	GRAB	2/15/23	1010				2	G/P	X	016
GP-15-2023 (11-12)	SL	GRAB	2/15/23	1050				2	G/P	X	017
GP-16-2023 (8-9)	SL	GRAB	2/15/23	1125				2	G/P	X	018
GP-17-2023 (9-10)	SL	GRAB	2/15/23	1155				2	G/P	X	019
GP-17-2023 (9-10) DUP	SL	GRAB	2/15/23	1155				2	G/P	X	020

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: _____
Sample pH Acceptable Y N NA
pH Strips: _____
Sulfide Present Y N NA
Lead Acetate Strips: _____

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None (0)

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor: __oC
Cooler 1 Corrected Temp: _____oC
Comments:

Relinquished by/Company: (Signature) Geosyntec	Date/Time:	Received by/Company: (Signature)
Relinquished by/Company: (Signature) CS Logistics	Date/Time: 2/17/23 0135	Received by/Company: (Signature)
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)

Date/Time: 2/17/23 0135

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 2 of: 3

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https //info pacelabs com/hubfs/pas-standard-terms pdf
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

L225378

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: Geosyntec Consultants	**Billing Information:** Geosyntec Consultants
Address: 10600 N. Port Washington Road, Suite 100; Mequon, WI 53092	10600 N. Port Washington Rd. Ste 100; Mequon, WI 53092
Report To: Dave Zolp; Jeremiah Johnson; Greg Johnson	**Email To:** dzolp@geosyntec.com; gjohnson@geosyntec.com jpjohnson@geosyntec.com
Copy To: --	**Site CollectionInfo/Address:** --
Customer Project Name/Number: MDCC/ CHW8271P.01	**State:** WI **County/City:** / **Time Zone Collected:** [ ]PT [ ]MT [ ]CT [ ]ET

Container Preservative Type **: 6

Lab Project Manager:

** Preservative Types. (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Phone: 262-496-6103 **Email:** dzolp@geosyntec.com	**Site/Facility ID #:** --	**Compliance Monitoring?** [ ] Yes [X] No
Collected By (print): Dave Zolp	Purchase Order # : Quote #:	**DW PWS ID #:** **DW Location Code:**
Collected By (signature):	**Turnaround Date Required:** standard	**Immediately Packed on Ice:** [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	**Rush: (Expedite Charges Apply)** [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day	**Field Filtered (if applicable):** [ ] Yes [ ] No Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	VOCs	Lab Sample # / Comments
GP-18-2023 (11-12)	SL	GRAB	2/15/23	1235				2	G/P	X	021
MEOH BLANK	SL	GRAB	---	---				1	G/P	X	022
	SL	GRAB									
	SL	GRAB									
	SL	GRAB									
	SL	GRAB									
	SL	GRAB									
	SL	GRAB									
	SL	GRAB									
	SL	GRAB									

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: _____
Sample pH Acceptable Y N NA
pH Strips: _____
Sulfide Present Y N NA
Lead Acetate Strips: _____

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: (1)

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours) : Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor: __oC
Cooler 1 Corrected Temp: _____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
GeoSyntec			
CS Logistics	2/17/23 0735		2/17/23 0735

MTJL LAB USE ONLY
Table #: (1)
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 3 of: 3

Sample Preservation Receipt Form

Client Name: Geosyntec

Project # 402583172

All containers needing preservation have been checked and noted below. ☐Yes ☐No ☒N/A

Lab Lot# of pH paper

Lab Std #ID of preservation (if pH adjusted)

Initial when completed.

Date/ Time.

	Glass							Plastic						Vials						Jars				General								
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																																		2.5 / 5
002																																		2.5 / 5
003																																		2.5 / 5
004																																		2.5 / 5
005																																		2.5 / 5
006																																		2.5 / 5
007																																		2.5 / 5
008																																		2.5 / 5
009																																		2.5 / 5
010																																		2.5 / 5
011																																		2.5 / 5
012																																		2.5 / 5
013																																		2.5 / 5
014																																		2.5 / 5
015																																		2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

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	VG9C	40 mL clear ascorbic w/ HCl
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI
BG3U	250 mL clear glass unpres				

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 1	
GN 2	

2/17/2022

Page 1 of 3

Client Name: Geosyntec

Sample Preservation Receipt Form

Project #: 402583?0

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	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2							
021																		1					1										2.5 / 5
022																		1															2.5 / 5
023																																	2.5 / 5
024																																	2.5 / 5
025																																	2.5 / 5
026																																	2.5 / 5
027																																	2.5 / 5
028																																	2.5 / 5
029																																	2.5 / 5
030																																	2.5 / 5
031																																	2.5 / 5
032																																	2.5 / 5
033																																	2.5 / 5
034																																	2.5 / 5
035																																	2.5 / 5
036																																	2.5 / 5
037																																	2.5 / 5
038																																	2.5 / 5
039																																	2.5 / 5
040																																	2.5 / 5
041																																	2.5 / 5
042																																	2.5 / 5
043																																	2.5 / 5
044																																	2.5 / 5
045																																	2.5 / 5
046																																	2.5 / 5
047																																	2.5 / 5
048																																	2.5 / 5

2/17/23 SG

Page 2 of 3

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40258372

40258372

Client Name: Geosyntec

Courier: ☑ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ 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 - 9 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 1.9 /Corr: 2.0

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: 2/11/25 /Initials: SG

Labeled By Initials: MMS

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished.	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- DI VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time.
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☑Yes ☐No ☐N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
Correct Type. Pace Green Bay, Pace IR, Non-Pace		
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: SL	☑Yes ☐No ☐N/A	12.
Trip Blank Present	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐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 logi

2/11/25 SG

Geosyntec consultants

180A Market Place Boulevard
Knoxville, TN 37922
PH 865.330.0037
www.geosyntec.com

Memorandum

Date: April 26, 2023

To: Jeremiah Johnson

From: Jennifer Pinion

CC: J. Caprio

Subject: Stage 2A Data Validation – Level II Data Deliverable – Pace Analytical Services Project Number: 40258372

SITE: Milwaukee Die Casting Company Site, Milwaukee, WI

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of nineteen solid samples, two field duplicate samples and one trip blank, collected on February 14 and 15, 2023, during a Milwaukee Die Casting Company Site sampling event. The analyses were performed by Pace Analytical Services, LLC, Green Bay, Wisconsin. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by United States (US) Environmental Protection Agency (EPA) Methods 5035/5030B and 8260
- Percent Moisture by American Society for Testing and Materials (ASTM) 2974-87

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 laboratory report, professional and technical judgment and the following documents:

- Pre-Design Investigation Work Plan, Milwaukee Die Casting Company Site, 4132 North Holton Street. Milwaukee, Wisconsin, February 10, 2023
- US EPA National Functional Guidelines for Organic Superfund Methods Data Review, November 2020 (USEPA- 540-R-20-005)

The following samples were analyzed in the data set and validated at a Stage 2A level:

Client IDs	Laboratory IDs
GP-01-2023 (9-10)	40258372001
GP-01-2023 (11-12)	40258372002
GP-02-2023 (14-15)	40258372003
GP-03-2023 (9-10)	40258372004
GP-04-2023 (9-10)	40258372005
GP-05-2023 (11-12)	40258372006
GP-06-2023 (9.5-10)	40258372007
GP-07-2023 (7-8)	40258372008
GP-08-2023 (11-12)	40258372009
GP-09-2023 (12-13)	40258372010
GP-10-2023 (8-9)	40258372011

Client IDs	Laboratory IDs
GP-11-2023 (11-12)	40258372012
GP-12-2023 (8-9)	40258372013
GP-13-2023 (11-12)	40258372014
GP-13-2023 (11-12) DUP	40258372015
GP-14-2023 (11-12)	40258372016
GP-15-2023 (11-12)	40258372017
GP-16-2023 (8-9)	40258372018
GP-17-2023 (9-10)	40258372019
GP-17-2023 (9-10) DUP	40258372020
GP-18-2023 (11-12)	40258372021
MEOH BLANK	40258372022

The samples were received at the laboratory at 2.0°C within the temperature criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

Incorrect error corrections executed by the lab 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 date and time of sample collection were not listed on the COC for sample MEOH BLANK. The laboratory logged the sample in as collected on 2/15/23 at 00:00.

The 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 5035/5030B and 8260.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. 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
⊗ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC 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 the sample set is 100%.

1.2 Holding Times

The holding time for the VOC analyses of a preserved soil 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 438191 and 438221). VOCs were not detected in the method blanks above the limits of detection (LODs).

1.4 Matrix Spike/Matrix Spike Duplicate

One batch MS/MSD 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). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria, with the following exception.

The recovery vinyl chloride in the LCS in batch 438221 was high and outside the laboratory specified acceptance criteria. Since vinyl chloride was 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, MEOH BLANK. VOCs were not detected in the trip blank greater than the LODs.

1.7 Surrogates

The surrogate recoveries were within the laboratory specified acceptance criteria, with the following exceptions.

The surrogate recoveries of 1,2-dichlorobenzene-d4 in sample GP-01-2023 (9-10) and toluene-d8, 4-bromofluorobenzene and 1,2-dichlorobenzene-d4 in sample GP-01-2023 (11-12) were high and outside the laboratory specified acceptance criteria. Since the surrogates were analyzed at a dilution and based on professional and technical judgement, no qualifications were applied to the data.

1.8 Field Duplicate

Two field duplicate samples, GP-13-2023 (11-12) DUP and GP-17-2023 (9-10) DUP were collected with the sample set. Acceptable precision (RPD ≤30%) was demonstrated between the field duplicates and the original samples, GP-13-2023 (11-12) and GP-17-2023 (9-10), with the following exceptions.

The RPD result for trichloroethene in the field duplicate pair GP-17-2023 (9-10)/GP-17-2023 (9-10) DUP was greater than 30%. Therefore, based on professional and technical judgement, the concentrations of trichloroethene in the field duplicate pair were J qualified as estimated.

Sample ID	Compound	Laboratory Result (µg/kg)	Laboratory Flag	RPD	Validation Result (µg/kg)	Validation Qualifier*	Reason Code**
GP-17-2023 (9-10)	Trichloroethene	124	NA	111	124	J	7
GP-17-2023 (9-10) DUP	Trichloroethene	432	NA		432	J	7

µg/kg-microgram per kilogram
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

1.9 Sensitivity

The samples were reported to the LODs. Elevated non-detect results were reported due to the dilutions analyzed.

1.10 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

SiREM
Leading Science · Lasting Solutions

180B Market Place Blvd
Knoxville, TN, 37922

130 Stone Rd W
Guelph, ON, N1G 3Z2

Certificate of Analysis
SiREMNA™ Parameters

Customer: Geosyntec Consultants, Inc.

Customer Project ID: CHW8271P

Site Sampling Date: 15 February 2023

SiREM Reference: S-9647 (Si-06308)

Report Issued: 3 April 2023

INTRODUCTION

Geosyntec Consultants, Inc. (Geosyntec) retained SiREM to perform SiREMNA™ testing including total iron, total sulfur, magnetic susceptibility and fraction of carbon including total organic carbon (TOC) and total inorganic carbon (TIC) from geologic materials collected from the Milwaukee Die Cast Site in Wisconsin (the Site).

Site geologic materials were collected on 15 February 2023 and received by SiREM on 17 February 2023 in good condition with a measured temperature of 1.9 °C. Refer to Attachment A for Chain of Custody documentation received with the samples.

The geologic materials were stored at 4°C upon arrival until testing commenced. Geologic core samples were opened and subsampled in an anaerobic glove box under ambient laboratory conditions. Samples for total iron and sulfur, TOC and TIC were sent to SGS Environmental (SGS) in Lakefield, Ontario for analysis. Magnetic susceptibility analysis was completed at SiREM. Refer to Attachment B for the original SGS external laboratory report.

TABLES

SiREM
Leading Science · Lasting Solutions

130 Stone Rd. W
Guelph, ON N1G 3Z2
(519) 822-2265

Analytical Results

SiREM File Reference: S-9647

Client: Geosyntec Consultants Inc.
Client Project Number: CHW8271P
Date Samples Received: February 17, 2023
Date Samples Analyzed: March 14, 16 & 22, 2023

Client Sample ID	Laboratory Sample ID	Client Sample Date	Magnetic Susceptibility Measurement	Mass of Magnetically Separable Material[(1)]	Total Iron	Total Carbon	Total Inorganic Carbon	Total Organic Carbon	Total Sulfur
			m^3/kg	mg/kg	µg/g	%	%	%	µg/g
GP-01-2023 (11-12)	23-13004	15-Feb-23	5.48E-07	870	12,000	5.24	4.78	0.462	5,700
GP-02-2023 (14-15)	23-13005	15-Feb-23	6.81E-07	1,101	11,000	5.36	5.11	0.249	5,500
GP-08-2023 (11-12)	23-13006	15-Feb-23	6.04E-07	967	12,000	6.06	5.65	0.406	4,900
GP-12-2023 (8-9)	23-13008	15-Feb-23	4.59E-07	719	12,000	5.02	4.66	0.364	4,600
GP-13-2023 (10-12)	23-13010	15-Feb-23	4.23E-07	658	16,000	5.59	5.23	0.363	3,600
GP-15-2023 (11-12)	23-13012	15-Feb-23	4.66E-07	731	13,000	5.65	4.95	0.704	4,400

Comments:

[1] Magnetically Seperable Material determined based on a calibration curve for magnetite standards provided in: *Identification and Characterization Methods for Reactive Minerals Responsible for Natural Attenuation of Chlorinated Organic Compounds in Ground Water*. EPA 600/R-9/115. December 2009.

-- - not analyzed
% - percent
< - compound not detected, the associated value is the detection limit
µg/g - microgram per gram
FeO - ferrous oxide
m^3/kg - cubic meters per kilogram
mg/kg - milligram per kilogram

Analyst:

Kela Ashworth

Kela Ashworth, B.Sc.
Senior Laboratory Technician

Results approved:

Michael Healey

Michael Healey, B.Sc.
Laboratory Supervisor I

Date:

3-Apr-23

ATTACHMENT A: Chain of Custody Documentation

Chain-of-Custody Form

siremlab.com

130 Stone Rd. W
Guelph, ON N1G 3Z2
(519) 822-2265

Lab # S-9647
pg 1 of 2

Project Name: MILWAUKEE DIE CAST SITE	Project #: CHW8271P
Project Manager: GREG JOHNSON	
Email: GJOHNSON@GEOSYNTEC.COM, DZOLP@GEOSYNTEC.COM; JPJOHNSON@GEOSYNTEC.COM	
Company: GEOSYNTEC	
Address: 10600 N. PORT WASHINGTON RD. STE. 100; MEQUON, WI 53092	
Phone #: 262-834-0226	
Sampler's Signature:	Sampler's Printed Name: DAVE ZOLP

Analysis

Client Sample ID	Lab ID	Sampling Date	Sampling Time	Matrix	# of Containers	Preservative	fraction of organic carbon	total iron	total sulfur	magnetic susceptibility	Other Information
						0	0	0	0		
GP-01-2023 (11-12)	∫	2/15/23	1345	SOIL	1		X	X	X	X	
GP-02-2023 (14-15)	∫	2/15/23	1335	SOIL	1		X	X	X	X	
GP-08-2023 (11-12)	∫	2/15/23	1355	SOIL	1		X	X	X	X	
GP-12-2023 (8-9)	∫	2/15/23	1400	SOIL	1		X	X	X	X	
GP--13-2023 (10-12)	∫	2/15/23	1412	SOIL	1		X	X	X	X	
GP-15-2023 (11-12)	∫	2/15/23	1428	SOIL	1		X	X	X	X	

Preservative Key
0. None
1. HCL
2. Other_____
3. Other_____
4. Other_____
5. Other_____
6. Other_____

Sample Receipt
Cooler Condition: intact-blue ice
Cooler Temperature: 1.9°C (KX00057)
Custody Seals: Yes ☐ No ☒

Invoice Information
P.O. # CHW8271P
Bill To: Geosyntec
10600 N. Port Washington Rd, Ste 100, Mequon, WI 53092

For Lab Use Only

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Dave Zolp	Printed Name: Kaitland Cracchiola	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: Geosyntec	Firm: SIREM	Firm:	Firm:	Firm:	Firm:
Date/Time: 2/16/2023	Date/Time: 02/17/23 1005	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

Chain-of-Custody Form

SiREM

siremlab.com

180B Market Place Blvd
Knoxville, TN 37922
1-865-291-4718 or 1-866-251-1747

Lab # S-96647

pg 2 of 2

*Project Name: Milwaukee die cast site
*Project #: CHW8271P
*Project Manager: greg johnson
*Company: geosyntec
*Email Address: gjohnson/dzolp/jpjohnson@geosyntec.com
Address (Street): 10600 N. Port Washington rd ste 100
City: Mequon
State/Province: WI
Country: USA
*Phone #: 262-834-0226
*Sampler's Signature:
*Sampler's Printed Name:

