

SITE INVESTIGATION REPORT


**MCABI-TYCO REDEVELOPMENT SITE
1310-1330 MAIN STREET
MARINETTE, WISCONSIN**

**BRRTS #02-38-564236
VPLE #06-38-576107**



Prepared for:
Marinette County Association of Business and Industry

Prepared by:


Evan J. Weber
Environmental Scientist


Lynelle P. Caine
Associate


Stuart Gross, P.G.
Associate

Project No. 193704595

March 28, 2018

SITE INVESTIGATION REPORT

1310-1330 Main Street
MCABI-Tyco Redevelopment Site, Marinette, WI

Table of Contents

LIST OF ACRONYMS AND ABBREVIATIONS..... iii

1.0 GENERAL INFORMATION..... 1

2.0 INTRODUCTION 2

2.1 BACKGROUND INFORMATION 2

2.2 REGIONAL PHYSIOGRAPHY, GEOLOGY, AND HYDROGEOLOGY 3

3.0 INVESTIGATION RATIONALE AND METHODOLOGY..... 4

3.1 SCOPING INFORMATION 4

3.2 SEQUENCE OF ACTIVITIES 4

3.3 SOIL BORING COMPLETION AND SOIL SAMPLING 4

3.4 MONITORING WELL INSTALLATION AND GROUNDWATER SAMPLING..... 5

3.5 SUMMARY OF FIELD, LABORATORY, AND OTHER DATA COLLECTED 6

4.0 APPLICABLE CLEAN-UP CRITERIA..... 7

5.0 SITE INVESTIGATION FINDINGS 9

5.1 SITE HYDROGEOLOGIC CONDITIONS..... 9

5.2 NATURE AND EXTENT OF SOIL IMPACTS..... 9

5.3 NATURE AND EXTENT OF GROUNDWATER IMPACTS 10

5.4 MIGRATION PATHWAYS AND POTENTIAL RECEPTORS 10

5.4.1 Groundwater/Surface Water Impacts 11

5.4.2 Utilities..... 11

5.4.3 Vapor Intrusion 11

6.0 PROPOSED REMEDIAL ACTION PLAN 12

7.0 CONCLUSIONS, RECOMMENDATIONS, AND LIMITATIONS..... 13

7.1 CONCLUSIONS AND RECOMMENDATIONS 13

7.2 LIMITATIONS 14

8.0 REFERENCES..... 15

9.0 CERTIFICATION..... 16

SITE INVESTIGATION REPORT

1310-1330 Main Street

MCABI-Tyco Redevelopment Site, Marinette, WI

Table of Contents – con't

LIST OF FIGURES

Figure 1:	Site Location and Local Topography
Figure 2:	Pre-Development Site Layout
Figure 3:	Soil Boring Locations
Figure 4:	Monitoring Well Locations
Figure 5:	Groundwater Contour Map (10/14/15)
Figure 6:	Estimated Extent of Soil Contamination
Figure 7:	Estimated Extent of Groundwater Contamination
Figure 8:	Post Remedial Extent of Groundwater Contamination

LIST OF TABLES

Table 1:	Soil Field Screening Results
Table 2a:	Soil Sample RCRA Metals, PAHs, and PCB Laboratory Results
Table 2b:	Soil Sample VOC Laboratory Results
Table 2c:	Soil Sample Organochlorine Pesticides Laboratory Results
Table 3a:	Groundwater Sample RCRA Metals Laboratory Results
Table 3b:	Groundwater Sample VOC Laboratory Results
Table 3c:	Groundwater Sample PAH Laboratory Results
Table 3d:	Groundwater Sample PCB Laboratory Results
Table 4:	Water Level Data

LIST OF APPENDICES

Appendix A:	Soil Boring Logs
Appendix B:	Soil Boring and Monitoring Well Abandonment Forms
Appendix C:	Monitoring Well Construction and Development Forms
Appendix D:	Soil Laboratory Analytical Reports and Chain-of-Custody Forms
Appendix E:	Groundwater Analytical Reports and Chain-of-Custody Forms

SITE INVESTIGATION REPORT

1310-1330 Main Street

MCABI-Tyco Redevelopment Site, Marinette, WI

List of Acronyms and Abbreviations

Amsl	Above mean sea level
As	Arsenic
ASTM	American Society for Testing and Materials
BRRTS	Bureau of Remediation and Redevelopment Tracking System
BTV	Background Threshold Value
DNAPL	Dense non-aqueous phase liquid
DOT	Department of Transportation
DRO	Diesel range organic
EPA	Environmental Protection Agency
ERP	Environmental Repair Program
ES	Enforcement standard
ESA	Environmental site assessment
eV	Electronvolt
Fbg	Feet below grade
FID	Facility Identifications
GRO	Gasoline range organics
GW	Groundwater
HASP	Health and Safety Plan
Hg	Mercury
ICP	Inductively coupled plasma
ID	Identification
Ih	Horizontal hydraulic gradient
LNAPL	Light non-aqueous phase liquid
LUST	Leaking underground storage tank
Kh	Hydraulic conductivity
Mg/kg	Milligrams per kilogram
Mg/L	Milligrams per liter
NIDC	Non-industrial Direct Contact
NR140	Chapter NR140 Wisconsin Administrative Code
NR141	Chapter NR141 Wisconsin Administrative Code
NR716	Chapter NR716 Wisconsin Administrative Code
NR720	Chapter NR720 Wisconsin Administrative Code
PAH	Polynuclear aromatic hydrocarbons
PAL	Preventive action limit
PCB	Polychlorinated biphenyl
PCE	Tetrachloroethene (perchloroethene)
PID	Photoionization detector
Ppm	Parts per million
PVC	Polyvinyl chloride
PVOC	Petroleum volatile organic compounds

SITE INVESTIGATION REPORT

1310-1330 Main Street

MCABI-Tyco Redevelopment Site, Marinette, WI

QA	Quality Assurance
QAPP	Quality Assurance Project Plan
RCL	Residual contaminant level
RCRA	Resource Conservation and Recovery Act
REC	Recognized environmental condition
RSL	Regional Screening Level
SAP	Sampling and Analysis Plan
SI	Site Investigation
SOP	Standard Operating Procedure
Stantec	Stantec Consulting Services, Inc.
SVOC	Semi-volatile Organic Compound
1,1,1-TCA	1,1,1-Trichloroethane
TA	Test America
TCE	Trichloroethene
TCLP	Toxicity characteristic leaching procedure
TSCA	Toxic Substance Control Act
µg/kg	Micrograms per kilogram
µg/L	Micrograms per liter
U.S. EPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UST	Underground storage tank
City	City of Marinette
VOC	Volatile organic compound
VPLE	Voluntary Party Liability Exemption
WAC	Wisconsin Administrative Code
WDNR	Wisconsin Department of Natural Resources
WGNHS	Wisconsin Geological and Natural History Survey
WTM	Wisconsin Transverse Mercator

SITE INVESTIGATION REPORT

1310-1330 Main Street

MCABI-Tyco Redevelopment Site, Marinette, WI

1.0 General Information

The following is general information required as part of Site Investigation (SI) reports prepared under Chapter NR716 Wisconsin Administrative Code (WAC).

1. Project Title and Purpose	
	Site Investigation Report
2. Key Site Contact Information	
Owner:	Marinette County Association for Business and Industry (MCABI)
	1926 Hall Avenue, Room C314, Marinette, Wisconsin 54143
	Contact: Ann Hartnell, Executive Director
Responsible Party:	Same as above
3. Consultant Information	
	Stantec Consulting Services Inc.
	1165 Scheuring Road, De Pere, Wisconsin 54115
	Contact: Lynelle Caine, Senior Project Manager
	Phone: (920) 655-7211
4. Site Information	
Site Name:	MCABI-Tyco Redevelopment Site
Address:	1310-1330 Main Street, Marinette, Wisconsin 54143
Location:	City of Marinette, Marinette County, WI 54143 SE ¼ of the SE ¼ of Section 6, T30N, R24E
Coordinates:	Latitude: 45.0951983; Longitude: -87.6207949
5. Regulatory Information	
WDNR Contact:	David Neste
BRRTS No.:	02-38-564236
VPLE No.:	06-38-576107

BRRTS = Bureau of Remediation and Redevelopment Tracking System

VPLE = Voluntary Party Liability Exemption

SITE INVESTIGATION REPORT

1310-1330 Main Street

MCABI-Tyco Redevelopment Site, Marinette, WI

2.0 Introduction

This section presents background information, a summary of previous environmental activities or studies, and information on the regional physiographic, geologic, and hydrogeologic conditions.

2.1 BACKGROUND INFORMATION

The 1310-1330 Main Street property (herein the “Site” or “Property”) that is the subject of this SI report was acquired by the Marinette County Association for Business and Industry (MCABI) in 2016 from the previous owner Tyco Fire Protection Products (Tyco). The Property was acquired for the purpose of redevelopment with a one story 23,776 square foot office building to support naval personnel working with nearby Marinette Marine as well as local startup businesses within Marinette County to be known as the Wisconsin Maritime Center of Excellence (WMCOE).

The site has been recently redeveloped and is located in the City of Marinette, Marinette County, Wisconsin in the location shown in Figure 1. The Site is bordered to the east by Stanton Street with Main Street followed by commercial and residential lots to the south; the north by Ludington Street followed by Marinette Marine; the west with commercial lots. A map depicting the Site Layout is included as Figure 2.

During June 2015, Stantec Consulting Services Inc. (Stantec) completed a Phase I Environmental Site Assessment (ESA) to evaluate potential environmental liabilities associated with the Property. Based on the information gathered during the Phase I ESA, Stantec identified six recognized environmental conditions (RECs) associated with the Site:

- The historic presence of a coal yard occupying central portions of the Property; The former presence of the Chicago and Northwestern rail line through central portions of the Property and the petroleum storage tanks that were formerly present adjacent to the rail line;
- The former presence of a service station with petroleum storage tanks on the southeastern portion of the Property;
- The known presence of buried solid waste being encountered at the adjacent properties and the undocumented fill material placed in the former log run near the northwestern portion of the Property;
- Former use of the southwestern portion of the Property as an auto repair business, battery services and machine shop, and tool works; and
- The historic presence of a print shop and associated underground storage tank at an adjacent Property up-gradient of the Property.

To determine if the identified RECs affected soil and/or groundwater quality at the Site, Stantec completed a Phase II ESA in August 2015. As part of the Phase II ESA, 12 soil borings were advanced with five additional blind drilled borings installed directly adjacent to existing borings and completed as temporary groundwater monitoring wells. Soil and groundwater samples were collected from the boreholes and temporary well locations. The Phase II ESA identified up to 16 feet of generally sandy fill across the Site containing discontinuous layers of or intermixed solid waste (i.e. wood chips and metal, slag, paper, glass, and/or plastic debris). The fill material appears to be the likely source of the contaminants detected at the Site.

Results of the Phase II ESA indicated polynuclear aromatic hydrocarbon (PAH) concentrations exceeding one or more NR720 Wisconsin Administrative Code (NR720) Residual Contaminant Levels (RCLs) were present in soil samples collected at many locations on the Site. Arsenic,

SITE INVESTIGATION REPORT

1310-1330 Main Street

MCABI-Tyco Redevelopment Site, Marinette, WI

lead, and/or silver concentrations were also detected in soil samples from seven boreholes exceeding one or more NR720 RCLs. No other metals exceeded a NR720 RCL. Benzene and PCE concentrations collected from two boreholes exceeded their respective NR720 RCL for groundwater protection. No other volatile organic compound (VOC) concentrations exceeding a NR720 RCL during the Phase II ESA.

Subsequently, due to a pending redevelopment and enrollment in the VPLE program, Stantec initiated a SI to define the extent of soil and groundwater contamination identified during the Phase II ESA and meet requirements for further assessment required by the WDNR. As such, field sampling, laboratory, and investigative activities were performed in accordance to the WDNR approved site investigation workplan submitted to the WDNR in September 2015. A Materials Management Plan (MMP) was prepared and approved by the WDNR on September 26, 2016 which described how contaminated soil and historic fill would be managed, redeposited and capped during redevelopment activities. An Application to Construct on a Historical Fill site was also submitted and approved by the WDNR on September 23, 2016. Redevelopment activities were initiated at the Site during October 2016. The following report summarizes the site investigation activities completed to date at the Site.

2.2 REGIONAL PHYSIOGRAPHY, GEOLOGY, AND HYDROGEOLOGY

The Property is located in the area covered by the Green Bay Lobe of the Laurentide Ice Sheet during the Wisconsin Glaciation (Wisconsin Geological and Natural History Survey, 2011), resulting in topography that is rolling, moderately hilly, and containing numerous drumlins. In general, the area is covered by greater than 50 feet of unconsolidated glacial till however Geotechnical drilling encountered refusal within borings during the Phase II ESA at approximately 30-40 fbg. Underlying the till is a series of dolomite limestone, and shale units of the Sinipee Group, Ordovician Formation (Bedrock Geology of Wisconsin, 1981).

The shallow water table is often a subdued expression of surface topography. Shallow groundwater generally flows from areas of groundwater recharge, such as hills and broad uplands, to areas of groundwater discharge, such as wetlands, rivers, and lakes. Based on the local surface topography, local shallow groundwater is expected to flow towards riverine areas north and northeast of the Property. Other man-made features such as wells, roads, filled areas, buried utility lines, sewers, and drainage ditches may alter the natural shallow groundwater flow direction. Depth to shallow groundwater prior to development was observed from approximately 3 to 11fbg across the property depending upon surface topography.

Potable water at the surrounding properties is obtained from the City of Marinette municipal water system which the City receives from Lake Michigan. According to the Marinette Water and Wastewater Department, no municipal wells are located near the Site. Water supplied to the Property will be provided by the City of Marinette upon redevelopment.

SITE INVESTIGATION REPORT

1310-1330 Main Street

MCABI-Tyco Redevelopment Site, Marinette, WI

3.0 Investigation Rationale and Methodology

This section presents details for the methods of investigation used during the SI.

3.1 SCOPING INFORMATION

The SI was focused on assessing known or potential environmental concerns present at the Site. These concerns/data gaps included:

1. confirming and defining the presence of soil and groundwater contaminants discovered during the previous Phase II ESA especially those in the direct contact interval.
2. further assessing potential impacts to soil and groundwater on the property as they relate to future development.

To address these concerns, eight soil borings and six monitoring wells were installed to define the extent of known contamination identified during the previous investigative work. Samples were collected primarily from the 0-2, 2-4, or 4-6 foot interval based on field screening results.

3.2 SEQUENCE OF ACTIVITIES

The sequence of activities performed as part of the SI are summarized below.

	Dates	Activity Description
Site Investigation	10/7/2015	Drilling initiated with the completion of 7 borings (B1300 through B1900) and installation of monitoring wells MW1500 – MW1900.
	10/8/2015	Drilling completed with advancement of boring B2000 converted to MW2000. All wells were developed per NR 141 standards.
	10/14/2015	Groundwater samples and elevations collected from the 6 newly constructed monitoring wells
	8/4/2016	Complete a second round of sampling from the 6 wells.
	10/6/2016	Complete third round of sampling from MW1800 and MW2000
	4/13/2017	Complete fourth round of sampling of MW1800
	6/30/2017	Complete fifth round of sampling of MW1800
	10/27/2017	Install TW2100. Collect groundwater samples from TW2100 and MW1800
1/30/2018	Collect groundwater samples from MW1800 and TW2100	

3.3 SOIL BORING COMPLETION AND SOIL SAMPLING

Between October 7 through October 8, 2015, Stantec completed eight soil borings (B1300 through B2000) on the Site using a drill rig equipped with hollow stem augers. During this time Stantec personnel collected soil samples from all the borings for field screening and possible laboratory analysis. Geotechnical data was also collected from borings associated with the proposed future development. Drilling and geotechnical analysis was conducted by PSI Engineering (Intertek) from Green Bay, Wisconsin. On October 27, 2017, soil boring B2100 was advanced for the purpose of installing a temporary well.

Soil was sampled continuously from the ground surface to the total depths explored using a drill rig with the exception of B1900 and B2000 which were blind drilled and installed immediately adjacent to previous Site borings. Borings B1300 and B1400 were advanced to a depth of 4 fbg. Soil borings B1500 through B2000 were drilled to a maximum depth of 15 fbg. The final boring, B2100 was completed to 12 feet bgs. Soil samples were collected at each location with the

SITE INVESTIGATION REPORT

1310-1330 Main Street

MCABI-Tyco Redevelopment Site, Marinette, WI

exception of B2100. The samples were collected to evaluate if soil and/or groundwater was impacted by previous site use or historic filling. Soil boring locations are illustrated on Figure 3. Geologic soil boring logs are presented in Appendix A.

Each two-foot soil sampling interval was divided into two aliquots - one used for field screening purposes and one used to supply materials for potential submittal to a laboratory for chemical analysis. The laboratory aliquot for each soil sample was immediately placed in laboratory provided containers, sealed, and placed in a cooler with ice. The other portion of each sample was placed into plastic Ziploc® bags and used for field screening the presence of VOCs using a photoionization detector (PID) equipped with an 11.7 electronvolt (eV) lamp. All non-disposable soil sampling equipment was washed with a detergent solution and double-rinsed with organic-free tap water before and after each soil sample was collected to prevent sample cross-contamination. The soil field screening results are presented on Table 1 as well as included on the geologic logs presented in Appendix A.

For all of the borings, the corresponding soil sample(s) exhibiting the highest PID reading was submitted for laboratory analysis for combinations of Pesticides, PCBs, VOCs, PAHs, and/or lead. Soil samples were submitted under chain-of-custody procedures and analyzed by Test America (TA) in Chicago Illinois (WDNR Laboratory Certification No. 999580010).

Soil borings B1300 and B1400 not completed as monitoring wells were immediately abandoned in accordance with Chapter NR 141.25 WAC by backfilling with bentonite after the completion of drilling and soil sampling. WDNR Borehole Abandonment Forms are presented in Appendix B. Approximately one yard of soil spoils was generated during the drilling activities. All spoils were stored in labeled Department of Transportation (DOT)-approved drums and disposed by Advances Disposal Services (Covanta) in March 2016.

3.4 MONITORING WELL INSTALLATION AND GROUNDWATER SAMPLING

Monitoring wells were installed in six of the soil borings (B1500, B1600, B1700, B1800, B1900, and B2000) and designated as MW1500, MW1600, MW1700, MW1800, MW1900, and MW2000 respectively. One temporary groundwater monitoring well was installed in soil boring B2100 in the Ludington Street ROW designated TW2100. The monitoring wells were constructed using 2-inch inner diameter (ID), Schedule 40 polyvinyl chloride (PVC) casing (1-inch for TW2100) and 10-foot lengths of factory slotted PVC screen (0.010-inch slot) that were positioned to straddle/intersect the water table. Monitoring well locations are shown on Figure 4.

Construction and development of the monitoring wells was conducted in accordance with Chapter NR 141, WAC. Monitoring well sampling was conducted in accordance with WDNR guidance (WDNR, 1996). WDNR Monitoring Well Construction and Well Development Forms are included as Appendix C. Monitoring well development and purge water were stored on site in labeled 55-gallon drums. The location of each monitoring well was documented using a GPS with the vertical height of the ground surface and riser elevation surveyed at each monitoring well location. On October 14, 2015, Stantec personnel collected initial groundwater samples from the monitoring wells. Up to six subsequent sampling events were also completed for select wells between October 2015 and January 2018. Sampling was conducted using disposable bailers. As part of the groundwater sample collection process, observations were specifically made for the presence of oil droplets or a petroleum sheen, which could indicate the presence on the water table of a floating layer of Light Non-Aqueous Phase Liquids (LNAPLs). No evidence for the presence of LNAPLs was observed by Stantec personnel at any of the monitoring wells.

Groundwater removed from the wells was carefully poured from the bailers directly into pre-cleaned sample bottles provided by the laboratory. Care was exercised during sampling to

SITE INVESTIGATION REPORT

1310-1330 Main Street

MCABI-Tyco Redevelopment Site, Marinette, WI

avoid aeration of the samples. The bottles were prepared with pre-measured chemical preservatives by the analytical laboratory (i.e., hydrochloric acid for VOC samples and nitric acid for metals samples). Groundwater samples for dissolved metals analysis were first field-filtered prior to filling the sample bottles. New disposable filters were used for each sample.

The sample bottles were packed into a cooler with ice immediately after collection and delivered under chain-of-custody procedures directly to the laboratory for analysis. The groundwater samples were analyzed for a combination of PAHs, PCBs, VOCs, dissolved arsenic, lead, and/or selenium.

During October 2016 monitoring wells MW1500, MW1600, MW1700, MW1900 and MW2000 were abandoned following WDNR approval to facilitate redevelopment activities. Copies of the well abandonment forms are included in Appendix B. MW1800 and TW2100 remain at the Property and will be abandoned upon closure of the Site.

3.5 SUMMARY OF FIELD, LABORATORY, AND OTHER DATA COLLECTED

Following is a summary of the types of data collected as part of the SI completed by Stantec.

Data Type	MCABI-Tyco Redevelopment Site
Physical and visual characteristics (soil)	36 samples
PID field screening data (soil)	36 samples
Elevation data (water table surface)	6 wells
Laboratory analyses (soil) – PAHs	1 sample
Laboratory analyses (soil) – PCBs	4 samples
Laboratory analyses (soil) – VOCs	1 sample
Laboratory analyses (soil) – Lead	3 samples
Laboratory analyses (soil) – Pesticides	3 samples
Laboratory analyses (water) – PAHs	10 samples
Laboratory analyses (water) – PCBs	1 sample
Laboratory analyses (water) – VOCs	2 samples
Laboratory analyses (water) – Arsenic	14 samples
Laboratory analyses (water) – Selenium	1 sample
Laboratory analyses (water) – Lead	1 sample

SITE INVESTIGATION REPORT

1310-1330 Main Street

MCABI-Tyco Redevelopment Site, Marinette, WI

4.0 Applicable Clean-up Criteria

Procedures for establishing soil cleanup standards applicable to sites in Wisconsin with documented soil contamination are specified in Chapter NR720, Wisconsin Administrative Code (NR720). Significant revisions to NR720 were implemented in 2013, with an effective date of November 1, 2013.

Soil cleanup standards depend in part on current land use and zoning. Based on the current and planned future use of the property for residential or other non-industrial land uses, the more restrictive non-industrial classification is being used to assess cleanup criteria for the property.

Residual contaminant levels (RCLs) are numerical soil cleanup standards that are calculated for a minimum of two exposure pathways – direct contact by humans with exposed soil, and leaching of contaminants from soil into groundwater. The cleanup standard is the lower of the RCLs calculated for a number of exposure pathways. A variety of methods may be used to calculate RCLs, subject to WDNR approval. The approach used for the MCABI-Tyco Redevelopment Site was to use an RCL spreadsheet developed by the WDNR's Remediation and Redevelopment Program staff for use by consultant's. The spreadsheet (WDNR, 2016) is updated periodically by WDNR staff and utilizes toxicity information maintained on the U.S. EPA Regional Screening Level (RSL) website: <http://www.epa.gov/reg3hwmd/risk/human/rb-concentration-table/index.htm>. As toxicity data are updated periodically for different types of contaminants, the WDNR RCL spreadsheet is similarly updated. Please note the extent of contamination depicted in the figures is based on the pre-development conditions using the WDNR's Summary Table from January 2015 which was the basis for the Materials Management Plan at that time. The soil laboratory analytical tables included with this report have been updated to reflect the recently updated December 2017 RCLs.

As part of the revisions to NR720, WDNR adopted use of Background Threshold Values (BTVs) for select metals in soil whose occurrence may be attributable in whole or in part to natural occurrence in Wisconsin soil. BTVs are "non-outlier trace element maximum levels in Wisconsin surface soils" as determined through a state-wide study (USGS, 2011). BTVs were established for 16 metals including aluminum, arsenic, barium, cadmium, calcium, chromium, cobalt, copper, iron, magnesium, lead, manganese, nickel, strontium, vanadium, and zinc. Probably the most significant BTV is the value of 8.0 milligrams per kilogram (mg/kg) established for arsenic. This value is significant because the RCLs calculated for the direct contact and groundwater pathways are significantly lower than this value, which in the past resulted in sites with relatively low levels of naturally occurring arsenic significantly exceeding the cleanup levels. If measured levels of arsenic or the 15 other metals for which BTVs have been established are below the BTVs, these levels can be attributed to natural occurrence without the need to perform a WDNR-approved site-specific study to determine background levels. RCL values calculated for the non-industrial direct contact (NIDC) and groundwater protection (GWP) pathways are included on Tables 2a to 2c. BTVs are included on Table 2a.

Public health-related groundwater quality standards are set forth by NR140. Standards are listed for substances of public health concern (defined as substances having carcinogenic, mutagenic, or teratogenic properties or interactive effects) and substances of public welfare concern (defined as having a negative aesthetic value, but with little threat to human health). Two levels of standards are listed; the preventive action limit (PAL) and the enforcement standard (ES). The ES represents a concentration above which action generally must be taken to improve the quality of groundwater. The PAL represents a lower concentration (usually 10 to 20

SITE INVESTIGATION REPORT

1310-1330 Main Street

MCABI-Tyco Redevelopment Site, Marinette, WI

percent of the ES) above which groundwater quality should be monitored. PAL and ES concentrations are summarized in Tables 3a, 3b, and 3c.

The term “vapor intrusion pathway” generally refers to subsurface contamination that can move through the air-filled pores of vadose zone soils and enter the breathing space of buildings. WDNR notes that due to their high volatility and health risk, VOCs, particularly chlorinated VOCs and petroleum, are the contaminants that most commonly trigger assessment of the vapor intrusion pathway. WDNR vapor guidance includes Vapor Intrusion Pathway Screening to evaluate if the potential for vapor intrusion exists. If required, vapor sampling and use of Vapor Action Levels (VALs) and Vapor Risk Screening Levels (VRSLs) are utilized to further evaluate potential risk due to vapor intrusion (WDNR, November 2017).

When sampling is warranted, if detected vapor concentrations are below VRSLs, no action is needed. If detected vapor concentrations are above VRSLs, but below VALs, action is recommended. If detected vapor concentrations are above VALs, action is required. Risk can further be assessed utilizing groundwater, soil vapor and sub-slab vapor attenuation factors, which are applied to account for each pathway. No vapor samples were collected as part of the SI as pathway screening eliminated the need for sampling (See Section 5.4.3).

5.0 Site Investigation Findings

5.1 SITE HYDROGEOLOGIC CONDITIONS

Subsurface strata encountered in the borings generally consisted of several inches of sandy topsoil underlain by eight to sixteen feet of sand fill overlying native silty sands. The fill also contained discontinuous layers of or intermixed with solid waste (i.e. wood chips and metal, slag, paper, glass, and plastic debris).