Analysis

Client Sample ID	Sampling Date	Sampling Time	Matrix	# of Containers	Gene-Trac DHC	Gene-Trac FGA	Gene-Trac DHB	Gene-Trac DHGM	Gene-Trac SRB	Volatile Fatty Acids	Dissolved hydrocarbon gases	Treatability Study	Other Information
MW-1	2/15/23	1217	GW	1	X								BK-09833
MW-6	2/14/23	1500	↓	↓	↓								BK-09834
MW-6 DUP	2/14/23	1500											BK-09836
MW-7	2/14/23	1310											BK-09831
PZ-1	2/15/23	1045											BK-09835

Preservative Key
0. None
1. HCL
2. Other
3. Other
4. Other
5. Other
6. Other

Billing Information
P.O. #:
*Bill To:

Turnaround Time Requested
Normal ☐
Rush ☐

For Lab Use Only
Cooler Condition: Intact - blue ice
Cooler Temperature: ~~5.5°C~~ 1.9°C
Custody Seals: Yes ☐ No ☒

For Lab Use Only (Bottle order: 32136)
KC created CoC per D365 proposal.
Gene-trac GW samples not listed on COC. (KC 021723)
Proposal #:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature: Kaitland Cracchiola	Signature	Signature	Signature	Signature
Printed Name	Printed Name: Kaitland Cracchiola	Printed Name	Printed Name	Printed Name	Printed Name
Firm	Firm: SiREM	Firm	Firm	Firm	Firm
Date/Time	Date/Time: 02/17/23 1005	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - return to Originator: Yellow - Lab Copy: Pink - Retained by Client

** Mandatory Fields*

SiREM

Chain-of-Custody Form

siremlab.com

180B Market Place Blvd
Knoxville, TN 37922
1-865-291-4718 or 1-866-251-1747

Lab # S-9647

*Project Name	Milwaukee die cast site
*Project #	CHW8271P
*Project Manager	greg Johnson
*Company	geosyntec
*Email Address	gjohnson/jrjohnson/dzolp@geosyntec.com
Address (Street)	10600 N. Port Washington rd ste 100
City	Mequon
State/Province	WI
Country	USA
*Phone #	262-834-0226
*Sampler's Signature	
*Sampler's Printed Name	Kaitland cracchiola

Client Sample ID	Sampling Date	Sampling Time	Matrix	# of Containers	Gene-Trac DHC	Gene-Trac FGA	Gene-Trac DHB	Gene-Trac DHGM	Gene-Trac SRB	Volatile Fatty Acids	Dissolved hydrocarbon gases	Treatability Study	Other Information
MW-1	2/20/23	1500	DNA	1	X								
MW-6	"	"	"	"	"								
MW-6 DUP	"	"	"	"	"								
MW-7	"	"	"	"	"								
PZ-1	"	"	"	"	"								

Analysis

Preservative Key
0. None
1. HCL
2. Other _____
3. Other _____
4. Other _____
5. Other _____
6. Other _____

RC 022023

Billing Information

P.O. #

*Bill To:

Turnaround Time Requested

Normal ☐
Rush ☐

For Lab Use Only

Cooler Condition: good condition

Cooler Temperature: 4.1°C

Custody Seals: Yes ☐ No ☒

For Lab Use Only

Proposal #: _____

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Kaitland cracchiola	Printed Name: Julia Heusel	Printed Name	Printed Name	Printed Name	Printed Name
Firm: SiREM	Firm: SiREM	Firm	Firm	Firm	Firm
Date/Time: 02/20/23 1600	Date/Time: 21/Feb/2023 1:50pm	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - return to Originator; Yellow - Lab Copy; Pink - Retained by Client

* Mandatory Fields

SiREM

Chain-of-Custody Form

siremlab.com

130 Stone Rd. W
Guelph, ON N1G 3Z2
(519) 822-2265

Lab # S9647
pg 1 of 2

Project Name: MILWAUKEE DIE CAST SITE	Project #: CHW8271P
Project Manager: GREG JOHNSON	
Email: GJOHNSON@GEOSYNTEC.COM; DZOLP@GEOSYNTEC.COM; JPJOHNSON@GEOSYNTEC.COM	
Company: GEOSYNTEC	
Address: 10600 N. PORT WASHINGTON RD. STE. 100; MEQUON, WI 53092	
Phone #: 262-834-0226	
Sampler's Signature:	Sampler's Printed Name: DAVE ZOLP

Preservative Key
0. None
1. HCL
2. Other
3. Other
4. Other
5. Other
6. Other

Client Sample ID	Lab ID	Sampling Date	Sampling Time	Matrix	# of Containers	Preservative	Analysis: fraction of organic carbon	Analysis: total iron	Analysis: total sulfur	Analysis: magnetic susceptibility	Other Information
						0	0	0	0		
GP-01-2023 (11-12)		2/15/23	1345	SOIL	1		x	x	x	x	
GP-02-2023 (14-15)		2/15/23	1335	SOIL	1		x	x	x	x	
GP-08-2023 (11-12)		2/15/23	1355	SOIL	1		x	x	x	x	
GP-12-2023 (8-9)		2/15/23	1400	SOIL	1		x	x	x	x	
GP-13-2023 (10-12)		2/15/23	1412	SOIL	1		x	x	x	x	
GP-15-2023 (11-12)		2/15/23	1428	SOIL	1		x	x	x	x	

Sample Receipt

Cooler Condition: intact-blue ice

Cooler Temperature: 1.9°C 5.1°C (COC#8) (KX00057)

Custody Seals: Yes ☐ No ☒

Invoice Information

P.O. # CHW8271P

Bill To: Geosyntec

10600 N. Port Washington Rd, Ste 100, Mequon, WI 53092

For Lab Use Only

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Dave Zolp	Printed Name: Kaitland Cracchiola	Printed Name: Kaitland Cracchiola	Printed Name: Julia Howard	Printed Name	Printed Name
Firm: Geosyntec	Firm: SiREM	Firm: SiREM	Firm: SiREM	Firm	Firm
Date/Time: 2/16/2023	Date/Time: 02/17/23 1005	Date/Time: 02/28/23 1530	Date/Time: 2-Mar-2023 2:53pm	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

ATTACHMENT B: External Laboratory Reports

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Project : PO#800005846A

29-March-2023

SiREM Laboratory
Attn : Kela Ashworth

130 Stone Rd. W
Guelph, ON
N1G 3Z2, Canada

Phone: 519-822-2265
Fax:519-822-3151

Date Rec. : 15 March 2023
LR Report: **CA14331-MAR23**
Reference: S-9647 - PO#800005846A

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: S-9647-1 (GP-01)	6: S-9647-2 (GP-02)	7: S-9647-3 (GP-08)
Sample Date & Time					14-Mar-23	14-Mar-23	14-Mar-23
TOC [%]	22-Mar-23	08:01	22-Mar-23	11:23	0.462	0.249	0.406
TIC [%]	22-Mar-23	08:01	22-Mar-23	11:23	4.78	5.11	5.65
Fe [µg/g]	16-Mar-23	15:29	17-Mar-23	16:02	12000	11000	12000
S [µg/g]	16-Mar-23	15:29	17-Mar-23	16:02	5700	5500	4900

Analysis	8: S-9647-4 (GP-12)	9: S-9647-5 (GP-13)	10: S-9647-6 (GP-15)
Sample Date & Time	14-Mar-23	14-Mar-23	14-Mar-23
TOC [%]	0.364	0.363	0.704
TIC [%]	4.66	5.23	4.95
Fe [µg/g]	12000	16000	13000
S [µg/g]	4600	3600	4400

Catharine Arnold

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

0003281103

ATTACHMENT 6

Groundwater Sample Laboratory Reports

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

February 27, 2023

Jeremiah Johnson
GEOSYNTEC CONSULTANTS
10600 North Port Washington Rd
Suite 100
Thiensville, WI 53092

RE: Project: CHW8271P MDCC
Pace Project No.: 40258293

Dear Jeremiah Johnson:

Enclosed are the analytical results for sample(s) received by the laboratory on February 15, 2023. 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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: CHW8271P MDCC
Pace Project No.: 40258293

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
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: CHW8271P MDCC
Pace Project No.: 40258293

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40258293001	**MW-1**	Water	02/15/23 12:17	02/15/23 15:44
40258293002	**PZ-1**	Water	02/15/23 10:45	02/15/23 15:44
40258293003	**MW-6**	Water	02/14/23 15:00	02/15/23 15:44
40258293004	**MW-7**	Water	02/14/23 13:10	02/15/23 15:44
40258293005	**TB-20230215**	Water	02/15/23 14:00	02/15/23 15:44
40258293006	**MW-6 DUP**	Water	02/14/23 15:00	02/15/23 15:44

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: CHW8271P MDCC
Pace Project No.: 40258293

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40258293001	**MW-1**	EPA 8015B Modified	KHB	3
		EPA 6010D	SIS	1
		EPA 6010D	SIS	1
		EPA 8260	CXJ	64
		SM 4500-S F (2000)	EXM	1
		EPA 300.0	HMB	2
		SM 5310C	TJJ	1
40258293002	**PZ-1**	EPA 8015B Modified	KHB	3
		EPA 6010D	SIS	1
		EPA 6010D	SIS	1
		EPA 8260	CXJ	64
		SM 4500-S F (2000)	EXM	1
		EPA 300.0	HMB	3
		SM 5310C	TJJ	1
40258293003	**MW-6**	EPA 8015B Modified	KHB	3
		EPA 6010D	SIS	1
		EPA 6010D	SIS	1
		EPA 8260	CXJ	64
		SM 4500-S F (2000)	EXM	1
		EPA 300.0	HMB	2
		SM 5310C	TJJ	1
40258293004	**MW-7**	EPA 8015B Modified	KHB	3
		EPA 6010D	SIS	1
		EPA 6010D	SIS	1
		EPA 8260	CXJ	64
		SM 4500-S F (2000)	EXM	1
		EPA 300.0	HMB	2
		SM 5310C	TJJ	1
40258293005	**TB-20230215**	EPA 8260	CXJ	64
40258293006	**MW-6 DUP**	EPA 8015B Modified	KHB	3
		EPA 6010D	SIS	1
		EPA 6010D	SIS	1
		EPA 8260	CXJ	64
		SM 4500-S F (2000)	EXM	1
		EPA 300.0	HMB	2
		SM 5310C	TJJ	1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: CHW8271P MDCC
Pace Project No.: 40258293

Lab ID	Sample ID	Method	Analysts	Analytes Reported

PASI-G = Pace Analytical Services - Green Bay

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P MDCC
Pace Project No.: 40258293

Sample: MW-1 **Lab ID: 40258293001** Collected: 02/15/23 12:17 Received: 02/15/23 15:44 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	**21.4**	ug/L	5.6	0.39	1		02/16/23 10:30	74-84-0	
Ethene	**83.7**	ug/L	5.0	0.25	1		02/16/23 10:30	74-85-1	
Methane	**1260**	ug/L	56.0	11.5	20		02/16/23 12:32	74-82-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Iron	**1910**	ug/L	100	56.7	1	02/17/23 05:12	02/17/23 18:00	7439-89-6	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Iron, Dissolved	**363**	ug/L	100	56.7	1	02/17/23 05:20	02/17/23 18:46	7439-89-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<17.8**	ug/L	50.0	17.8	50		02/22/23 16:06	630-20-6	
1,1,1-Trichloroethane	**<15.1**	ug/L	50.0	15.1	50		02/22/23 16:06	71-55-6	
1,1,2,2-Tetrachloroethane	**<18.9**	ug/L	50.0	18.9	50		02/22/23 16:06	79-34-5	L1
1,1,2-Trichloroethane	**<17.2**	ug/L	250	17.2	50		02/22/23 16:06	79-00-5	
1,1-Dichloroethane	**<14.8**	ug/L	50.0	14.8	50		02/22/23 16:06	75-34-3	
1,1-Dichloroethene	**<29.1**	ug/L	50.0	29.1	50		02/22/23 16:06	75-35-4	
1,1-Dichloropropene	**<20.5**	ug/L	50.0	20.5	50		02/22/23 16:06	563-58-6	
1,2,3-Trichlorobenzene	**<50.9**	ug/L	250	50.9	50		02/22/23 16:06	87-61-6	
1,2,3-Trichloropropane	**<27.8**	ug/L	250	27.8	50		02/22/23 16:06	96-18-4	
1,2,4-Trichlorobenzene	**<47.5**	ug/L	250	47.5	50		02/22/23 16:06	120-82-1	
1,2,4-Trimethylbenzene	**<22.4**	ug/L	50.0	22.4	50		02/22/23 16:06	95-63-6	
1,2-Dibromo-3-chloropropane	**<118**	ug/L	250	118	50		02/22/23 16:06	96-12-8	
1,2-Dibromoethane (EDB)	**<15.5**	ug/L	50.0	15.5	50		02/22/23 16:06	106-93-4	
1,2-Dichlorobenzene	**<16.3**	ug/L	50.0	16.3	50		02/22/23 16:06	95-50-1	
1,2-Dichloroethane	**<14.6**	ug/L	50.0	14.6	50		02/22/23 16:06	107-06-2	
1,2-Dichloropropane	**<22.4**	ug/L	50.0	22.4	50		02/22/23 16:06	78-87-5	L1
1,3,5-Trimethylbenzene	**<17.9**	ug/L	50.0	17.9	50		02/22/23 16:06	108-67-8	
1,3-Dichlorobenzene	**<17.6**	ug/L	50.0	17.6	50		02/22/23 16:06	541-73-1	
1,3-Dichloropropane	**<15.2**	ug/L	50.0	15.2	50		02/22/23 16:06	142-28-9	
1,4-Dichlorobenzene	**<44.6**	ug/L	50.0	44.6	50		02/22/23 16:06	106-46-7	
2,2-Dichloropropane	**<209**	ug/L	250	209	50		02/22/23 16:06	594-20-7	
2-Chlorotoluene	**<44.5**	ug/L	250	44.5	50		02/22/23 16:06	95-49-8	
4-Chlorotoluene	**<44.7**	ug/L	250	44.7	50		02/22/23 16:06	106-43-4	
Benzene	**<14.8**	ug/L	50.0	14.8	50		02/22/23 16:06	71-43-2	
Bromobenzene	**<18.0**	ug/L	50.0	18.0	50		02/22/23 16:06	108-86-1	
Bromochloromethane	**<17.9**	ug/L	250	17.9	50		02/22/23 16:06	74-97-5	
Bromodichloromethane	**<20.8**	ug/L	50.0	20.8	50		02/22/23 16:06	75-27-4	
Bromoform	**<190**	ug/L	250	190	50		02/22/23 16:06	75-25-2	
Bromomethane	**<59.6**	ug/L	250	59.6	50		02/22/23 16:06	74-83-9	
Carbon tetrachloride	**<18.5**	ug/L	50.0	18.5	50		02/22/23 16:06	56-23-5	
Chlorobenzene	**<42.8**	ug/L	50.0	42.8	50		02/22/23 16:06	108-90-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P MDCC
Pace Project No.: 40258293

Sample: MW-1 **Lab ID: 40258293001** Collected: 02/15/23 12:17 Received: 02/15/23 15:44 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Chloroethane	**<69.0**	ug/L	250	69.0	50		02/22/23 16:06	75-00-3	
Chloroform	**<59.1**	ug/L	250	59.1	50		02/22/23 16:06	67-66-3	
Chloromethane	**<81.8**	ug/L	250	81.8	50		02/22/23 16:06	74-87-3	
Dibromochloromethane	**<132**	ug/L	250	132	50		02/22/23 16:06	124-48-1	
Dibromomethane	**<49.5**	ug/L	250	49.5	50		02/22/23 16:06	74-95-3	
Dichlorodifluoromethane	**<22.8**	ug/L	250	22.8	50		02/22/23 16:06	75-71-8	
Diisopropyl ether	**<55.0**	ug/L	250	55.0	50		02/22/23 16:06	108-20-3	
Ethylbenzene	**<16.3**	ug/L	50.0	16.3	50		02/22/23 16:06	100-41-4	
Hexachloro-1,3-butadiene	**<137**	ug/L	250	137	50		02/22/23 16:06	87-68-3	
Isopropylbenzene (Cumene)	**<50.0**	ug/L	250	50.0	50		02/22/23 16:06	98-82-8	
Methyl-tert-butyl ether	**<56.5**	ug/L	250	56.5	50		02/22/23 16:06	1634-04-4	
Methylene Chloride	**<16.0**	ug/L	250	16.0	50		02/22/23 16:06	75-09-2	
Naphthalene	**<56.5**	ug/L	250	56.5	50		02/22/23 16:06	91-20-3	
Styrene	**<17.8**	ug/L	50.0	17.8	50		02/22/23 16:06	100-42-5	
Tetrachloroethene	**3290**	ug/L	50.0	20.4	50		02/22/23 16:06	127-18-4	
Toluene	**<14.4**	ug/L	50.0	14.4	50		02/22/23 16:06	108-88-3	
Trichloroethene	**3370**	ug/L	50.0	16.0	50		02/22/23 16:06	79-01-6	
Trichlorofluoromethane	**<20.9**	ug/L	50.0	20.9	50		02/22/23 16:06	75-69-4	
Vinyl chloride	**339**	ug/L	50.0	8.7	50		02/22/23 16:06	75-01-4	
cis-1,2-Dichloroethene	**4130**	ug/L	50.0	23.6	50		02/22/23 16:06	156-59-2	
cis-1,3-Dichloropropene	**<17.9**	ug/L	50.0	17.9	50		02/22/23 16:06	10061-01-5	
m&p-Xylene	**<35.0**	ug/L	100	35.0	50		02/22/23 16:06	179601-23-1	
n-Butylbenzene	**<42.9**	ug/L	50.0	42.9	50		02/22/23 16:06	104-51-8	
n-Propylbenzene	**<17.3**	ug/L	50.0	17.3	50		02/22/23 16:06	103-65-1	
o-Xylene	**<17.4**	ug/L	50.0	17.4	50		02/22/23 16:06	95-47-6	
p-Isopropyltoluene	**<52.2**	ug/L	250	52.2	50		02/22/23 16:06	99-87-6	
sec-Butylbenzene	**<21.2**	ug/L	50.0	21.2	50		02/22/23 16:06	135-98-8	
tert-Butylbenzene	**<29.3**	ug/L	50.0	29.3	50		02/22/23 16:06	98-06-6	
trans-1,2-Dichloroethene	**<26.4**	ug/L	50.0	26.4	50		02/22/23 16:06	156-60-5	
trans-1,3-Dichloropropene	**<173**	ug/L	250	173	50		02/22/23 16:06	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	118	%	70-130		50		02/22/23 16:06	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		50		02/22/23 16:06	2199-69-1	
Toluene-d8 (S)	110	%	70-130		50		02/22/23 16:06	2037-26-5	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
	Pace Analytical Services - Green Bay								
Sulfide	**<1.2**	mg/L	4.0	1.2	1		02/20/23 10:49		1q
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Nitrate as N	**<0.044**	mg/L	0.15	0.044	1		02/15/23 19:23	14797-55-8	
Sulfate	**228**	mg/L	10.0	2.2	5		02/15/23 21:51	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P MDCC
Pace Project No.: 40258293

Sample: MW-1 **Lab ID: 40258293001** Collected: 02/15/23 12:17 Received: 02/15/23 15:44 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**2.7**	mg/L	0.50	0.14	1		02/22/23 11:17	7440-44-0	

Sample: PZ-1 **Lab ID: 40258293002** Collected: 02/15/23 10:45 Received: 02/15/23 15:44 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	**<0.39**	ug/L	5.6	0.39	1		02/16/23 10:53	74-84-0	
Ethene	**32.8**	ug/L	5.0	0.25	1		02/16/23 10:53	74-85-1	M1
Methane	**40.0**	ug/L	2.8	0.58	1		02/16/23 10:53	74-82-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Iron	**1010**	ug/L	100	56.7	1	02/17/23 05:12	02/17/23 17:52	7439-89-6	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Iron, Dissolved	**1150**	ug/L	100	56.7	1	02/17/23 05:20	02/17/23 18:38	7439-89-6	D9
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<3.6**	ug/L	10.0	3.6	10		02/17/23 12:13	630-20-6	
1,1,1-Trichloroethane	**<3.0**	ug/L	10.0	3.0	10		02/17/23 12:13	71-55-6	
1,1,2,2-Tetrachloroethane	**<3.8**	ug/L	10.0	3.8	10		02/17/23 12:13	79-34-5	
1,1,2-Trichloroethane	**<3.4**	ug/L	50.0	3.4	10		02/17/23 12:13	79-00-5	
1,1-Dichloroethane	**<3.0**	ug/L	10.0	3.0	10		02/17/23 12:13	75-34-3	
1,1-Dichloroethene	**<5.8**	ug/L	10.0	5.8	10		02/17/23 12:13	75-35-4	
1,1-Dichloropropene	**<4.1**	ug/L	10.0	4.1	10		02/17/23 12:13	563-58-6	
1,2,3-Trichlorobenzene	**<10.2**	ug/L	50.0	10.2	10		02/17/23 12:13	87-61-6	
1,2,3-Trichloropropane	**<5.6**	ug/L	50.0	5.6	10		02/17/23 12:13	96-18-4	
1,2,4-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		02/17/23 12:13	120-82-1	
1,2,4-Trimethylbenzene	**<4.5**	ug/L	10.0	4.5	10		02/17/23 12:13	95-63-6	
1,2-Dibromo-3-chloropropane	**<23.7**	ug/L	50.0	23.7	10		02/17/23 12:13	96-12-8	
1,2-Dibromoethane (EDB)	**<3.1**	ug/L	10.0	3.1	10		02/17/23 12:13	106-93-4	
1,2-Dichlorobenzene	**<3.3**	ug/L	10.0	3.3	10		02/17/23 12:13	95-50-1	
1,2-Dichloroethane	**<2.9**	ug/L	10.0	2.9	10		02/17/23 12:13	107-06-2	
1,2-Dichloropropane	**<4.5**	ug/L	10.0	4.5	10		02/17/23 12:13	78-87-5	
1,3,5-Trimethylbenzene	**<3.6**	ug/L	10.0	3.6	10		02/17/23 12:13	108-67-8	
1,3-Dichlorobenzene	**<3.5**	ug/L	10.0	3.5	10		02/17/23 12:13	541-73-1	
1,3-Dichloropropane	**<3.0**	ug/L	10.0	3.0	10		02/17/23 12:13	142-28-9	
1,4-Dichlorobenzene	**<8.9**	ug/L	10.0	8.9	10		02/17/23 12:13	106-46-7	
2,2-Dichloropropane	**<41.8**	ug/L	50.0	41.8	10		02/17/23 12:13	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P MDCC
Pace Project No.: 40258293

Sample: PZ-1 **Lab ID: 40258293002** Collected: 02/15/23 10:45 Received: 02/15/23 15:44 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
2-Chlorotoluene	**<8.9**	ug/L	50.0	8.9	10		02/17/23 12:13	95-49-8	
4-Chlorotoluene	**<8.9**	ug/L	50.0	8.9	10		02/17/23 12:13	106-43-4	
Benzene	**<3.0**	ug/L	10.0	3.0	10		02/17/23 12:13	71-43-2	
Bromobenzene	**<3.6**	ug/L	10.0	3.6	10		02/17/23 12:13	108-86-1	
Bromochloromethane	**<3.6**	ug/L	50.0	3.6	10		02/17/23 12:13	74-97-5	
Bromodichloromethane	**<4.2**	ug/L	10.0	4.2	10		02/17/23 12:13	75-27-4	
Bromoform	**<38.0**	ug/L	50.0	38.0	10		02/17/23 12:13	75-25-2	
Bromomethane	**<11.9**	ug/L	50.0	11.9	10		02/17/23 12:13	74-83-9	
Carbon tetrachloride	**<3.7**	ug/L	10.0	3.7	10		02/17/23 12:13	56-23-5	
Chlorobenzene	**<8.6**	ug/L	10.0	8.6	10		02/17/23 12:13	108-90-7	
Chloroethane	**<13.8**	ug/L	50.0	13.8	10		02/17/23 12:13	75-00-3	
Chloroform	**<11.8**	ug/L	50.0	11.8	10		02/17/23 12:13	67-66-3	
Chloromethane	**<16.4**	ug/L	50.0	16.4	10		02/17/23 12:13	74-87-3	
Dibromochloromethane	**<26.4**	ug/L	50.0	26.4	10		02/17/23 12:13	124-48-1	
Dibromomethane	**<9.9**	ug/L	50.0	9.9	10		02/17/23 12:13	74-95-3	
Dichlorodifluoromethane	**<4.6**	ug/L	50.0	4.6	10		02/17/23 12:13	75-71-8	L2,M0
Diisopropyl ether	**<11.0**	ug/L	50.0	11.0	10		02/17/23 12:13	108-20-3	
Ethylbenzene	**<3.3**	ug/L	10.0	3.3	10		02/17/23 12:13	100-41-4	
Hexachloro-1,3-butadiene	**<27.4**	ug/L	50.0	27.4	10		02/17/23 12:13	87-68-3	
Isopropylbenzene (Cumene)	**<10.0**	ug/L	50.0	10.0	10		02/17/23 12:13	98-82-8	
Methyl-tert-butyl ether	**<11.3**	ug/L	50.0	11.3	10		02/17/23 12:13	1634-04-4	
Methylene Chloride	**<3.2**	ug/L	50.0	3.2	10		02/17/23 12:13	75-09-2	
Naphthalene	**<11.3**	ug/L	50.0	11.3	10		02/17/23 12:13	91-20-3	
Styrene	**<3.6**	ug/L	10.0	3.6	10		02/17/23 12:13	100-42-5	
Tetrachloroethene	**115**	ug/L	10.0	4.1	10		02/17/23 12:13	127-18-4	
Toluene	**<2.9**	ug/L	10.0	2.9	10		02/17/23 12:13	108-88-3	
Trichloroethene	**51.3**	ug/L	10.0	3.2	10		02/17/23 12:13	79-01-6	
Trichlorofluoromethane	**<4.2**	ug/L	10.0	4.2	10		02/17/23 12:13	75-69-4	
Vinyl chloride	**110**	ug/L	10.0	1.7	10		02/17/23 12:13	75-01-4	M1
cis-1,2-Dichloroethene	**699**	ug/L	10.0	4.7	10		02/17/23 12:13	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	10.0	3.6	10		02/17/23 12:13	10061-01-5	
m&p-Xylene	**<7.0**	ug/L	20.0	7.0	10		02/17/23 12:13	179601-23-1	
n-Butylbenzene	**<8.6**	ug/L	10.0	8.6	10		02/17/23 12:13	104-51-8	
n-Propylbenzene	**<3.5**	ug/L	10.0	3.5	10		02/17/23 12:13	103-65-1	
o-Xylene	**<3.5**	ug/L	10.0	3.5	10		02/17/23 12:13	95-47-6	
p-Isopropyltoluene	**<10.4**	ug/L	50.0	10.4	10		02/17/23 12:13	99-87-6	
sec-Butylbenzene	**<4.2**	ug/L	10.0	4.2	10		02/17/23 12:13	135-98-8	
tert-Butylbenzene	**<5.9**	ug/L	10.0	5.9	10		02/17/23 12:13	98-06-6	
trans-1,2-Dichloroethene	**13.8**	ug/L	10.0	5.3	10		02/17/23 12:13	156-60-5	
trans-1,3-Dichloropropene	**<34.6**	ug/L	50.0	34.6	10		02/17/23 12:13	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		10		02/17/23 12:13	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		10		02/17/23 12:13	2199-69-1	
Toluene-d8 (S)	109	%	70-130		10		02/17/23 12:13	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P MDCC
Pace Project No.: 40258293

Sample: PZ-1 **Lab ID: 40258293002** Collected: 02/15/23 10:45 Received: 02/15/23 15:44 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000) Pace Analytical Services - Green Bay								
Sulfide	**<1.2**	mg/L	4.0	1.2	1		02/20/23 10:51		1q
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	**130**	mg/L	10.0	2.2	5		02/15/23 22:06	16887-00-6	
Nitrate as N	**<0.044**	mg/L	0.15	0.044	1		02/15/23 19:37	14797-55-8	M0
Sulfate	**96.0**	mg/L	10.0	2.2	5		02/15/23 22:06	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**2.3**	mg/L	0.50	0.14	1		02/22/23 11:34	7440-44-0	

Sample: MW-6 **Lab ID: 40258293003** Collected: 02/14/23 15:00 Received: 02/15/23 15:44 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	**<0.39**	ug/L	5.6	0.39	1		02/16/23 11:00	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		02/16/23 11:00	74-85-1	
Methane	**187**	ug/L	2.8	0.58	1		02/16/23 11:00	74-82-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Iron	**1540**	ug/L	100	56.7	1	02/17/23 05:12	02/17/23 18:04	7439-89-6	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Iron, Dissolved	**265**	ug/L	100	56.7	1	02/17/23 05:20	02/17/23 18:50	7439-89-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	1.0	0.36	1		02/17/23 17:27	630-20-6	
1,1,1-Trichloroethane	**7.3**	ug/L	1.0	0.30	1		02/17/23 17:27	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		02/17/23 17:27	79-34-5	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		02/17/23 17:27	79-00-5	
1,1-Dichloroethane	**15.4**	ug/L	1.0	0.30	1		02/17/23 17:27	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		02/17/23 17:27	75-35-4	
1,1-Dichloropropene	**<0.41**	ug/L	1.0	0.41	1		02/17/23 17:27	563-58-6	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	5.0	1.0	1		02/17/23 17:27	87-61-6	
1,2,3-Trichloropropane	**<0.56**	ug/L	5.0	0.56	1		02/17/23 17:27	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		02/17/23 17:27	120-82-1	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		02/17/23 17:27	95-63-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P MDCC
Pace Project No.: 40258293

Sample: MW-6 **Lab ID: 40258293003** Collected: 02/14/23 15:00 Received: 02/15/23 15:44 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		02/17/23 17:27	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		02/17/23 17:27	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		02/17/23 17:27	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		02/17/23 17:27	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		02/17/23 17:27	78-87-5	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		02/17/23 17:27	108-67-8	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		02/17/23 17:27	541-73-1	
1,3-Dichloropropane	**<0.30**	ug/L	1.0	0.30	1		02/17/23 17:27	142-28-9	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		02/17/23 17:27	106-46-7	
2,2-Dichloropropane	**<4.2**	ug/L	5.0	4.2	1		02/17/23 17:27	594-20-7	
2-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		02/17/23 17:27	95-49-8	
4-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		02/17/23 17:27	106-43-4	
Benzene	**<0.30**	ug/L	1.0	0.30	1		02/17/23 17:27	71-43-2	
Bromobenzene	**<0.36**	ug/L	1.0	0.36	1		02/17/23 17:27	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		02/17/23 17:27	74-97-5	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		02/17/23 17:27	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		02/17/23 17:27	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		02/17/23 17:27	74-83-9	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		02/17/23 17:27	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		02/17/23 17:27	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		02/17/23 17:27	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		02/17/23 17:27	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		02/17/23 17:27	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		02/17/23 17:27	124-48-1	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		02/17/23 17:27	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		02/17/23 17:27	75-71-8	L2
Diisopropyl ether	**<1.1**	ug/L	5.0	1.1	1		02/17/23 17:27	108-20-3	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		02/17/23 17:27	100-41-4	
Hexachloro-1,3-butadiene	**<2.7**	ug/L	5.0	2.7	1		02/17/23 17:27	87-68-3	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	5.0	1.0	1		02/17/23 17:27	98-82-8	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		02/17/23 17:27	1634-04-4	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		02/17/23 17:27	75-09-2	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		02/17/23 17:27	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		02/17/23 17:27	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		02/17/23 17:27	127-18-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		02/17/23 17:27	108-88-3	
Trichloroethene	**10.1**	ug/L	1.0	0.32	1		02/17/23 17:27	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		02/17/23 17:27	75-69-4	
Vinyl chloride	**1.6**	ug/L	1.0	0.17	1		02/17/23 17:27	75-01-4	
cis-1,2-Dichloroethene	**56.2**	ug/L	1.0	0.47	1		02/17/23 17:27	156-59-2	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		02/17/23 17:27	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		02/17/23 17:27	179601-23-1	
n-Butylbenzene	**<0.86**	ug/L	1.0	0.86	1		02/17/23 17:27	104-51-8	
n-Propylbenzene	**<0.35**	ug/L	1.0	0.35	1		02/17/23 17:27	103-65-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		02/17/23 17:27	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P MDCC
Pace Project No.: 40258293

Sample: MW-6 **Lab ID: 40258293003** Collected: 02/14/23 15:00 Received: 02/15/23 15:44 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
p-Isopropyltoluene	**<1.0**	ug/L	5.0	1.0	1		02/17/23 17:27	99-87-6	
sec-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		02/17/23 17:27	135-98-8	
tert-Butylbenzene	**<0.59**	ug/L	1.0	0.59	1		02/17/23 17:27	98-06-6	
trans-1,2-Dichloroethene	**2.5**	ug/L	1.0	0.53	1		02/17/23 17:27	156-60-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		02/17/23 17:27	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		02/17/23 17:27	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		02/17/23 17:27	2199-69-1	
Toluene-d8 (S)	108	%	70-130		1		02/17/23 17:27	2037-26-5	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000) Pace Analytical Services - Green Bay								
Sulfide	**<1.2**	mg/L	4.0	1.2	1		02/20/23 10:57		1q
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Nitrate as N	**<0.044**	mg/L	0.15	0.044	1		02/15/23 20:22	14797-55-8	
Sulfate	**247**	mg/L	10.0	2.2	5		02/15/23 22:51	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**3.0**	mg/L	0.50	0.14	1		02/22/23 12:21	7440-44-0	