The measured depth to the water table in the six wells installed at the Site ranged from 3.26 fbg near Ludington Street to 11.44 fbg nearest Main Street pre-development. Prior to the start of redevelopment activities, the ground surface at the Site was approximately 7 to 8 feet higher along the southern half of the property compared to the northern half. Due to the high saturated hydraulic conductivity of the sandy soil, wells on the Site could not be purged dry using disposable bailers. Based on water levels collected from the Site wells in August 2016, the local groundwater flow in the shallow unconsolidated soil is predominantly to the north towards Ludington Street and the Menominee River. A summary of the water table elevation data is included in Table 4. Groundwater flow direction is shown on Figure 5.

5.2 NATURE AND EXTENT OF SOIL IMPACTS

All soil samples collected by Stantec as part of the SI were field screened for the presence of VOCs using a PID. PID readings ranged across the Site from 0.2 iu in B1600 at 0-2 fbg to 47.0 iu in B1500 at a depth of 10-12 fbg. Samples containing wood/organic odors were noted in boring B1500. A slight "burnt" odor was also noted in samples collected from B1600. The PID data are summarized on Table 1 as well as included on the soil boring logs presented in Appendix A.

Based on the laboratory analytical data collected during the SI and Phase II ESA, contamination appears to be widespread across the Property and includes predominantly the presence of PAHs exceeding the WDNR RCLs for groundwater protection and/or direct contact. Laboratory analysis also detected lead in B1500 and B1700 in excess of the groundwater protection RCL (as well as the BTV). B1700 was advanced adjacent to B700 to confirm the elevated lead concentrations detected during the Phase II ESA. Although B1700 contained lead RCL exceedances, the concentrations were not detected at levels initially detected in soil from B700. Additionally, A sample was collected for toxicity characteristic leaching procedure (TCLP) for lead. Sample results of the TCLP lead sample was deemed acceptable for landfill disposal. No other RCRA metals were discovered above RCLs in any other samples analyzed during the SI. As noted during the Phase II ESA, arsenic and/or silver were detected in three soil samples in excess of RCLs based on protection of direct contact and/or groundwater protection. Benzene was present in B1500 above the groundwater protection RCL. No other VOCs were present exceeding RCLs with the exception of benzene at B700 and tetrachloroethene at B400 above RCLs for groundwater protection collected during the Phase II ESA.

PCB aroclor-1248 was detected from a depth of 4-6 fbg in soil boring B1800. The concentration was below the RCLs based on direct contact and groundwater protection for the individual arochlors, however, in excess of the WDNR RCL for total PCBs for groundwater protection. No other PCBs were discovered at the Site. Finally, no pesticides were detected in excess of RCLs in samples collected during the SI. Soil laboratory analytical reports, chain-of-custody forms and laboratory quality assurance/quality control (QA/QC) data are presented in Appendix D. Laboratory analytical results for soil samples are summarized in Tables 2a through 2c.

SITE INVESTIGATION REPORT

1310-1330 Main Street

MCABI-Tyco Redevelopment Site, Marinette, WI

Based on sampling data provided by this SI and the previous Phase II ESA, it appears the soil contamination has been sufficiently defined and extends across the majority of the Property. Given the soil data collected to date and the known history of potential off-site impacts in this part of the City of Marinette, further investigation on or off-site does not appear to be warranted. The estimated extents of soil containing contamination in excess of RCLs based on groundwater protection and direct contact are shown on Figure 6. Please note the extent of contamination depicted in the figure is based on the pre-development conditions using the WDNR's Summary Table from June 2016 which was the basis for the Materials Management Plan at that time. The soil laboratory analytical tables included with this report have been updated to reflect the recently updated December 2017 RCLs.

5.3 NATURE AND EXTENT OF GROUNDWATER IMPACTS

The estimated extent of groundwater contamination was evaluated through collection and analysis of samples from five temporary wells installed during the Phase II ESA, six monitoring wells (MW1500, MW1600, MW1700, MW1800, MW1900, and MW2000) installed in October 2015, and one temporary well (TW2100) installed on October 27, 2017. Between October 2015 and January 2018, up to seven rounds of groundwater samples were collected from select monitoring wells.

Laboratory analysis of groundwater samples collected during October 2015 detected dissolved arsenic at concentrations exceeding the NR140 ES in monitoring well MW1800 and in excess of the NR140 PAL at monitoring wells MW1700 and MW1900. PAHs were also detected in excess of the respective NR140 PALs and/or ESs at MW1600, MW1800, and MW2000 during the October 2015 sampling event. No PCBs or VOCs were detected in any of the groundwater samples collected from the monitoring wells indicating that the VOCs and/or PCBs detected in the soil in excess of RCLs based on protection of groundwater were not having an adverse impact on groundwater conditions. A map depicting the estimated extent of pre-remedial groundwater contamination based on sampling data from October 2015 is included as Figure 7.

Subsequent groundwater sampling indicates that PAHs have decreased to below the NR140 PAL and ES in all of the monitoring wells. Dissolved arsenic also decreased in MW1700 to below the PAL. Dissolved arsenic concentrations remain above the PAL in MW1900 and above the ES at MW1800 and TW2100. Groundwater results for the samples collected at the MCABI-Tyco Redevelopment Site are presented on Tables 3a through 3d. Laboratory analytical reports for groundwater samples are presented in Appendix E.

Although arsenic remains in the furthest downgradient well (TW2100) in excess of the NR140 ES, Stantec believes that further investigation beyond the property boundaries is not warranted. Data collected as part of other investigations completed in this part of the City of Marinette indicate that arsenic impacts to groundwater are wide-spread and further investigation off-site would likely identify contamination related to an off-site source. Therefore, based upon the results of the investigation, it appears the estimated extent of contamination as the result of any releases on-site has been sufficiently defined. A map depicting the estimated post-remedial extent of groundwater contamination based on January 2018 groundwater sampling data is included as Figure 8.

5.4 MIGRATION PATHWAYS AND POTENTIAL RECEPTORS

As part of the SI, Stantec evaluated potential contaminant migration pathways at the Site and the findings are summarized below.

SITE INVESTIGATION REPORT

1310-1330 Main Street

MCABI-Tyco Redevelopment Site, Marinette, WI

5.4.1 Groundwater/Surface Water Impacts

Groundwater impacts at the Site appear to be minimal and limited to NR140 PAL and/or ES exceedances in MW1900, MW1800, and TW2100. Due to the low concentrations detected in the groundwater, the distance to the nearest surface water body, and the installation of a clean fill cap over the entire Site, it does not appear that surface water is likely to be impacted as the result of this release. Further, potable water will be provided by the City of Marinette's municipal water system which receives its supply from Lake Michigan.

5.4.2 Utilities

During the SI, one underground stormwater line was identified and removed from the Property prior to deposition of clean fill on the Site. New utilities were either installed within the clean fill or excavated from contaminated materials and backfilled with clean material. No utilities were placed in the locations of known VOC impacts. Based on the placement of utilities and low level of VOC contaminants detected during the SI, it does not appear that contaminant migration along the utilities is likely to occur to or from the Site.

5.4.3 Vapor Intrusion

The term "vapor intrusion pathway" generally refers to subsurface contamination that can move through the air-filled pores of vadose zone soils and enter the breathing space of buildings. WDNR notes that due to their high volatility and health risk, VOCs, particularly chlorinated VOCs and petroleum, are the contaminants that most commonly trigger assessment of the vapor intrusion pathway. As part of the site investigation low levels of benzene and PCE were detected in soil samples collected at the Site. No VOCs were detected in the groundwater samples collected from the monitoring wells. While the Site was previously a vacant lot, recent development included placing fill atop the original ground surface prior to erecting the Site structure as approved by the WDNR. Further, the Site structure does not include a basement nor lies directly over the locations of known VOC contaminated soil. As a precautionary measure, a 15-mil vapor barrier was installed beneath the concrete slab and along the foundation sidewalls. Therefore, vapor intrusion is not believed to pose a concern.

SITE INVESTIGATION REPORT

1310-1330 Main Street

MCABI-Tyco Redevelopment Site, Marinette, WI

6.0 Proposed Remedial Action Plan

Data collected during this SI and the Phase II ESA indicates that soil contaminants, primarily PAHs, arsenic, and lead are widespread across the Site at concentrations in excess of RCLs based on protection of groundwater and/or direct contact exposure. Low levels of VOCs including PCE and benzene were present in three borings above respective NR720 RCLs for groundwater protection during the SI and Phase II ESA. Groundwater containing PAHs, arsenic, and selenium were detected in multiple wells exceeding the NR140 PAL and or ES. Two subsequent sampling events of MW1800 and MW2000 have shown no detections of PAHs. Detections of the PAHs above the ES originally discovered in these wells is likely attributed to turbidity/presence of colloidal material within the samples. Based on the sampling results it does not appear that soil contaminants in excess of RCLs are having a significant adverse impact on groundwater quality.

To achieve case closure, remedial action was deemed necessary to address soil contaminants that pose a direct contact concern. Due to the widespread soil impacts, few remedial alternatives for the Site were identified as technically or economically feasible. On September 26, 2016, the WDNR approved Stantec's Materials Management Plan for the Property which included a proposal to cap the entire Property to minimize direct contact concerns. The cap has subsequently been installed and consists of impermeable surfaces (i.e., building, parking lots, retention pond, etc.) or 12 inches of clean fill underlying six inches of topsoil on all remaining portions of the Property. Development of the Site began in October 2016. Geotechnically suitable soils excavated from the Property were managed onsite per the materials management plan. Excess material that could not be reused was characterized and transported off the Property to an approved landfill.

A remedial action report will be prepared to document the cap installation and any other remedial activities. A request for case closure will also be submitted upon completion of the investigation and approval by the WDNR. Upon achieving case closure, the remaining site wells MW1800 and TW2100 will be abandoned according to NR141 regulation.

7.0 Conclusions, Recommendations, and Limitations

7.1 CONCLUSIONS AND RECOMMENDATIONS

Results of the SI indicate that soil and groundwater impacts have been adequately investigated, characterized and the extent sufficiently defined.

Soil contamination was found to be widespread across the Property consisting primarily of PAHs with select soil samples containing various RCRA metals, VOCs, and PCBs in excess of RCLs for protection of groundwater or direct contact exposure. Tables listing known soil contaminants discovered in the soil during the SI and previous Phase II ESA include:

- **PAHs** - PAHs make up the majority of the contamination on the Property with one or more analytes being discovered within B1500 during the SI. Detections from the boring included concentrations above NR720 RCLs for direct contact and groundwater protection. PAH results of the SI reflect similar findings of the Phase II ESA which included RCL exceedances in B300, B400, B600, B700, and B900 through B1200.
- **RCRA Metals** – Lead, arsenic, and/or silver were discovered in multiple borings installed on the Property exceeding the WDNR RCL for groundwater protection. Arsenic and/or lead were also detected exceeding direct contact RCLs within multiple borings on the Site.
- **PCBs** - While no individual PCB arochlors were detected above RCLs, a soil sample collected from B1800 exceeded the groundwater protection RCL for total PCBs. No other PCBs were found in soil collected above RCLs at the Property during the SI or Phase II ESA.
- **VOCs** – Benzene was detected in two borings and PCE in one boring exceeding the RCL for groundwater protection during the Phase II ESA and SI. No other VOCs exceeded NR720 RCLs on the Site.

Groundwater sampling results indicate that contamination initially detected on-site in MW1800 has decreased to below the ES but remains above the PAL. Groundwater sampling results, however, show that arsenic concentrations exceeding the NR140 ES exist downgradient and offsite within the Ludington Street right-of-way. Based on groundwater sampling results of this Site and adjacent historic sites [Marinette Marine Corp (BRRTS# 02-38-260867) and Village on the Water (BRRTS# 02-38--558716)], arsenic contamination in soil and groundwater appears to be widespread within this area of the City and likely is attributed to the historic fill/waste materials observed off-site and not simply from a source originating from the MCABI/WMCOE property. In addition, groundwater contaminant concentrations on-site have exhibited decreasing trends in both monitoring wells sampled. Therefore, Stantec does not believe that a further downgradient monitoring well is needed beyond TW2100 or that additional groundwater monitoring is warranted.

In accordance to the VPLE program, MCABI is requesting WDNR's concurrence that the site investigation is considered complete. Based upon the soil sampling results, remedial action was needed to address soil that poses a direct contact concern. A Materials Management Plan was developed and approved by the WDNR on September 26, 2016 to address historic fill and/or contaminated soil encountered during the site redevelopment activities. A separate report will be submitted detailing the remedial action activities and request case closure of the Site.

SITE INVESTIGATION REPORT

1310-1330 Main Street

MCABI-Tyco Redevelopment Site, Marinette, WI

7.2 LIMITATIONS

The SI was performed in accordance with generally accepted practices for the environmental consulting profession, undertaking similar studies at the same time and in the same geographical area as the work conducted by Stantec. Stantec observed the degree of care and skill that are generally exercised by the profession under similar circumstances and conditions. No other warranty is expressed or implied.

Stantec's observations, findings, and opinions should not be considered as scientific certainties, but only as opinion based on our professional judgment concerning the significance of the data gathered during the course of this investigation. Specifically, Stantec cannot represent that the Site does not contain any hazardous or toxic materials or other latent conditions beyond that observed by Stantec during the course of the investigation. Additionally, due to limitations of this investigation process and the necessary use of data furnished by others, Stantec and its subcontractors cannot assume liability if actual conditions differ from the information presented in this report.

SITE INVESTIGATION REPORT

1310-1330 Main Street
MCABI-Tyco Redevelopment Site, Marinette, WI

8.0 References

Stantec, 2015, "Phase II Environmental Site Assessment MCABI-Tyco Redevelopment Site, Marinette, Wisconsin"

Stensvold, K. A., 2011, Distribution and Variation of Arsenic in Wisconsin Surface Soils, With Data on Other Trace Elements, U.S.G.S. Scientific Investigations Report 2011-5202, 41 pp. (Available online at: http://pubs.usgs.gov/sir/2011/5202/pdf/sir2011-5202_022412.pdf).

WDNR, 1996, Groundwater Sampling Desk Reference, WDNR Publication PUBL-DG-037 96, 169 pp.

WDNR, 2017, RCL Spreadsheet updated December 2017. Available at <http://dnr.wi.gov/topic/Brownfields/professionals.html>

WDNR, 2017, Wisconsin Vapor Quick Look-Up- Table, Indoor Air Vapor Action Levels and Vapor Risk Screening Levels, Updated November 2017

Wisconsin Geological and Natural History Survey (WGNHS), "Bedrock Geology of Wisconsin," University of Wisconsin Extension, April 1981.

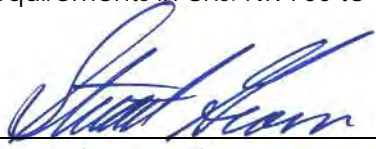
Wisconsin Geological and Natural History Survey (WGNHS), "Lexicon of Pleistocene Stratigraphic Units of Wisconsin," Technical Report 1, 2011.

SITE INVESTIGATION REPORT

1310-1330 Main Street
MCABI-Tyco Redevelopment Site, Marinette, WI

9.0 Certification

I, Stu Gross, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), 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.



Stuart Gross, P.G.

March 28, 2018
Date

SITE INVESTIGATION REPORT

1310-1330 Main Street

MCABI-Tyco Redevelopment Site, Marinette, WI

FIGURES



**SITE
LOCATION**

SCALE IN FEET

1" = 2000'



CONTOUR INTERVAL 10 FEET

NATIONAL GEODETIC VERTICAL DATUM OF 1929



QUADRANGLE LOCATION

BASE MAP SOURCE: USGS 7.5 MINUTE QUADRANGLE, MARINETTE EAST, WISCONSIN, 1976 (NATIONAL GEOGRAPHIC HOLDINGS, INC.)



1165 Scheuring Road, De Pere, Wisconsin 54115
Phone: 920-592-8400 Fax: 920-592-84844

**SITE LOCATION &
LOCAL TOPOGRAPHY**

**MCABI-TYCO REDEVELOPMENT
PROPERTY, MAIN STREET,
MARINETTE, WISCONSIN**

This drawing and all information contained thereon is the property of Stantec. Stantec will not be held liable for improper or incorrect usage. Professional seals and signatures do not apply to electronic drawing files. The user assumes all responsibility and risk for the accuracy and verification of all information contained in electronic files.

DATE: 06/02/15	DRAWN BY: JRB	PROJECT MANAGER: LPC	PROJECT NUMBER: 193704595	FIGURE 1
----------------	---------------	----------------------	---------------------------	----------



LEGEND

— — — — — APPROXIMATE PROPERTY LINE



SCALE IN FEET



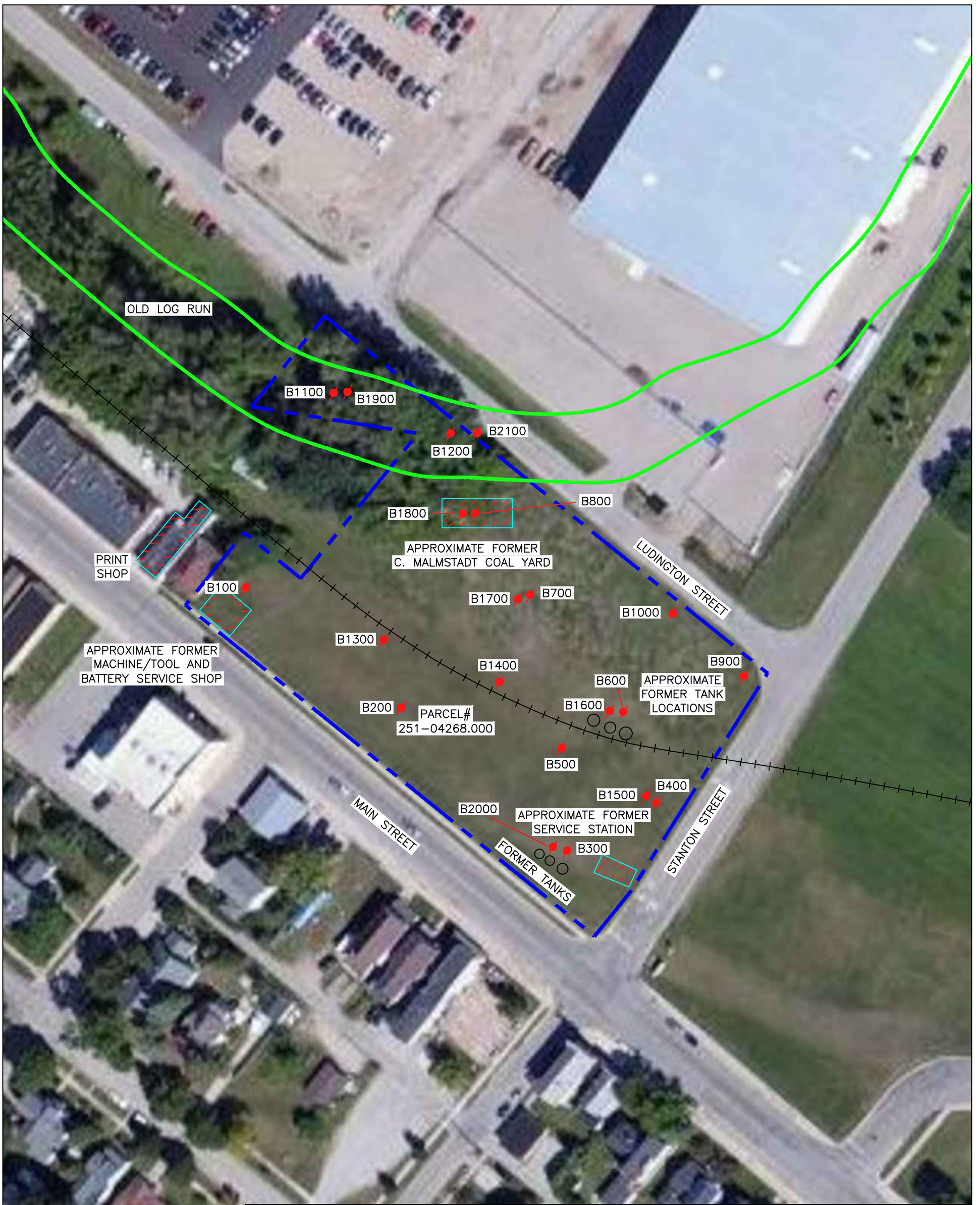
1165 Scheuring Road, De Pere, Wisconsin, 54115
 Phone: 920-592-8400 Fax: 920-592-8444

This drawing and all information contained therein is the property of Stantec. Stantec will not be held liable for improper or incorrect usage. Professional seals and signatures do not apply to electronic drawing files. The user assumes all responsibility and risk for the accuracy and verification of all information contained in electronic files.


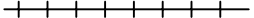

PRE-DEVELOPMENT SITE LAYOUT

MCABI-TYCO REDEVELOPMENT
 PROPERTY, MAIN STREET,
 MARINETTE, WISCONSIN

DATE: 06/02/15	DRAWN BY: JRB	TASK NUMBER: 3.0.1	PROJECT NUMBER: 193704595	FIGURE 2
----------------	---------------	--------------------	---------------------------	----------




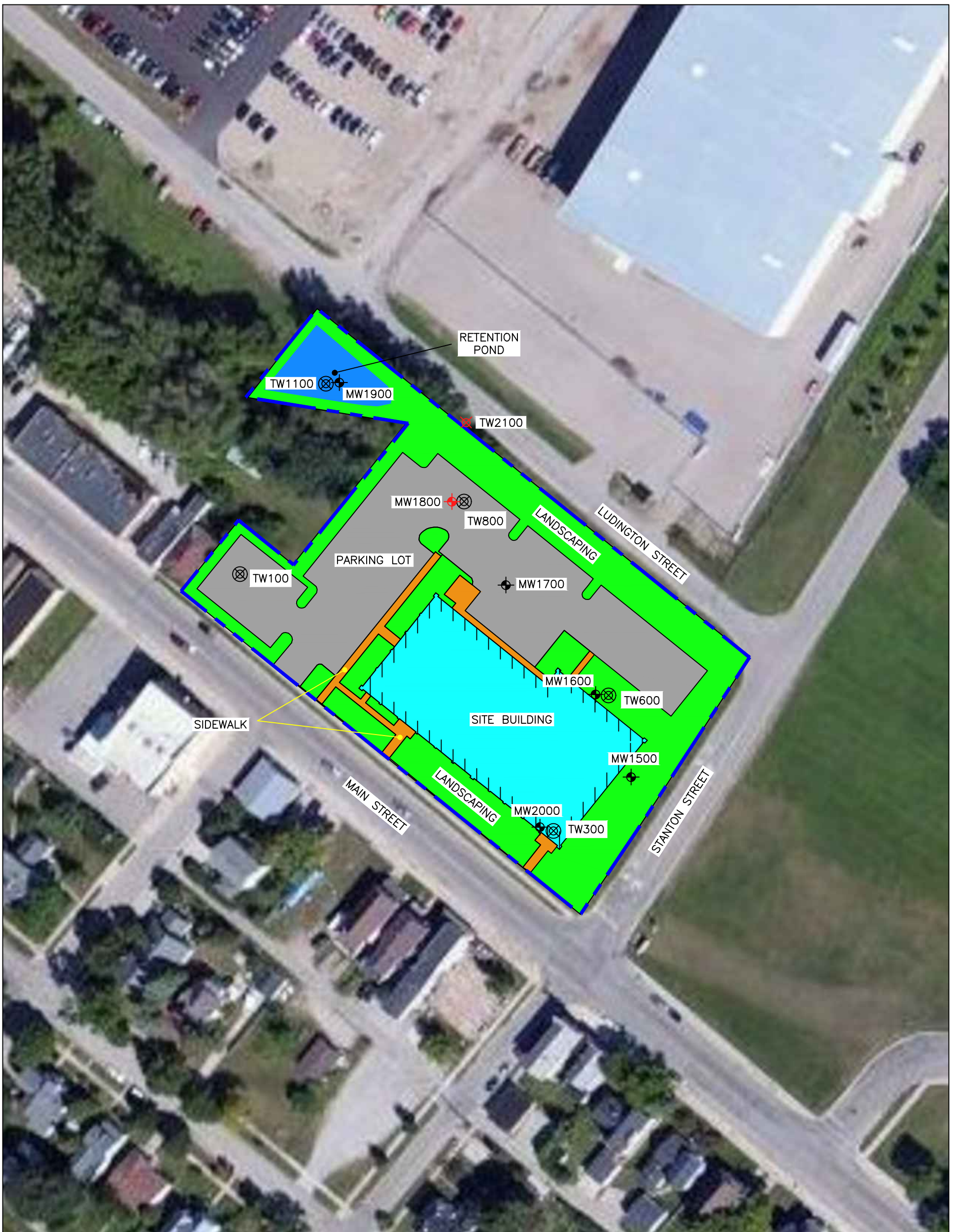
LEGEND

-  APPROXIMATE PROPERTY LINE
-  APPROXIMATE LOCATION OF FORMER CHICAGO NORTH WESTERN SIDING RAILROAD
-  B200 SOIL BORING LOCATION






SCALE IN FEET

40 0 40 80

 <p>1165 Scheuring Road, De Pere, Wisconsin, 54115 Phone: 920-592-8400 Fax: 920-592-8444</p>		<p>SOIL BORING LOCATIONS</p> <p>MCABI - MARINETTE COUNTY ASSOCIATION FOR BUSINESS & INDUSTRY, INC. MARITIME CENTER OF EXCELLENCE MARINETTE, WISCONSIN</p>	
<p><small>This drawing and all information contained thereon is the property of Stantec. Stantec will not be held liable for improper or incorrect usage. Professional seals and signatures do not apply to electronic drawing files. The user assumes all responsibility and risk for the accuracy and verification of all information contained in electronic files.</small></p>			
DATE: 12/20/17	DRAWN BY: JRB	TASK NUMBER: 3.0.1	PROJECT NUMBER: 193704595
			FIGURE 3



LEGEND

-  APPROXIMATE PROPERTY LINE
-  MW1800 MONITORING WELL LOCATION
-  TW2100 TEMPORARY WELL LOCATION
-  MW1500 ABANDONED MONITORING WELL LOCATION
-  TW100 ABANDONED TEMPORARY MONITORING WELL LOCATION



SCALE IN FEET



1165 Scheuring Road, De Pere, Wisconsin, 54115
Phone: 920-592-8400 Fax: 920-592-8444

This drawing and all information contained thereon is the property of Stantec. Stantec will not be held liable for improper or incorrect usage. Professional seals and signatures do not apply to electronic drawing files. The user assumes all responsibility and risk for the accuracy and verification of all information contained in electronic files.