Sample: MW-7 **Lab ID: 40258293004** Collected: 02/14/23 13:10 Received: 02/15/23 15:44 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	**<0.39**	ug/L	5.6	0.39	1		02/16/23 11:06	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		02/16/23 11:06	74-85-1	
Methane	**0.99J**	ug/L	2.8	0.58	1		02/16/23 11:06	74-82-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Iron	**58.8J**	ug/L	100	56.7	1	02/17/23 05:12	02/17/23 18:06	7439-89-6	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Iron, Dissolved	**<56.7**	ug/L	100	56.7	1	02/17/23 05:20	02/17/23 18:52	7439-89-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P MDCC
Pace Project No.: 40258293

Sample: MW-7 **Lab ID: 40258293004** Collected: 02/14/23 13:10 Received: 02/15/23 15:44 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.89**	ug/L	2.5	0.89	2.5		02/17/23 18:26	630-20-6	
1,1,1-Trichloroethane	**5.6**	ug/L	2.5	0.76	2.5		02/17/23 18:26	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.94**	ug/L	2.5	0.94	2.5		02/17/23 18:26	79-34-5	
1,1,2-Trichloroethane	**<0.86**	ug/L	12.5	0.86	2.5		02/17/23 18:26	79-00-5	
1,1-Dichloroethane	**6.1**	ug/L	2.5	0.74	2.5		02/17/23 18:26	75-34-3	
1,1-Dichloroethene	**1.9J**	ug/L	2.5	1.5	2.5		02/17/23 18:26	75-35-4	
1,1-Dichloropropene	**<1.0**	ug/L	2.5	1.0	2.5		02/17/23 18:26	563-58-6	
1,2,3-Trichlorobenzene	**<2.5**	ug/L	12.5	2.5	2.5		02/17/23 18:26	87-61-6	
1,2,3-Trichloropropane	**<1.4**	ug/L	12.5	1.4	2.5		02/17/23 18:26	96-18-4	
1,2,4-Trichlorobenzene	**<2.4**	ug/L	12.5	2.4	2.5		02/17/23 18:26	120-82-1	
1,2,4-Trimethylbenzene	**<1.1**	ug/L	2.5	1.1	2.5		02/17/23 18:26	95-63-6	
1,2-Dibromo-3-chloropropane	**<5.9**	ug/L	12.5	5.9	2.5		02/17/23 18:26	96-12-8	
1,2-Dibromoethane (EDB)	**<0.77**	ug/L	2.5	0.77	2.5		02/17/23 18:26	106-93-4	
1,2-Dichlorobenzene	**<0.81**	ug/L	2.5	0.81	2.5		02/17/23 18:26	95-50-1	
1,2-Dichloroethane	**<0.73**	ug/L	2.5	0.73	2.5		02/17/23 18:26	107-06-2	
1,2-Dichloropropane	**<1.1**	ug/L	2.5	1.1	2.5		02/17/23 18:26	78-87-5	
1,3,5-Trimethylbenzene	**<0.89**	ug/L	2.5	0.89	2.5		02/17/23 18:26	108-67-8	
1,3-Dichlorobenzene	**<0.88**	ug/L	2.5	0.88	2.5		02/17/23 18:26	541-73-1	
1,3-Dichloropropane	**<0.76**	ug/L	2.5	0.76	2.5		02/17/23 18:26	142-28-9	
1,4-Dichlorobenzene	**<2.2**	ug/L	2.5	2.2	2.5		02/17/23 18:26	106-46-7	
2,2-Dichloropropane	**<10.4**	ug/L	12.5	10.4	2.5		02/17/23 18:26	594-20-7	
2-Chlorotoluene	**<2.2**	ug/L	12.5	2.2	2.5		02/17/23 18:26	95-49-8	
4-Chlorotoluene	**<2.2**	ug/L	12.5	2.2	2.5		02/17/23 18:26	106-43-4	
Benzene	**<0.74**	ug/L	2.5	0.74	2.5		02/17/23 18:26	71-43-2	
Bromobenzene	**<0.90**	ug/L	2.5	0.90	2.5		02/17/23 18:26	108-86-1	
Bromochloromethane	**<0.89**	ug/L	12.5	0.89	2.5		02/17/23 18:26	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	2.5	1.0	2.5		02/17/23 18:26	75-27-4	
Bromoform	**<9.5**	ug/L	12.5	9.5	2.5		02/17/23 18:26	75-25-2	
Bromomethane	**<3.0**	ug/L	12.5	3.0	2.5		02/17/23 18:26	74-83-9	
Carbon tetrachloride	**<0.92**	ug/L	2.5	0.92	2.5		02/17/23 18:26	56-23-5	
Chlorobenzene	**<2.1**	ug/L	2.5	2.1	2.5		02/17/23 18:26	108-90-7	
Chloroethane	**<3.4**	ug/L	12.5	3.4	2.5		02/17/23 18:26	75-00-3	
Chloroform	**<3.0**	ug/L	12.5	3.0	2.5		02/17/23 18:26	67-66-3	
Chloromethane	**<4.1**	ug/L	12.5	4.1	2.5		02/17/23 18:26	74-87-3	
Dibromochloromethane	**<6.6**	ug/L	12.5	6.6	2.5		02/17/23 18:26	124-48-1	
Dibromomethane	**<2.5**	ug/L	12.5	2.5	2.5		02/17/23 18:26	74-95-3	
Dichlorodifluoromethane	**<1.1**	ug/L	12.5	1.1	2.5		02/17/23 18:26	75-71-8	L2
Diisopropyl ether	**<2.8**	ug/L	12.5	2.8	2.5		02/17/23 18:26	108-20-3	
Ethylbenzene	**<0.81**	ug/L	2.5	0.81	2.5		02/17/23 18:26	100-41-4	
Hexachloro-1,3-butadiene	**<6.8**	ug/L	12.5	6.8	2.5		02/17/23 18:26	87-68-3	
Isopropylbenzene (Cumene)	**<2.5**	ug/L	12.5	2.5	2.5		02/17/23 18:26	98-82-8	
Methyl-tert-butyl ether	**<2.8**	ug/L	12.5	2.8	2.5		02/17/23 18:26	1634-04-4	
Methylene Chloride	**<0.80**	ug/L	12.5	0.80	2.5		02/17/23 18:26	75-09-2	
Naphthalene	**<2.8**	ug/L	12.5	2.8	2.5		02/17/23 18:26	91-20-3	
Styrene	**<0.89**	ug/L	2.5	0.89	2.5		02/17/23 18:26	100-42-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P MDCC
Pace Project No.: 40258293

Sample: MW-7 **Lab ID: 40258293004** Collected: 02/14/23 13:10 Received: 02/15/23 15:44 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Tetrachloroethene	**10.5**	ug/L	2.5	1.0	2.5		02/17/23 18:26	127-18-4	
Toluene	**<0.72**	ug/L	2.5	0.72	2.5		02/17/23 18:26	108-88-3	
Trichloroethene	**24.5**	ug/L	2.5	0.80	2.5		02/17/23 18:26	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	2.5	1.0	2.5		02/17/23 18:26	75-69-4	
Vinyl chloride	**5.4**	ug/L	2.5	0.44	2.5		02/17/23 18:26	75-01-4	
cis-1,2-Dichloroethene	**528**	ug/L	2.5	1.2	2.5		02/17/23 18:26	156-59-2	
cis-1,3-Dichloropropene	**<0.90**	ug/L	2.5	0.90	2.5		02/17/23 18:26	10061-01-5	
m&p-Xylene	**<1.8**	ug/L	5.0	1.8	2.5		02/17/23 18:26	179601-23-1	
n-Butylbenzene	**<2.1**	ug/L	2.5	2.1	2.5		02/17/23 18:26	104-51-8	
n-Propylbenzene	**<0.86**	ug/L	2.5	0.86	2.5		02/17/23 18:26	103-65-1	
o-Xylene	**<0.87**	ug/L	2.5	0.87	2.5		02/17/23 18:26	95-47-6	
p-Isopropyltoluene	**<2.6**	ug/L	12.5	2.6	2.5		02/17/23 18:26	99-87-6	
sec-Butylbenzene	**<1.1**	ug/L	2.5	1.1	2.5		02/17/23 18:26	135-98-8	
tert-Butylbenzene	**<1.5**	ug/L	2.5	1.5	2.5		02/17/23 18:26	98-06-6	
trans-1,2-Dichloroethene	**29.5**	ug/L	2.5	1.3	2.5		02/17/23 18:26	156-60-5	
trans-1,3-Dichloropropene	**<8.7**	ug/L	12.5	8.7	2.5		02/17/23 18:26	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		2.5		02/17/23 18:26	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		2.5		02/17/23 18:26	2199-69-1	
Toluene-d8 (S)	108	%	70-130		2.5		02/17/23 18:26	2037-26-5	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
	Pace Analytical Services - Green Bay								
Sulfide	**<1.2**	mg/L	4.0	1.2	1		02/20/23 11:00		1q
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Nitrate as N	**<0.044**	mg/L	0.15	0.044	1		02/15/23 20:37	14797-55-8	
Sulfate	**128**	mg/L	10.0	2.2	5		02/15/23 23:05	14808-79-8	
5310C TOC	Analytical Method: SM 5310C								
	Pace Analytical Services - Green Bay								
Total Organic Carbon	**2.4**	mg/L	0.50	0.14	1		02/22/23 12:36	7440-44-0	

Sample: TB-20230215 **Lab ID: 40258293005** Collected: 02/15/23 14:00 Received: 02/15/23 15:44 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	1.0	0.36	1		02/17/23 13:51	630-20-6	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		02/17/23 13:51	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		02/17/23 13:51	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P MDCC
Pace Project No.: 40258293

Sample: TB-20230215 **Lab ID: 40258293005** Collected: 02/15/23 14:00 Received: 02/15/23 15:44 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		02/17/23 13:51	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		02/17/23 13:51	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		02/17/23 13:51	75-35-4	
1,1-Dichloropropene	**<0.41**	ug/L	1.0	0.41	1		02/17/23 13:51	563-58-6	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	5.0	1.0	1		02/17/23 13:51	87-61-6	
1,2,3-Trichloropropane	**<0.56**	ug/L	5.0	0.56	1		02/17/23 13:51	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		02/17/23 13:51	120-82-1	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		02/17/23 13:51	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		02/17/23 13:51	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		02/17/23 13:51	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		02/17/23 13:51	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		02/17/23 13:51	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		02/17/23 13:51	78-87-5	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		02/17/23 13:51	108-67-8	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		02/17/23 13:51	541-73-1	
1,3-Dichloropropane	**<0.30**	ug/L	1.0	0.30	1		02/17/23 13:51	142-28-9	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		02/17/23 13:51	106-46-7	
2,2-Dichloropropane	**<4.2**	ug/L	5.0	4.2	1		02/17/23 13:51	594-20-7	
2-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		02/17/23 13:51	95-49-8	
4-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		02/17/23 13:51	106-43-4	
Benzene	**<0.30**	ug/L	1.0	0.30	1		02/17/23 13:51	71-43-2	
Bromobenzene	**<0.36**	ug/L	1.0	0.36	1		02/17/23 13:51	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		02/17/23 13:51	74-97-5	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		02/17/23 13:51	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		02/17/23 13:51	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		02/17/23 13:51	74-83-9	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		02/17/23 13:51	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		02/17/23 13:51	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		02/17/23 13:51	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		02/17/23 13:51	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		02/17/23 13:51	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		02/17/23 13:51	124-48-1	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		02/17/23 13:51	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		02/17/23 13:51	75-71-8	L2
Diisopropyl ether	**<1.1**	ug/L	5.0	1.1	1		02/17/23 13:51	108-20-3	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		02/17/23 13:51	100-41-4	
Hexachloro-1,3-butadiene	**<2.7**	ug/L	5.0	2.7	1		02/17/23 13:51	87-68-3	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	5.0	1.0	1		02/17/23 13:51	98-82-8	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		02/17/23 13:51	1634-04-4	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		02/17/23 13:51	75-09-2	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		02/17/23 13:51	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		02/17/23 13:51	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		02/17/23 13:51	127-18-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		02/17/23 13:51	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		02/17/23 13:51	79-01-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P MDCC
Pace Project No.: 40258293

Sample: TB-20230215 **Lab ID: 40258293005** Collected: 02/15/23 14:00 Received: 02/15/23 15:44 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		02/17/23 13:51	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		02/17/23 13:51	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		02/17/23 13:51	156-59-2	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		02/17/23 13:51	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		02/17/23 13:51	179601-23-1	
n-Butylbenzene	**<0.86**	ug/L	1.0	0.86	1		02/17/23 13:51	104-51-8	
n-Propylbenzene	**<0.35**	ug/L	1.0	0.35	1		02/17/23 13:51	103-65-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		02/17/23 13:51	95-47-6	
p-Isopropyltoluene	**<1.0**	ug/L	5.0	1.0	1		02/17/23 13:51	99-87-6	
sec-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		02/17/23 13:51	135-98-8	
tert-Butylbenzene	**<0.59**	ug/L	1.0	0.59	1		02/17/23 13:51	98-06-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		02/17/23 13:51	156-60-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		02/17/23 13:51	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		02/17/23 13:51	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		02/17/23 13:51	2199-69-1	
Toluene-d8 (S)	107	%	70-130		1		02/17/23 13:51	2037-26-5	HS

Sample: MW-6 DUP **Lab ID: 40258293006** Collected: 02/14/23 15:00 Received: 02/15/23 15:44 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	**<0.39**	ug/L	5.6	0.39	1		02/16/23 11:13	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		02/16/23 11:13	74-85-1	
Methane	**234**	ug/L	2.8	0.58	1		02/16/23 11:13	74-82-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Iron	**1600**	ug/L	100	56.7	1	02/17/23 05:12	02/17/23 18:11	7439-89-6	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Iron, Dissolved	**265**	ug/L	100	56.7	1	02/17/23 05:20	02/17/23 18:57	7439-89-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	1.0	0.36	1		02/17/23 17:47	630-20-6	
1,1,1-Trichloroethane	**7.2**	ug/L	1.0	0.30	1		02/17/23 17:47	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		02/17/23 17:47	79-34-5	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		02/17/23 17:47	79-00-5	
1,1-Dichloroethane	**15.0**	ug/L	1.0	0.30	1		02/17/23 17:47	75-34-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P MDCC
Pace Project No.: 40258293

Sample: MW-6 DUP **Lab ID: 40258293006** Collected: 02/14/23 15:00 Received: 02/15/23 15:44 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		02/17/23 17:47	75-35-4	
1,1-Dichloropropene	**<0.41**	ug/L	1.0	0.41	1		02/17/23 17:47	563-58-6	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	5.0	1.0	1		02/17/23 17:47	87-61-6	
1,2,3-Trichloropropane	**<0.56**	ug/L	5.0	0.56	1		02/17/23 17:47	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		02/17/23 17:47	120-82-1	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		02/17/23 17:47	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		02/17/23 17:47	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		02/17/23 17:47	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		02/17/23 17:47	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		02/17/23 17:47	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		02/17/23 17:47	78-87-5	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		02/17/23 17:47	108-67-8	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		02/17/23 17:47	541-73-1	
1,3-Dichloropropane	**<0.30**	ug/L	1.0	0.30	1		02/17/23 17:47	142-28-9	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		02/17/23 17:47	106-46-7	
2,2-Dichloropropane	**<4.2**	ug/L	5.0	4.2	1		02/17/23 17:47	594-20-7	
2-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		02/17/23 17:47	95-49-8	
4-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		02/17/23 17:47	106-43-4	
Benzene	**<0.30**	ug/L	1.0	0.30	1		02/17/23 17:47	71-43-2	
Bromobenzene	**<0.36**	ug/L	1.0	0.36	1		02/17/23 17:47	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		02/17/23 17:47	74-97-5	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		02/17/23 17:47	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		02/17/23 17:47	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		02/17/23 17:47	74-83-9	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		02/17/23 17:47	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		02/17/23 17:47	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		02/17/23 17:47	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		02/17/23 17:47	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		02/17/23 17:47	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		02/17/23 17:47	124-48-1	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		02/17/23 17:47	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		02/17/23 17:47	75-71-8	L2
Diisopropyl ether	**<1.1**	ug/L	5.0	1.1	1		02/17/23 17:47	108-20-3	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		02/17/23 17:47	100-41-4	
Hexachloro-1,3-butadiene	**<2.7**	ug/L	5.0	2.7	1		02/17/23 17:47	87-68-3	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	5.0	1.0	1		02/17/23 17:47	98-82-8	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		02/17/23 17:47	1634-04-4	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		02/17/23 17:47	75-09-2	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		02/17/23 17:47	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		02/17/23 17:47	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		02/17/23 17:47	127-18-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		02/17/23 17:47	108-88-3	
Trichloroethene	**10**	ug/L	1.0	0.32	1		02/17/23 17:47	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		02/17/23 17:47	75-69-4	
Vinyl chloride	**1.6**	ug/L	1.0	0.17	1		02/17/23 17:47	75-01-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CHW8271P MDCC
Pace Project No.: 40258293

Sample: MW-6 DUP **Lab ID: 40258293006** Collected: 02/14/23 15:00 Received: 02/15/23 15:44 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**55.3**	ug/L	1.0	0.47	1		02/17/23 17:47	156-59-2	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		02/17/23 17:47	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		02/17/23 17:47	179601-23-1	
n-Butylbenzene	**<0.86**	ug/L	1.0	0.86	1		02/17/23 17:47	104-51-8	
n-Propylbenzene	**<0.35**	ug/L	1.0	0.35	1		02/17/23 17:47	103-65-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		02/17/23 17:47	95-47-6	
p-Isopropyltoluene	**<1.0**	ug/L	5.0	1.0	1		02/17/23 17:47	99-87-6	
sec-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		02/17/23 17:47	135-98-8	
tert-Butylbenzene	**<0.59**	ug/L	1.0	0.59	1		02/17/23 17:47	98-06-6	
trans-1,2-Dichloroethene	**2.2**	ug/L	1.0	0.53	1		02/17/23 17:47	156-60-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		02/17/23 17:47	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		02/17/23 17:47	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		02/17/23 17:47	2199-69-1	
Toluene-d8 (S)	108	%	70-130		1		02/17/23 17:47	2037-26-5	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
	Pace Analytical Services - Green Bay								
Sulfide	**<1.2**	mg/L	4.0	1.2	1		02/20/23 11:02		1q
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Nitrate as N	**<0.044**	mg/L	0.15	0.044	1		02/15/23 20:52	14797-55-8	
Sulfate	**249**	mg/L	10.0	2.2	5		02/15/23 23:20	14808-79-8	
5310C TOC	Analytical Method: SM 5310C								
	Pace Analytical Services - Green Bay								
Total Organic Carbon	**2.9**	mg/L	0.50	0.14	1		02/22/23 12:51	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: CHW8271P MDCC
Pace Project No.: 40258293

QC Batch: 437979
QC Batch Method: EPA 8015B Modified
Analysis Method: EPA 8015B Modified
Analysis Description: Methane, Ethane, Ethene GCV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40258293001, 40258293002, 40258293003, 40258293004, 40258293006

METHOD BLANK: 2517175 Matrix: Water
Associated Lab Samples: 40258293001, 40258293002, 40258293003, 40258293004, 40258293006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<0.39	5.6	02/16/23 09:00	
Ethene	ug/L	<0.25	5.0	02/16/23 09:00	
Methane	ug/L	<0.58	2.8	02/16/23 09:00	

LABORATORY CONTROL SAMPLE & LCSD: 2517176 2517177

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	53.6	51.2	55.9	96	104	74-120	9	20	
Ethene	ug/L	50	48.4	52.5	97	105	71-122	8	20	
Methane	ug/L	28.6	26.9	29.8	94	104	73-120	10	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2517178 2517179

Parameter	Units	40258293002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	<0.39	53.6	53.6	49.5	52.9	92	99	70-120	7	20	
Ethene	ug/L	32.8	50	50	91.7	98.6	118	132	68-122	7	20	M1
Methane	ug/L	40.0	28.6	28.6	83.6	90.8	153	178	10-200	8	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: CHW8271P MDCC
Pace Project No.: 40258293

QC Batch: 438036
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40258293001, 40258293002, 40258293003, 40258293004, 40258293006

METHOD BLANK: 2517555 Matrix: Water
Associated Lab Samples: 40258293001, 40258293002, 40258293003, 40258293004, 40258293006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<56.7	100	02/17/23 17:48	

LABORATORY CONTROL SAMPLE: 2517556

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	10400	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2517557 2517558

Parameter	Units	40258293002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	1010	10000	10000	11600	11400	106	104	75-125	1	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: CHW8271P MDCC
Pace Project No.: 40258293

QC Batch: 438038
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40258293001, 40258293002, 40258293003, 40258293004, 40258293006

METHOD BLANK: 2517562 Matrix: Water
Associated Lab Samples: 40258293001, 40258293002, 40258293003, 40258293004, 40258293006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<56.7	100	02/17/23 18:34	

LABORATORY CONTROL SAMPLE: 2517563

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	10000	10600	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2517564 2517565

Parameter	Units	40258293002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	1150	10000	10000	11700	11800	105	106	75-125	1	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: CHW8271P MDCC
Pace Project No.: 40258293

QC Batch: 438056
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40258293002, 40258293003, 40258293004, 40258293005, 40258293006

METHOD BLANK: 2517613 Matrix: Water
Associated Lab Samples: 40258293002, 40258293003, 40258293004, 40258293005, 40258293006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	02/17/23 11:53	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	02/17/23 11:53	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	02/17/23 11:53	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	02/17/23 11:53	
1,1-Dichloroethane	ug/L	<0.30	1.0	02/17/23 11:53	
1,1-Dichloroethene	ug/L	<0.58	1.0	02/17/23 11:53	
1,1-Dichloropropene	ug/L	<0.41	1.0	02/17/23 11:53	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	02/17/23 11:53	
1,2,3-Trichloropropane	ug/L	<0.56	5.0	02/17/23 11:53	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	02/17/23 11:53	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	02/17/23 11:53	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	02/17/23 11:53	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	02/17/23 11:53	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	02/17/23 11:53	
1,2-Dichloroethane	ug/L	<0.29	1.0	02/17/23 11:53	
1,2-Dichloropropane	ug/L	<0.45	1.0	02/17/23 11:53	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	02/17/23 11:53	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	02/17/23 11:53	
1,3-Dichloropropane	ug/L	<0.30	1.0	02/17/23 11:53	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	02/17/23 11:53	
2,2-Dichloropropane	ug/L	<4.2	5.0	02/17/23 11:53	
2-Chlorotoluene	ug/L	<0.89	5.0	02/17/23 11:53	
4-Chlorotoluene	ug/L	<0.89	5.0	02/17/23 11:53	
Benzene	ug/L	<0.30	1.0	02/17/23 11:53	
Bromobenzene	ug/L	<0.36	1.0	02/17/23 11:53	
Bromochloromethane	ug/L	<0.36	5.0	02/17/23 11:53	
Bromodichloromethane	ug/L	<0.42	1.0	02/17/23 11:53	
Bromoform	ug/L	<3.8	5.0	02/17/23 11:53	
Bromomethane	ug/L	<1.2	5.0	02/17/23 11:53	
Carbon tetrachloride	ug/L	<0.37	1.0	02/17/23 11:53	
Chlorobenzene	ug/L	<0.86	1.0	02/17/23 11:53	
Chloroethane	ug/L	<1.4	5.0	02/17/23 11:53	
Chloroform	ug/L	<1.2	5.0	02/17/23 11:53	
Chloromethane	ug/L	<1.6	5.0	02/17/23 11:53	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	02/17/23 11:53	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	02/17/23 11:53	
Dibromochloromethane	ug/L	<2.6	5.0	02/17/23 11:53	
Dibromomethane	ug/L	<0.99	5.0	02/17/23 11:53	
Dichlorodifluoromethane	ug/L	<0.46	5.0	02/17/23 11:53	
Diisopropyl ether	ug/L	<1.1	5.0	02/17/23 11:53	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: CHW8271P MDCC
Pace Project No.: 40258293

METHOD BLANK: 2517613 Matrix: Water
Associated Lab Samples: 40258293002, 40258293003, 40258293004, 40258293005, 40258293006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.33	1.0	02/17/23 11:53	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	02/17/23 11:53	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	02/17/23 11:53	
m&p-Xylene	ug/L	<0.70	2.0	02/17/23 11:53	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	02/17/23 11:53	
Methylene Chloride	ug/L	<0.32	5.0	02/17/23 11:53	
n-Butylbenzene	ug/L	<0.86	1.0	02/17/23 11:53	
n-Propylbenzene	ug/L	<0.35	1.0	02/17/23 11:53	
Naphthalene	ug/L	<1.1	5.0	02/17/23 11:53	
o-Xylene	ug/L	<0.35	1.0	02/17/23 11:53	
p-Isopropyltoluene	ug/L	<1.0	5.0	02/17/23 11:53	
sec-Butylbenzene	ug/L	<0.42	1.0	02/17/23 11:53	
Styrene	ug/L	<0.36	1.0	02/17/23 11:53	
tert-Butylbenzene	ug/L	<0.59	1.0	02/17/23 11:53	
Tetrachloroethene	ug/L	<0.41	1.0	02/17/23 11:53	
Toluene	ug/L	<0.29	1.0	02/17/23 11:53	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	02/17/23 11:53	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	02/17/23 11:53	
Trichloroethene	ug/L	<0.32	1.0	02/17/23 11:53	
Trichlorofluoromethane	ug/L	<0.42	1.0	02/17/23 11:53	
Vinyl chloride	ug/L	<0.17	1.0	02/17/23 11:53	
1,2-Dichlorobenzene-d4 (S)	%	102	70-130	02/17/23 11:53	
4-Bromofluorobenzene (S)	%	104	70-130	02/17/23 11:53	
Toluene-d8 (S)	%	108	70-130	02/17/23 11:53	

LABORATORY CONTROL SAMPLE: 2517614

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.1	106	70-134	
1,1,2,2-Tetrachloroethane	ug/L	50	51.9	104	69-130	
1,1,2-Trichloroethane	ug/L	50	54.0	108	70-130	
1,1-Dichloroethane	ug/L	50	57.4	115	70-130	
1,1-Dichloroethene	ug/L	50	53.3	107	74-131	
1,2,4-Trichlorobenzene	ug/L	50	38.1	76	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	44.1	88	64-137	
1,2-Dibromoethane (EDB)	ug/L	50	46.2	92	70-130	
1,2-Dichlorobenzene	ug/L	50	45.9	92	70-130	
1,2-Dichloroethane	ug/L	50	64.2	128	70-137	
1,2-Dichloropropane	ug/L	50	60.3	121	80-121	
1,3-Dichlorobenzene	ug/L	50	45.6	91	70-130	
1,4-Dichlorobenzene	ug/L	50	46.4	93	70-130	
Benzene	ug/L	50	53.7	107	70-130	
Bromodichloromethane	ug/L	50	51.9	104	70-130	
Bromoform	ug/L	50	43.8	88	70-130	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: CHW8271P MDCC
Pace Project No.: 40258293

LABORATORY CONTROL SAMPLE: 2517614

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	35.3	71	21-147	
Carbon tetrachloride	ug/L	50	51.5	103	80-146	
Chlorobenzene	ug/L	50	52.1	104	70-130	
Chloroethane	ug/L	50	49.1	98	52-165	
Chloroform	ug/L	50	55.9	112	80-123	
Chloromethane	ug/L	50	28.7	57	51-122	
cis-1,2-Dichloroethene	ug/L	50	47.8	96	70-130	
cis-1,3-Dichloropropene	ug/L	50	49.5	99	70-130	
Dibromochloromethane	ug/L	50	46.3	93	70-130	
Dichlorodifluoromethane	ug/L	50	11.5	23	25-121	L2
Ethylbenzene	ug/L	50	57.7	115	80-120	
Isopropylbenzene (Cumene)	ug/L	50	54.7	109	70-130	
m&p-Xylene	ug/L	100	110	110	70-130	
Methyl-tert-butyl ether	ug/L	50	55.9	112	70-130	
Methylene Chloride	ug/L	50	55.9	112	70-130	
o-Xylene	ug/L	50	54.5	109	70-130	
Styrene	ug/L	50	51.4	103	70-130	
Tetrachloroethene	ug/L	50	45.6	91	70-130	
Toluene	ug/L	50	53.9	108	80-120	
trans-1,2-Dichloroethene	ug/L	50	54.7	109	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.8	98	70-130	
Trichloroethene	ug/L	50	50.7	101	70-130	
Trichlorofluoromethane	ug/L	50	46.9	94	65-160	
Vinyl chloride	ug/L	50	35.0	70	63-134	
1,2-Dichlorobenzene-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			108	70-130	
Toluene-d8 (S)	%			108	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2517615 2517616

Parameter	Units	40258293002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<3.0	500	500	512	507	102	101	70-134	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<3.8	500	500	506	509	101	102	61-135	0	20	
1,1,2-Trichloroethane	ug/L	<3.4	500	500	527	540	105	108	70-130	2	20	
1,1-Dichloroethane	ug/L	<3.0	500	500	573	546	115	109	70-130	5	20	
1,1-Dichloroethene	ug/L	<5.8	500	500	512	496	102	99	71-130	3	20	
1,2,4-Trichlorobenzene	ug/L	<9.5	500	500	374	370	75	74	68-131	1	20	
1,2-Dibromo-3-chloropropane	ug/L	<23.7	500	500	433	436	87	87	51-141	1	20	
1,2-Dibromoethane (EDB)	ug/L	<3.1	500	500	456	464	91	93	70-130	2	20	
1,2-Dichlorobenzene	ug/L	<3.3	500	500	467	449	93	90	70-130	4	20	
1,2-Dichloroethane	ug/L	<2.9	500	500	615	624	123	125	70-137	1	20	
1,2-Dichloropropane	ug/L	<4.5	500	500	598	593	120	119	80-121	1	20	
1,3-Dichlorobenzene	ug/L	<3.5	500	500	459	448	92	90	70-130	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: CHW8271P MDCC
Pace Project No.: 40258293

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2517615 2517616

Parameter	Units	40258293002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/L	<8.9	500	500	472	465	94	93	70-130	2	20	
Benzene	ug/L	<3.0	500	500	533	518	107	104	70-130	3	20	
Bromodichloromethane	ug/L	<4.2	500	500	519	502	104	100	70-130	3	20	
Bromoform	ug/L	<38.0	500	500	417	423	83	85	70-133	2	20	
Bromomethane	ug/L	<11.9	500	500	344	330	69	66	21-149	4	22	
Carbon tetrachloride	ug/L	<3.7	500	500	505	496	101	99	80-146	2	20	
Chlorobenzene	ug/L	<8.6	500	500	512	516	102	103	70-130	1	20	
Chloroethane	ug/L	<13.8	500	500	446	436	89	87	52-165	2	20	
Chloroform	ug/L	<11.8	500	500	546	540	109	108	80-123	1	20	
Chloromethane	ug/L	<16.4	500	500	231	213	46	43	42-125	8	20	
cis-1,2-Dichloroethene	ug/L	699	500	500	1170	1170	94	95	70-130	0	20	
cis-1,3-Dichloropropene	ug/L	<3.6	500	500	493	485	99	97	70-130	2	20	
Dibromochloromethane	ug/L	<26.4	500	500	457	461	91	92	70-130	1	20	
Dichlorodifluoromethane	ug/L	<4.6	500	500	78.7	71.8	16	14	25-121	9	20	M0
Ethylbenzene	ug/L	<3.3	500	500	571	569	114	114	80-121	0	20	
Isopropylbenzene (Cumene)	ug/L	<10.0	500	500	539	545	108	109	70-130	1	20	
m&p-Xylene	ug/L	<7.0	1000	1000	1090	1070	109	107	70-130	1	20	
Methyl-tert-butyl ether	ug/L	<11.3	500	500	526	535	105	107	70-130	2	20	
Methylene Chloride	ug/L	<3.2	500	500	550	523	110	105	70-130	5	20	
o-Xylene	ug/L	<3.5	500	500	524	528	105	106	70-130	1	20	
Styrene	ug/L	<3.6	500	500	506	501	101	100	70-132	1	20	
Tetrachloroethene	ug/L	115	500	500	579	575	93	92	70-130	1	20	
Toluene	ug/L	<2.9	500	500	531	528	106	106	80-120	1	20	
trans-1,2-Dichloroethene	ug/L	13.8	500	500	545	538	106	105	70-130	1	20	
trans-1,3-Dichloropropene	ug/L	<34.6	500	500	481	482	96	96	70-130	0	20	
Trichloroethene	ug/L	51.3	500	500	558	540	101	98	70-130	3	20	
Trichlorofluoromethane	ug/L	<4.2	500	500	429	417	86	83	65-160	3	20	
Vinyl chloride	ug/L	110	500	500	413	391	61	56	60-137	6	20	M1
1,2-Dichlorobenzene-d4 (S)	%						97	95	70-130			
4-Bromofluorobenzene (S)	%						107	106	70-130			
Toluene-d8 (S)	%						109	109	70-130			

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: CHW8271P MDCC
Pace Project No.: 40258293

QC Batch: 438385
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40258293001