DATE: 10/27/17 DRAWN BY: JRB TASK NUMBER: 3.0.1



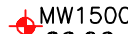
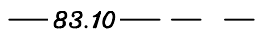
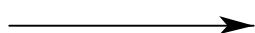
MONITORING WELL LOCATIONS

MCABI - MARINETTE COUNTY
ASSOCIATION FOR BUSINESS &
INDUSTRY, INC.
MARITIME CENTER OF EXCELLENCE
MARINETTE, WISCONSIN

PROJECT NUMBER: 193704595 FIGURE 4



LEGEND

-  APPROXIMATE PROPERTY LINE
-  TW100
TEMPORARY WELL LOCATION
-  MW1500
82.92
MONITORING WELL LOCATION AND GROUNDWATER ELEVATION ON 10/14/15
-  83.10
GROUNDWATER CONTOUR LINE: DASHED WHERE INFERRED
CONTOUR LINE INTERVAL = 0.05 FEET
-  GROUNDWATER FLOW DIRECTION

NOTE: NO WATER LEVELS WERE COLLECTED FROM TEMPORARY MONITORING WELL LOCATIONS



SCALE IN FEET

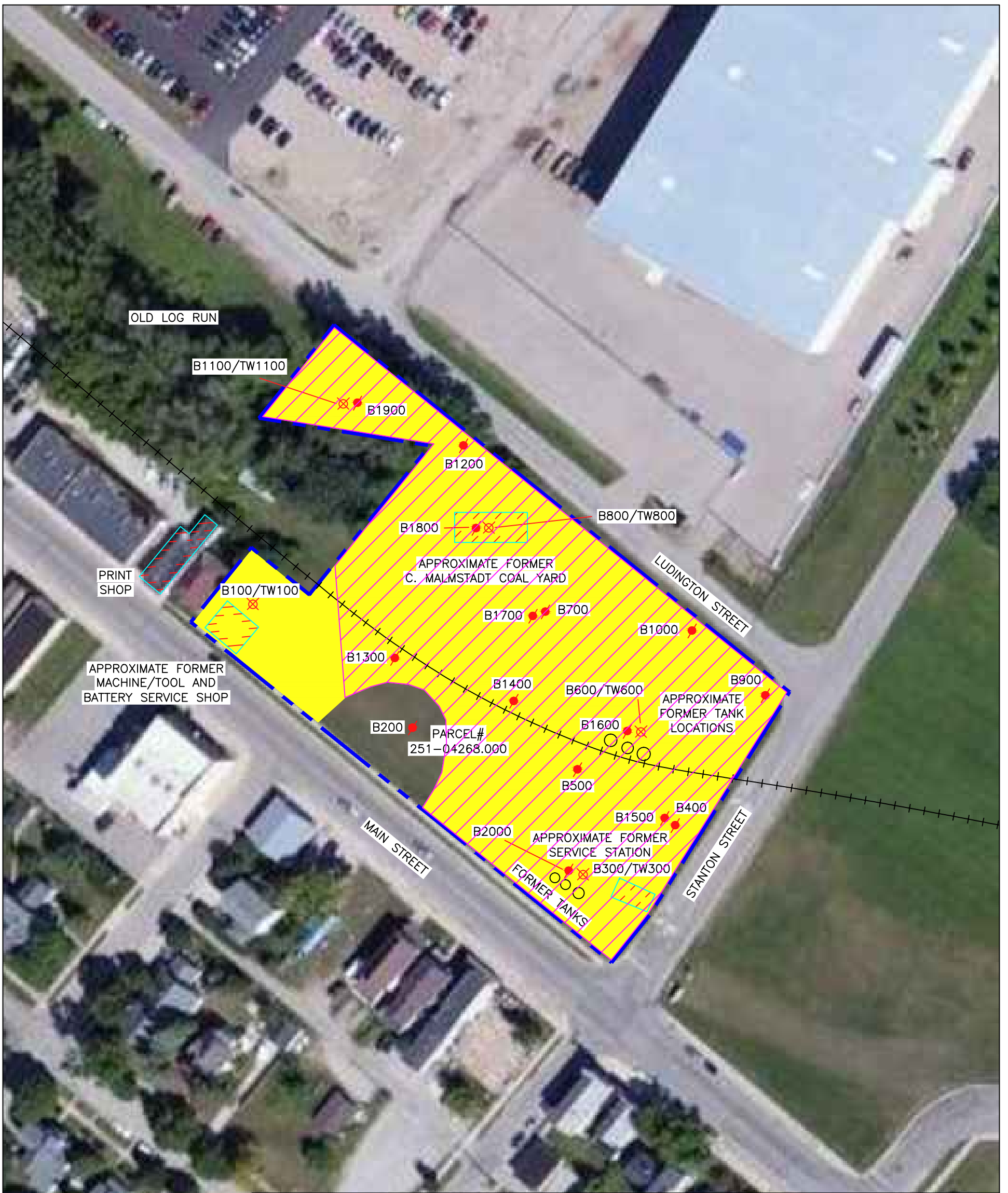


1165 Scheuring Road, De Pere, Wisconsin, 54115
Phone: 920-592-8400 Fax: 920-592-8444




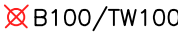

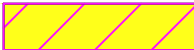
This drawing and all information contained thereon is the property of Stantec. Stantec will not be held liable for improper or incorrect usage. Professional seals and signatures do not apply to electronic drawing files. The user assumes all responsibility and risk for the accuracy and verification of all information contained in electronic files.

**GROUNDWATER CONTOUR
MAP (10/14/15)**

TYCO PROPERTY
MAIN STREET
MARINETTE, WISCONSIN



LEGEND

-  APPROXIMATE PROPERTY LINE
-  APPROXIMATE LOCATION OF FORMER CHICAGO NORTH WESTERN SIDING RAILROAD
-  SOIL BORING LOCATION
-  TEMPORARY WELL LOCATION
-  ESTIMATED EXTENT OF EITHER VOC, PAH, LEAD, ARSENIC, AND/OR PCB COMPOUNDS IN SOIL EXCEEDING RCLs FOR THE PROTECTION OF GROUNDWATER
-  ESTIMATED EXTENT OF EITHER PAH, LEAD, AND/OR ARSENIC COMPOUNDS IN SOIL EXCEEDING DIRECT CONTACT RCLs

NOTE: DATA BASED ON JUNE 2016 RCLs



SCALE IN FEET



1165 Scheuring Road, De Pere, Wisconsin, 54115
Phone: 920-592-8400 Fax: 920-592-8444


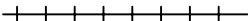






This drawing and all information contained therein is the property of Stantec. Stantec will not be held liable for improper or incorrect usage. Professional seals and signatures do not apply to electronic drawing files. The user assumes all responsibility and risk for the accuracy and verification of all information contained in electronic files.

ESTIMATED EXTENT OF SOIL CONTAMINATION (PRE-DEVELOPMENT)

MCABI-TYCO REDEVELOPMENT
PROPERTY MAIN STREET
MARINETTE, WISCONSIN



LEGEND

-  APPROXIMATE PROPERTY LINE
-  APPROXIMATE LOCATION OF FORMER CHICAGO NORTH WESTERN SIDING RAILROAD
-  ESTIMATED EXTENT OF GROUNDWATER CONTAMINATION BASED ON NR 140 PAL EXCEEDANCES (OCT 2015 DATA)
-  ESTIMATED EXTENT OF GROUNDWATER CONTAMINATION BASED ON NR 140 ES EXCEEDANCES (OCT 2015 DATA)
-  INDETERMINATE EXTENT OF REMAINING GROUNDWATER CONTAMINATION
-  MW1500 MONITORING WELL LOCATION
-  TW2100 TEMPORARY WELL LOCATION
-  TW100 ABANDONED TEMPORARY MONITORING WELL LOCATION



SCALE IN FEET



1165 Scheuring Road, De Pere, Wisconsin, 54115
Phone: 920-592-8400 Fax: 920-592-8444

This drawing and all information contained thereon is the property of Stantec. Stantec will not be held liable for improper or incorrect usage. Professional seals and signatures do not apply to electronic drawing files. The user assumes all responsibility and risk for the accuracy and verification of all information contained in electronic files.

ESTIMATED EXTENT OF GROUNDWATER CONTAMINATION

TYCO PROPERTY
MAIN STREET
MARINETTE, WISCONSIN



LEGEND	
	APPROXIMATE PROPERTY LINE
	ESTIMATED EXTENT OF GROUNDWATER CONTAMINATION BASED ON NR 140 PAL EXCEEDANCES (JAN 2018 DATA)
	ESTIMATED EXTENT OF GROUNDWATER CONTAMINATION BASED ON NR 140 ES EXCEEDANCES (JAN 2018 DATA)
	MW1800 MONITORING WELL LOCATION
	TW2100 TEMPORARY WELL LOCATION
	MW1500 ABANDONED MONITORING WELL LOCATION
	TW100 ABANDONED TEMPORARY MONITORING WELL LOCATION



SCALE IN FEET



<p>1165 Scheuring Road, De Pere, Wisconsin, 54115 Phone: 920-592-8400 Fax: 920-592-8444</p> <p><small>This drawing and all information contained thereon is the property of Stantec. Stantec will not be held liable for improper or incorrect usage. Professional seals and signatures do not apply to electronic drawing files. The user assumes all responsibility and risk for the accuracy and verification of all information contained in electronic files.</small></p>	<p>POST REMEDIAL EXTENT OF GROUNDWATER CONTAMINATION</p> <p>MCABI - MARINETTE COUNTY ASSOCIATION FOR BUSINESS & INDUSTRY, INC. MARITIME CENTER OF EXCELLENCE MARINETTE, WISCONSIN</p>	
	DATE: 03/13/18	DRAWN BY: JRB
PROJECT NUMBER: 193704595		FIGURE 8

SITE INVESTIGATION REPORT

1310-1330 Main Street

MCABI-Tyco Redevelopment Site, Marinette, WI

TABLES

Table 2a Soil Sample RCRA Metal, Polynuclear Aromatic Hydrocarbon, and PCB Laboratory Results, MCABI-Tyco Redevelopment Property, Marinette, Wisconsin

Borehole Number	Sample				Description	Metals (milligram per kilogram)											Polynuclear Aromatic Hydrocarbon Laboratory Result (microgram per kilogram)													Polychlorinated Biphenyls (PCBs) (milligram/kilogram)										
	Sample Label	Date	Depth (feet below grade)	PID Response (µl)		Total Arsenic	Total Barium	Total Cadmium	Total Chromium	Total Lead	Total Mercury	Total Selenium	Total Silver	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benz(b)fluoranthene	Benz(a,h)pyrene	Benz(k)fluoranthene	Benz(e)pyrene	Chrysenes	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs	
WDNR Direct Contact RCL					Non-Industrial	8* [0.677]	15,300	71	NE	400	3.13	391	3,590,000	NE	17,900,000	1,140	1,150	NE	11,500	115	115,000	115	2,290,000	2,390,000	1,150	17,600	239,000	5,520	NE	1,790,000	4.11	0.213	0.19	0.235	0.236	0.239	0.243	0.234		
WDNR RCL for Groundwater Protection					Industrial	8* [3.0]	100,000	985	NE	800	3.13	5,840	45,200,000	NE	100,000,000	20,800	21,100	NE	211,000	2,110	2,110,000	2,110	30,100,000	30,100,000	2,110	72,700	3,010,000	24,100	NE	22,600,000	28	0.883	0.792	0.972	0.975	0.988	1	0.967		
Background Threshold Value						8	364	1	44	52	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0.0094
B100	S102	07/08/15	2.4	2.3	Sand	2.4	51.7	0.018 J	8.3	377	0.037	<0.30	0.73	2.71	10.6	20.3	71.1	86.0	79.1	24.4	65.2**	80.1	11.2	115	5.07	38.3	146	150	111	158	107									
B200	S201	07/08/15	0.2	3.7	Sand	<0.26	8.3	<0.016	3.2	2.5	0.0056	<0.43	<0.10	<0.30	0.327	<0.41	3.52	7.22	4.41	1.91	4.29	4.09	<1.1	7.87	<0.41	3.58	<0.27	0.809	0.622	3.17	6.74									
B300	S305	07/08/15	8-10	9.3	Sand	0.59 J	13.8	<0.016	4.1	10.3	0.044	<0.43	<0.10	38.5	20.9	200	778**	835**	198	186	614	616	48.9**	1510	48.4	194**	9.42	10.20	23.6	861	1200									
B400	S404	07/08/15	6-8	5.9	Sand	2.9	145	0.17	7.4	108	0.11	<0.50	<0.12	1610	335	11,100	26,300	32,800	22,800	9,630**	24,100	25,700**	3,810	56,900	1,900	18,100	459	492	914	44,400	48,900									
B500	S502	07/08/15	0.2	6.1	Sand	<0.29	97.5	<0.018	3.5	3.5	0.0049 J	<0.48	<0.11	<0.31	<0.28	<0.43	1.62	2.56	2.19	<0.96	1.60	1.38	<1.2	1.72	<0.43	1.66	<0.28	0.723	0.678	1.30	2.31									
B600	S604	07/09/15	6-8	5.8	Sand	0.72 J	108	0.092	6.9	50.1	0.036	<0.50	<0.12	24.6	183	215	1,060**	1,320	363	388	836	1,010	105**	2,230	61.5	363**	784	902	492	1,170	1,550									
B700	S703	07/09/15	4.6	9.6	Silty Sand	62.2	116	<0.014	6.4	73,900	0.097	<0.38	1.5	16.4	46.8	50.3	211**	296**	105	82.4	171*	229	27.1**	353	22.2	91.6	203	246	164	320	302									
B800	S802	07/09/15	2.4	12.2	Sand	67.4	104	0.035 J	6.8	41.0	0.14	<0.39	<0.094	3.92	12.8	13.5	87.5	126	48.9	28.8	69.8**	98.3	11.5	83.2	7.82	37.8	174	146	38.3	122	113									
B900	S902	07/09/15	2.4	10.0	Sand	8.4	104	<0.018	5.6	37.7	0.050	<0.48	<0.12	4.57	35.7	29.2	163**	262**	97.9	59.3	159**	161	21.4**	273	8.00	79.2	45.3	54.6	40.8	153	252									
B1000	S1002	07/09/15	2.4	7.1	Sand	4.3	102	<0.017	7.2	35.1	0.052	<0.45	<0.11	7.60	51.0	46.2	245**	339**	116	88.1	253**	240	26.1**	350	12.7	96.8	47.4	52.0	38.4	232	414									
B1100	S1102	07/09/15	2.4	6.5	Sand	0.61	125	0.026	9.6	56.3	0.034	<0.58	<0.14	115	41.5	340	1,520	2,240	471	641	1,210	1,650	121	3,510	127	501**	42.8	59.0	56.9	2,000	2,540									
B1200	S1202	07/08/15	2.4	9.4	Sand	4.0	152	0.10	7.5	210	0.14	<0.66	<0.16	3,330	74.7	3,980	4,920	5,540	1,350	1,410	3,630	4,000	318	13,100	2,960	1,300	403	387	581	17,600	9,620									
B1300	S1301	10/07/15	0.2	7.8	Sand																																			
B1400	S1401	10/07/15	0.2	1.4	Sand																																			
B1500	S1502	10/07/15	2.4	1.1	Sand					94																														
B1600	S1602	10/07/15	2.4	0.4	Sand																																			
B1700	S1702	10/07/15	2.4	24.0	Sand					230																														
B1800	S1703	10/07/15	4.6	5.4	Sand					220																														
B1800	S1803	10/07/15	4.6	1.5	Sand																																			

Key:
 <x = compound not detected to a detection limit of :
 ... = not laboratory analyzed
 XX* [XXX] = standard in bold are background threshold values (BTVs) being utilized for the purpose of evaluation under ch. NR700 WAC. The established WAC RCL is noted in brackets.
 XXX = exceeds WDNr Non-Industrial RCL for direct contact risk
 XXX = exceeds WDNr Industrial RCL for direct contact risk
 XXX = exceeds WDNr RCL for protection of groundwater and/or BTV
 NE = not established by WAC (Wis. Adm. Code) or WDNr Soil RCL Summary Table
 * = The WDNr has determined state-wide soil BTVs (February 2013).
 Therefore, reported values less than BTVs are not considered a direct contact or groundwater pathway concern with respect to site releases requiring further remediation action. However, the detection could represent a personal health risk if detected above health based standards
 ** = exceeded January 2015 RCLs for direct contact utilized to create contamination extent Figures for the Remedial Action Pla
 *J = analyte detected between the limit of detection and limit of quantification
 IUI = instrument units as isobutylene
 PID = photolionization detector
 RCL = residual contaminant level

Notes: WDNr soil RCL Summary table (December 2017) used to establish RCLs for groundwater protection and direct contact.
 For the purpose of this evaluation under ch. NR 700, background threshold values are being considered as representative of background conditions.
 However, constituent concentrations less than background threshold values may represent a potential health risk if concentrations are greater than health-based standards.

Table 2b Soil Sample Volatile Organic Compound Laboratory Results, MCABI-Tyco Redevelopment Property, Marinette, Wisconsin

Borehole Number	Sample					Volatile Organic Compound Laboratory Result (microgram per kilogram)																			
	Number	Date	Depth (feet below grade)	PID Response (IUI)	Description	Acetone	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	Carbon disulfide	cis-1,2-Dichloroethene	Ethylbenzene	Naphthalene	n-Propylbenzene	Tetrachloroethene (PCE)	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichloro fluoromethane	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Vinyl Chloride	Total Xylenes
WDNR Direct Contact RCL					Non-Industrial	63,400,000	1,600	5,060	652	320,000	738,000	156,000	8,020	5,520	NE	33,000	818,000	640,000	1,590	1,300	1,230,000	219,000	182,000	67	260,000
					Industrial	100,000,000	7,070	22,200	2,870	1,190,000	738,000	2,340,000	35,400	24,100	NE	145,000	818,000	640,000	7,010	8,410	1,230,000	219,000	182,000	2,080	260,000
WDNR RCL for Groundwater Protection						3676.60	5.1	483.4	2.8	5	591.9	41.2	1570	658.2	NE	4.5	1107.2	140.2	3.2	3.6	NE	1378.7 (combined)		0.10	3960
B100	S102	07/08/15	2-4	2.3	Sand	<190	<11	<15	<14	<15	<25	<11	<12	<27	<25	<12	<25	<14	<15	<12	<19	<27	<30	<15	<36
B200	S201	07/08/15	0-2	3.7	Sand	<190	<11	<15	<14	<15	<25	<11	<12	<27	<25	<12	<25	<14	<15	<12	<19	<27	<30	<15	<36
B300	S305	07/08/15	8-10	9.3	Sand	<190	<11	<15	<14	<15	<25	<11	<12	61.7 J	<25	<12	<25	<14	<15	<12	<19	<27	<30	<15	<36
B400	S404	07/08/15	6-8	5.9	Sand	<190	<11	<15	<14	<15	<25	<11	<12	71.0 J	<25	109	<25	<14	<15	<12	<19	<27	<30	<15	<36
B500	S502	07/08/15	2-4	6.1	Sand	<190	<11	<15	<14	<15	<25	<11	<12	<27	<25	<12	<25	<14	<15	<12	<19	<27	<30	<15	<36
B600	S604	07/09/15	6-8	5.8	Sand	<200	<12	<16	<15	<16	<27	<12	<13	119	<27	<13	<27	<15	<16	<13	<20	38.8 J	<32	<16	78.2 J
B700	S703	07/09/15	4-6	9.6	Silty Sand	<190	24.2 J	<15	<14	<15	<25	<11	<12	<27	<25	<12	<25	<14	<15	<12	<19	<27	<30	<15	41.1 J
B800	S802	07/09/15	2-4	12.2	Sand	<190	<11	<15	<14	<15	<25	<11	<12	<27	<25	<12	<25	<14	<15	<12	<19	<27	<30	<15	<36
B900	S902	07/09/15	2-4	10.0	Sand	<190	<11	<15	<14	<15	<25	<11	<12	31.6 J	<25	<12	27.0 J	<14	<15	<12	<19	<27	<30	<15	52.5 J
B1000	S1002	07/09/15	2-4	7.1	Sand	179 J	<11	<15	<14	<15	26.6 J	<11	<12	<27	<25	<12	<25	<14	<15	<12	<19	<27	<30	<15	36.0 J
B1100	S1102	07/09/15	2-4	6.5	Sand	217 J	<12	<16	<15	<16	<26	<12	<13	<28	<26	<13	<26	<15	<16	<13	<20	<28	<32	<16	<38
B1200	S1202	07/08/15	2-4	9.4	Sand	<240	<14	<19	<17	<19	<31	<14	23.0 J	197	<31	<15	44.6 J	<17	<19	<15	<24	85.9 J	<37	<19	118.3 J
B1500	S1502	10/07/15	2-4	1.1	Sand	---	94	<45	<43	<43	---	<45	68	---	<45	<40	150	<42	<39	<18	<47	130	<42	<29	250

Key:
 <x = compound not detected to a detection limit of x
 - = not analyzed
 XXX = exceeds WDNR RCL for direct contact risk for Non-Industrial
 XXX = exceeds WDNR RCL for direct contact risk for Industrial
 XXX = exceeds WDNR RCL for protection of groundwater
 NE = not established by Wisconsin Administrative Code (Wis. Adm. Code) or WDNR Soil RCL Summary Table
 "J" = analyte detected between limit of detection and limit of quantification
 IUI = instrument units as isobutylene
 RCL = residual contaminant level
 ** = exceeded January 2015 RCLs for direct contact utilized to create contamination extent figures for the Remedial Action Plan

Table 2c Soil Sample Organochlorine Pesticides Laboratory Results, MCABI-Tyco Redevelopment Property, Marinette, Wisconsin

Borehole Number	Sample					Organochlorine Pesticides Laboratory Result (microgram per kilogram)																				
	Number	Date	Depth (feet below grade)	PID Response (IUI)	Description	Aldrin	alpha-BHC	alpha-Chlordane	beta-BHC	4,4'-DDD	4,4'-DDE	4,4'-DDT	delta-BHC	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Aldehyde	Endrin Ketone	Gamma-BHC (Lindane)	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene
WDNR Direct Contact RCL					Non-Industrial	40	NE	NE	NE	1900	2000	1890	NE	34	469,000	NE	NE	19,000	NE	NE	NE	NE	140	72	316,000	493
					Industrial	187	NE	NE	NE	9,570	9,380	8,530	NE	144	7,010,000	NE	NE	246,000	NE	NE	NE	NE	NE	NE	654	338
WDNR RCL for Groundwater Protection					NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	161.6	NE	NE	NE	NE	66.2	8.2	4,320	928
B1300	S1301	10/07/15	0-2	7.8	Sand	<0.71	<0.44	<0.87	<0.53	<0.34	<0.28	<0.90	<0.54	<0.24	<0.75	<0.28	<0.31	<0.24	<0.29	<0.39	<0.37	<0.45	<0.72	<0.61	<0.33	<7.2
B1400	S1401	10/07/15	0-2	1.4	Sand	<0.69	<0.42	<0.84	<0.52	<0.33	3.5	5.0	<0.53	<0.23	<0.73	<0.27	<0.30	<0.23	<0.28	<0.38	<0.36	<0.44	<0.70	<0.59	<0.32	<7.0
B1600	S1602	10/07/15	2-4	0.4	Sand	<6.9	<4.2	<8.4	<5.2	<3.3	<2.8	<8.8	<5.2	<2.3	<7.3	<2.7	<3.0	<2.3	<2.8	<3.8	<3.6	<4.4	<7.0	<5.9	<3.2	<70

Key:
 <x = compound not detected to a detection limit of x
 - = not analyzed
XXX = exceeds WDNR RCL for direct contact risk for Non-Industrial
XXX = exceeds WDNR RCL for direct contact risk for Industrial
XXX = exceeds WDNR RCL for protection of groundwater
 NE = not established by Wisconsin Administrative Code (Wis. Adm. Code) or WDNR Soil RCL Summary Table
 "J" = analyte detected between limit of detection and limit of quantification
 IUI = instrument units as isobutylene
 RCL = residual contaminant level

Table 3a Groundwater Sample RCRA Metals Laboratory Results, MCABI - Tyco Property, Marinette, Wisconsin

Well Number	Date Collected	Laboratory Results in micrograms per liter (µg/l)							
		RCRA Metals							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
NR 140 Preventive Action Limit (µg/l)		1	400	0.5	10	1.5	0.2	10	10
NR 140 Enforcement Standard (µg/l)		10	2000	5	100	15	2	50	50
TW100	07/09/15	1.1	59.5	<0.26	<1.0	<1.5	<0.050	<12	<2.0
TW300	07/09/15	<0.50	32.1	<0.26	<1.0	<1.5	<0.050	<12	2.2 J
TW600	07/10/15	4.5	165	<0.26	<1.0	<1.5	<0.050	<12	<2.0
DUP (TW600)	07/10/15	5.2	170	<0.26	<1.0	<1.5	<0.050	<12	3.8 J
TW800	07/10/15	65.2	71.8	<0.26	<1.0	<1.5	<0.050	<12	<2.0
TW1100	07/10/15	9.7	140	<0.26	2.4 J	<1.5	<0.050	26.7 J	<2.0
MW1600	10/14/15	<0.44	---	---	---	---	---	---	---
MW1700	10/14/15	1.0	---	---	---	0.15 J	---	---	---
	08/04/16	0.74J	---	---	---	---	---	---	---
MW1800	10/14/15	24	---	---	---	---	---	---	---
	08/04/16	5.5	---	---	---	---	---	---	---
	10/06/16	38	---	---	---	---	---	---	---
	04/13/17	38.9	---	---	---	---	---	---	---
	06/30/17	48.3	---	---	---	---	---	---	---
	10/27/17	6.5	---	---	---	---	---	---	---
	01/30/18	4.4	---	---	---	---	---	---	---
MW1900	10/14/15	7.0	---	---	---	---	---	<0.83	---
	08/04/16	4.0	---	---	---	---	---	---	---
TW2100	10/27/17	66	---	---	---	---	---	---	---
	01/30/18	25	---	---	---	---	---	---	---

Notes:

- RCRA = Resource Conservation and Recovery Act
- <X = analyte not detected above method detection limit
- "J" = analyte detected between limit of detection and limit of quantitation
- X** = concentration detected above Chapter NR 140, Wisconsin Administrative Code(NR 140, Wis. Adm. Code) preventive action limit (PAL)
- X** = concentration detected above NR 140, Wis. Adm. Code enforcement standard (ES)
- NE = not established
-

Table 3b Groundwater Sample Volatile Organic Compound Laboratory Results, MCABI - Tyco Property, Marinette, Wisconsin