METHOD BLANK: 2519270 Matrix: Water
Associated Lab Samples: 40258293001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	02/22/23 08:55	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	02/22/23 08:55	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	02/22/23 08:55	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	02/22/23 08:55	
1,1-Dichloroethane	ug/L	<0.30	1.0	02/22/23 08:55	
1,1-Dichloroethene	ug/L	<0.58	1.0	02/22/23 08:55	
1,1-Dichloropropene	ug/L	<0.41	1.0	02/22/23 08:55	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	02/22/23 08:55	
1,2,3-Trichloropropane	ug/L	<0.56	5.0	02/22/23 08:55	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	02/22/23 08:55	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	02/22/23 08:55	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	02/22/23 08:55	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	02/22/23 08:55	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	02/22/23 08:55	
1,2-Dichloroethane	ug/L	<0.29	1.0	02/22/23 08:55	
1,2-Dichloropropane	ug/L	<0.45	1.0	02/22/23 08:55	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	02/22/23 08:55	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	02/22/23 08:55	
1,3-Dichloropropane	ug/L	<0.30	1.0	02/22/23 08:55	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	02/22/23 08:55	
2,2-Dichloropropane	ug/L	<4.2	5.0	02/22/23 08:55	
2-Chlorotoluene	ug/L	<0.89	5.0	02/22/23 08:55	
4-Chlorotoluene	ug/L	<0.89	5.0	02/22/23 08:55	
Benzene	ug/L	<0.30	1.0	02/22/23 08:55	
Bromobenzene	ug/L	<0.36	1.0	02/22/23 08:55	
Bromochloromethane	ug/L	<0.36	5.0	02/22/23 08:55	
Bromodichloromethane	ug/L	<0.42	1.0	02/22/23 08:55	
Bromoform	ug/L	<3.8	5.0	02/22/23 08:55	
Bromomethane	ug/L	<1.2	5.0	02/22/23 08:55	
Carbon tetrachloride	ug/L	<0.37	1.0	02/22/23 08:55	
Chlorobenzene	ug/L	<0.86	1.0	02/22/23 08:55	
Chloroethane	ug/L	<1.4	5.0	02/22/23 08:55	
Chloroform	ug/L	<1.2	5.0	02/22/23 08:55	
Chloromethane	ug/L	<1.6	5.0	02/22/23 08:55	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	02/22/23 08:55	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	02/22/23 08:55	
Dibromochloromethane	ug/L	<2.6	5.0	02/22/23 08:55	
Dibromomethane	ug/L	<0.99	5.0	02/22/23 08:55	
Dichlorodifluoromethane	ug/L	<0.46	5.0	02/22/23 08:55	
Diisopropyl ether	ug/L	<1.1	5.0	02/22/23 08:55	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: CHW8271P MDCC
Pace Project No.: 40258293

METHOD BLANK: 2519270 Matrix: Water
Associated Lab Samples: 40258293001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.33	1.0	02/22/23 08:55	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	02/22/23 08:55	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	02/22/23 08:55	
m&p-Xylene	ug/L	<0.70	2.0	02/22/23 08:55	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	02/22/23 08:55	
Methylene Chloride	ug/L	<0.32	5.0	02/22/23 08:55	
n-Butylbenzene	ug/L	<0.86	1.0	02/22/23 08:55	
n-Propylbenzene	ug/L	<0.35	1.0	02/22/23 08:55	
Naphthalene	ug/L	<1.1	5.0	02/22/23 08:55	
o-Xylene	ug/L	<0.35	1.0	02/22/23 08:55	
p-Isopropyltoluene	ug/L	<1.0	5.0	02/22/23 08:55	
sec-Butylbenzene	ug/L	<0.42	1.0	02/22/23 08:55	
Styrene	ug/L	<0.36	1.0	02/22/23 08:55	
tert-Butylbenzene	ug/L	<0.59	1.0	02/22/23 08:55	
Tetrachloroethene	ug/L	<0.41	1.0	02/22/23 08:55	
Toluene	ug/L	<0.29	1.0	02/22/23 08:55	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	02/22/23 08:55	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	02/22/23 08:55	
Trichloroethene	ug/L	<0.32	1.0	02/22/23 08:55	
Trichlorofluoromethane	ug/L	<0.42	1.0	02/22/23 08:55	
Vinyl chloride	ug/L	<0.17	1.0	02/22/23 08:55	
1,2-Dichlorobenzene-d4 (S)	%	99	70-130	02/22/23 08:55	
4-Bromofluorobenzene (S)	%	115	70-130	02/22/23 08:55	
Toluene-d8 (S)	%	107	70-130	02/22/23 08:55	

LABORATORY CONTROL SAMPLE: 2519271

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	58.1	116	70-134	
1,1,2,2-Tetrachloroethane	ug/L	50	68.2	136	69-130	L1
1,1,2-Trichloroethane	ug/L	50	61.6	123	70-130	
1,1-Dichloroethane	ug/L	50	59.6	119	70-130	
1,1-Dichloroethene	ug/L	50	51.8	104	74-131	
1,2,4-Trichlorobenzene	ug/L	50	46.3	93	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	62.1	124	64-137	
1,2-Dibromoethane (EDB)	ug/L	50	54.2	108	70-130	
1,2-Dichlorobenzene	ug/L	50	53.0	106	70-130	
1,2-Dichloroethane	ug/L	50	64.3	129	70-137	
1,2-Dichloropropane	ug/L	50	60.9	122	80-121	L1
1,3-Dichlorobenzene	ug/L	50	52.6	105	70-130	
1,4-Dichlorobenzene	ug/L	50	50.3	101	70-130	
Benzene	ug/L	50	57.5	115	70-130	
Bromodichloromethane	ug/L	50	56.6	113	70-130	
Bromoform	ug/L	50	44.7	89	70-130	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: CHW8271P MDCC
Pace Project No.: 40258293

LABORATORY CONTROL SAMPLE: 2519271

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	31.6	63	21-147	
Carbon tetrachloride	ug/L	50	57.1	114	80-146	
Chlorobenzene	ug/L	50	54.9	110	70-130	
Chloroethane	ug/L	50	50.6	101	52-165	
Chloroform	ug/L	50	58.5	117	80-123	
Chloromethane	ug/L	50	48.0	96	51-122	
cis-1,2-Dichloroethene	ug/L	50	49.9	100	70-130	
cis-1,3-Dichloropropene	ug/L	50	53.6	107	70-130	
Dibromochloromethane	ug/L	50	50.9	102	70-130	
Dichlorodifluoromethane	ug/L	50	38.3	77	25-121	
Ethylbenzene	ug/L	50	59.9	120	80-120	
Isopropylbenzene (Cumene)	ug/L	50	56.8	114	70-130	
m&p-Xylene	ug/L	100	110	110	70-130	
Methyl-tert-butyl ether	ug/L	50	49.6	99	70-130	
Methylene Chloride	ug/L	50	48.0	96	70-130	
o-Xylene	ug/L	50	53.7	107	70-130	
Styrene	ug/L	50	63.4	127	70-130	
Tetrachloroethene	ug/L	50	47.7	95	70-130	
Toluene	ug/L	50	58.8	118	80-120	
trans-1,2-Dichloroethene	ug/L	50	54.1	108	70-130	
trans-1,3-Dichloropropene	ug/L	50	62.2	124	70-130	
Trichloroethene	ug/L	50	53.2	106	70-130	
Trichlorofluoromethane	ug/L	50	58.6	117	65-160	
Vinyl chloride	ug/L	50	51.1	102	63-134	
1,2-Dichlorobenzene-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			119	70-130	
Toluene-d8 (S)	%			109	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2519287 2519288

Parameter	Units	40258408001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.30	50	50	53.9	54.4	108	109	70-134	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	60.6	63.0	121	126	61-135	4	20	
1,1,2-Trichloroethane	ug/L	<0.34	50	50	57.1	58.3	114	117	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.30	50	50	55.5	57.6	111	115	70-130	4	20	
1,1-Dichloroethene	ug/L	<0.58	50	50	46.9	51.1	94	102	71-130	9	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	42.2	43.6	84	87	68-131	3	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	55.9	58.9	112	118	51-141	5	20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	52.0	52.7	104	105	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.33	50	50	47.4	49.9	95	100	70-130	5	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	61.8	61.6	124	123	70-137	0	20	
1,2-Dichloropropane	ug/L	<0.45	50	50	56.0	58.5	112	117	80-121	4	20	
1,3-Dichlorobenzene	ug/L	<0.35	50	50	48.9	50.1	98	100	70-130	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: CHW8271P MDCC
Pace Project No.: 40258293

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2519287 2519288

Parameter	Units	40258408001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/L	<0.89	50	50	46.0	48.0	92	96	70-130	4	20	
Benzene	ug/L	<0.30	50	50	53.8	55.9	108	112	70-130	4	20	
Bromodichloromethane	ug/L	<0.42	50	50	53.3	56.2	107	112	70-130	5	20	
Bromoform	ug/L	<3.8	50	50	42.6	42.9	85	86	70-133	1	20	
Bromomethane	ug/L	<1.2	50	50	32.0	35.4	64	71	21-149	10	22	
Carbon tetrachloride	ug/L	<0.37	50	50	53.7	54.0	107	108	80-146	0	20	
Chlorobenzene	ug/L	<0.86	50	50	51.1	52.3	102	105	70-130	2	20	
Chloroethane	ug/L	<1.4	50	50	47.1	49.7	94	99	52-165	5	20	
Chloroform	ug/L	<1.2	50	50	54.8	55.9	110	112	80-123	2	20	
Chloromethane	ug/L	<1.6	50	50	42.4	45.8	85	92	42-125	8	20	
cis-1,2-Dichloroethene	ug/L	1.6	50	50	48.8	50.7	94	98	70-130	4	20	
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	51.5	54.7	103	109	70-130	6	20	
Dibromochloromethane	ug/L	<2.6	50	50	49.0	49.3	98	99	70-130	1	20	
Dichlorodifluoromethane	ug/L	<0.46	50	50	31.2	35.5	62	71	25-121	13	20	
Ethylbenzene	ug/L	<0.33	50	50	54.7	56.3	109	113	80-121	3	20	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	52.1	54.2	104	108	70-130	4	20	
m&p-Xylene	ug/L	<0.70	100	100	102	105	102	105	70-130	3	20	
Methyl-tert-butyl ether	ug/L	<1.1	50	50	46.0	47.1	92	94	70-130	2	20	
Methylene Chloride	ug/L	<0.32	50	50	43.1	45.1	86	90	70-130	5	20	
o-Xylene	ug/L	<0.35	50	50	50.3	51.7	101	103	70-130	3	20	
Styrene	ug/L	<0.36	50	50	59.4	61.0	119	122	70-132	3	20	
Tetrachloroethene	ug/L	<0.41	50	50	44.6	44.6	89	89	70-130	0	20	
Toluene	ug/L	<0.29	50	50	55.3	55.8	111	112	80-120	1	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	49.6	51.3	99	103	70-130	3	20	
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	57.6	60.0	115	120	70-130	4	20	
Trichloroethene	ug/L	<0.32	50	50	51.0	52.0	102	104	70-130	2	20	
Trichlorofluoromethane	ug/L	<0.42	50	50	53.6	57.6	107	115	65-160	7	20	
Vinyl chloride	ug/L	<0.17	50	50	45.3	48.7	91	97	60-137	7	20	
1,2-Dichlorobenzene-d4 (S)	%						99	97	70-130			
4-Bromofluorobenzene (S)	%						115	118	70-130			
Toluene-d8 (S)	%						109	110	70-130			

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: CHW8271P MDCC
Pace Project No.: 40258293

QC Batch: 438175 | Analysis Method: SM 4500-S F (2000)
QC Batch Method: SM 4500-S F (2000) | Analysis Description: 4500S2F Sulfide, Iodometric
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40258293001, 40258293002, 40258293003, 40258293004, 40258293006

METHOD BLANK: 2518444 Matrix: Water
Associated Lab Samples: 40258293001, 40258293002, 40258293003, 40258293004, 40258293006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	<1.2	4.0	02/20/23 10:45	

LABORATORY CONTROL SAMPLE: 2518445

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	44	42.8	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2518446 2518447

Parameter	Units	40258293002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	<1.2	44	44	43.2	43.6	98	99	80-120	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2518801 2518802

Parameter	Units	40258404001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L		44	44	44.4	44.8	101	102	80-120	1	10	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: CHW8271P MDCC
Pace Project No.: 40258293

QC Batch: 437823
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40258293001, 40258293002, 40258293003, 40258293004, 40258293006

METHOD BLANK: 2516512 Matrix: Water
Associated Lab Samples: 40258293001, 40258293002, 40258293003, 40258293004, 40258293006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	02/15/23 17:07	
Nitrate as N	mg/L	<0.044	0.15	02/15/23 17:07	
Sulfate	mg/L	<0.44	2.0	02/15/23 17:07	

LABORATORY CONTROL SAMPLE: 2516513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.5	102	90-110	
Nitrate as N	mg/L	1.5	1.5	101	90-110	
Sulfate	mg/L	20	20.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2516514 2516515

Parameter	Units	40258211001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	118	100	100	217	217	98	99	90-110	0	15	
Nitrate as N	mg/L	3.9	7.5	7.5	11.4	11.4	100	100	90-110	0	15	
Sulfate	mg/L	89.2	100	100	189	189	100	100	90-110	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2517054 2517055

Parameter	Units	40258293002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	130	100	100	226	227	97	97	90-110	0	15	
Nitrate as N	mg/L	<0.044	1.5	1.5	1.3	1.3	89	89	90-110	0	15	M0
Sulfate	mg/L	96.0	100	100	196	196	100	100	90-110	0	15	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: CHW8271P MDCC
Pace Project No.: 40258293

QC Batch: 438367 — Analysis Method: SM 5310C
QC Batch Method: SM 5310C — Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40258293001, 40258293002, 40258293003, 40258293004, 40258293006

METHOD BLANK: 2519204 — Matrix: Water
Associated Lab Samples: 40258293001, 40258293002, 40258293003, 40258293004, 40258293006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.14	0.50	02/22/23 09:42	

LABORATORY CONTROL SAMPLE: 2519205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	12.5	12.9	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2519208 2519209

Parameter	Units	40258293002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	2.3	6	6	7.8	7.9	93	94	80-120	1	10	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: CHW8271P MDCC
Pace Project No.: 40258293

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

1q	Sample was received with headspace.
D9	Dissolved result is greater than the total. Data is within laboratory control limits.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CHW8271P MDCC
Pace Project No.: 40258293

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40258293001	**MW-1**	EPA 8015B Modified	437979		
40258293002	**PZ-1**	EPA 8015B Modified	437979		
40258293003	**MW-6**	EPA 8015B Modified	437979		
40258293004	**MW-7**	EPA 8015B Modified	437979		
40258293006	**MW-6 DUP**	EPA 8015B Modified	437979		
40258293001	**MW-1**	EPA 3010A	438036	EPA 6010D	438114
40258293002	**PZ-1**	EPA 3010A	438036	EPA 6010D	438114
40258293003	**MW-6**	EPA 3010A	438036	EPA 6010D	438114
40258293004	**MW-7**	EPA 3010A	438036	EPA 6010D	438114
40258293006	**MW-6 DUP**	EPA 3010A	438036	EPA 6010D	438114
40258293001	**MW-1**	EPA 3010A	438038	EPA 6010D	438115
40258293002	**PZ-1**	EPA 3010A	438038	EPA 6010D	438115
40258293003	**MW-6**	EPA 3010A	438038	EPA 6010D	438115
40258293004	**MW-7**	EPA 3010A	438038	EPA 6010D	438115
40258293006	**MW-6 DUP**	EPA 3010A	438038	EPA 6010D	438115
40258293001	**MW-1**	EPA 8260	438385		
40258293002	**PZ-1**	EPA 8260	438056		
40258293003	**MW-6**	EPA 8260	438056		
40258293004	**MW-7**	EPA 8260	438056		
40258293005	**TB-20230215**	EPA 8260	438056		
40258293006	**MW-6 DUP**	EPA 8260	438056		
40258293001	**MW-1**	SM 4500-S F (2000)	438175		
40258293002	**PZ-1**	SM 4500-S F (2000)	438175		
40258293003	**MW-6**	SM 4500-S F (2000)	438175		
40258293004	**MW-7**	SM 4500-S F (2000)	438175		
40258293006	**MW-6 DUP**	SM 4500-S F (2000)	438175		
40258293001	**MW-1**	EPA 300.0	437823		
40258293002	**PZ-1**	EPA 300.0	437823		
40258293003	**MW-6**	EPA 300.0	437823		
40258293004	**MW-7**	EPA 300.0	437823		
40258293006	**MW-6 DUP**	EPA 300.0	437823		
40258293001	**MW-1**	SM 5310C	438367		
40258293002	**PZ-1**	SM 5310C	438367		
40258293003	**MW-6**	SM 5310C	438367		
40258293004	**MW-7**	SM 5310C	438367		
40258293006	**MW-6 DUP**	SM 5310C	438367		

Pace Analytical®

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

40258293

ALL SHADED AREAS are for LAB USE ONLY

Company: Geosyntec consultants

Address: 10600 N. Port Washington Rd Ste 100, Mequon, WI 53092

Billing Information: 10600 N. Port Washington Rd Ste 100 Mequon, WI 53092

Report To: Jeremiah Johnson

Email To: JPJohnson@geosyntec.com

Copy To: –

Site Collection Info/Address: 4132 N. Holton St

Customer Project Name/Number: MDCC / CHW8271P

State: WI County/City: Milwaukee Time Zone Collected: [ ] PT [ ] MT [X] CT [ ] ET

Phone: 2628340228

Email: JPJohnson@geosyntec.com

Site/Facility ID #:

Compliance Monitoring? [ ] Yes [X] No

Collected By (print): C. Huennekens

Purchase Order #:

Quote #:

DW PWS ID #:

DW Location Code:

Collected By (signature): C. Huennekens

Turnaround Date Required: Standard

Immediately Packed on Ice: [X] Yes [ ] No

Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: ______ [ ] Hold: ______

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): [X] Yes [ ] No

Analysis: Iron, Dissolved

Container Preservative Type **: 3 | 2 | U | O | U | 1 | 1 | 3

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other NaOH + Zinc Acitate

Lab Project Manager:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected Date	Collected Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs (EPA8260)	TOC (SM5310C)	Sulfate (EPA300.0)	Sulfide (SM4500S2F)	Nitrate (EPA300.0)	Total Iron (EPA6010D)	Dissolved Iron (EPA6010D)	Methane, Ethene, Ethane			Lab Sample # / Comments
MW-1	GW	G	2/15/23	1217	/	/	/	9	X	X	X	X	X	X	X	X			001
PZ-1	↓	G	2/15/23	1045	/	/	/	25	X	X	X	X	X	X	X	X			002
MW-6	↓	G	2/14/23	1500	/	/	/	9	X	X	X	X	X	X	X	X			003
MW-7	↓	G	2/14/23	1310	/	/	/	9	X	X	X	X	X	X	X	X			004
TB-20230215	OT	G	2/15/23	1400	/	/	/	2	X										005
MW-6 DUP	GW	G	2/14/23	1800	/	/	/	9	X	X	X	X	X	X	X	X			006

SND CH 2-15-23

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: ______
Sample pH Acceptable Y N NA
pH Strips: ______
Sulfide Present Y N NA
Lead Acetate Strips: ______

LAB USE ONLY:
Lab Sample # / Comments:

SCW 2/15/23

Customer Remarks / Special Conditions / Possible Hazards: PZ-1 has extra vol for MS/MSD

Type of Ice Used: Wet Blue Dry None

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Packing Material Used:

Lab Tracking #: 2784872

Radchem sample(s) screened (<500 cpm): Y N NA

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: ______
Cooler 1 Temp Upon Receipt: ____oC
Cooler 1 Therm Corr. Factor: ____oC
Cooler 1 Corrected Temp: ____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
C. Huennekens / Geosyntec	2-15-23/1544	[signature] PACE	2/15/23 1544	Table #:
				Acctnum:
				Template:
				Prelogin:
				PM:
				PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 35 of 37
of: ______

Sample Preservation Receipt Form

Client Name: Geosyntec

Project # 40258293

All containers needing preservation have been checked and noted below. ☒Yes ☐No ☐N/A

Lab Lot# of pH paper 100722 Lab Std #ID of preservation (if pH adjusted)

Initial when completed. NK Date/Time:

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	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2							
001									1		2		1				6												X		X		2.5 / 5
002				3					3		4		3				18												X		X		2.5 / 5
003				1					1		2		1				6												X		X		2.5 / 5
004				1					1		2		1				6												X		X		2.5 / 5
005																	2											1						2.5 / 5
006				1					1		2		1				6												X		X			2.5 / 5
007																																		2.5 / 5
008																																		2.5 / 5
009																																		2.5 / 5
010																																		2.5 / 5
011																																		2.5 / 5
012																																		2.5 / 5
013																																		2.5 / 5
014																																		2.5 / 5
015								2/15/23 NK																										2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

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	VG9C	40 mL clear ascorbic w/ HCl	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	WGFU	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
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Sample Condition Upon Receipt Form (SCUR)

Project #: WO# : 40258293

40258293

Client Name: Geosyntec

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☒ 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 - 98 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 2.5 /Corr 2.5

Temp Blank Present: ☒ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 2/15/23 Initials: NK

Labeled By Initials: JG

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:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☒No ☐N/A	2. pg # 2/15/23 NK
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- DI VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time
Short Hold Time Analysis (<72hr):	☒Yes ☐No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume. For Analysis: ☒Yes ☐No MS/MSD:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No	9.
Correct Type: (Pace Green Bay,) Pace IR, Non-Pace		
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☒Yes ☐No ☐N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☐Yes ☐No ☒N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☒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 logi

Geosyntec consultants

180A Market Place Boulevard
Knoxville, TN 37922
PH 865.330.0037
www.geosyntec.com

Memorandum

Date: April 27, 2023

To: Jeremiah Johnson

From: Jennifer Pinion

CC: J. Caprio

Subject: Stage 2A Data Validation – Level II Data Deliverable – Pace Analytical Services Project Number: 40258293

SITE: Milwaukee Die Casting Company Site, Milwaukee, WI

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of four water samples including one sample for matrix spike/matrix spike duplicate (MS/MSD) analysis, one field duplicate sample and one trip blank, collected February 14 and 15, 2023, during a Milwaukee Die Casting Company Site sampling event. The analyses were performed by Pace Analytical Services, LLC, Green Bay, Wisconsin. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by United States (US) Environmental Protection Agency (EPA) Method 8260
- Dissolved Gases (Methane, Ethane, Ethene) by US EPA Method 8015B Modified
- Total and Dissolved Iron by US EPA Methods 3010A/6010D
- Anions (Chloride, Nitrate as N and Sulfate) by US EPA Method 300.0
- Total Organic Carbon (TOC) by Standard Methods (SM) 5310C
- Sulfide by SM 4500-S F (2000)

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 laboratory report, professional and technical judgment and the following documents:

- Pre-Design Investigation Work Plan, Milwaukee Die Casting Company Site, 4132 North Holton Street. Milwaukee, Wisconsin, February 10, 2023

- US EPA National Functional Guidelines for Organic Superfund Methods Data Review, November 2020 (USEPA- 540-R-20-005)
- US EPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (USEPA-540-R-20-006)

The following samples were analyzed in the data set and validated at a Stage 2A level:

Client IDs	Laboratory IDs
40258293001	MW-1
40258293002	PZ-1
40258293002 MS	PZ-1 MS
40258293002 MSD	PZ-1 MSD

Client IDs	Laboratory IDs
40258293003	MW-6
40258293004	MW-7
40258293005	TB-20230215
40258293006	MW-6 DUP

The samples were received at the laboratory at 2.5ºC within the temperature criteria of 0-6ºC. No sample preservation issues were noted by the laboratory.

Incorrect error corrections executed by the lab 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.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs per US EPA Method 8260.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. 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
✓ Equipment Blank
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

1.1 Overall Assessment

1.1.1 Completeness

The VOC 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 the sample set is 100%.

1.1.2 Analysis Anomaly

Toluene-d8 in sample TB-20230215 was flagged HS to indicate the sample was taken from a vial containing headspace. Therefore, the non-detect VOC results in sample TB-20230215 were UJ qualified as estimated less than the limit of detections (LODs).

Sample ID	Compound	Laboratory Result (µg/l)	Laboratory Flag	Validation Result (µg/l)	Validation Qualifier*	Reason Code**
TB-20230215	1,1,1,2-Tetrachloroethane	0.36	U	0.36	UJ	1
TB-20230215	1,1,1-Trichloroethane	0.30	U	0.30	UJ	1
TB-20230215	1,1,2,2-Tetrachloroethane	0.38	U	0.38	UJ	1
TB-20230215	1,1,2-Trichloroethane	0.34	U	0.34	UJ	1
TB-20230215	1,1-Dichloroethane	0.30	U	0.30	UJ	1
TB-20230215	1,1-Dichloroethene	0.58	U	0.58	UJ	1
TB-20230215	1,1-Dichloropropene	0.41	U	0.41	UJ	1
TB-20230215	1,2,3-Trichlorobenzene	1.0	U	1.0	UJ	1
TB-20230215	1,2,3-Trichloropropane	0.56	U	0.56	UJ	1
TB-20230215	1,2,4-Trichlorobenzene	0.95	U	0.95	UJ	1
TB-20230215	1,2,4-Trimethylbenzene	0.45	U	0.45	UJ	1
TB-20230215	1,2-Dibromo-3-chloropropane	2.4	U	2.4	UJ	1
TB-20230215	1,2-Dibromoethane (EDB)	0.31	U	0.31	UJ	1
TB-20230215	1,2-Dichlorobenzene	0.33	U	0.33	UJ	1
TB-20230215	1,2-Dichloroethane	0.29	U	0.29	UJ	1

Sample ID	Compound	Laboratory Result (µg/l)	Laboratory Flag	Validation Result (µg/l)	Validation Qualifier*	Reason Code**
TB-20230215	1,2-Dichloropropane	0.45	U	0.45	UJ	1
TB-20230215	1,3,5-Trimethylbenzene	0.36	U	0.36	UJ	1
TB-20230215	1,3-Dichlorobenzene	0.35	U	0.35	UJ	1
TB-20230215	1,3-Dichloropropane	0.30	U	0.30	UJ	1
TB-20230215	1,4-Dichlorobenzene	0.89	U	0.89	UJ	1
TB-20230215	2,2-Dichloropropane	4.2	U	4.2	UJ	1
TB-20230215	2-Chlorotoluene	0.89	U	0.89	UJ	1
TB-20230215	4-Chlorotoluene	0.89	U	0.89	UJ	1
TB-20230215	Benzene	0.30	U	0.30	UJ	1
TB-20230215	Bromobenzene	0.36	U	0.36	UJ	1
TB-20230215	Bromochloromethane	0.36	U	0.36	UJ	1
TB-20230215	Bromodichloromethane	0.42	U	0.42	UJ	1
TB-20230215	Bromoform	3.8	U	3.8	UJ	1
TB-20230215	Bromomethane	1.2	U	1.2	UJ	1
TB-20230215	Carbon tetrachloride	0.37	U	0.37	UJ	1
TB-20230215	Chlorobenzene	0.86	U	0.86	UJ	1
TB-20230215	Chloroethane	1.4	U	1.4	UJ	1
TB-20230215	Chloroform	1.2	U	1.2	UJ	1
TB-20230215	Chloromethane	1.6	U	1.6	UJ	1
TB-20230215	Dibromochloromethane	2.6	U	2.6	UJ	1
TB-20230215	Dibromomethane	0.99	U	0.99	UJ	1
TB-20230215	Dichlorodifluoromethane	0.46	UL2	0.46	UJ	1
TB-20230215	Diisopropyl ether	1.1	U	1.1	UJ	1
TB-20230215	Ethylbenzene	0.33	U	0.33	UJ	1
TB-20230215	Hexachloro-1,3-butadiene	2.7	U	2.7	UJ	1
TB-20230215	Isopropylbenzene (Cumene)	1.0	U	1.0	UJ	1
TB-20230215	Methyl-tert-butyl ether	1.1	U	1.1	UJ	1
TB-20230215	Methylene Chloride	0.32	U	0.32	UJ	1
TB-20230215	Naphthalene	1.1	U	1.1	UJ	1
TB-20230215	Styrene	0.36	U	0.36	UJ	1
TB-20230215	Tetrachloroethene	0.41	U	0.41	UJ	1
TB-20230215	Toluene	0.29	U	0.29	UJ	1

Sample ID	Compound	Laboratory Result (µg/l)	Laboratory Flag	Validation Result (µg/l)	Validation Qualifier*	Reason Code**
TB-20230215	Trichloroethene	0.32	U	0.32	UJ	1
TB-20230215	Trichlorofluoromethane	0.42	U	0.42	UJ	1
TB-20230215	Vinyl chloride	0.17	U	0.17	UJ	1
TB-20230215	cis-1,2-Dichloroethene	0.47	U	0.47	UJ	1
TB-20230215	cis-1,3-Dichloropropene	0.36	U	0.36	UJ	1
TB-20230215	m&p-Xylene	0.70	U	0.70	UJ	1
TB-20230215	n-Butylbenzene	0.86	U	0.86	UJ	1
TB-20230215	n-Propylbenzene	0.35	U	0.35	UJ	1
TB-20230215	o-Xylene	0.35	U	0.35	UJ	1
TB-20230215	p-Isopropyltoluene	1.0	U	1.0	UJ	1
TB-20230215	sec-Butylbenzene	0.42	U	0.42	UJ	1
TB-20230215	tert-Butylbenzene	0.59	U	0.59	UJ	1
TB-20230215	trans-1,2-Dichloroethene	0.53	U	0.53	UJ	1
TB-20230215	trans-1,3-Dichloropropene	3.5	U	3.5	UJ	1

µg/l-microgram per liter
U-not detected at or above the LODs
* 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 analyses of preserved water samples 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 438056 and 438385). VOCs were not detected in the method blanks above the LODs.

1.4 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 relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of dichlorodifluoromethane in the MS/MSD and vinyl chloride in the MSD were low and outside the laboratory specified acceptance criteria. Therefore, the non-detect dichlorodifluoromethane result was UJ qualified as estimated less than the LOD and the concentration of vinyl chloride was J qualified as estimated in sample PZ-1.

Additionally, one batch MS/MSD 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.

Sample ID	Compound	Laboratory Result (µg/L)	Laboratory Flag	Validation Result (µg/L)	Validation Qualifier	Reason Code
PZ-1	Dichlorodifluoromethane	4.6	U, M0, L2	4.6	UJ	4
PZ-1	Vinyl chloride	110	M1	110	J	4

µg/l-microgram per liter
U-not detected at or above the LOD
M0-laboratory flag indicating the MS/MSD recovery was outside the laboratory specified acceptance criteria
M1-laboratory flag indicating the MS recovery was outside of laboratory specified acceptance criteria
L2-laboratory flag indicating the laboratory control sample (LCS) recovery was outside of 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). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria, with the following exceptions.

The recovery of dichlorofluoromethane in the LCS in batch 438056 was low and outside the laboratory specified acceptance criteria. Therefore, the non-detect dichlorofluoromethane results in the associated samples were UJ qualified as estimated less than the LOD.

The recoveries of 1,1,2,2-tetrachloroethane and 1,2-dichloropropane in the LCS in batch 438385 were high and outside the laboratory specified acceptance criteria. Since 1,1,2,2-tetrachloroethane and 1,2-dichloropropane were not detected in the associated samples, no qualifications were applied to the data.

Sample ID	Compound	Laboratory Result (µg/L)	Laboratory Flag	Validation Result (µg/L)	Validation Qualifier	Reason Code
PZ-1	Dichlorodifluoromethane	4.6	U,M0, L2	4.6	UJ	5
MW-6	Dichlorodifluoromethane	0.46	UL2	0.46	UJ	5
MW-7	Dichlorodifluoromethane	1.1	UL2	1.1	UJ	5
TB-20230215	Dichlorodifluoromethane	0.46	UL2	0.46	UJ	5
MW-6 DUP	Dichlorodifluoromethane	0.46	UL2	0.46	UJ	5

µg/l-microgram per liter
U-not detected at or above the LOD
M0-laboratory flag indicating the MS/MSD recovery was outside the laboratory specified acceptance criteria
L2-laboratory flag indicating the LCS recovery was low and outside of the laboratory specified acceptance criteria

1.6 Trip Blank

One trip blank was submitted with the sample set, TB-20230215. VOCs were not detected in the trip blank greater than the LODs.

1.7 Equipment Blank

Equipment blanks were not collected with the sample set.

1.8 Surrogates

The surrogate recoveries were within the laboratory specified acceptance criteria.

1.9 Field Duplicate

One field duplicate sample, MW-6 DUP was collected with the sample set. Acceptable precision (RPD ≤30%) was demonstrated between the field duplicates and the original sample, MW-6.

1.10 Sensitivity

The samples were reported to the LODs. Elevated non-detect results were reported due to the dilutions analyzed.

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 DISSOLVED GASES

The samples were analyzed for dissolved gases (methane, ethane and ethene) per US EPA Method 8015B Modified.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. 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
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The dissolved gas 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 the sample set is 100%.

2.2 Holding Times

The holding time for the dissolved gas analyses of a preserved water sample is 14 days from collection 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 437979). Dissolved gases were not detected in the method blank above the LODs.