Well Number	Date Collected	Detected Volatile Organic Compounds (µg/L)																													
		Acetone	Benzene	2-Butanone	n-Butylbenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Dichlorodifluoromethane	1,2-Dichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	4-Methyl-2-pentanone	Methylene Chloride	Naphthalene	n-Propylbenzene	Tetrachloroethene (PCE)	Toluene	1,1,1-Trichloroethane (1,1,1-TCA)	1,1,2-Trichloroethane (1,1,2-TCA)	Trichloroethene (TCE)	Trichlorofluoromethane	Total Trimethylbenzene	Vinyl Chloride	Total Xylenes
NR 140 Preventive Action Limit (µg/l)		1,800	0.5	NE	NE	80	0.6	0.3	6	200	0.5	85	0.7	7	20	140	NE	NE	NE	0.5	10	NE	0.5	160	40	0.5	0.5	NE	96	0.02	400
NR 140 Enforcement Standard (µg/l)		9,000	5	NE	NE	400	6	3	60	1000	5	850	7	70	100	700	NE	NE	NE	5	100	NE	5	800	200	5	5	NE	480	0.2	2,000
TW100	07/09/15	12 J	<0.30	<4.0	<0.40	<0.80	<0.30	<0.80	<0.40	<0.80	<0.30	<0.40	<0.27	<0.30	<0.30	<0.30	<0.40	<0.40	<7.0	<0.30	<1.0	<0.40	<0.40	<0.27	<0.30	<0.30	<0.30	<0.60	<0.60	<0.18	<1.0
TW300	07/09/15	<7.0	<0.30	<4.0	<0.40	<0.80	<0.30	<0.80	<0.40	<0.80	<0.30	<0.40	<0.27	<0.30	<0.30	<0.30	<0.40	<0.40	<7.0	<0.30	<1.0	<0.40	<0.40	<0.27	<0.30	<0.30	<0.30	<0.60	<0.60	<0.18	<1.0
TW600	07/10/15	18 J	<0.30	4.1 J	<0.40	<0.80	0.43 J	<0.80	<0.40	<0.80	<0.30	<0.40	<0.27	<0.30	<0.30	<0.30	<0.40	<0.40	<7.0	<0.30	<1.0	<0.40	<0.40	<0.27	<0.30	<0.30	<0.30	<0.60	0.66 J	<0.18	<1.0
DUP (TW600)	07/10/15	23	<0.30	<4.0	<0.40	<0.80	0.34 J	<0.80	<0.40	<0.80	<0.30	<0.40	<0.27	<0.30	<0.30	<0.30	<0.40	<0.40	<7.0	<0.30	<1.0	<0.40	<0.40	<0.27	<0.30	<0.30	<0.30	<0.60	0.69 J	<0.18	<1.0
TW800	07/10/15	<7.0	<0.30	<4.0	<0.40	<0.80	<0.30	<0.80	<0.40	<0.80	<0.30	<0.40	<0.27	<0.30	<0.30	<0.30	<0.40	0.93 J	<7.0	<0.30	<1.0	<0.40	<0.40	<0.27	<0.30	<0.30	<0.30	<0.60	<0.60	<0.18	<1.0
TW1100	07/10/15	13 J	<0.30	<4.0	<0.40	<0.80	<0.30	<0.80	<0.40	<0.80	<0.30	<0.40	<0.27	<0.30	<0.30	<0.30	<0.40	<0.40	7.5 J	<0.30	<1.0	<0.40	<0.40	<0.27	<0.30	<0.30	<0.30	<0.60	<0.60	<0.18	<1.0
MW1500	10/14/15	---	<0.15	---	<0.39	<0.47	<0.37	<0.32	<0.49	<0.54	<0.39	<0.41	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	---	<1.6	<0.34	<0.41	<0.37	<0.15	<0.38	<0.35	<0.16	<0.43	<0.61	<0.20	<0.22
DUP (MW1500)	10/14/15	---	<0.15	---	<0.39	<0.47	<0.37	<0.32	<0.49	<0.54	<0.39	<0.41	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	---	<1.6	<0.34	<0.41	<0.37	<0.15	<0.38	<0.35	<0.16	<0.43	<0.61	<0.20	<0.22
MW1700	10/14/15	---	<0.15	---	<0.39	<0.47	<0.37	<0.32	<0.49	<0.54	<0.39	<0.41	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	---	<1.6	<0.34	<0.41	<0.37	<0.15	<0.38	<0.35	<0.16	<0.43	<0.61	<0.20	<0.22

Notes:
 "J" = Analyte detected between Limit of Detection and Limit of Quantitation
 X = Concentration detected above Chapter NR 140, Wisconsin Administrative Code (NR 140, Wis. Adm. Code) preventive action limit (PAL)
 X = Concentration detected above NR 140, Wis. Adm. Code enforcement standard (ES)

Table 3c Groundwater Sample Polynuclear Aromatic Hydrocarbon Laboratory Results, MCABI - Tyco Property, Marinette, Wisconsin

Well Number	Date Collected	Detected Polynuclear Aromatic Hydrocarbons (µg/L)																	
		Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g, h, i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a, h,)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methyl naphthalene	2-Methyl naphthalene	Naphthalene	Phenanthrene	Pyrene
NR 140 Preventive Action Limit (µg/l)		NE	NE	600	NE	0.02	0.02	NE	NE	0.02	NE	80	80	NE	NE	NE	10	NE	50
NR 140 Enforcement Standard (µg/l)		NE	NE	3,000	NE	0.2	0.2	NE	NE	0.2	NE	400	400	NE	NE	NE	100	NE	250
TW100	07/09/15	0.0092 J	0.0074 J	<0.0060	0.021	0.016	0.019	0.015 J	0.014 J	0.016	0.0077 J	0.023	0.028	0.013 J	0.018	0.029	0.17	0.059	0.020
TW300	07/09/15	0.0081 J	0.020	0.012 J	0.048	0.080	0.087	0.071	0.039	0.045	0.015 J	0.048	0.019	0.059	0.025	0.031	0.051	0.049	0.056
TW600	07/10/15	0.011	0.060	0.041	0.14	0.13	0.17	0.089	0.074	0.13	0.024	0.29	0.019	0.083	0.12	0.080	0.087	0.13	0.22
DUP (TW600)	07/10/15	0.015	0.045	0.036	0.095	0.092	0.12	0.062	0.043	0.090	0.017 J	0.22	0.020	0.058	0.15	0.098	0.079	0.13	0.16
TW800	07/10/15	0.012	0.012 J	0.013 J	0.025	0.026	0.034	0.021	0.017 J	0.029	0.0067 J	0.046	0.020	0.018 J	0.028	0.028	0.046	0.056	0.044
TW1100	07/10/15	0.017	0.032	<0.0060	0.0061 J	<0.0050	<0.0060	<0.0060	<0.0070	0.0055 J	<0.0060	0.0073 J	0.0065 J	<0.0060	0.040	0.063	0.059	0.024	0.0070 J
MW1500	08/04/16	<0.24	<0.21	<0.26	<0.044	<0.077	<0.062	<0.29	<0.050	<0.053	<0.039	<0.34	<0.19	<0.058	<0.23	<0.050	<0.24	<0.23	<0.33
MW1600	10/14/15	<0.24	<0.21	<0.26	0.090 J	<0.077	0.11 J	<0.29	<0.050	0.060 J	<0.039	<0.35	<0.19	<0.058	<0.23	<0.050	<0.24	<0.23	<0.33
	08/04/16	<0.24	<0.20	<0.25	<0.043	<0.075	<0.061	<0.29	<0.049	<0.052	<0.039	<0.35	<0.19	<0.057	<0.23	<0.050	<0.24	<0.23	<0.32
MW1700	08/04/16	<0.23	<0.20	<0.25	<0.043	<0.075	<0.061	<0.28	<0.048	<0.052	<0.038	<0.34	<0.18	<0.057	<0.23	<0.049	<0.23	<0.23	<0.32
MW1800	10/14/15	<0.23	<0.20	<0.25	0.52	0.52	0.69	<0.29	0.27	0.50	0.068 J	0.69 J	<0.19	0.31	<0.23	<0.050	<0.23	0.24 J	0.75 J
	08/04/16	<0.25	<0.22	<0.27	<0.046	<0.081	<0.066	<0.31	<0.052	<0.056	<0.041	<0.37	<0.20	<0.061	<0.25	<0.053	<0.25	<0.25	<0.35
	04/13/17	<0.016	<0.019	<0.019	<0.017	<0.02	<0.018	<0.025	<0.016	<0.02	<0.025	<0.017	<0.021	<0.023	0.0275 J	0.067 J	0.062 J	<0.025	<0.02
MW2000	10/14/15	<0.24	<0.21	<0.26	0.32	0.27	0.37	<0.29	0.15 J	0.32 J	<0.039	0.72 J	<0.19	0.15 J	<0.23	<0.051	<0.24	0.60 J	0.63 J
	08/04/16	<0.24	<0.20	<0.26	<0.043	<0.076	<0.062	<0.29	<0.049	<0.052	<0.039	<0.35	<0.19	<0.057	<0.23	<0.050	<0.24	<0.23	<0.33
	10/06/16	<0.24	<0.21	<0.26	<0.044	<0.078	<0.063	<0.29	<0.050	<0.053	<0.040	<0.36	<0.19	<0.059	<0.24	0.087 J	0.28 J	<0.24	<0.33

Notes:
 "J" = Analyte detected between Limit of Detection and Limit of Quantitation
X = Concentration detected above Chapter NR 140, Wisconsin Administrative Code (NR 140, Wis. Adm. Code) preventive action limit (PAL)
X = Concentration detected above NR 140, Wis. Adm. Code enforcement standard (ES)

Table 3d Groundwater Sample Polychlorinated Biphenyls Laboratory Results, MCABI - Tyco Property, Marinette, Wisconsin

Well No.	Date Collected	PCBs (µg/L)						
		PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260
NR 140 Preventive Action Limit (µg/L)		NE	NE	NE	NE	NE	NE	NE
NR 140 Enforcement Standard (µg/L)		NE	NE	NE	NE	NE	NE	NE
MW1800	08/04/16	<0.066	<0.20	<0.20	<0.20	<0.20	<0.20	<0.069

Notes:

"J" = Analyte detected between Limit of Detection and Limit of Quantitation

X = Concentration detected above Chapter NR 140, Wisconsin Administrative Code (NR 140, Wis. Adm. Code) preventive action limit (PAL)

X = Concentration detected above NR 140, Wis. Adm. Code enforcement standard (ES)

Table 4 Water Level Data, MCABI - Tyco Property, Marinette, Wisconsin

Well I.D.	Ground Surface Elevation (msl)	Reference Point Elevation (msl)	Top / Bottom Well Screen Elevation (msl or fbg)	Date	Depth to Water (feet)		Water Table Elevation (feet)
					Below	Below	
					Riser	Grade	
MW1500	91.08	90.53	5-15 fbg	10/14/15	7.61	8.16	82.92
				08/04/16	6.69	7.24	83.84
MW1600	90.08	89.41	5-15 fbg	10/14/15	6.49	7.16	82.92
				08/04/16	5.72	6.39	83.69
MW1700	87.27	87.10	4-14 fbg	10/14/15	4.13	4.30	82.97
				08/04/16	3.32	3.49	83.78
MW1800	87.40	87.12	3-13 fbg	10/14/15	4.19	4.47	82.93
				08/04/16	3.59	3.87	83.53
				10/06/16	3.49	3.77	83.63
MW1900	87.41	87.24	3-13 fbg	10/14/15	4.59	4.76	82.65
				08/04/16	3.09	3.26	84.15
MW2000	95.69	95.48	5-15 fbg	10/14/15	12.05	12.26	83.43
				08/04/16	11.11	11.32	84.37
				10/06/16	11.23	11.44	84.25

Key:
 * = Well Screen Submerged
 msl = Mean Sea Level
 fbg = Feet Below Grade
 --- = Not Collected

SITE INVESTIGATION REPORT

1310-1330 Main Street

MCABI-Tyco Redevelopment Site, Marinette, WI

APPENDICES

SITE INVESTIGATION REPORT

1310-1330 Main Street

MCABI-Tyco Redevelopment Site, Marinette, WI

Appendix A

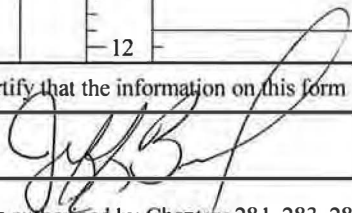
Soil Boring Logs

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

Facility/Project Name MCABI - Tyco Property		License/Permit/Monitoring Number 193703365		Boring Number B100	
Boring Drilled By: Name of crew chief (first, last) and Firm Kurt Deprey Professional Service Industries, Inc.			Date Drilling Started 7/8/2015	Date Drilling Completed 7/8/2015	Drilling Method hollow stem auger
WI Unique Well No.	DNR Well ID No.	Common Well Name TW100	Final Static Water Level Feet Site	Surface Elevation Feet Site	Borehole Diameter 6.0 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location		
State Plane SE 1/4 of SE 1/4 of Section 6, T 30 N, R 24 E			Lat 45° 5' 42.4" Long 87° 37' 14.9"		
Facility ID		County Marinette	County Code 38	Civil Town/City/ or Village Marinette	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S101 SS	24 20		1	TOPSOIL SAND, fine grained, poorly-graded, some fine to medium gravel from 2 to 4 feet, trace slag from 2 to 4 feet, trace glass and brick from 6 to 8 feet, brown (7.5YR 4/3) from 0.4 to 4 feet, dark brown (7.5YR 3/3) from 4 to 9.5 feet, no odor, moist.				2.3						
S102 SS	24 17		2					2.3						
S103 SS	24 12		4					1.3						
S104 SS	24 14		6			SP		1.3						
S105 SS	24 15		8					2.0						
S106 SS	24 18		10		FILL - WOOD and SAWDUST, black (7.5YR 2.5/1), no odor, saturated at 10 feet.			1.4						

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

Signature 	Firm Stantec	Tel: Fax:
--	------------------------	--------------

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

Facility/Project Name MCABI - Tyco Property		License/Permit/Monitoring Number 193703365		Boring Number B200	
Boring Drilled By: Name of crew chief (first, last) and Firm Kurt Deprey Professional Service Industries, Inc.			Date Drilling Started 7/8/2015	Date Drilling Completed 7/8/2015	Drilling Method hollow stem auger
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet Site	Surface Elevation Feet Site	Borehole Diameter 6.0 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location		
State Plane SE 1/4 of SE 1/4 of Section 6, T 30 N, R 24 E			Lat 45° 5' 42.4"	<input type="checkbox"/> N <input type="checkbox"/> E	
			Long 87° 37' 14.9"	<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Marinette	County Code 38	Civil Town/City/ or Village Marinette	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S201 SS	24 12		1	TOPSOIL				3.7						
S202 SS	24 16		2	SAND, fine grained, poorly-graded, some wood and organics from 8.5 to 10.5 feet, brown (7.5YR 4/3) from 0.6 to 8.5 feet, black (7.5YR 2.5/1) from 8.5 to 10.5 feet, no odor, saturated at 7 feet.				2.3						
S203 SS	24 13		3					0.9						
S204 SS	24 18		4					2.1						
S205 SS	24 20		5					1.5						
S206 SS	24 11		6					2.0						
			7		FILL - WOOD SHAVINGS AND CHIPS, brown (7.5YR 4/2), no odor, saturated.									

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

Signature 	Firm Stantec	Tel:
		Fax:

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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

Facility/Project Name MC BI - Tyco Property		License/Permit/Monitoring Number 193703365		Boring Number B300	
Boring Drilled By: Name of crew chief (first, last) and Firm Kurt Deprey Professional Service Industries, Inc.			Date Drilling Started 7/8/2015	Date Drilling Completed 7/8/2015	Drilling Method hollow stem auger
WI Unique Well No.	DNR Well ID No.	Common Well Name TW300	Final Static Water Level Feet Site	Surface Elevation Feet Site	Borehole Diameter 6.0 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N			Local Grid Location		
SE 1/4 of SE 1/4 of Section 6, T 30 N, R 24 E			Lat 45° 5' 42.4"	<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Marinette	County Code 38	Civil Town/City/ or Village Marinette	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S301 SS	24 14		1	TOPSOIL SAND, fine grained, poorly-graded, trace glass and brick from 8 to 12 feet, brown (7.5YR 5/4) from 0.4 to 12 feet, dark brown (7.5YR 3/4) from 12 to 16 feet, no odor, satuated at 12 feet.				4.8						
S302 SS	24 15		2					5.2						
S303 SS	24 8		4					7.2						
S304 SS	24 0		6			SP		--						
S305 SS	24 16		8					9.3						
S306 SS	24 16		10					6.5						

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

Signature  Firm **Stantec** Tel: _____ Fax: _____

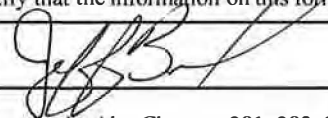
This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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

Facility/Project Name MCABI - Tyco Property			License/Permit/Monitoring Number 193703365		Boring Number B400		
Boring Drilled By: Name of crew chief (first, last) and Firm Kurt Deprey Professional Service Industries, Inc.			Date Drilling Started 7/8/2015		Date Drilling Completed 7/8/2015		
Drilling Method hollow stem auger		WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet Site		Surface Elevation Feet Site		Borehole Diameter 6.0 inches			
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location				
State Plane SE 1/4 of SE 1/4 of Section 6, T 30 N, R 24 E			Lat 45° 5' 42.4"			Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Long 87° 37' 14.9"			County Marinette		County Code 38		
Civil Town/City/ or Village Marinette							

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
S401 SS	24 14		1	TOPSOIL				2.2							
S402 SS	24 12		2	SAND, fine grained, poorly-graded, some fine gravel, glass, plastic and wood from 2 to 10 feet, dark brown (7.5YR 3/2) from 0.4 to 6 feet, black (7.5YR 2.5/1) from 6 to 10 feet, no odor, moist.				2.5							
S403 SP	24 6		4					5.9							
S404 SS	24 16		6					5.9							
S405 SS	24 14		8					6.1							
S406 SS	24 24		10	SILTY SAND, Fine grained, poorly-graded, trace wood chips and roots, black (7.5YR 2.5/1), no odor, saturated at 10 feet.	SP-SM			4.5							

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

Signature  Firm **Stantec** Tel: _____ Fax: _____

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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

Facility/Project Name MCABI - Tyco Property			License/Permit/Monitoring Number 193703365		Boring Number B500		
Boring Drilled By: Name of crew chief (first, last) and Firm Kurt Deprey Professional Service Industries, Inc.			Date Drilling Started 7/8/2015		Date Drilling Completed 7/8/2015		
Drilling Method hollow stem auger		WT Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet Site		Surface Elevation Feet Site		Borehole Diameter 6.0 inches			
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location				
State Plane SE 1/4 of SE 1/4 of Section 6, T 30 N, R 24 E			Lat 45° 5' 42.4"			Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Long 87° 37' 14.9"			County Marinette		County Code 38		
Facility ID			Civil Town/City/ or Village Marinette				

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
SS01 SS	24 12		1	TOPSOIL SAND, Fine grained, poorly-graded, some plastic, glass, metal and wood chips found from 6 to 10 feet, brown (7.5YR 4/2) from 0.2 to 6 feet, very dark brown (7.5YR 2.5/2) from 6 to 8 feet, black (7.5YR 2.5/1) from 8 to 13 feet, no odor, saturated at 8 feet.				5.9						
SS02 SS	24 13		2					6.1						
SS03 SS	24 8		4					5.2						
SS04 SS	24 3		6			SP		1.6						
SS05 SS	24 3		8					2.2						
SS06 SS	24 9		10					7.4						

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


Signature  Firm **Stantec** Tel: _____ Fax: _____

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


Facility/Project Name MCABI - Tyco Property		License/Permit/Monitoring Number 193703365		Boring Number B600	
Boring Drilled By: Name of crew chief (first, last) and Firm Kurt Deprey Professional Service Industries, Inc.		Date Drilling Started 7/9/2015		Date Drilling Completed 7/9/2015	
Drilling Method hollow stem auger					
WI Unique Well No.	DNR Well ID No.	Common Well Name TW600	Final Static Water Level Feet Site	Surface Elevation Feet Site	Borehole Diameter 6.0 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location		
State Plane N, E S/C/N			Lat 45° 5' 42.4"		
SE 1/4 of SE 1/4 of Section 6, T 30 N, R 24 E			Long 87° 37' 14.9"		
Facility ID		County Marinette	County Code 38	Civil Town/City/ or Village Marinette	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S601 SS	24 20		1	TOPSOIL				3.3						
S602 SS	24 20		2	SAND, fine grained, poorly-graded, some medium gravel and copper wire from 6 to 8 feet, brown (7.5YR 5/3) from 2 to 5.5 feet, very dark brown (7.5YR 2.5/2) from 5.5 to 6 feet, black (7.5YR 2.5/1) from 6 to 9 feet, petroleum odor from 8 to 9 feet, saturated at 8 feet.				4.6						
S603 SS	24 20		4		SP			4.9						
S604 SS	24 14		6					5.8						
S605 SS	24 22		8					>300						
			9	FILL - WOOD SHAVINGS, black (7.5YR 2.5/1), petroleum odor, saturated.										
S606 SS	24 20		10	SAND, fine grained, poorly-graded, trace fine gravel, black (7.5YR 2.5/1), petroleum odor, saturated.	SP			>300						
			11											
			12		SP-SM									

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

Signature 	Firm Stantec	Tel: Fax:
--	------------------------	--------------

Boring Number **B600** Use only as an attachment to Form 4400-122. Page 2 of 3


Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S607 SS	24		13	SILTY SAND with roots and organics, black (7.5YR 2.5/1), no odor, saturated. <i>(continued)</i>	SP-SM			47						
	24		14											
S608 SS	24		14	SAND, fine grained, poorly-graded, dark grey (7.5YR 4/1), no odor, saturated. NO RECOVERY	SP			-						
	0		15											
			16	See Professional Service Industries, Inc. (PSI) soil logs for descriptions.										
			17											
			18											
			19											
			20											
			21											
			22											
			23											
			24											
			25											
			26											
			27											
			28											
			29											
			30											
			31											
			32											

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

Facility/Project Name MCABI - Tyco Property			License/Permit/Monitoring Number 193703365		Boring Number B700	
Boring Drilled By: Name of crew chief (first, last) and Firm Kurt Deprey Professional Service Industries, Inc.			Date Drilling Started 7/9/2015		Date Drilling Completed 7/9/2015	
Drilling Method hollow stem auger			Final Static Water Level Feet Site		Surface Elevation Feet Site	
WI Unique Well No.		DNR Well ID No.	Common Well Name		Borehole Diameter 6.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Lat 45° 5' 42.4"		Local Grid Location	
State Plane N, E S/C/N			Long 87° 37' 14.9"		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SE 1/4 of SE 1/4 of Section 6,		T 30 N, R 24 E		Facility ID _____ County Marinette County Code 38 Civil Town/City/ or Village Marinette		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
S701 SS	24 12		1	TOPSOIL SAND, fine grained, poorly-graded with plastic, glass and wire, trace silty clay, brown (7.5YR 4/3), no odor, moist.				7.6							
S702 SS	24 6		2		SP			5.9							
S703 SS	24 14		4	SILTY SAND , some fine gravel, wood, and slag, black (7.5YR 2.5/1), slight odor, moist.				9.6							
S704 SS	24 18		6		SP-SM			10.8							
S705 SS	24 24		8	SAND , fine grained, poorly-graded, very dark grey (7.5YR 3/1), no odor, saturated.	SP			5.2							
S706 SS	24 19		10	SANDY SILT , some wood and organics, dark brown (7.5YR 3/2), no odor, saturated.	ML			5.5							
			11	SILTY SAND , fine grained, poorly-graded, trace fine gravel and wood organics, dark brown (7.5YR 3/2), no odor, saturated.	SP-SM										

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

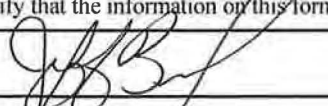
Signature 	Firm Stantec	Tel: Fax:
---	---------------------	--------------

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

Facility/Project Name MCABI - Tyco Property		License/Permit/Monitoring Number 193703365		Boring Number B800	
Boring Drilled By: Name of crew chief (first, last) and Firm Kurt Deprey Professional Service Industries, Inc.			Date Drilling Started 7/9/2015	Date Drilling Completed 7/9/2015	Drilling Method hollow stem auger
WI Unique Well No.	DNR Well ID No.	Common Well Name TW800	Final Static Water Level Feet Site	Surface Elevation Feet Site	Borehole Diameter 6.0 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location		
State Plane SE 1/4 of SE 1/4 of Section 6, T 30 N, R 24 E			Lat 45° 5' 42.4" Long 87° 37' 14.9"		
Facility ID		County Marinette	County Code 38	Civil Town/City/ or Village Marinette	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S801 SS	24 14		0	TOPSOIL				10.4						
			1	SAND, fine grained, poorly-graded, some medium gravel, brown (7.5YR 5/4), no odor, moist.										
S802 SS	24 8		2		SP			12.2						
			3											
S803 SS	24 8		4	FILL - NEWSPAPER, RUBBER, PLASTIC, GLASS.				9.1						
			5											
S804 SS	24 8		6	SILTY SAND, fine grained, poorly-graded, some fine gravel and glass, black (7.5YR 2.5/1), no odor, saturated.	SP-SM			6.2						
			7											
S805 SS	24 18		8	SAND, fine grained, poorly-graded, dark grey (7.5YR 4/1), no odor, saturated.	SP			6.5						
			9	SILTY SAND, fine grained, poorly-graded, some wood chips and organics, black (7.5YR 2.5/1), no odor, saturated.										
S806 SS	24 20		10		SP-SM			5.7						
			11											
			12											

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

Signature  Firm **Stantec** Tel: _____ Fax: _____

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

Facility/Project Name MCABI - Tyco Property		License/Permit/Monitoring Number 193703365		Boring Number B900	
Boring Drilled By: Name of crew chief (first, last) and Firm Kurt Deprey Professional Service Industries, Inc.		Date Drilling Started 7/9/2015		Date Drilling Completed 7/9/2015	
Drilling Method hollow stem auger		WI Unique Well No.		DNR Well ID No.	
Common Well Name		Final Static Water Level Feet Site		Surface Elevation Feet Site	
Borehole Diameter 6.0 inches		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		Local Grid Location	
State Plane N, E S/C/N		Lat 45° 5' 42.4"		<input type="checkbox"/> N <input type="checkbox"/> E	
SE 1/4 of SE 1/4 of Section 6, T 30 N, R 24 E		Long 87° 37' 14.9"		<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Marinette		County Code 38	
		Civil Town/City/ or Village Marinette			

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S901 SS	24 16		1	TOPSOIL				7.6						
S902 SS	24 8		2	SAND, fine grained, poorly-graded, trace medium gravel, trace insulation, glass, and metal from 2 to 6 feet, brown (7.5YR 5/2) from 0.3 to 2 feet, very dark grey (7.5Yr 3/1) from 2 to 6 feet, black (7.5YR 2.5/1) from 6 to 9 feet, no odor, saturated at 8 feet.				10.0						
S903 SS	24 16		3					7.9						
S904 SS	24 18		4					2.1						
S905 SS	24 24		5					3.9						
S906 SS	24 24		6	FILL - WOOD SHAVINGS with organics, trace sand, black (7.5YR 2.5/1), no odor, saturated.										
			7	SAND, fine grained, poorly-graded, some wood fibers and organics from 10 to 12 feet, very dark grey (7.5YR 3/1) from 10 to 14 feet, brown (7.5YR 5/2) from 14 to 16 feet, no odor, saturated.				3.3						
			8											


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

Signature	Firm Stantec	Tel: Fax:
-----------	---------------------	--------------

Boring Number **B900**

Use only as an attachment to Form 4400-122.

Page **2** of **3**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S907 SS	24 20		13	SAND, fine grained, poorly-graded, some wood fibers and organics from 10 to 12 feet, very dark grey (7.5YR 3/1) from 10 to 14 feet, brown (7.5YR 5/2) from 14 to 16 feet, no odor, saturated. <i>(continued)</i>	SP			2.3						
			14											
S908 SS	24 24		15	See Professional Service Industries, Inc. (PSI) soil logs for descriptions.										
			16											
			17											
			18											
			19											
			20											
			21											
			22											
			23											
			24											
			25											
			26											
			27											
			28											
			29											
			30											
			31											
			32											

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

Facility/Project Name MCABI - Tyco Property		License/Permit/Monitoring Number 193703365		Boring Number B1000	
Boring Drilled By: Name of crew chief (first, last) and Firm Kurt Deprey Professional Service Industries, Inc.		Date Drilling Started 7/9/2015		Date Drilling Completed 7/9/2015	
Drilling Method hollow stem auger		Final Static Water Level Feet Site		Surface Elevation Feet Site	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SE 1/4 of SE 1/4 of Section 6 , T 30 N. R 24 E		Lat 45° 5' 42.4"		Long 87° 37' 14.9"	
Facility ID		County Marinette		County Code 38	
				Civil Town/City/ or Village Marinette	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
S1001 SS	24 14		1	TOPSOIL				3.1							
S1002 SS	24 3		2	SAND, fine grained, poorly-graded, some medium gravel, trace plastic, scrap metal, wood, and springs from 2 to 4 feet, brown (7.5YR 4/2) from 0.6 to 2 feet, very dark grey (7.5YR 3/1) from 2 to 5.5 feet, no odor, moist.	SP			7.1							
S1003 SS	24 24		4					4.6							
S1004 SS	24 14		6	SILTY SAND, fine grained, poorly-graded, wood organics, black (7.5YR 2.5/1), no odor, saturated.	SP-SM			4.6							
S1005 SS	24 18		8	SAND, fine grained, poorly-graded, some wood chips, very dark grey (7.5YR 3/1), no odor, saturated.	SP			3.6							
S1006 SS	24 24		10	FILL - WOOD AND SAWDUST, trace fine sand, black (7.5YR 2.5/1), no odor, saturated.											
			11	SAND, fine grained, poorly-graded, black (7.5YR 2.5/1) from 10 to 12 feet, dark grey (7.5YR 4/1) from 12 to 14 feet, no odor, saturated.	SP			3.8							

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

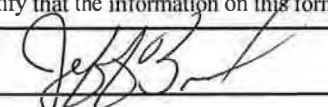
Signature Firm **Stantec** Tel: _____ Fax: _____

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

Facility/Project Name MCABI - Tyco Property		License/Permit/Monitoring Number 193703365		Boring Number B1100	
Boring Drilled By: Name of crew chief (first, last) and Firm Kurt Deprey Professional Service Industries, Inc.			Date Drilling Started 7/9/2015	Date Drilling Completed 7/9/2015	Drilling Method hollow stem auger
WI Unique Well No.	DNR Well ID No.	Common Well Name TW1100	Final Static Water Level Feet Site	Surface Elevation Feet Site	Borehole Diameter 6.0 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location		
State Plane N, E S/C/N			Lat 45° 5' 42.4"		
SE 1/4 of SE 1/4 of Section 6, T 30 N, R 24 E			Long 87° 37' 14.9"		
Facility ID		County Marinette	County Code 38	Civil Town/City/ or Village Marinette	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1101 SS	24 16		1	SAND, fine grained, poorly-graded, some fine to medium gravel, trace metal and plastic from 2 to 4 feet, dark brown (7.5YR 3/2) from 0 to 2 feet, very dark grey (7.5YR 3/1) from 2 to 7.5 feet, no odor, saturated at 6 feet.	SP		5.5							
S1102 SS	24 16		2					6.5						
S1103 SS	24 18		4					7.5						
S1104 SS	24 7		6					9.5						
S1105 SS	24 2		8					17.0						
S1106 SS	24 6		10					12.3						
			8	FILL - WOOD, RUBBER, SCRAP METAL, black (7.5YR 2.5/1), slight odor, saturated.										
			10	SILTY SAND, fine grained, poorly-graded, trace wood chips, glass, and paper, black (7.5YR 2.5/1) from 10 to 12 feet, very dark grey (7.5YR 3/1) from 12 to 14 feet, no odor, saturated.	SP-SM									

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

Signature  Firm **Stantec** Tel: _____ Fax: _____

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

Facility/Project Name MCABI - Tyco Property			License/Permit/Monitoring Number 193703365		Boring Number B1200		
Boring Drilled By: Name of crew chief (first, last) and Firm Jeff Brand Stantec			Date Drilling Started 7/8/2015		Date Drilling Completed 7/8/2015		
Drilling Method Hand Auger		WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet Site		Surface Elevation Feet Site		Borehole Diameter 6.0 inches			
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		State Plane N, E S/C/N		Lat 45° 5' 42.4"		Local Grid Location	
SE 1/4 of SE 1/4 of Section 6, T 30 N, R 24 E		Long 87° 37' 14.9"		Feet <input type="checkbox"/> N <input type="checkbox"/> E		Feet <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Marinette		County Code 38		Civil Town/City/ or Village Marinette	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1201 HAND AUGER	24 24		0-1	SAND, fine grained, poorly-graded, some roots and organics from 0 to 2 feet, trace plastic, metal, and glass from 2 to 6 feet, brown (7.5YR 4/2) from 0 to 2 feet, very dark grey (7.5YR 3/1) from 2 to 4 feet, very dark brown (7.5YR 2.5/2) from 4 to 6 feet, no odor, saturated at 5 feet.	SP			1.6						
S1202 HAND AUGER	24 24		1-2						9.4					
			2-3											
S1203 HAND AUGER	24 24		3-4						1.8					
			4-5											
			5-6											
				END OF BORING AT 6 FEET.										

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

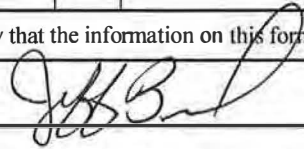
Signature  Firm **Stantec** Tel: _____ Fax: _____

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

Facility/Project Name MCABI - Tyco Property			License/Permit/Monitoring Number 193703365		Boring Number B1300		
Boring Drilled By: Name of crew chief (first, last) and Firm Kurt Deprey Professional Service Industries, Inc.			Date Drilling Started 10/7/2015		Date Drilling Completed 10/7/2015		
Drilling Method hollow stem auger		WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet Site		Surface Elevation Feet Site		Borehole Diameter 6.0 inches			
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			State Plane N, E S/C/N			Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SE 1/4 of SE 1/4 of Section 6, T 30 N, R 24 E			Lat 45° 5' 42.4"		Long 87° 37' 14.9"		
Facility ID		County Marinette		County Code 38		Civil Town/City/ or Village Marinette	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1301 S	24 18		1	TOPSOIL				7.8						
			2	SAND, fine-grained, poorly graded, brown (7.5YR 5/3), moist, no odor.	SP			4.4						
S1302 S	24 17		4	END OF BORING AT 4 FEET.										

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

Signature:  Firm: **Stantec** Tel: _____ Fax: _____

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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

Facility/Project Name MCABI - Tyco Property			License/Permit/Monitoring Number 193703365		Boring Number B1400		
Boring Drilled By: Name of crew chief (first, last) and Firm Kurt Deprey Professional Service Industries, Inc.			Date Drilling Started 10/7/2015		Date Drilling Completed 10/7/2015		
Drilling Method hollow stem auger		WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet Site		Surface Elevation Feet Site		Borehole Diameter 6.0 inches			
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location				
State Plane N, E S/C/N			Lat 45° 5' 42.4"			<input type="checkbox"/> N <input type="checkbox"/> E	
SE 1/4 of SE 1/4 of Section 6, T 30 N, R 24 E			Long 87° 37' 14.9"			<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Marinette		County Code 38		Civil Town/City/ or Village Marinette	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
S1401 S	24 18		1	TOPSOIL				1.4							
S1402 S	24 17		2	SAND, fine-grained, poorly graded, brown (7.5YR 3/2) changing at 2 feet to brown (7.5YR 4/4), moist, no odor.	SP			1.2							
			4	END OF BORING AT 4 FEET.											

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

Signature  Firm **Stantec** Tel: _____ Fax: _____

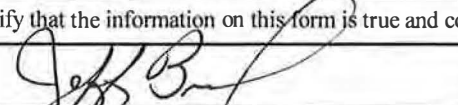
This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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

Facility/Project Name MCABI - Tyco Property			License/Permit/Monitoring Number 193703365		Boring Number B1500		
Boring Drilled By: Name of crew chief (first, last) and Firm Kurt Deprey Professional Service Industries, Inc.			Date Drilling Started 10/7/2015		Date Drilling Completed 10/7/2015		
WI Unique Well No.		DNR Well ID No.	Common Well Name MW1500		Final Static Water Level Feet Site		
					Surface Elevation Feet Site		
					Borehole Diameter 6.0 inches		
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location				
State Plane N, E S/C/N			Lat 45° 5' 42.4"				
SE 1/4 of SE 1/4 of Section 6, T 30 N, R 24 E			Long 87° 37' 14.9"				
Facility ID		County Marinette		County Code 38		Civil Town/City/ or Village Marinette	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1501 S	24 17		1	TOPSOIL				0.5						
S1502 S	24 12		2	SAND, fine-grained, poorly graded, trace medium gravel from 1 to 4 feet, some glass/plastic/brick/wood from 2 to 11.5 feet, brown (7.5YR 4/3) changing at 2 feet to dark brown (7.5YR 3/2), black (7.5YR 2.5/1) from 4 to 11.5 feet, saturated at 8 feet, organic/wood odor from 6 to 8 feet.				1.1						
S1503 S	24 9		3					1.7						
S1504 S	24 6		4					19.4						
S1505 S	24 14		5					2.9						
S1506 S	24 12		6					47.0						
			7											
			8											
			9											
			10											
			11											
			12	WOOD CHIPS/SHAVINGS										

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

Signature:  Firm: **Stantec**

Tel: _____
Fax: _____

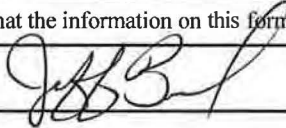
This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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

Facility/Project Name MCABI - Tyco Property		License/Permit/Monitoring Number 193703365		Boring Number B1600	
Boring Drilled By: Name of crew chief (first, last) and Firm Kurt Deprey Professional Service Industries, Inc.		Date Drilling Started 10/7/2015		Date Drilling Completed 10/7/2015	
WI Unique Well No.		DNR Well ID No.		Common Well Name MW1600	
Final Static Water Level Feet Site		Surface Elevation Feet Site		Borehole Diameter 6.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SE 1/4 of SE 1/4 of Section 6, T 30 N, R 24 E		Lat 45° 5' 42.4"		Long 87° 37' 14.9"	
Facility ID		County Marinette		County Code 38	
				Civil Town/City/ or Village Marinette	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
S1601 S	24 20		1	TOPSOIL				0.2							
S1602 S	24 16		2	SAND, fine-grained, poorly graded, trace fine gravel from 2 to 4 feet, some medium to large gravel from 6 to 8 feet, wood chips from 8 to 10 feet, strong brown (7.5YR 4/6) changing at 2 feet to brown (7.5YR 5/3), black (7.5YR 2.5/1) from 6 to 10 feet changing to very dark grey (7.5YR 3/1), saturated at 5.5 feet, burnt odor from 6 to 10 feet.				0.4							
S1603 S	24 21		3					0.4							
S1604 S	24 18		4					0.4							
S1605 S	24 21		5					0.4							
S1605 S	24 21		6					2.4							
S1605 S	24 21		7					7.1							
S1606 S	24 17		8				24.7								
			9												
			10												
			11												
			12	WOOD CHIPS/SHAVINGS											

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

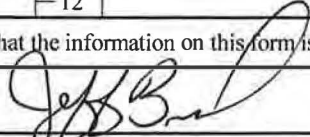
Signature 	Firm Stantec	Tel: Fax:
--	------------------------	--------------

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

Facility/Project Name MCABI - Tyco Property		License/Permit/Monitoring Number 193703365		Boring Number B1700	
Boring Drilled By: Name of crew chief (first, last) and Firm Kurt Deprey Professional Service Industries, Inc.		Date Drilling Started 10/7/2015		Date Drilling Completed 10/7/2015	
Drilling Method hollow stem auger		WI Unique Well No.		DNR Well ID No.	
Common Well Name MW1700		Final Static Water Level Feet Site		Surface Elevation Feet Site	
Borehole Diameter 6.0 inches		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		Local Grid Location	
State Plane SE 1/4 of SE 1/4 of Section 6, T 30 N, R 24 E		Lat 45° 5' 42.4"		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Long 87° 37' 14.9"		County Marinette		County Code 38	
Facility ID		Civil Town/City/ or Village Marinette			

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1701 S	24 15		1	TOPSOIL SAND, fine-grained, poorly graded, trace plastic/metal/wood/paper from 0.2 to 4 feet, some medium to large gravel from 4 to 6 feet, brown (7.5YR 5/4) changing at 2 feet to dark brown (7.5YR 3/2), black (7.5YR 2.5/1) from 4 to 6 feet, saturated at 6 feet, no odor.				0.6						
S1702 S	24 12		2		SP			24.0						
S1703 S	24 18		4					5.4						
S1704 S	24 22		6	SILTY SAND, fine-grained, poorly graded, trace medium gravel, black (7.5YR 2.5/1), saturated, no odor.	SM			3.3						
			7	WOOD CHIPS/SHAVINGS										
S1705 S	24 17		8	SILTY SAND, fine-grained, poorly graded, wood shavings, black (7.5YR 2.5/1) changing at 10 feet to very dark brown (7.5YR 2.5/2), saturated, no odor.	SM			2.9						
S1706 S	24 21		10					1.1						
			11	SAND, fine-grained, poorly graded, very dark grey (7.5YR 3/1), saturated, no odor.	SP									
			12											

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

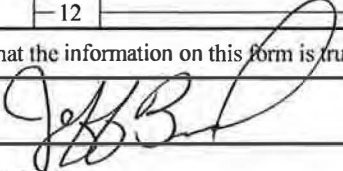
Signature 	Firm Stantec	Tel: Fax:
--	------------------------	--------------

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

Facility/Project Name MCABI - Tyco Property		License/Permit/Monitoring Number 193703365		Boring Number B1800	
Boring Drilled By: Name of crew chief (fi st. last) and Firm Kurt Deprey Professional Service Industries, Inc.		Date Drilling Started 10/7/2015		Date Drilling Completed 10/7/2015	
Drilling Method hollow stem auger		WI Unique Well No.		DNR Well ID No.	
Common Well Name MW1800		Final Static Water Level Feet Site		Surface Elevation Feet Site	
Borehole Diameter 6.0 inches		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		Local Grid Location	
State Plane SE 1/4 of SE 1/4 of Section 6, T 30 N, R 24 E		Lat 45° 5' 42.4"		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Long 87° 37' 14.9"		County Marinette		County Code 38	
Facility ID		Civil Town/City/ or Village Marinette			

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1801 S	24 15		1	TOPSOIL SAND, fine-grained, poorly graded, some medium gravel and plastic from 4 to 6 feet, brown (7.5YR 5/4) changing at 2 feet to brown (7.5YR 4/4), black (7.5YR 2.5/1) from 4 to 5.5 feet changing to grey (7.5YR 5/1), saturated at 4 feet, no odor.				0.7						
S1802 S	24 10		2		SP			0.8						
S1803 S	24 15		4					1.5						
S1804 S	24 19		6					7.4						
S1805 S	24 10		7	SILTY SAND , fine-grained, poorly graded, some wood shavings, black (7.5YR 2.5/1), saturated, no odor.	SM			1.8						
S1806 S	24 18		10	WOOD CHIPS/SHAVINGS				0.7						
			11	SAND , fine-grained, poorly graded, black (7.5YR 2.5/1), saturated, no odor.	SP									
			12											


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

Signature 	Firm Stantec	Tel: Fax:
--	------------------------	--------------

Boring Number **B1800**

Use only as an attachment to Form 4400-122.

Page 2 of 2

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			13	END OF BORING AT 12 FEET.										

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

Facility/Project Name MCABI - Tyco Property			License/Permit/Monitoring Number 193703365		Boring Number B1900		
Boring Drilled By: Name of crew chief (first, last) and Firm Kurt Deprey Professional Service Industries, Inc.			Date Drilling Started 10/7/2015		Date Drilling Completed 10/7/2015		
Drilling Method hollow stem auger		WT Unique Well No.		DNR Well ID No.		Common Well Name MW1900	
Final Static Water Level Feet Site		Surface Elevation Feet Site		Borehole Diameter 6.0 inches			
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location				
State Plane SE 1/4 of SE 1/4 of Section 6, T 30 N, R 24 E			Lat 45° 5' 42.4"			<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Long 87° 37' 14.9"			County Marinette		County Code 38		
Facility ID		Civil Town/City/ or Village Marinette					

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			1 2 3 4 5 6 7 8 9 10 11 12	BLIND DRILL, Lithology assumed to be similar to B1100.										

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

Signature 	Firm Stantec	Tel: Fax:
---------------	------------------------	--------------

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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

Facility/Project Name MCABI - Tyco Property			License/Permit/Monitoring Number 193703365		Boring Number B2000		
Boring Drilled By: Name of crew chief (first, last) and Firm Kurt Déprey Professional Service Industries, Inc.			Date Drilling Started 10/8/2015		Date Drilling Completed 10/8/2015		
WI Unique Well No.		DNR Well ID No.	Common Well Name MW2000		Final Static Water Level Feet Site		
					Surface Elevation Feet Site		
					Borehole Diameter 6.0 inches		
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			State Plane N, E S/C/N		Local Grid Location		
SE 1/4 of SE 1/4 of Section 6, T 30 N, R 24 E			Lat 45° 5' 42.4"		<input type="checkbox"/> N <input type="checkbox"/> E		
			Long 87° 37' 14.9"		<input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID		County Marinette		County Code 38		Civil Town/City/ or Village Marinette	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			1 2 3 4 5 6 7 8 9 10 11 12	BLIND DRILL, Lithology assumed to be similar to B300.										

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

Signature 	Firm Stantec	Tel: Fax:
---------------	------------------------	--------------

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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

Facility/Project Name MCABI - Tyco Property		License/Permit/Monitoring Number 193704595		Boring Number B2100	
Boring Drilled By: Name of crew chief (first, last) and Firm Darrin Prentice Geiss Soil and Samples, LLC		Date Drilling Started 10/27/2017		Date Drilling Completed 10/27/2017	
Drilling Method Geoprobe		WI Unique Well No.		DNR Well ID No.	
Common Well Name TW2100		Final Static Water Level Feet Site		Surface Elevation Feet Site	
Borehole Diameter 2.0 inches		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		Local Grid Location	
State Plane SE 1/4 of SE 1/4 of Section 6, T 30 N, R 24 E		Lat 45° 5' 42.4"		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Long 87° 37' 14.9"		County Marinette		County Code 38	
Facility ID		Civil Town/City/ or Village Marinette			

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S2101 GEOPROBE	24 15		1	TOPSOIL				5.8						
			2	SAND, fine-grained, poorly graded, trace medium gravel, dark brown (7.5YR 3/2), saturated at 2 feet, no odor.				7.7						
S2102 GEOPROBE	24 15		3		SP									
S2103 GEOPROBE	24 9		4					4.1						
			5											
S2104 GEOPROBE	24 9		6	Waste material, plastic, wood shavings, metal, black (7.5YR 2.5/1), saturated, no odor.				12.0						
			7											
S2105 GEOPROBE	24 20		8	SAND, fine-grained, poorly graded, with wood chips/shavings, trace plastic, black (7.5YR 2.5/1), saturated, no odor.				12.7						
			9											
S2106 GEOPROBE	24 20		10		SP			13.1						
			11											
			12											

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

Signature 	Firm Stantec	Tel: Fax:
---------------	------------------------	--------------

SITE INVESTIGATION REPORT

1310-1330 Main Street

MCABI-Tyco Redevelopment Site, Marinette, WI

Appendix B

Soil Boring and Monitoring Well Abandonment Forms

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
B100

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

1. Well Location Information			2. Facility / Owner Information		
County Macinette	WI Unique Well # of Removed Well	Hicap #	Facility Name MCABI- Tyco Property		
Latitude / Longitude (Degrees and Minutes) 45° 5' 42.9"N 87° 37' 14.9"W		Method Code (see instructions)	Facility ID (FID or PWS)		
1/4 1/4 SE 1/4 SE or Gov't Lot #		Section 6	Township 30 N	Range 24	Original Well Owner
Well Street Address		Present Well Owner Tyco			
Well City, Village or Town Macinette		Mailing Address of Present Owner One Stanton Street			
Subdivision Name		Lot #	City of Present Owner Macinette	State WI	ZIP Code 54143

Reason For Removal From Service: Complete Soil/GW Sampling

WI Unique Well # of Replacement Well: _____

3. Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material	
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 07/08/2015	Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.	Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Borehole / Drillhole		Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____		Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)	Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Lower Drillhole Diameter (in.) 6	Casing Depth (ft.)	Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Was well annular space grouted?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If yes, to what depth (feet)?	Depth to Water (feet) 9.90'	If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Topsoil	Surface	0.5	0.10 ft ³	
Bentonite	0.5	33.5	6.48 ft ³	

6. Comments

7. Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Kurt Deprey - PSI	License #	Date of Filling & Sealing (mm/dd/yyyy) 07/08/2015	Date Received	Noted By
Street or Route 2740-F Packerland Drive		Telephone Number (920) 592-9540	Comments	
City Green Bay	State WI	ZIP Code 54313	Signature of Person Doing Work [Signature] (Stantec) for PSI	Date Signed 8-4-15

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.

<input type="checkbox"/> Verification Only of Fill and Seal <i>TW100</i>	Route to:		
	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Watershed/Wastewater	<input checked="" type="checkbox"/> Remediation/Redevelopment
	<input type="checkbox"/> Waste Management	<input type="checkbox"/> Other: _____	

1. Well Location Information				2. Facility / Owner Information			
County <i>Marquette</i>		WI Unique Well # of Removed Well _____		Hicap # _____		Facility Name <i>MCABI- Tyco Property</i>	
Latitude / Longitude (Degrees and Minutes) <i>45° 5' 42.4" N</i> <i>87° 37' 14.9" W</i>		Method Code (see instructions) _____		Facility ID (FID or PWS) _____		License/Permit/Monitoring # _____	
¼ / ¼ <i>SE</i> <i>SE</i>		Section <i>6</i>		Township <i>30 N</i>		Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W <i>27</i>	
Well Street Address _____				Original Well Owner _____			
Well City, Village or Town <i>Marquette</i>				Mailing Address of Present Owner <i>One Stanton Street</i>			
Subdivision Name _____				City of Present Owner <i>Marquette</i>		State <i>WI</i>	
Lot # _____				ZIP Code <i>54143</i>		_____	

Reason For Removal From Service <i>Complete Soil / Gw Sampling</i>	WI Unique Well # of Replacement Well _____
---	---

3. Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material	
<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Casing left in place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Was casing cut off below surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Original Construction Date (mm/dd/yyyy) <i>07/08/2015</i>		Required Method of Placing Sealing Material	
If a Well Construction Report is available, please attach. _____		<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <i>Gravity Poured</i>	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____		Sealing Materials	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb / gal. wt.) <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Chips	
Total Well Depth From Ground Surface (ft.) <i>15</i>		Casing Diameter (in.) <i>1</i>	
Lower Drillhole Diameter (in.) <i>6</i>		Casing Depth (ft.) <i>15</i>	
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		For Monitoring Wells and Monitoring Well Boreholes Only:	
If yes, to what depth (feet)? _____		<input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	
Depth to Water (feet) _____			

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
<i>Topsoil</i>	<i>Surface</i>	<i>0.5</i>	<i>0.10 ft³</i>	
<i>Bentonite</i>	<i>0.5</i>	<i>15</i>	<i>0.08 ft³</i>	

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <i>Kurt Depree - PSI</i>		License # _____		Date Received _____	
Date of Filling & Sealing (mm/dd/yyyy) <i>07/09/2015</i>		Noted By _____			
Street or Route <i>2740-F Packerland Drive</i>		Telephone Number <i>(920) 592-9540</i>		Comments _____	
City <i>Green Bay</i>		State <i>WI</i>		ZIP Code <i>54313</i>	
Signature of Person Doing Work <i>[Signature] (Stantec) for PSI</i>				Date Signed <i>8/4/15</i>	

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.

<input type="checkbox"/> Verification Only of Fill and Seal B200	Route to:		
	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Watershed/Wastewater	<input checked="" type="checkbox"/> Remediation/Redevelopment
	<input type="checkbox"/> Waste Management	<input type="checkbox"/> Other: _____	

1. Well Location Information				2. Facility / Owner Information			
County <i>Marquette</i>		WI Unique Well # of Removed Well _____		Hicap # _____		Facility Name <i>MCABI- Tyco Property</i>	
Latitude / Longitude (Degrees and Minutes) <i>45° 5' 42.4" N</i>		Method Code (see instructions) _____		Facility ID (FID or PWS) _____		License/Permit/Monitoring # _____	
<i>87° 37' 14.9" W</i>		Section <i>6</i>		Township <i>30 N</i>		Range <i>24</i>	
¼/¼ SE ¼ SE or Gov't Lot #		E <input checked="" type="checkbox"/> W <input type="checkbox"/>		Original Well Owner _____			
Well Street Address _____				Present Well Owner <i>Tyco</i>			
Well City, Village or Town <i>Marquette</i>				Mailing Address of Present Owner <i>One Stanton Street</i>			
Subdivision Name _____				Well ZIP Code <i>54143</i>		City of Present Owner <i>Marquette</i>	
Lot # _____				State <i>WI</i>		ZIP Code <i>54143</i>	

Reason For Removal From Service <i>Complete Soil/GW Sampling</i>		WI Unique Well # of Replacement Well _____		4. Pump, Liner, Screen, Casing & Sealing Material			
3. Well / Drillhole / Borehole Information				Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) <i>07/08/2015</i>		Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.		Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Borehole / Drillhole				Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Construction Type:				Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Drilled		<input type="checkbox"/> Driven (Sandpoint)		<input type="checkbox"/> Dug		Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Other (specify): _____						Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Formation Type:				If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Unconsolidated Formation		<input type="checkbox"/> Bedrock		If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			

Total Well Depth From Ground Surface (ft.) _____		Casing Diameter (in.) _____		Required Method of Placing Sealing Material			
Lower Drillhole Diameter (in.) <i>6</i>		Casing Depth (ft.) _____		<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown				<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <i>Gravity Poured</i>			
If yes, to what depth (feet)? _____		Depth to Water (feet) _____		Sealing Materials			
				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)			
				<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " "			
				<input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Chips			
				For Monitoring Wells and Monitoring Well Boreholes Only:			
				<input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout			
				<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> 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
<i>Topsoil</i>				Surface	<i>0.5</i>	<i>0.10ft³</i>	
<i>Bentonite</i>				<i>0.5</i>	<i>31</i>	<i>6.10ft³</i>	

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <i>Kurt Depcey - PSI</i>		License # _____	Date of Filling & Sealing (mm/dd/yyyy) <i>07/08/2015</i>	Date Received _____	Noted By _____
Street or Route <i>2740-F Packerland Drive</i>		Telephone Number <i>(920) 592-9540</i>		Comments _____	
City <i>Green Bay</i>	State <i>WI</i>	ZIP Code <i>54313</i>	Signature of Person Doing Work <i>[Signature]</i>	Date Signed <i>8/4/15</i>	

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.

<input type="checkbox"/> Verification Only of Fill and Seal B300	Route to:		
	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Watershed/Wastewater	<input checked="" type="checkbox"/> Remediation/Redevelopment
	<input type="checkbox"/> Waste Management	<input type="checkbox"/> Other: _____	

1. Well Location Information				2. Facility / Owner Information			
County <i>Marquette</i>		WI Unique Well # of Removed Well _____		Hicap # _____		Facility Name <i>MCABI- Tyco Property</i>	
Latitude / Longitude (Degrees and Minutes) <i>45° 5' 42.4" N</i>		Method Code (see instructions) _____		Facility ID (FID or PWS) _____		License/Permit/Monitoring # _____	
<i>87° 37' 14.9" W</i>		Section <i>6</i>		Township <i>30 N</i>		Range <i>24</i>	
¼¼ SE ¼ SE or Gov't Lot #		E <input checked="" type="checkbox"/> W <input type="checkbox"/>		Original Well Owner _____		Present Well Owner <i>Tyco</i>	
Well Street Address _____				Mailing Address of Present Owner <i>One Stanton Street</i>			
Well City, Village or Town <i>Marquette</i>		Well ZIP Code <i>54143</i>		City of Present Owner <i>Marquette</i>		State ZIP Code <i>WI 54143</i>	
Subdivision Name _____		Lot # _____					

Reason For Removal From Service <i>Complete Soil/GW Sampling</i>	WI Unique Well # of Replacement Well _____
---	---

3. Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) <i>07/09/2015</i>		Pump and piping removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach. _____		Liner(s) removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Borehole / Drillhole				Screen removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Construction Type:				Casing left in place?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Drilled		<input type="checkbox"/> Driven (Sandpoint)		Was casing cut off below surface?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Other (specify): _____				Did sealing material rise to surface?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Formation Type:				Did material settle after 24 hours?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Unconsolidated Formation		<input type="checkbox"/> Bedrock		If yes, was hole retopped?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Total Well Depth From Ground Surface (ft.)		Casing Diameter (in.)		If bentonite chips were used, were they hydrated with water from a known safe source?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Lower Drillhole Diameter (in.)		Casing Depth (ft.)		Required Method of Placing Sealing Material			
<i>6</i>				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
Was well annular space grouted?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <i>Gravity Poured</i>			
If yes, to what depth (feet)?		Depth to Water (feet)		Sealing Materials			
				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)			
				<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " "			
				<input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Chips			
				For Monitoring Wells and Monitoring Well Boreholes Only:			
				<input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout			
				<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> 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
<i>Topsoil</i>				Surface	<i>0.5</i>	<i>0.10ft³</i>	
<i>Bentonite</i>				<i>0.5</i>	<i>42</i>	<i>8.14ft³</i>	

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <i>Kurt Deprey - PSI</i>		License # _____	Date of Filling & Sealing (mm/dd/yyyy) <i>07/09/2015</i>	Date Received _____	Noted By _____
Street or Route <i>2740-F Packerland Drive</i>		Telephone Number <i>(920) 592-9540</i>		Comments _____	
City <i>Green Bay</i>	State <i>WI</i>	ZIP Code <i>54313</i>	Signature of Person Doing Work <i>[Signature]</i>	Date Signed <i>8/4/15</i>	

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

TW300

Route to:

Drinking Water

Watershed/Wastewater

Remediation/Redevelopment

Waste Management

Other:

1. Well Location Information

County Marquette	WI Unique Well # of Removed Well	Hicap #
Latitude / Longitude (Degrees and Minutes) 45° 5' 42.4" N 87° 37' 14.9" W	Method Code (see instructions)	
1/4 1/4 SE 1/4 SE	Section 6	Township 30 N
or Gov't Lot #	Range 24	<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well Street Address		
Well City, Village or Town Marquette	Well ZIP Code 54143	
Subdivision Name	Lot #	

2. Facility / Owner Information

Facility Name MCABI- Tyco Property		
Facility ID (FID or PWS)		
License/Permit/Monitoring #		
Original Well Owner		
Present Well Owner Tyco		
Mailing Address of Present Owner One Stanton Street		
City of Present Owner Marquette	State WI	ZIP Code 54143

Reason For Removal From Service
Complete Soil/GW Sampling

WI Unique Well # of Replacement Well

3. Well / Drillhole / Borehole Information

<input checked="" type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 07/09/2015	
<input type="checkbox"/> Water Well		
<input checked="" type="checkbox"/> Borehole / Drillhole		
If a Well Construction Report is available, please attach.		
Construction Type:		
<input checked="" type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)	<input type="checkbox"/> Dug
<input type="checkbox"/> Other (specify):		
Formation Type:		
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) 14.5	Casing Diameter (in.) 1	
Lower Drillhole Diameter (in.) 6	Casing Depth (ft.) 14.5	
Was well annular space grouted?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet) 11.85'	

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

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped
<input type="checkbox"/> Screened & Poured (Bentonite Chips)	<input checked="" type="checkbox"/> Other (Explain): Gravity Poured
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Bentonite-Sand Slurry "
<input type="checkbox"/> Concrete	<input type="checkbox"/> Bentonite Chips
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input checked="" type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout
<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> 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
Topsoil	Surface	0.5	0.10 ft ³	
Bentonite	0.5	14.5	0.08 ft ³	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing Kurt Deprey - PSI	License #	Date of Filling & Sealing (mm/dd/yyyy) 07/09/2015	DNR Use Only	
Street or Route 2740-F Packerland Drive	Telephone Number (920) 592-9540	Comments	Date Received	Noted By
City Green Bay	State WI	ZIP Code 54313	Signature of Person Doing Work Jeff Bee (stater) for PSI	Date Signed 8/4/15

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 B400

Route to:

Drinking Water Watershed/Wastewater Remediation/Redevelopment

Waste Management Other: _____

1. Well Location Information			2. Facility / Owner Information		
County Marquette	WI Unique Well # of Removed Well _____	Hicap # _____	Facility Name MCABI- Tyco Property		
Latitude / Longitude (Degrees and Minutes) 45° 5' 42.4"N		Method Code (see instructions) _____			
87° 37' 14.9"W		License/Permit/Monitoring # _____			
1/4 SE 1/4 SE	Section 6	Township 30 N	Range 24	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address _____			Original Well Owner _____		
Well City, Village or Town Marquette			Present Well Owner Tyco		
Subdivision Name _____			Mailing Address of Present Owner One Stanton Street		
Well ZIP Code 54143			City of Present Owner Marquette		
Lot # _____			State WI		
Reason For Removal From Service Complete Soil/GW Sampling			WI Unique Well # of Replacement Well _____		
ZIP Code 54143			ZIP Code 54143		

3. Well / Drillhole / Borehole Information

Monitoring Well Original Construction Date (mm/dd/yyyy)
07/08/2015

Water Well

Borehole / Drillhole 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.)

Lower Drillhole Diameter (in.) Casing Depth (ft.)
6

Was well annular space grouted? Yes No Unknown

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

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): **Gravity Poured**

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
Topsoil	Surface	0.5	0.10 ft ³	
Bentonite	0.5	34	6.57 ft ³	

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Kurt Depew - PSI	License # _____	Date of Filling & Sealing (mm/dd/yyyy) 07/08/2015	Date Received _____	Noted By _____	
Street or Route 2740-F Packerland Drive		Telephone Number (920) 592-9540		Comments _____	
City Green Bay	State WI	ZIP Code 54313	Signature of Person Doing Work JOB BEAL (stantee) for PSI		Date Signed 8/7/15

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 B500

Route to:

Drinking Water Watershed/Wastewater Remediation/Redevelopment

Waste Management Other: _____

1. Well Location Information			2. Facility / Owner Information		
County <i>Marquette</i>	WI Unique Well # of Removed Well _____	Hicap # _____	Facility Name <i>MCABI- Tyco Property</i>		
Latitude / Longitude (Degrees and Minutes) <i>45° 5' 42.9"N</i>		Method Code (see instructions) _____	Facility ID (FID or PWS) _____		
<i>87° 37' 14.9"W</i>		_____	License/Permit/Monitoring # _____		
1/4 1/4 SE or Gov't Lot #	Section <i>6</i>	Township <i>30 N</i>	Range <i>24</i>	Original Well Owner _____	
Well Street Address _____		Present Well Owner <i>Tyco</i>		Mailing Address of Present Owner <i>One Stanton Street</i>	
Well City, Village or Town <i>Marquette</i>		Well ZIP Code <i>54143</i>		City of Present Owner <i>Marquette</i>	
Subdivision Name _____		Lot # _____		State <i>WI</i>	ZIP Code <i>54143</i>

Reason For Removal From Service
Complete Soil/GW Sampling

WI Unique Well # of Replacement Well

3. Well / Drillhole / Borehole Information

Monitoring Well Original Construction Date (mm/dd/yyyy)
07/08/2015

Water Well

Borehole / Drillhole 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.)

Lower Drillhole Diameter (in.) Casing Depth (ft.)
6

Was well annular space grouted? Yes No Unknown

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

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): *Gravity Poured*

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 of Volume (circle one)	Mix Ratio or Mud Weight
<i>Topsoil</i>	Surface	<i>0.5</i>	<i>0.10 ft³</i>	
<i>Bentonite</i>	<i>0.5</i>	<i>32</i>	<i>6.18 ft³</i>	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing <i>Kurt Depey - PSI</i>	License # _____	Date of Filling & Sealing (mm/dd/yyyy) <i>07/08/2015</i>	DNR Use Only	
Street or Route <i>2740-F Packerland Drive</i>		Telephone Number <i>(920) 592-9540</i>	Date Received	Noted By
City <i>Green Bay</i>	State <i>WI</i>	ZIP Code <i>54313</i>	Signature of Person Doing Work <i>[Signature] (staniec) for PSI</i>	
			Date Signed <i>8/4/15</i>	

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.

<input type="checkbox"/> Verification Only of Fill and Seal B600	Route to:		
	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Watershed/Wastewater	<input checked="" type="checkbox"/> Remediation/Redevelopment
	<input type="checkbox"/> Waste Management	<input type="checkbox"/> Other: _____	

1. Well Location Information			2. Facility / Owner Information		
County <i>Marquette</i>	WI Unique Well # of Removed Well _____	Hicap # _____	Facility Name <i>MCABI- Tyco Property</i>		
Latitude / Longitude (Degrees and Minutes) <i>45° 5' 42.4" N</i>		Method Code (see instructions) _____	Facility ID (FID or PWS) _____		
<i>87° 37' 14.9" W</i>		_____	License/Permit/Monitoring # _____		
1/4 1/4 SE 1/4 SE or Gov't Lot #	Section <i>6</i>	Township <i>30 N</i>	Range <i>24</i>	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address _____			Original Well Owner _____		
Well City, Village or Town <i>Marquette</i>			Present Well Owner <i>Tyco</i>		
Subdivision Name _____			Mailing Address of Present Owner <i>One Stanton Street</i>		
Lot # _____			City of Present Owner <i>Marquette</i>		State <i>WI</i>
Well ZIP Code <i>54143</i>			ZIP Code <i>54143</i>		

Reason For Removal From Service <i>Complete Soil/GW Sampling</i>	WI Unique Well # of Replacement Well _____
---	---

3. Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material	
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <i>07/09/2015</i>	Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.	Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Borehole / Drillhole		Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Construction Type:		Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)	Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Other (specify): _____	<input type="checkbox"/> Dug	Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Formation Type:		Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock	If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Total Well Depth From Ground Surface (ft.) _____	Casing Diameter (in.) _____	If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Lower Drillhole Diameter (in.) <i>6</i>	Casing Depth (ft.) _____	Required Method of Placing Sealing Material	
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	Depth to Water (feet) _____	<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <i>Gravity Poured</i>	
		Sealing Materials	
		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
		<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " "	
		<input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Chips	
		For Monitoring Wells and Monitoring Well Boreholes Only:	
		<input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout	
		<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> 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
<i>Topsoil</i>	Surface	<i>0.5</i>	<i>0.10513</i>
<i>Bentonite</i>	<i>0.5</i>	<i>32</i>	<i>6.18813</i>

6. Comments

7. Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <i>Kurt Depew - PSI</i>	License # _____	Date of Filling & Sealing (mm/dd/yyyy) <i>07/09/2015</i>	Date Received _____	Noted By _____
Street or Route <i>2740-F Packerland Drive</i>		Telephone Number <i>(920) 592-9540</i>	Comments _____	
City <i>Green Bay</i>	State <i>WI</i>	ZIP Code <i>54313</i>	Signature of Person Doing Work <i>[Signature]</i>	Date Signed <i>8/4/15</i>

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

TW600

Route to:

Drinking Water

Watershed/Wastewater

Remediation/Redevelopment

Waste Management

Other:

1. Well Location Information

County Macinette	WI Unique Well # of Removed Well	Hicap #
Latitude / Longitude (Degrees and Minutes) 45° 05' 42.4"N 87° 37' 14.9"W	Method Code (see instructions)	
1/4 1/4 SE 1/4 SE	Section 6	Township 30 N
or Gov't Lot #	Range 24	<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well Street Address		
Well City, Village or Town Macinette		Well ZIP Code 54143
Subdivision Name		Lot #

2. Facility / Owner Information

Facility Name MCABI- Tyco Property
Facility ID (FID or PWS)
License/Permit/Monitoring #
Original Well Owner
Present Well Owner Tyco
Mailing Address of Present Owner One Stanton Street
City of Present Owner Macinette
State WI
ZIP Code 54143

Reason For Removal From Service Complete Soil/GW Sampling	WI Unique Well # of Replacement Well
---	--------------------------------------

3. Well / Drillhole / Borehole Information

<input checked="" type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 07/10/2015
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.
<input checked="" type="checkbox"/> Borehole / Drillhole	
Construction Type:	
<input checked="" type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)
<input type="checkbox"/> Other (specify):	<input type="checkbox"/> Dug
Formation Type:	
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock
Total Well Depth From Ground Surface (ft.) 12	Casing Diameter (in.) 1
Lower Drillhole Diameter (in.) 6	Casing Depth (ft.) 12
Was well annular space grouted?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, to what depth (feet)?	Depth to Water (feet) 7.40'

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

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped
<input type="checkbox"/> Screened & Poured (Bentonite Chips)	<input checked="" type="checkbox"/> Other (Explain): Gravity Poured
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Clay-Sand Slurry (11 lb /gal. wt.)
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Bentonite-Sand Slurry " "
<input type="checkbox"/> Concrete	<input type="checkbox"/> Bentonite Chips
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input checked="" type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout
<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> 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
Topsoil	Surface	0.5	0.125 ³	
Bentonite	0.5	12	0.065 ³	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing Kurt Depew - PSI	License #	Date of Filling & Sealing (mm/dd/yyyy) 07/10/2015	DNR Use Only	
Street or Route 2740-F Packerland Drive	Telephone Number (920) 592-9540	Comments	Date Received	Noted By
City Green Bay	State WI	ZIP Code 54313	Signature of Person Doing Work Jeff Bee (stake) for PSI	Date Signed 8/4/15

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 3700

Route to:

Drinking Water Watershed/Wastewater Remediation/Redevelopment

Waste Management Other: _____

1. Well Location Information			2. Facility / Owner Information		
County Marquette	WI Unique Well # of Removed Well _____	Hicap # _____	Facility Name MCABI- Tyco Property		
Latitude / Longitude (Degrees and Minutes) 45° - 5' - 42.9"N 87° - 37' - 14.9"W		Method Code (see instructions) _____	Facility ID (FID or PWS) _____		
License/Permit/Monitoring # _____		Original Well Owner _____			
1/4 / 1/4 SE SE Section or Gov't Lot #		Section 6	Township 30 N	Range 24	<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well Street Address _____			Present Well Owner Tyco		
Well City, Village or Town Marquette		Mailing Address of Present Owner One Stanton Street			
Subdivision Name _____		Well ZIP Code 54143	City of Present Owner Marquette		State WI ZIP Code 54143
Reason For Removal From Service Complete Soil/GW Sampling		WI Unique Well # of Replacement Well _____			

3. Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material	
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 07/09/2015	Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach. _____	Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Borehole / Drillhole		Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Construction Type:		Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)	Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Other (specify): _____	<input type="checkbox"/> Dug	Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Formation Type:		Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock	If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Total Well Depth From Ground Surface (ft.) _____	Casing Diameter (in.) _____	If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Lower Drillhole Diameter (in.) 6	Casing Depth (ft.) _____	Required Method of Placing Sealing Material	
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	Depth to Water (feet) _____	<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
If yes, to what depth (feet)? _____		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): Gravity Poured	

5. Material Used To Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Topsail		Surface	0.5	0.10 ft ³	
Bentonite		0.5	31	5.98 ft ³	

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Kurt Depey - PSI	License # _____	Date of Filling & Sealing (mm/dd/yyyy) 07/09/2015	Date Received _____	Noted By _____	
Street or Route 2740-F Packerland Drive		Telephone Number (920) 592-9540		Comments _____	
City Green Bay	State WI	ZIP Code 54313	Signature of Person Doing Work [Signature] (Stanley) for PSI		Date Signed 8/4/15

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

B800

Route to:

Drinking Water

Watershed/Wastewater

Remediation/Redevelopment

Waste Management

Other: _____

1. Well Location Information

County: Marquette WI Unique Well # of Removed Well: _____ Hicap #: _____

Latitude / Longitude (Degrees and Minutes): 45° 5' 42.4" N
87° 37' 14.9" W Method Code (see instructions): _____

Section: 6 Township: 30 N Range: 24 E W

Well Street Address: _____

Well City, Village or Town: Marquette Well ZIP Code: 54143

Subdivision Name: _____ Lot #: _____

Reason For Removal From Service: Complete Soil/GW Sampling WI Unique Well # of Replacement Well: _____

3. Well / Drillhole / Borehole Information

- Monitoring Well
- Water Well
- Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 07/09/2015

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.): _____

Lower Drillhole Diameter (in.): 6 Casing Depth (ft.): _____

Was well annular space grouted? Yes No Unknown

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

2. Facility / Owner Information

Facility Name: MCABI- Tyco Property

Facility ID (FID or PWS): _____

License/Permit/Monitoring #: _____

Original Well Owner: _____

Present Well Owner: Tyco

Mailing Address of Present Owner: One Stanton Street

City of Present Owner: Marquette State: WI ZIP Code: 54143

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): Gravity Poured

Sealing Materials

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

For Monitoring Wells and Monitoring Well Boreholes Only:

- Bentonite Chips
- Granular Bentonite
- Bentonite - Cement Grout
- 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
Surface	0.5	0.10513	

6. Comments

7. Supervision of Work

Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)	Date Received	Noted By
<u>Kurt Deprey - PSI</u>		<u>07/09/2015</u>		
Street or Route	Telephone Number	Comments		
<u>2740-F Packerland Drive</u>	<u>(920) 592-9540</u>			
City	State	ZIP Code	Signature of Person Doing Work	Date Signed
<u>Green Bay</u>	<u>WI</u>	<u>54313</u>	<u>[Signature]</u> for PSI	<u>8/4/15</u>

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

TW 800

Route to:

Drinking Water

Watershed/Wastewater

Remediation/Redevelopment

Waste Management

Other: _____

1. Well Location Information

County: Macinette WI Unique Well # of Removed Well: _____ Hicap #: _____

Latitude / Longitude (Degrees and Minutes) Method Code (see instructions)
45° 5' 42.4"N
87° 37' 14.9"W

1/4 1/4 SE 1/4 SE Section: 6 Township: 30 N Range: 24 E W
or Gov't Lot # _____

Well Street Address _____

Well City, Village or Town: Macinette Well ZIP Code: 54143

Subdivision Name _____ Lot # _____

Reason For Removal From Service: Complete Soil/GW Sampling WI Unique Well # of Replacement Well: _____

3. Well / Drillhole / Borehole Information

- Monitoring Well
 Water Well
 Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 07/10/2015
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.): 14 Casing Diameter (in.): 1

Lower Drillhole Diameter (in.): 6 Casing Depth (ft.): 14

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet): 4.0'

2. Facility / Owner Information

Facility Name: MCABI- Tyco Property

Facility ID (FID or PWS) _____

License/Permit/Monitoring # _____

Original Well Owner _____

Present Well Owner: Tyco

Mailing Address of Present Owner: One Stanton Street

City of Present Owner: Macinette State: WI ZIP Code: 54143

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): Gravity Poured

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
Surface	0.5	0.10 ft ³	
0.5	14	0.08 ft ³	

6. Comments

7. Supervision of Work

Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing: <u>Kurt Depree - PSI</u>	License #: _____	Date of Filling & Sealing (mm/dd/yyyy): <u>07/10/2015</u>	Date Received: _____	Noted By: _____	
Street or Route: <u>0 2740-F Packerland Drive</u>	Telephone Number: <u>(920) 592-9540</u>	Comments: _____			
City: <u>Green Bay</u>	State: <u>WI</u>	ZIP Code: <u>54313</u>	Signature of Person Doing Work: <u>[Signature]</u>	Date Signed: <u>8/4/15</u>	

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 8900

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

1. Well Location Information				2. Facility / Owner Information			
County <i>Marquette</i>		WI Unique Well # of Removed Well _____		Hicap # _____		Facility Name <i>MCABI- Tyco Property</i>	
Latitude / Longitude (Degrees and Minutes) <i>45° 5' 42.4" N</i>		Method Code (see instructions) _____		Facility ID (FID or PWS) _____		License/Permit/Monitoring # _____	
<i>87° 37' 14.9" W</i>		Section <i>6</i>		Township <i>30 N</i>		Range <i>24</i>	
¼¼ SE ¼ SE or Gov't Lot #		E <input checked="" type="checkbox"/> W <input type="checkbox"/>		Original Well Owner <i>Tyco</i>		Present Well Owner <i>Tyco</i>	
Well Street Address _____				Mailing Address of Present Owner <i>One Stanton Street</i>			
Well City, Village or Town <i>Marquette</i>				Well ZIP Code <i>54143</i>			
Subdivision Name _____				City of Present Owner <i>Marquette</i>		State <i>WI</i>	
Reason For Removal From Service <i>Complete Soil/GW Sampling</i>				WI Unique Well # of Replacement Well _____		ZIP Code <i>54143</i>	

3. Well / Drillhole / Borehole Information

Monitoring Well Water Well Borehole / Drillhole

Original Construction Date (mm/dd/yyyy)
07/09/2015

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.) _____

Lower Drillhole Diameter (in.) *6* Casing Depth (ft.) _____

Was well annular space grouted? Yes No Unknown

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

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): *Gravity Poured*

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 of Volume (circle one)	Mix Ratio or Mud Weight
<i>Tape: 1</i>	Surface	<i>0.5</i>	<i>0.70 ft³</i>	
<i>Bentonite</i>	<i>0.5</i>	<i>33.5</i>	<i>6.5 ft³</i>	

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <i>Kurt Depree - PSI</i>		License # _____	Date of Filling & Sealing (mm/dd/yyyy) <i>07/09/2015</i>	Date Received _____	Noted By _____
Street or Route <i>2740-F Packerland Drive</i>		Telephone Number <i>(920) 592-9540</i>		Comments _____	
City <i>Green Bay</i>	State <i>WI</i>	ZIP Code <i>54313</i>	Signature of Person Doing Work <i>Jeff Beal (Stantec) for PSI</i>	Date Signed <i>8/9/15</i>	

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 31000

Route to:

Drinking Water Watershed/Wastewater Remediation/Redevelopment

Waste Management Other: _____

1. Well Location Information				2. Facility / Owner Information			
County <i>Marquette</i>		WI Unique Well # of Removed Well _____		Hicap # _____		Facility Name <i>MCABI- Tyco Property</i>	
Latitude / Longitude (Degrees and Minutes) <i>45° 5' 42.9" N</i>		Method Code (see instructions) _____		Facility ID (FID or PWS) _____		License/Permit/Monitoring # _____	
<i>87° 37' 14.9" W</i>		Section <i>6</i>		Township <i>30 N</i>		Range <i>24</i> <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address _____		Original Well Owner <i>Tyco</i>		Present Well Owner <i>Tyco</i>		Mailing Address of Present Owner <i>One Stanton Street</i>	
Well City, Village or Town <i>Marquette</i>		Well ZIP Code <i>54143</i>		City of Present Owner <i>Marquette</i>		State <i>WI</i>	
Subdivision Name _____		Lot # _____		ZIP Code <i>54143</i>		_____	
Reason For Removal From Service <i>Complete Soil/GW Sampling</i>		WI Unique Well # of Replacement Well _____		_____			

3. Well / Drillhole / Borehole Information

Monitoring Well Water Well Borehole / Drillhole

Original Construction Date (mm/dd/yyyy)
07/09/2015

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.) _____

Lower Drillhole Diameter (in.) *6* Casing Depth (ft.) _____

Was well annular space grouted? Yes No Unknown

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

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): *Gravity Poured*

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
<i>Topsail</i>				Surface	<i>0.5</i>	<i>0.10ft³</i>	
<i>Bentonite</i>				<i>0.5</i>	<i>29.5</i>	<i>5.7ft³</i>	

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <i>Kurt Deperny - PSI</i>		License # _____	Date of Filling & Sealing (mm/dd/yyyy) <i>07/09/2015</i>	Date Received _____	Noted By _____
Street or Route <i>2740-F Packerland Drive</i>		Telephone Number <i>(920) 592-9540</i>		Comments _____	
City <i>Green Bay</i>	State <i>WI</i>	ZIP Code <i>54313</i>	Signature of Person Doing Work <i>[Signature]</i>	Date Signed <i>8/4/15</i>	

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 B1100

Route to:

Drinking Water Watershed/Wastewater Remediation/Redevelopment

Waste Management Other: _____

1. Well Location Information			2. Facility / Owner Information		
County <i>Macinette</i>	WI Unique Well # of Removed Well _____	Hicap # _____	Facility Name <i>MCABI- Tyco Property</i>		
Latitude / Longitude (Degrees and Minutes) <i>45 ° 5' 42.9 "N</i> <i>87 ° 37' 14.9 "W</i>		Method Code (see instructions) _____			
1/4 1/4 <i>SE</i> 1/4 <i>SE</i> Section <i>6</i> Township <i>30 N</i> Range <i>24</i> <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Original Well Owner _____			
Well Street Address _____			Present Well Owner <i>Tyco</i>		
Well City, Village or Town <i>Macinette</i>			Mailing Address of Present Owner <i>One Stanton Street</i>		
Subdivision Name _____			City of Present Owner <i>Macinette</i>		State <i>WI</i> ZIP Code <i>54143</i>

Reason For Removal From Service *Complete Soil/GW Sampling* WI Unique Well # of Replacement Well _____

3. Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material	
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <i>07/09/2015</i>	Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.	Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Borehole / Drillhole		Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____		Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Total Well Depth From Ground Surface (ft) _____	Casing Diameter (in) _____	Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Lower Drillhole Diameter (in) <i>6</i>	Casing Depth (ft) _____	Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	Depth to Water (feet) _____	If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
if yes, to what depth (feet)? _____		If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
<i>Topsoil</i>	Surface	<i>0.5</i>	<i>0.12 ft³</i>	
<i>Bentonite</i>	<i>0.5</i>	<i>27</i>	<i>5.2 ft³</i>	

6. Comments

7. Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <i>Kurt Deprey - PSI</i>	License # _____	Date of Filling & Sealing (mm/dd/yyyy) <i>07/09/2015</i>	Date Received _____	Noted By _____
Street or Route <i>2740-F Packerland Drive</i>		Telephone Number <i>(920) 592-9540</i>	Comments _____	
City <i>Green Bay</i>	State <i>WI</i>	ZIP Code <i>54313</i>	Signature of Person Doing Work <i>[Signature] (Stantec) for PSI</i>	Date Signed <i>8/4/15</i>

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.

<input type="checkbox"/> Verification Only of Fill and Seal TW1100	Route to:		
	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Watershed/Wastewater	<input checked="" type="checkbox"/> Remediation/Redevelopment
	<input type="checkbox"/> Waste Management	<input type="checkbox"/> Other: _____	

1. Well Location Information				2. Facility / Owner Information			
County <i>Marquette</i>		WI Unique Well # of Removed Well _____		Hicap # _____		Facility Name <i>MCABI- Tyco Property</i>	
Latitude / Longitude (Degrees and Minutes) <i>45° 5' 42.9" N</i>		Method Code (see instructions) _____		Facility ID (FID or PWS) _____		License/Permit/Monitoring # _____	
<i>87° 37' 14.9" W</i>		Section <i>6</i>		Township <i>30 N</i>		Range <i>24 E</i>	
Well Street Address _____		Original Well Owner _____		Present Well Owner <i>Tyco</i>		Mailing Address of Present Owner <i>One Stanton Street</i>	
Well City, Village or Town <i>Marquette</i>		Well ZIP Code <i>54143</i>		City of Present Owner <i>Marquette</i>		State <i>WI</i>	
Subdivision Name _____		Lot # _____		ZIP Code <i>54143</i>		_____	

Reason For Removal From Service <i>Complete Soil/GW Sampling</i>		WI Unique Well # of Replacement Well _____		4. Pump, Liner, Screen, Casing & Sealing Material			
3. Well / Drillhole / Borehole Information		Original Construction Date (mm/dd/yyyy) <i>07/09/2015</i>		Pump and piping removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Monitoring Well		If a Well Construction Report is available, please attach. _____		Liner(s) removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Water Well				Screen removed?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Borehole / Drillhole				Casing left in place?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Construction Type:				Was casing cut off below surface?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Drilled		<input type="checkbox"/> Driven (Sandpoint)		Did sealing material rise to surface?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Other (specify): _____				Did material settle after 24 hours?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
				If yes, was hole retopped?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
				If bentonite chips were used, were they hydrated with water from a known safe source?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

Formation Type:		Required Method of Placing Sealing Material	
<input checked="" type="checkbox"/> Unconsolidated Formation		<input type="checkbox"/> Conductor Pipe-Gravity	
<input type="checkbox"/> Bedrock		<input type="checkbox"/> Conductor Pipe-Pumped	
Total Well Depth From Ground Surface (ft.) <i>10</i>		<input type="checkbox"/> Screened & Poured (Bentonite Chips)	
Casing Diameter (in.) <i>1</i>		<input checked="" type="checkbox"/> Other (Explain): <i>Gravity Poured</i>	
Lower Drillhole Diameter (in.) <i>6</i>		Sealing Materials	
Casing Depth (ft.) <i>10</i>		<input type="checkbox"/> Neat Cement Grout	
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
If yes, to what depth (feet)? <i>5.11</i>		<input type="checkbox"/> Sand-Cement (Concrete) Grout	
		<input type="checkbox"/> Bentonite-Sand Slurry " "	
		<input type="checkbox"/> Concrete	
		<input type="checkbox"/> Bentonite Chips	
		For Monitoring Wells and Monitoring Well Boreholes Only:	
		<input checked="" type="checkbox"/> Bentonite Chips	
		<input type="checkbox"/> Bentonite - Cement Grout	
		<input type="checkbox"/> Granular Bentonite	
		<input type="checkbox"/> Bentonite - Sand Slurry	

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	<i>0.5</i>	<i>0.10 ft³</i>	
	<i>0.5</i>	<i>10</i>	<i>0.05 ft³</i>

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <i>Kurt Depcey - PSI</i>		License # _____		Date of Filling & Sealing (mm/dd/yyyy) <i>07/10/2015</i>	
Street or Route <i>2740-F Packerland Drive</i>		Telephone Number <i>(920) 592-9540</i>		Date Received _____	
City <i>Green Bay</i>		State <i>WI</i>		Noted By _____	
ZIP Code <i>54313</i>		Signature of Person Doing Work <i>Jeff Beech (Stantec) for PSI</i>		Comments _____	
				Date Signed <i>8/4/15</i>	

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 bur au. See instructions on reverse for more information.

Verification Only of Fill and Seal 31200

Route to:

Drinking Water Watershed/Wastewater Remediation/Redevelopment

Waste Management Other: _____

1. Well Location Information				2. Facility / Owner Information			
County <i>Marquette</i>		WI Unique Well # of Removed Well _____		Hicap # _____		Facility Name <i>MCABI- Tyco Property</i>	
Latitude / Longitude (Degrees and Minutes) <i>45° 5' 42.4" N</i>		Method Code (see instructions) _____		Facility ID (FID or PWS) _____		License/Permit/Monitoring # _____	
<i>87° 37' 14.9" W</i>		_____		Original Well Owner _____		Present Well Owner <i>Tyco</i>	
1/4 1/4 <i>SE</i> 1/4 <i>SE</i>		Section <i>6</i>		Township <i>30 N</i>		Range <i>24</i> <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
or Gov't Lot # _____		Well Street Address _____		Mailing Address of Present Owner <i>One Stanton Street</i>		City of Present Owner <i>Marquette</i> State <i>WI</i> ZIP Code <i>54143</i>	
Well City, Village or Town <i>Marquette</i>		Well ZIP Code <i>54143</i>		Subdivision Name _____		Lot # _____	
Reason For Removal From Service <i>soil Sampling Completed</i>		WI Unique Well # of Replacement Well _____		City of Present Owner <i>Marquette</i>		State <i>WI</i> ZIP Code <i>54143</i>	

3. Well / Drillhole / Borehole Information

Monitoring Well Original Construction Date (mm/dd/yyyy)
07/08/2015

Water Well

Borehole / Drillhole If a Well Construction Report is available, please attach.

Construction Type:

Drilled Driven (Sandpoint) Dug

Other (specify): *Hand Auger*

Formation Type:

Unconsolidated Formation Bedrock

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

Lower Drillhole Diameter (in.) Casing Depth (ft.)
3

Was well annular space grouted? Yes No Unknown

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

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): *Gravity Poured*

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
Surface	<i>6</i>	<i>0.29 ft³</i>	

Bentonite

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <i>Stantec</i>		License # _____	Date of Filling & Sealing (mm/dd/yyyy) <i>07/08/2015</i>	Date Received _____	Noted By _____
Street or Route <i>1165 Schearing Rd</i>		Telephone Number <i>(920) 592-8400</i>		Comments _____	
City <i>De Pere</i>	State <i>WI</i>	ZIP Code <i>54115</i>	Signature of Person Doing Work <i>[Signature]</i>	Date Signed <i>8/4/15</i>	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, 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 B 1300

Route to DNR Bureau:

Drinking Water Watershed/Wastewater Remediation/Redevelopment

Waste Management Other: _____

1. Well Location Information				2. Facility / Owner Information			
County <i>Marinette</i>		WI Unique Well # of Removed Well		Hicap #		Facility Name <i>MCAB-Tyco Redevelopment Site</i>	
Latitude / Longitude (see instructions) <i>45.09520° N</i>		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS)	
<i>87.62079° W</i>		Section <i>6</i>		Township <i>30 N</i>		License/Permit/Monitoring #	
or Gov't Lot #		Range <i>24</i>		<input checked="" type="checkbox"/> E <input type="checkbox"/> W		Original Well Owner <i>MCABI</i>	
Well Street Address <i>1310-1330 Main Street</i>				Present Well Owner <i>MCABI</i>			
Well City, Village or Town <i>Marinette</i>				Mailing Address of Present Owner <i>1926 Hall Avenue</i>			
Subdivision Name				Lot #		City of Present Owner <i>Marinette</i>	
						State <i>WI</i>	
						ZIP Code <i>54143</i>	

Reason for Removal from Service: *End of Sampling* WI Unique Well # of Replacement Well: _____

3. Filled & Sealed Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Original Construction Date (mm/dd/yyyy) <i>10/07/2015</i>		Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
If a Well Construction Report is available, please attach.		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <i>Gravity</i>	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____		Sealing Materials: <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		For Monitoring Wells and Monitoring Well Boreholes Only: <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	
Total Well Depth From Ground Surface (ft.) <i>4'</i>		Casing Diameter (in.) <i>-</i>	
Lower Drillhole Diameter (in.) <i>2"</i>		Casing Depth (ft.) <i>-</i>	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet)	

5. Material Used to Fill Well / Drillhole			
From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
<i>Bentonite</i>	<i>Surface</i>	<i>4ft</i>	<i>0.087 ft³</i>

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <i>PSI</i>		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) <i>10/07/2015</i>	Date Received	Noted By
Street or Route <i>2740 - F Packerland Drive</i>			Telephone Number <i>(920) 592-9540</i>	Comments	
City <i>Green Bay</i>	State <i>WI</i>	ZIP Code <i>54313</i>	Signature of Person Doing Work <i>[Signature]</i>	Date Signed <i>4-24-17</i>	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, 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.

Route to DNR Bureau:

Verification Only of Fill and Seal

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

B1400

1. Well Location Information **2. Facility / Owner Information**

County: Marinette WI Unique Well # of Removed Well: _____ Hicap #: _____

Latitude / Longitude (see instructions):
45.09520° N Format Code: DD Method Code: GPS008
87.62079° W DDM SCR002
 OTH001

1/4 SE 1/4 SE Section: 6 Township: 30 N Range: 24 E W

Well Street Address: 1310-1330 Main Street

Well City, Village or Town: Marinette Well ZIP Code: 54143

Subdivision Name: _____ Lot #: _____

Facility Name: MCAB-Tyco Redevelopment Site

Facility ID (FID or PWS): _____

License/Permit/Monitoring #: _____

Original Well Owner: MCABI

Present Well Owner: MCABI

Mailing Address of Present Owner: 1926 Hall Avenue

City of Present Owner: Marinette State: WI ZIP Code: 54143

Reason for Removal from Service: End of Sample WI Unique Well # of Replacement Well: _____

3. Filled & Sealed Well / Drillhole / Borehole Information

Monitoring Well Original Construction Date (mm/dd/yyyy): 10/07/2015
 Water Well
 Borehole / Drillhole 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.): 4' Casing Diameter (in.): _____

Lower Drillhole Diameter (in.): 2" Casing Depth (ft.): _____

Was well annular space grouted? Yes No Unknown

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

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

Pump and piping removed? Yes No N/A
 Liner(s) removed? Yes No N/A
 Liner(s) perforated? 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): Gravity

Sealing Materials

Neat Cement Grout Concrete
 Sand-Cement (Concrete) Grout 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
Surface	4ft	0.087 ft ³	

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing: <u>PSI</u>	License #: _____	Date of Filling & Sealing or Verification (mm/dd/yyyy): <u>10/07/2015</u>	Date Received: _____	Noted By: _____
Street or Route: <u>2740 - F Packerland Drive</u>	Telephone Number: <u>(920) 592-9540</u>	Comments: _____		
City: <u>Green Bay</u>	State: <u>WI</u>	ZIP Code: <u>54313</u>	Signature of Person Doing Work: <u>[Signature]</u>	Date Signed: <u>9-24-17</u>

MW1500

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

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information

County: Marinette WI Unique Well # of Removed Well: _____ Hicap #: _____

Latitude / Longitude (Degrees and Minutes):
45° 05' 42" N
87° 37' 15" W

Method Code (see instructions): _____

1/4 SE 1/4 SE Section: 6 Township: 30 N Range: 24 E W

or Gov't Lot #: _____

Well Street Address: 1310-1330 Main Street

Well City, Village or Town: Marinette Well ZIP Code: 54143

Subdivision Name: _____ Lot #: _____

2. Facility / Owner Information

Facility Name: MCABI-Tyco Redevelopment Site

Facility ID (FID or PWS): _____

License/Permit/Monitoring #: _____

Original Well Owner: MCABI

Present Well Owner: MCABI

Mailing Address of Present Owner: 1926 Hall Avenue

City of Present Owner: Marinette State: WI ZIP Code: 54143

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

3. Well / Drillhole / Borehole Information

Reason For Removal From Service: End of Sampling WI Unique Well # of Replacement Well: _____

Monitoring Well Original Construction Date (mm/dd/yyyy): 10/07/15
 Water Well
 Borehole / Drillhole 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.): 14.19' Casing Diameter (in.): 2"

Lower Drillhole Diameter (in.): 6" Casing Depth (ft.): 14.19

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? Depth to Water (feet): 6.69

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

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
Soil	Surface	0.5 ft	0.011 ft ³	
Bentonite	0.5 ft	14.19 ft	0.299 ft ³	

6. Comments

7. Supervision of Work

Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)	Date Received	Noted By	
<u>Evan Weber / Stantec</u>		<u>10/10/2016</u>			
Street or Route	Telephone Number	Comments			
<u>1165 Scheuring Road</u>	<u>(920) 592-8400</u>				
City	State	ZIP Code	Signature of Person Doing Work	Date Signed	
<u>De Pere</u>	<u>WI</u>	<u>54115</u>	<u>Evan J. Weber</u>	<u>10/11/16</u>	

MW1600

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

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County: Marinette WI Unique Well # of Removed Well: _____ Hicap #: _____

Latitude / Longitude (Degrees and Minutes):
45° 05' 42" N Method Code (see instructions): _____
87° 37' 15" W

1/4 SE 1/4 SE Section: 6 Township: 30 N Range: 24 E W
 or Gov't Lot # _____

Well Street Address: 1310-1330 Main Street

Well City, Village or Town: Marinette Well ZIP Code: 54143

Subdivision Name: _____ Lot #: _____

Facility Name: MCABI-Tyco Redevelopment Site

Facility ID (FID or PWS): _____

License/Permit/Monitoring #: _____

Original Well Owner: MCABI

Present Well Owner: MCABI

Mailing Address of Present Owner: 1926 Hall Avenue

City of Present Owner: Marinette State: WI ZIP Code: 54143

Reason For Removal From Service: End of Sampling WI Unique Well # of Replacement Well: _____

3. Well / Drillhole / Borehole Information

Monitoring Well Original Construction Date (mm/dd/yyyy): 10/07/15
 Water Well If a Well Construction Report is available, please attach.
 Borehole / Drillhole

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

Formation Type:
 Unconsolidated Formation Bedrock

Total Well Depth From Ground Surface (ft.): 14.27 Casing Diameter (in.): 2"

Lower Drillhole Diameter (in.): 6" Casing Depth (ft.): 14.27

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet): 5.72

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): Gravity

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
Soil	Surface	0.5 ft	0.011 ft ³	
Bentonite	0.5 ft	14.27 ft	0.300 ft ³	

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing: Evan Weber / Stantec License #: _____ Date of Filling & Sealing (mm/dd/yyyy): 10/10/2016 Date Received: _____ Noted By: _____

Street or Route: 1165 Scheuring Road Telephone Number: (920) 592-8400 Comments: _____

City: De Pere State: WI ZIP Code: 54115 Signature of Person Doing Work: Evan J. Weber Date Signed: 10/11/16

MW1700

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. Per onally 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

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information

County: Marinette WI Unique Well # of Removed Well: _____ Hicap #: _____

Latitude / Longitude (Degrees and Minutes): 45° 05' 42" N Method Code (see instructions): _____
87° 37' 15" W

1/4 SE or Gov't Lot #: _____ 1/4 SW: _____ Section: 6 Township: 30 N Range: 24 E W

Well Street Address: 1310-1330 Main Street

Well City, Village or Town: Marinette Well ZIP Code: 54143

Subdivision Name: _____ Lot #: _____

Reason For Removal From Service: End of Sampling WI Unique Well # of Replacement Well: _____

2. Facility / Owner Information

Facility Name: MCABI-Tyco Redevelopment Site

Facility ID (FID or PWS): _____

License/Permit/Monitoring #: _____

Original Well Owner: MCABI

Present Well Owner: MCABI

Mailing Address of Present Owner: 1926 Hall Avenue

City of Present Owner: Marinette State: WI ZIP Code: 54143

3. Well / Drillhole / Borehole Information

Monitoring Well Water Well Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/07/15

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.): 14.13 Casing Diameter (in.): 2"

Lower Drillhole Diameter (in.): 6" Casing Depth (ft.): 14.13

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet): 3.32

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): Gravity

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

For Monitoring Wells and Monitoring Well Boreholes Only: Bentonite Chips Granular Bentonite Bentonite - Cement Grout 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
Soil	Surface	0.5ft	0.011 ft ³	
Bentonite	0.5ft	14.13 ft	0.297 ft ³	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Evan Weber / Stantec License #: _____ Date of Filling & Sealing (mm/dd/yyyy): 10/10/2016

Street or Route: 1165 Scheuring Road Telephone Number: (920) 592-8400

City: De Pere State: WI ZIP Code: 54115

Date Received: _____ Noted By: _____

Comments: _____

Signature of Person Doing Work: Evan J. Weber Date Signed: 10/11/16

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 hs. 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

Route to:

Drinking Water

Watershed/Wastewater

Remediation/Redevelopment

Waste Management

Other: _____

1. Well Location Information

County <u>Marinette</u>	WI Unique Well # of Removed Well _____	Hicap # _____
Latitude / Longitude (Degrees and Minutes) <u>45° 05' 42" N</u> <u>87° 37' 15" W</u>		Method Code (see instructions) _____
$\frac{1}{4}$ or Gov't Lot # <u>1/4 SE</u>	Section <u>6</u>	Township <u>30 N</u>
		Range <u>24</u>
		<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well Street Address <u>1310-1330 Main Street</u>		
Well City, Village or Town <u>Marinette</u>		Well ZIP Code <u>54143</u>
Subdivision Name _____		Lot # _____
Reason For Removal From Service <u>End of Sampling</u>		WI Unique Well # of Replacement Well _____

2. Facility / Owner Information

Facility Name <u>MCABI-Tyco Redevelopment Site</u>
Facility ID (FID or PWS) _____
License/Permit/Monitoring # _____
Original Well Owner <u>MCABI</u>
Present Well Owner <u>MCABI</u>
Mailing Address of Present Owner <u>1926 Hall Avenue</u>
City of Present Owner <u>Marinette</u>
State <u>WI</u>
ZIP Code <u>54143</u>

3. Well / Drillhole / Borehole Information

<input checked="" type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <u>10/07/15</u>
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach. _____
<input type="checkbox"/> Borehole / Drillhole	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) <u>13.20</u>	Casing Diameter (in.) <u>2"</u>
Lower Drillhole Diameter (in.) <u>6"</u>	Casing Depth (ft.) <u>13.20</u>
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)? _____	Depth to Water (feet) <u>3.09</u>

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

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped		
<input type="checkbox"/> Screened & Poured (Bentonite Chips)	<input checked="" type="checkbox"/> Other (Explain): <u>Gravity</u>		
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)		
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Bentonite-Sand Slurry " "		
<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Bentonite Chips		
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input checked="" type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout		
<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> 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
<u>Soil</u>	<u>Surface</u>	<u>0.5 ft</u>	<u>0.011 ft³</u>	
<u>Bentonite</u>	<u>0.5 ft</u>	<u>ft</u>	<u>0.277 ft³</u>	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing <u>Evan Weber / Stantec</u>	License # _____	Date of Filling & Sealing (mm/dd/yyyy) <u>10/10/16</u>	DNR Use Only	
Street or Route <u>1165 Scheuring Road</u>		Telephone Number <u>(920) 592-8400</u>	Date Received _____	Noted By _____
City <u>De Pere</u>	State <u>WI</u>	ZIP Code <u>54115</u>	Signature of Person Doing Work <u>Evan J. Weber</u>	Date Signed <u>10/11/16</u>

MW2000

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, 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

Route to DNR Bureau:

Drinking Water Watershed/Wastewater Remediation/Redevelopment

Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County <i>Marinette</i>	WI Unique Well # of Removed Well	Hicap #	Facility Name <i>MCABI - Tyco Redevelopment Site</i>
Latitude / Longitude (see instructions) <i>45° 05.42 N</i> <i>87° 37.15 W</i>	Format Code <input type="checkbox"/> DD <input checked="" type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	Facility ID (FID or PWS)
1/4 SE 1/4 SW or Gov't Lot #	Section <i>6</i>	Township <i>30 N</i>	Range <i>24 E</i>
Well Street Address <i>1310-1330 Main Street</i>			Original Well Owner <i>MCABI</i>
Well City, Village or Town <i>Marinette</i>			Well ZIP Code <i>54143</i>
Subdivision Name			Lot #
Reason for Removal from Service <i>End of sampling</i>			WI Unique Well # of Replacement Well
Well Street Address			Present Well Owner <i>MCABI</i>
Well City, Village or Town			Mailing Address of Present Owner <i>1926 Hall Avenue</i>
Subdivision Name			City of Present Owner <i>Marinette</i>
			State <i>WI</i>
			ZIP Code <i>54143</i>

3. Filled & Sealed Well / Drillhole / Borehole Information **4. Pump, Liner, Screen, Casing & Sealing Material**

<input checked="" type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <i>10/07/15</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Water Well		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Total Well Depth From Ground Surface (ft.) <i>14.57'</i>	Casing Diameter (in.) <i>2"</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Lower Drillhole Diameter (in.) <i>6"</i>	Casing Depth (ft.) <i>14.57</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	Depth to Water (feet) <i>11.11</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If yes, to what depth (feet)?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A

5. Material Used to Fill Well / Drillhole			
From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
	<i>Surface</i>	<i>14.57 ft</i>	<i>0.318 ft³</i>

6. Comments

7. Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <i>Evon Weber / Stantec</i>	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) <i>10/13/16</i>	Date Received	Noted By
Street or Route <i>1165 Sheving Road</i>		Telephone Number <i>(920) 592-8400</i>	Comments	
City <i>De Pere</i>	State <i>WI</i>	ZIP Code <i>54115</i>	Signature of Person Doing Work <i>Evon J. Weber</i>	Date Signed <i>10/14/16</i>

SITE INVESTIGATION REPORT

1310-1330 Main Street

MCABI-Tyco Redevelopment Site, Marinette, WI

Appendix C

Monitoring Well Construction and Development Forms

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

Facility/Project Name MCABI - Tyco Property	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name MW1500
Facility License, Permit or Monitoring No. 193703365	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. 45° 5' 42.4" Long. 87° 37' 14.9" or		Wis. Unique Well No. DNR Well Number
Facility ID	St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed 10/07/2015
Type of Well Well Code 11/mw	Section Location of Waste/Source SE 1/4 of SE 1/4 of Sec. 6, T. 30 N, R. 24 <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: (Person's Name and Firm) Kurt Deprey Professional Service Industries, Inc.
Distance from Waste/Source ft. <input type="checkbox"/> Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number	

- A. Protective pipe, top elevation _____ ft. Site
- B. Well casing, top elevation _____ ft. Site
- C. Land surface elevation _____ ft. Site
- D. Surface seal, bottom _____ ft. Site or **0.0** ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis attached? Yes No

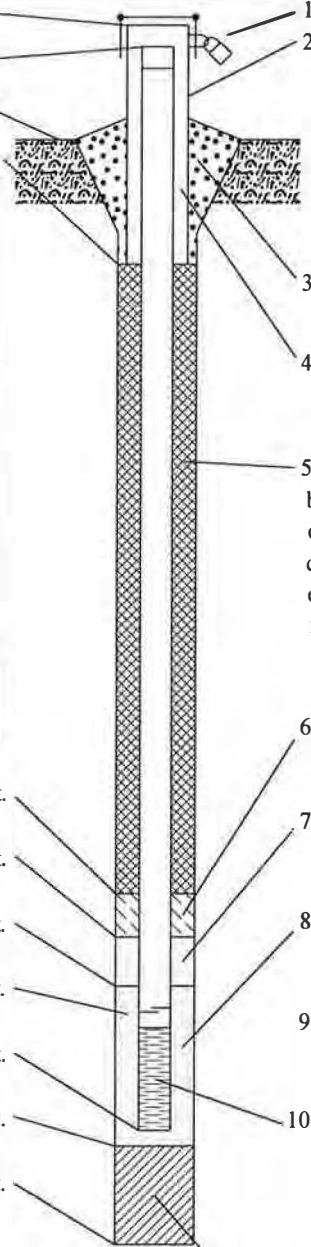
14. Drilling method used: Rotary 5 0
 Hollow Stem Auger 4 1
 _____ Other _ _

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No

Describe _____

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



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: **8.0** in.
 - b. Length: **1.0** ft.
 - c. Material: Steel 0 4
Other _ _
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal: Bentonite 3 0
Concrete 0 1
Other _ _
- 4. Material between well casing and protective pipe: Bentonite 3 0
Other _ _
- 5. Annular space seal: a. Granular/Chipped Bentonite 3 3
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry 3 5
c. _____ Lbs/gal mud weight . . . Bentonite slurry 3 1
d. _____ % Bentonite . . . Bentonite-cement grout 5 0
e. _____ Ft³ volume added for any of the above
f. How installed: Tremie 0 1
Tremie pumped 0 2
Gravity 0 8
- 6. Bentonite seal: a. Bentonite granules 3 3
b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 3 2
c. _____ Other _ _
- 7. Fine sand material: Manufacturer, product name & mesh size
a. **#15 Red Flint**
b. Volume added _____ ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
a. **#40 Red Flint**
b. Volume added _____ ft³
- 9. Well casing: Flush threaded PVC schedule 40 2 3
Flush threaded PVC schedule 80 2 4
Other _ _
- 10. Screen material: **PVC**
a. Screen Type: Factory cut 1 1
Continuous slot 0 1
Other _ _
b. Manufacturer **Johnson**
c. Slot size: **0.010** in.
d. Slotted length: **10.0** ft.
- 11. Backfill material (below filter pack): None 1 4
Other _ _

- E. Bentonite seal, top _____ ft. Site or **0.0** ft.
- F. Fine sand, top _____ ft. Site or **3.0** ft.
- G. Filter pack, top _____ ft. Site or **3.0** ft.
- H. Screen joint, top _____ ft. Site or **5.0** ft.
- I. Well bottom _____ ft. Site or **15.0** ft.
- J. Filter pack, bottom _____ ft. Site or **15.0** ft.
- K. Borehole, bottom _____ ft. Site or **15.0** ft.
- L. Borehole, diameter **6.0** in.
- M. O.D. well casing **2.40** in.
- N. I.D. well casing **2.00** in.

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

Signature **[Signature]** Firm **Stantec** Tel: _____ Fax: _____

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

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name MCABI - Tyco Property		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name MW1600	
Facility License, Permit or Monitoring No. 193703365		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. 45° 5' 42.4" Long. 87° 37' 14.9" or		Wis. Unique Well No. DNR Well Number	
Facility ID		St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed 10/07/2015	
Type of Well Well Code 11/mw		Section Location of Waste/Source SE 1/4 of SE 1/4 of Sec. 6, T. 30 N, R. 24 E W		Well Installed By: (Person's Name and Firm) Kurt Deprey	
Distance from Waste/Source ft. <input type="checkbox"/> Apply <input type="checkbox"/>		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number	
				Professional Service Industries, Inc.	

- A. Protective pipe, top elevation _____ ft. Site
- B. Well casing, top elevation _____ ft. Site
- C. Land surface elevation _____ ft. Site
- D. Surface seal, bottom _____ ft. Site or **0.0** ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

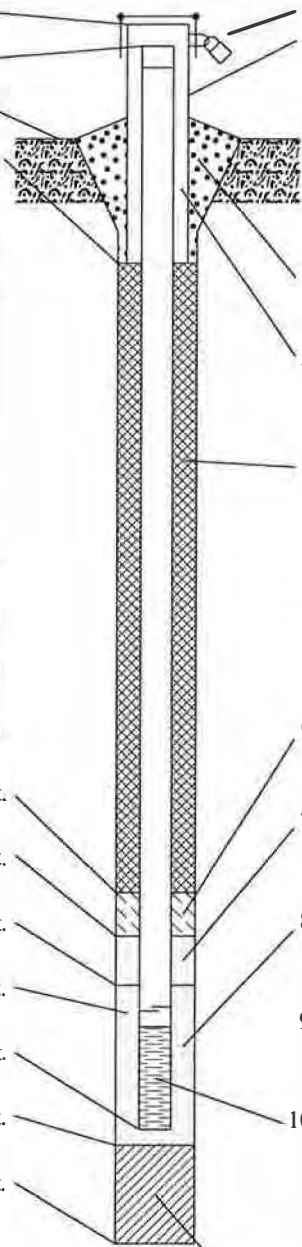
13. Sieve analysis attached? Yes No

14. Drilling method used: Rotary 5 0
 Hollow Stem Auger 4 1
 Other _ _

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No
 Describe _____

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



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: **8.0** in.
 - b. Length: **1.0** ft.
 - c. Material: Steel 0 4
Other _ _
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal: Bentonite 3 0
Concrete 0 1
Other _ _
- 4. Material between well casing and protective pipe: Bentonite 3 0
Other _ _
- 5. Annular space seal:
 - a. Granular/Chipped Bentonite 3 3
 - b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry 3 5
 - c. _____ Lbs/gal mud weight . . . Bentonite slurry 3 1
 - d. _____ % Bentonite . . . Bentonite-cement grout 5 0
 - e. _____ Ft³ volume added for any of the above
 - f. How installed: Tremie 0 1
Tremie pumped 0 2
Gravity 0 8
- 6. Bentonite seal:
 - a. Bentonite granules 3 3
 - b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 3 2
 - c. _____ Other _ _
- 7. Fine sand material: Manufacturer, product name & mesh size
 a. **#15 Red Flint**
 b. Volume added _____ ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
 a. **#40 Red Flint**
 b. Volume added _____ ft³
- 9. Well casing: Flush threaded PVC schedule 40 2 3
 Flush threaded PVC schedule 80 2 4
 Other _ _
- 10. Screen material: **PVC**
 - a. Screen Type: Factory cut 1 1
Continuous slot 0 1
Other _ _
 - b. Manufacturer **Johnson**
 - c. Slot size: **0.010** in.
 - d. Slotted length: **10.0** ft.
- 11. Backfill material (below filter pack): None 1 4
 Other _ _

- E. Bentonite seal, top _____ ft. Site or **0.0** ft.
- F. Fine sand, top _____ ft. Site or **3.0** ft.
- G. Filter pack, top _____ ft. Site or **3.0** ft.
- H. Screen joint, top _____ ft. Site or **5.0** ft.
- I. Well bottom _____ ft. Site or **15.0** ft.
- J. Filter pack, bottom _____ ft. Site or **15.0** ft.
- K. Borehole, bottom _____ ft. Site or **15.0** ft.
- L. Borehole, diameter **6.0** in.
- M. O.D. well casing **2.40** in.
- N. I.D. well casing **2.00** in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature *[Signature]* Firm **Stantec** Tel: _____ Fax: _____

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

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name MCABI - Tyco Property	Local Grid Location of Well _____ ft. <input type="checkbox"/> N, _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S, _____ ft. <input type="checkbox"/> W.	Well Name MW1700
Facility License, Permit or Monitoring No. 193703365	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. 45° 5' 42.4" Long. 87° 37' 14.9" or	Wis. Unique Well No. _____ DNR Well Number _____
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 10/07/2015
Type of Well Well Code 11/mw	Section Location of Waste/Source SE 1/4 of SE 1/4 of Sec. 6, T. 30 N, R. 24 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) Kurt Deprey
Distance from Waste/Source ft. <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Professional Service Industries, Inc.

- A. Protective pipe, top elevation _____ ft. Site
- B. Well casing, top elevation _____ ft. Site
- C. Land surface elevation _____ ft. Site
- D. Surface seal, bottom _____ ft. Site or **0.0** ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis attached? Yes No

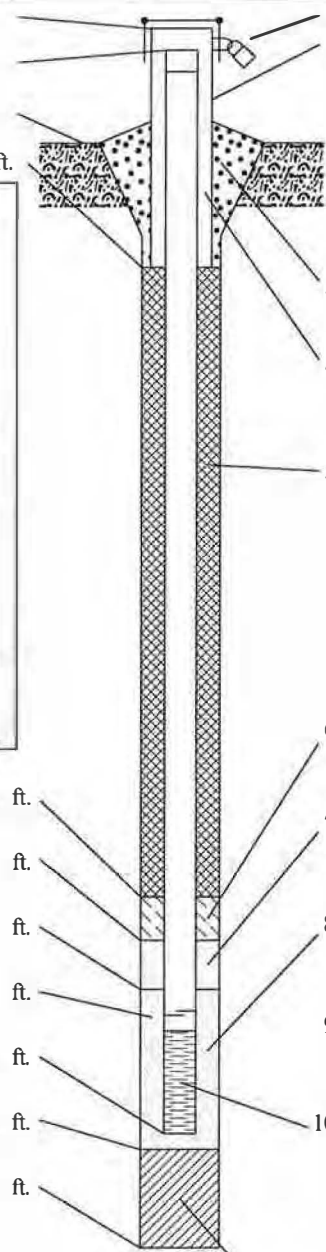
14. Drilling method used: Rotary 5 0
 Hollow Stem Auger 4 1
 _____ Other --

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No

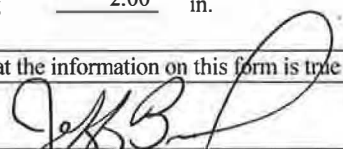
Describe _____

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



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: **8.0** in.
 - b. Length: **1.0** ft.
 - c. Material: Steel 0 4
Other --
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal: Bentonite 3 0
Concrete 0 1
Other --
- 4. Material between well casing and protective pipe: Bentonite 3 0
Other --
- 5. Annular space seal:
 - a. Granular/Chipped Bentonite 3 3
 - b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry 3 5
 - c. _____ Lbs/gal mud weight . . . Bentonite slurry 3 1
 - d. _____ % Bentonite . . . Bentonite-cement grout 5 0
 - e. _____ Ft³ volume added for any of the above
 - f. How installed: Tremie 0 1
Tremie pumped 0 2
Gravity 0 8
- 6. Bentonite seal:
 - a. Bentonite granules 3 3
 - b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 3 2
 - c. _____ Other --
- 7. Fine sand material: Manufacturer, product name & mesh size
a. **#15 Red Flint**
- b. Volume added _____ ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
a. **#40 Red Flint**
- b. Volume added _____ ft³
- 9. Well casing: Flush threaded PVC schedule 40 2 3
Flush threaded PVC schedule 80 2 4
Other --
- 10. Screen material: **PVC**
 - a. Screen Type: Factory cut 1 1
Continuous slot 0 1
Other --
 - b. Manufacturer **Johnson**
 - c. Slot size: **0.010** in.
 - d. Slotted length: **10.0** ft.
- 11. Backfill material (below filter pack): None 1 4
Other --

- E. Bentonite seal, top _____ ft. Site or **0.0** ft.
- F. Fine sand, top _____ ft. Site or **3.0** ft.
- G. Filter pack, top _____ ft. Site or **3.0** ft.
- H. Screen joint, top _____ ft. Site or **4.0** ft.
- I. Well bottom _____ ft. Site or **14.0** ft.
- J. Filter pack, bottom _____ ft. Site or **14.0** ft.
- K. Borehole, bottom _____ ft. Site or **14.0** ft.
- L. Borehole, diameter **6.0** in.
- M. O.D. well casing **2.40** in.
- N. I.D. well casing **2.00** in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature  Firm **Stantec** Tel: _____ Fax: _____

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

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name MCABI - Tyco Property	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name MW1800
Facility License, Permit or Monitoring No. 193703365	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. 45° 5' 42.4" Long. 87° 37' 14.9" or	Wis. Unique Well No. _____ DNR Well Number _____
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 10/07/2015
Type of Well Well Code 11/mw	Section Location of Waste/Source SE 1/4 of SE 1/4 of Sec. 6, T. 30 N, R. 24 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) Kurt Deprey
Distance from Waste/Source ft. _____	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number _____
Enf. Stds. Apply <input type="checkbox"/>		Professional Service Industries, Inc.

- A. Protective pipe, top elevation _____ ft. Site
- B. Well casing, top elevation _____ ft. Site
- C. Land surface elevation _____ ft. Site
- D. Surface seal, bottom _____ ft. Site or **0.0** ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis attached? Yes No

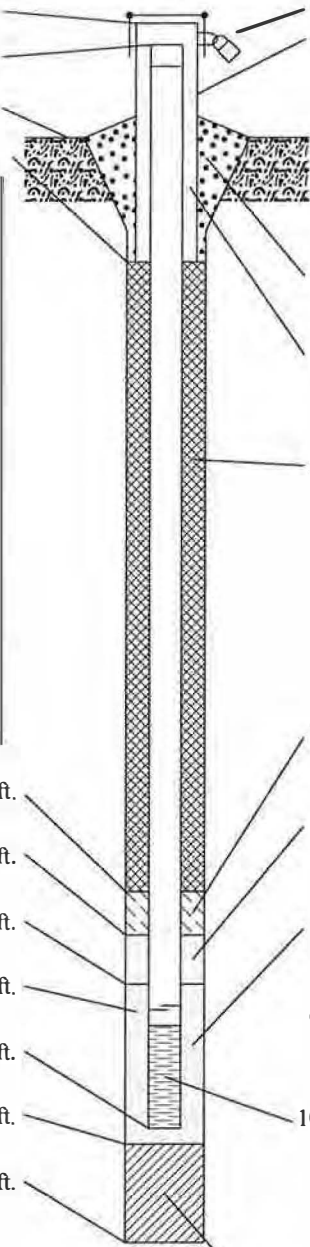
14. Drilling method used: Rotary 5 0
 Hollow Stem Auger 4 1
 Other _ _

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No

Describe _____

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



1. Cap and lock? Yes No
2. Protective cover pipe:
 a. Inside diameter: **8.0** in.
 b. Length: **1.0** ft.
 c. Material: Steel 0 4
 Other _ _
- d. Additional protection? Yes No
 If yes, describe: _____
3. Surface seal: Bentonite 3 0
 Concrete 0 1
 Other _ _
4. Material between well casing and protective pipe: Bentonite 3 0
 Other _ _
5. Annular space seal: a. Granular/Chipped Bentonite 3 3
 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry 3 5
 c. _____ Lbs/gal mud weight . . . Bentonite slurry 3 1
 d. _____ % Bentonite . . . Bentonite-cement grout 5 0
 e. _____ Ft³ volume added for any of the above
 f. How installed: Tremie 0 1
 Tremie pumped 0 2
 Gravity 0 8
6. Bentonite seal: a. Bentonite granules 3 3
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 3 2
 c. _____ Other _ _
7. Fine sand material: Manufacturer, product name & mesh size
 a. **#15 Red Flint**
 b. Volume added _____ ft³
8. Filter pack material: Manufacturer, product name & mesh size
 a. **#40 Red Flint**
 b. Volume added _____ ft³
9. Well casing: Flush threaded PVC schedule 40 2 3
 Flush threaded PVC schedule 80 2 4
 Other _ _
10. Screen material: **PVC**
 a. Screen Type: Factory cut 1 1
 Continuous slot 0 1
 Other _ _
 b. Manufacturer **Johnson**
 c. Slot size: **0.010** in.
 d. Slotted length: **10.0** ft.
11. Backfill material (below filter pack): None 1 4
 Other _ _

- E. Bentonite seal, top _____ ft. Site or **0.0** ft.
- F. Fine sand, top _____ ft. Site or **2.0** ft.
- G. Filter pack, top _____ ft. Site or **2.0** ft.
- H. Screen joint, top _____ ft. Site or **3.0** ft.
- I. Well bottom _____ ft. Site or **13.0** ft.
- J. Filter pack, bottom _____ ft. Site or **13.0** ft.
- K. Borehole, bottom _____ ft. Site or **13.0** ft.
- L. Borehole, diameter **6.0** in.
- M. O.D. well casing **2.40** in.
- N. I.D. well casing **2.00** in.

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

Signature *[Handwritten Signature]*

Firm **Stantec**

Tel: _____
Fax: _____

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

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

Facility/Project Name MCABI - Tyco Property	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name MW1900
Facility License, Permit or Monitoring No. 193703365	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. 45° 5' 42.4" Long. 87° 37' 14.9" or	Wis. Unique Well No. <input type="checkbox"/> DNR Well Number <input type="checkbox"/>
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 10/07/2015
Type of Well Well Code 11/mw	Section Location of Waste/Source SE 1/4 of SE 1/4 of Sec. 6, T. 30 N, R. 24 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) Kurt Deprey
Distance from Waste/Source ft. <input type="checkbox"/> Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number _____
		Professional Service Industries, Inc.

- A. Protective pipe, top elevation _____ ft. Site
- B. Well casing, top elevation _____ ft. Site
- C. Land surface elevation _____ ft. Site
- D. Surface seal, bottom _____ ft. Site or **0.0** ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis attached? Yes No

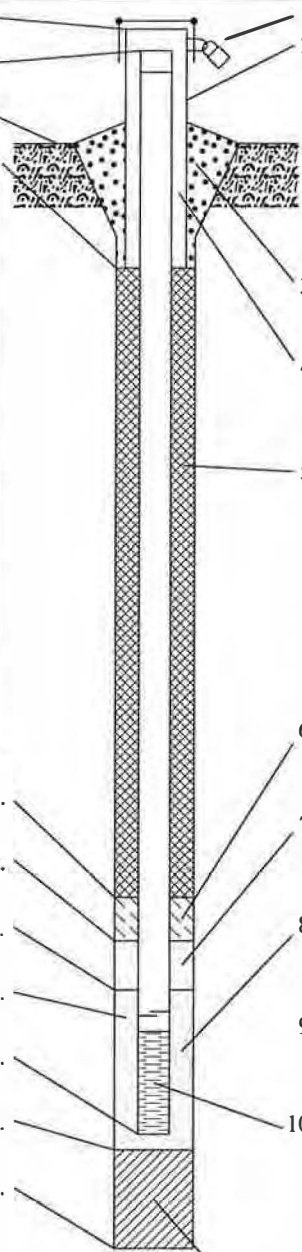
14. Drilling method used: Rotary 5 0
 Hollow Stem Auger 4 1
 Other _ _

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No

Describe _____

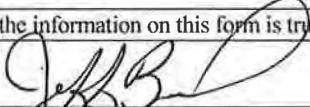
17. Source of water (attach analysis, if required):



1. Cap and lock? Yes No
2. Protective cover pipe:
 a. Inside diameter: **8.0** in.
 b. Length: **1.0** ft.
 c. Material: Steel 0 4
 Other _ _
 d. Additional protection? Yes No
 If yes, describe: _____
3. Surface seal: Bentonite 3 0
 Concrete 0 1
 Other _ _
4. Material between well casing and protective pipe: Bentonite 3 0
 Other _ _
5. Annular space seal: a. Granular/Chipped Bentonite 3 3
 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry 3 5
 c. _____ Lbs/gal mud weight . . . Bentonite slurry 3 1
 d. _____ % Bentonite . . . Bentonite-cement grout 5 0
 e. _____ Ft³ volume added for any of the above
 f. How installed: Tremie 0 1
 Tremie pumped 0 2
 Gravity 0 8
6. Bentonite seal: a. Bentonite granules 3 3
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 3 2
 c. _____ Other _ _
7. Fine sand material: Manufacturer, product name & mesh size
 a. **#15 Red Flint**
 b. Volume added _____ ft³
8. Filter pack material: Manufacturer, product name & mesh size
 a. **#40 Red Flint**
 b. Volume added _____ ft³
9. Well casing: Flush threaded PVC schedule 40 2 3
 Flush threaded PVC schedule 80 2 4
 Other _ _
10. Screen material: **PVC**
- a. Screen Type: Factory cut 1 1
 Continuous slot 0 1
 Other _ _
- b. Manufacturer **Johnson**
- c. Slot size: **0.010** in.
 d. Slotted length: **10.0** ft.
11. Backfill material (below filter pack): None 1 4
 Other _ _

- E. Bentonite seal, top _____ ft. Site or **0.0** ft.
- F. Fine sand, top _____ ft. Site or **2.0** ft.
- G. Filter pack, top _____ ft. Site or **2.0** ft.
- H. Screen joint, top _____ ft. Site or **3.0** ft.
- I. Well bottom _____ ft. Site or **13.0** ft.
- J. Filter pack, bottom _____ ft. Site or **13.0** ft.
- K. Borehole, bottom _____ ft. Site or **13.0** ft.
- L. Borehole, diameter **6.0** in.
- M. O.D. well casing **2.40** in.
- N. I.D. well casing **2.00** in.

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

Signature  Firm **Stantec** Tel: _____ Fax: _____

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

Facility/Project Name MCABI - Tyco Property		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name MW2000	
Facility License, Permit or Monitoring No. 193703365		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. 45° 5' 42.4" Long. 87° 37' 14.9" or		Wis. Unique Well No. DNR Well Number	
Facility ID		St. Plane _____ ft. N, _____ ft. E. S/C/N		Date Well Installed 10/08/2015	
Type of Well Well Code 11/nw		Section Location of Waste/Source SE 1/4 of SE 1/4 of Sec. 6, T. 30 N, R. 24 <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: (Person's Name and Firm) Kurt Deprey	
Distance from Waste/Source ft. <input type="checkbox"/> Enf. Stds. Apply <input type="checkbox"/>		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number Professional Service Industries, Inc.	

A. Protective pipe, top elevation _____ ft. Site
B. Well casing, top elevation _____ ft. Site
C. Land surface elevation _____ ft. Site
D. Surface seal, bottom _____ ft. Site or 0.0 ft.

12. USCS classification of soil near screen:
GP GM GC GW SW SP
SM SC ML MH CL CH
Bedrock

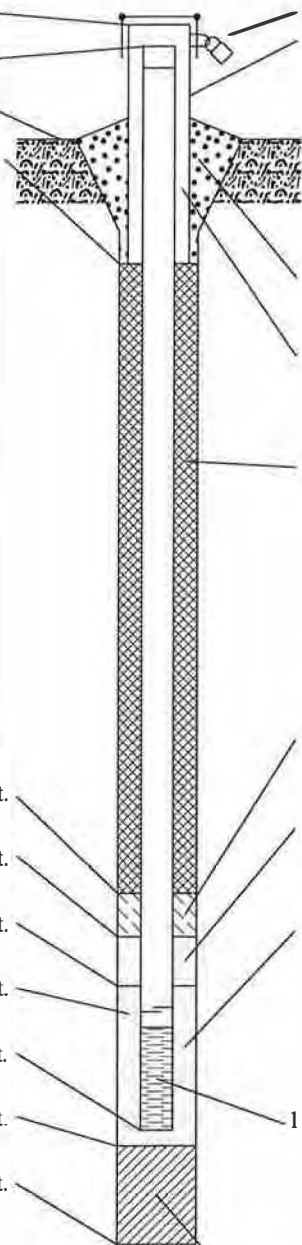
13. Sieve analysis attached? Yes No

14. Drilling method used: Rotary 5 0
Hollow Stem Auger 4 1
Other _ _

15. Drilling fluid used: Water 0 2 Air 0 1
Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No
Describe _____

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



1. Cap and lock? Yes No

2. Protective cover pipe:
a. Inside diameter: 8.0 in.
b. Length: 1.0 ft.
c. Material: Steel 0 4
Other _ _
d. Additional protection? Yes No
If yes, describe: _____

3. Surface seal: Bentonite 3 0
Concrete 0 1
Other _ _

4. Material between well casing and protective pipe:
Bentonite 3 0
Other _ _

5. Annular space seal: a. Granular/Chipped Bentonite 3 3
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry 3 5
c. _____ Lbs/gal mud weight . . . Bentonite slurry 3 1
d. _____ % Bentonite . . . Bentonite-cement grout 5 0
e. _____ Ft³ volume added for any of the above
f. How installed: Tremie 0 1
Tremie pumped 0 2
Gravity 0 8

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

7. Fine sand material: Manufacturer, product name & mesh size
a. #15 Red Flint
b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. #40 Red Flint
b. Volume added _____ ft³

9. Well casing: Flush threaded PVC schedule 40 2 3
Flush threaded PVC schedule 80 2 4
Other _ _

10. Screen material: PVC
a. Screen Type: Factory cut 1 1
Continuous slot 0 1
Other _ _
b. Manufacturer: Johnson
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None 1 4
Other _ _

E. Bentonite seal, top _____ ft. Site or 0.0 ft.
F. Fine sand, top _____ ft. Site or 3.0 ft.
G. Filter pack, top _____ ft. Site or 3.0 ft.
H. Screen joint, top _____ ft. Site or 5.0 ft.
I. Well bottom _____ ft. Site or 15.0 ft.
J. Filter pack, bottom _____ ft. Site or 15.0 ft.
K. Borehole, bottom _____ ft. Site or 15.0 ft.
L. Borehole, diameter 6.0 in.
M. O.D. well casing 2.40 in.
N. I.D. well casing 2.00 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature: *Jeff B.* Firm: Stantec Tel: _____ Fax: _____

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

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

Facility/Project Name MCABI - Tyco Property	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name TW2100
Facility License, Permit or Monitoring No. 193704595	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. 45° 5' 42.4" Long. 87° 37' 14.9" or	Wis. Unique Well No. _____ DNR Well Number _____
Facility ID	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 10/27/2017
Type of Well Well Code 11/mw	Section Location of Waste/Source SE 1/4 of SE 1/4 of Sec. 6 T. 30 N. R. 24 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) Darrin Prentice
Distance from Waste/Source ft. <input type="checkbox"/> Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number _____
		Geiss Soil and Samples, I.L.C

- A. Protective pipe, top elevation _____ ft. Site
- B. Well casing, top elevation _____ ft. Site
- C. Land surface elevation _____ ft. Site
- D. Surface seal, bottom _____ ft. Site or **0.0** ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis attached? Yes No

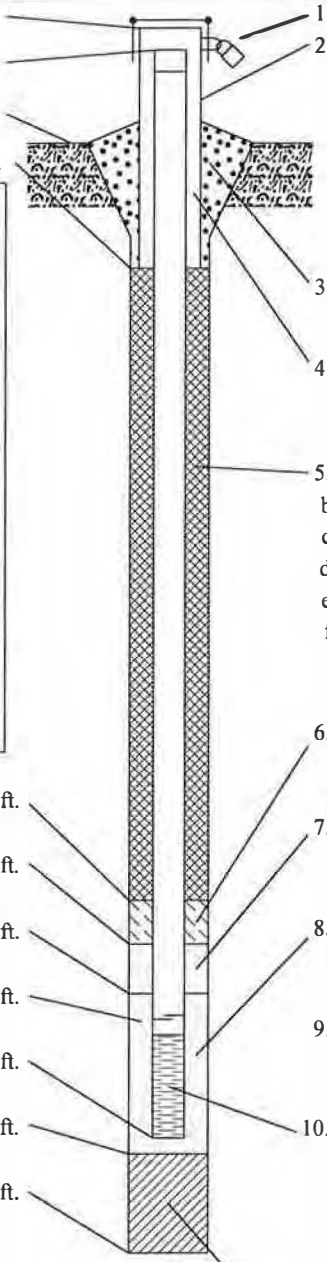
14. Drilling method used: Rotary 