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 recovery of ethene in the MSD was high and outside the laboratory specified acceptance criteria. Therefore, the concentration of ethene in sample PZ-1 was J qualified as estimated.

Sample ID	Compound	Laboratory Result (µg/l)	Laboratory Flag	Validation Result (µg/l)	Validation Qualifier	Reason Code
PZ-1	Ethene	32.8	M1	32.8	J	4

µg/l-microgram per liter
M1-laboratory flag indicating the MS and/or MSD recovery was high and outside the laboratory specified acceptance criteria

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/LCS duplicate (LCSD) pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

2.6 Field Duplicate

One field duplicate sample, MW-6 DUP was collected with the sample set. Acceptable precision (RPD ≤30%) was demonstrated between the field duplicate and the original sample, MW-6.

2.7 Sensitivity

The samples were reported to 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 TOTAL AND DISSOLVED IRON

The samples were analyzed for total and dissolved iron per US EPA Methods 3010A/6010D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. 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
- ✓ Field Duplicate
- ✓ Total and Dissolved Iron Assessment
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The total and dissolved iron 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 the sample set is 100%.

3.2 Holding Times and Preservation

The holding time for the total and dissolved iron analyses of a preserved water sample is 180 days from collection 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 438036 and 438038). Total and dissolved iron were not detected in the method blanks above the LODs.

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, both using sample PZ-1. 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). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Field Duplicate

One field duplicate sample, MW-6 DUP was collected with the sample set. Acceptable precision (RPD ≤30%) was demonstrated between the field duplicate and the original sample, MW-6.

3.7 Total and Dissolved Iron Assessment

The samples were analyzed for total and dissolved iron. The samples had total iron concentrations greater than the dissolved concentrations and the RPD between the two results were less than 30%, with the following exceptions.

The dissolved iron concentration was greater than the total iron concentration in sample PZ-1. Since the RPD result was less than 30% and based on professional and technical judgement, no qualifications were applied to the data.

3.8 Sensitivity

The samples were reported to the LODs. Elevated non-detect results were not reported.

3.9 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.

4.0 TOTAL ORGANIC CARBON

The samples were analyzed for TOC by SM 5310C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. 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 Control Sample
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The TOC 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 the sample set is 100%.

4.2 Holding Times

The holding time for the TOC analysis of a preserved 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). One method blank was reported (batch 438367). TOC was not detected in the method blank greater than the LOD.

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 sample set specific MS/MSD pair was reported, using sample PZ-1. 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.

4.6 Field Duplicate

One field duplicate sample, MW-6 DUP, was collected with the sample set. Acceptable precision (RPD<30%) was demonstrated between the field duplicates and the original sample, MW-6.

4.7 Sensitivity

The samples were reported to the LODs. Elevated non-detect results were not reported.

4.8 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.

5.0 ANIONS

The samples were analyzed for anions by US EPA method 300.0.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. 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 Control Sample
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The anions 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 the sample set is 100%.

5.2 Holding Times

The holding time for the anions analysis of a preserved water sample is 7 days from sample collection 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 437823). Anions were not detected in the method blank greater than the LODs.

5.4 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 exceptions.

The recoveries of nitrate as N in the MS/MSD pair were low and outside the laboratory specified acceptance criteria. Therefore, the non-detect nitrate as N result in sample PZ-1 was UJ qualified as estimated less than the LOD.

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.

Sample ID	Compound	Laboratory Result (µg/L)	Laboratory Flag	Validation Result (µg/L)	Validation Qualifier	Reason Code
PZ-1	Nitrate as N	0.044	U	0.044	UJ	4

µg/l-microgram per liter
U-not detected at or above the LOD

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.

5.6 Field Duplicate

One field duplicate sample, MW-6 DUP, was collected with the sample set. Acceptable precision (RPD<30%) was demonstrated between the field duplicate and the original sample, MW-6.

5.7 Sensitivity

The samples were reported to the LODs. Elevated non-detect results were not reported.

5.8 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.

6.0 SULFIDE

The samples were analyzed for sulfide by SM 4500-S F (2000).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. 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 Control Sample
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The sulfide 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 the sample set is 100%.

6.2 Holding Times

The holding time for the sulfide analysis of a preserved water sample is 7 days from sample collection to analysis. The holding times were met for the sample analyses.

The laboratory noted that samples MW-1, PZ-1, MW-6, MW-7 and MW-6 DUP were analyzed from containers with headspace. However, since the samples were preserved with zinc acetate and based on professional and technical judgement, no qualifications were applied to the data.

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). One method blank was reported (batch 438175). Sulfide was not detected in the method blank greater than the LOD.

6.4 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.

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.

6.5 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.

6.6 Field Duplicate

One field duplicate sample, MW-6 DUP, was collected with the sample set. Acceptable precision (RPD<30%) was demonstrated between the field duplicates and the original sample, MW-6.

6.7 Sensitivity

The samples were reported to 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

SiREM
Leading Science · Lasting Solutions

180A Market Place Blvd.
Knoxville, TN 37922

130 Stone Rd. W
Guelph, ON N1G 3Z2

Gene-Trac® Certificate of Analysis

Customer: Greg Johnson
Email: gjohnson@geosyntec.com
Phone: 262-834-0226
Company: Geosyntec Consultants
Project Name: Milwaukee Die Cast Site
Method Reference: SOP-002, 019, 108, 114, & 116

Batch Reference: S-9647
Report Date: 7-Mar-23
Certificate Number: CAG-0331
Test Location(s): Knoxville and Guelph
Customer Reference: CHW8271P

The results included herein only apply to the samples described within and are applicable to the items as received.
SOP-116 (DNA Extraction) and SOP-114 (DNA Quantification) were performed at SiREM Knoxville, the remainder of testing was performed at SiREM Guelph.

gene trac®

Certificate of Analysis: Gene-Trac® *Dehalococcoides* Assay

Certificate number: CAG-0331

Data File(s): QS3B-DHCT-TM-QPCR-2112

Run Date(s): 28-Feb-23

Table 1: Test Results

Sample ID	*Dehalococcoides* (Dhc)	
	Percent Dhc[1]	Enumeration/Liter[2,3]
MW-1	0.1 - 0.3 %	2×10^6
MW-6	NA	3×10^3 U
MW-6 DUP	NA	3×10^3 U
MW-7	NA	2×10^3 U
PZ-1	NA	3×10^3 U

See final page for notes.

Analyst: Taylor A

Taylor Aris, B.Sc.
Laboratory Technician II

Approved: Jennifer Wilkinson

Jen Wilkinson
Senior Laboratory Technician II

Table 2: Detailed Test Parameters, Test Certificate CAG-0331

Customer Sample ID	MW-1	MW-6	MW-6 DUP	MW-7	PZ-1
Date Sampled [4]	15-Feb-23	14-Feb-23	14-Feb-23	14-Feb-23	15-Feb-23
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Date Received [4]	17-Feb-23	17-Feb-23	17-Feb-23	17-Feb-23	17-Feb-23
Sample Temperature	1.9 °C	1.9 °C	1.9 °C	1.9 °C	1.9 °C
Filtration Date [4]	17-Feb-23	17-Feb-23	17-Feb-23	17-Feb-23	17-Feb-23
Volume Used for DNA Extraction	100 mL	100 mL	100 mL	200 mL	100 mL
DNA Extraction Date	20-Feb-23	20-Feb-23	20-Feb-23	20-Feb-23	20-Feb-23
DNA Concentration in Sample (extractable)	3,000 ng/L (U)	3,000 ng/L (U)	3,000 ng/L (U)	1,500 ng/L (U)	3,000 ng/L (U)
PCR Amplifiable DNA	Detected	Detected	Detected	Detected	Detected
DNA Extraction Control [5]	Passed	Passed	Passed	Passed	Passed
Detection Limit (copies/L)	3×10^3	3×10^3	3×10^3	2×10^3	3×10^3
Quantitation Limit (copies/L)	7×10^3	7×10^3	7×10^3	3×10^3	7×10^3
qPCR Controls (see Table 3)	Passed	Passed	Passed	Passed	Passed
Comments	- -	- -	- -	- -	- -

See final page for notes.

Table 3: Gene-Trac Dhc Control Results, Test Reference CAG-0331

Laboratory Control	Analysis Date	Control Description	Dhc 16S rRNA		Comments
			Spiked Gene Copies per Liter	Recovered Gene Copies per Liter	
Positive Control Low Concentration	28-Feb-23	Synthetic DNA (CSLD-1750)	1.1×10^{7}	1.1×10^{7}	Passed
Positive Control High Concentration	28-Feb-23	Synthetic DNA (CSHD-1750)	1.0×10^{9}	1.2×10^{9}	Passed
DNA Extraction Blank	28-Feb-23	Sterile Water (FB-4294)	0	6.6×10^{2} U	Passed
Negative Control	28-Feb-23	Reagent Blank (TBD-1709)	0	6.6×10^{2} U	Passed

See final page for notes.

Notes:
Dhc = *Dehalococcoides*
J The associated value is an estimated quantity between the detection limit and quantitation limit.
U Not detected, associated value is the detection limit.
B Analyte was detected in the method blank within an order of magnitude of the test sample.
E Extracted genomic DNA was not detected in the sample.
I Sample inhibited the test reaction based on inability to PCR amplify extracted DNA with universal primers.
ng/L = nanograms per liter
mL = milliliter
NA = not applicable
ND = not detected
DNA = deoxyribonucleic acid
16S rRNA = 16S ribosomal ribonucleic acid
PCR = polymerase chain reaction
qPCR = quantitative PCR
°C = degrees Celsius

[1] Percent *Dehalococcoides* (Dhc) in microbial population. This value is calculated by dividing the number of Dhc 16S ribosomal ribonucleic acid (rRNA) gene copies by the total number of bacteria as estimated by the mass of DNA extracted from the sample. Range represents normal variation in Dhc enumeration.

[2] Target quantitation is subject to the variability of the method, this variability has been demonstrated to be +/- 60%.

[3] Based on quantification of Dhc 16S rRNA gene copies. Dhc are generally reported to contain one 16S rRNA gene copy per cell; therefore, this number is often interpreted to represent the number of Dhc cells present in the sample.

[4] Samples are stabilized by freezing at -80 °C upon sample reception (field filters) or in-lab filtration (groundwater). Hold time not exceeded if sampling date is within 14 days of date received or filtration date.

[5] DNA is extracted from a standardized bacterial culture sample once per week and Total Bacteria qPCR is performed using standard methods. A recovery greater than 25% of the expected value is deemed acceptable.

[6] Control was outside recovery limit guidelines (+/- 50%), however, test results are deemed acceptable if one of two positive controls fall within the recovery limit guidelines.

Chain-of-Custody Form

siremlab.com

130 Stone Rd. W
Guelph, ON N1G 3Z2
(519) 822-2265

Lab # S-9647
pg 1 of 2

Project Name: MILWAUKEE DIE CAST SITE	Project #: CHW8271P
Project Manager: GREG JOHNSON	
Email: GJOHNSON@GEOSYNTEC.COM, DZOLP@GEOSYNTEC.COM; JPJOHNSON@GEOSYNTEC.COM	
Company: GEOSYNTEC	
Address: 10600 N. PORT WASHINGTON RD. STE. 100; MEQUON, WI 53092	
Phone #: 262-834-0226	
Sampler's Signature:	Sampler's Printed Name: DAVE ZOLP

Analysis

Client Sample ID	Lab ID	Sampling Date	Sampling Time	Matrix	# of Containers	Preservative	fraction of organic carbon	total iron	total sulfur	magnetic susceptibility	Other Information
						0	0	0	0		
GP-01-2023 (11-12)	∫	2/15/23	1345	SOIL	1		X	X	X	X	
GP-02-2023 (14-15)	∫	2/15/23	1335	SOIL	1		X	X	X	X	
GP-08-2023 (11-12)	∫	2/15/23	1355	SOIL	1		X	X	X	X	
GP-12-2023 (8-9)	∫	2/15/23	1400	SOIL	1		X	X	X	X	
GP--13-2023 (10-12)	∫	2/15/23	1412	SOIL	1		X	X	X	X	
GP-15-2023 (11-12)	∫	2/15/23	1428	SOIL	1		X	X	X	X	

Preservative Key
0. None
1. HCL
2. Other_____
3. Other_____
4. Other_____
5. Other_____
6. Other_____

Sample Receipt
Cooler Condition: intact-blue ice
Cooler Temperature: 1.9°C (KX00057)
Custody Seals: Yes ☐ No ☒

Invoice Information
P.O. # CHW8271P
Bill To: Geosyntec
10600 N. Port Washington Rd, Ste 100, Mequon, WI 53092

For Lab Use Only

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Dave Zolp	Printed Name: Kaitland Cracchiola	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: Geosyntec	Firm: SIREM	Firm:	Firm:	Firm:	Firm:
Date/Time: 2/16/2023	Date/Time: 02/17/23 1005	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

Chain-of-Custody Form

SiREM

siremlab.com

180B Market Place Blvd
Knoxville, TN 37922
1-865-291-4718 or 1-866-251-1747

Lab # S-96647

pg 2 of 2

*Project Name: Milwaukee die cast site
*Project #: CHW8271P
*Project Manager: greg johnson
*Company: geosyntec
*Email Address: gjohnson/dzolp/jpjohnson@geosyntec.com
Address (Street): 10600 N. Port Washington rd ste 100
City: Mequon
State/Province: WI
Country: USA
*Phone #: 262-834-0226
*Sampler's Signature:
*Sampler's Printed Name:

Analysis

Client Sample ID	Sampling Date	Sampling Time	Matrix	# of Containers	Gene-Trac DHC	Gene-Trac FGA	Gene-Trac DHB	Gene-Trac DHGM	Gene-Trac SRB	Volatile Fatty Acids	Dissolved hydrocarbon gases	Treatability Study	Other Information
MW-1	2/15/23	1217	GW	1	X								BK-09833
MW-6	2/14/23	1500	↓	↓	↓								BK-09834
MW-6 DUP	2/14/23	1500											BK-09836
MW-7	2/14/23	1310											BK-09831
PZ-1	2/15/23	1045											BK-09835

Preservative Key
0. None
1. HCL
2. Other
3. Other
4. Other
5. Other
6. Other

Billing Information
P.O. #:
*Bill To:

Turnaround Time Requested
Normal ☐
Rush ☐

For Lab Use Only
Cooler Condition: Intact - blue ice
Cooler Temperature: ~~5.5°C~~ 1.9°C
Custody Seals: Yes ☐ No ☒

For Lab Use Only (Bottle order: 32136)
KC created CoC per D365 proposal.
Gene-trac GW samples not listed on COC. (KC 021723)
Proposal #:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature: Kaitland Cracchiola	Signature	Signature	Signature	Signature
Printed Name	Printed Name: Kaitland Cracchiola	Printed Name	Printed Name	Printed Name	Printed Name
Firm	Firm: SiREM	Firm	Firm	Firm	Firm
Date/Time	Date/Time: 02/17/23 1005	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - return to Originator: Yellow - Lab Copy: Pink - Retained by Client

** Mandatory Fields*

ATTACHMENT 7

Investigation-Derived Waste Disposal Documentation

Please print or type

Form Approved OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
WID006102305	1	(877) 818-0087	002117429 VES

GENERATOR

5. Generator's Name and Mailing Address
FORMER MILWAUKEE DIE CAST
4132 NORTH HOLTON STREET
MILWAUKEE, WI 53212
Generator's Phone 262 292-6080

Generator's Site Address (if different than mailing address)
SAME

6. Transporter 1 Company Name
VEOLIA ES TECHNICAL SOLUTIONS
U.S. EPA ID Number NJD080631369

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
Facility's Phone 262 255-6655
U.S. EPA ID Number WID039671488

9a HM	9b U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1 NA3077, HAZARDOUS WASTE, SOLID, n.o.s., (TETRACHLOROETHYLENE), 9, III, RQ (D039)	1	DM	362	P	F002 D039	D040	
X	2 NA3082, HAZARDOUS WASTE, LIQUID, n.o.s., (TRICHLOROETHENE, VINYL CHLORIDE), 9, III	1	DM	230	P	F002 D039	D040 D043	
	3							
	4							

14. Special Handling Instructions and Additional Information
ERG Service Contracted by VESTS + OU36190 ES + 1) ERG:171 W:1064774 A: CWDTWISOL 2) ERG:171 W:992094 A:CWDTWILIQ

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: X MARY Jo ANZIA AS AGENT FOR PHARMACIA LLC
Signature: X Mary Jo Anzia
Month 04 Day 12 Year 23

INT'L

16. International Shipments
☐ Import to U.S. ☐ Export from U.S. Port of entry/exit
Transporter signature (for exports only) Date leaving U.S.

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jacob Kolp
Signature: Jacob Kolp
Month 04 Day 12 Year 23
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number
18b. Alternate Facility (or Generator)
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	2	3	4
H141	H141		

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: Andy Castleton
Signature
Month 4 Day 18 Year 23

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM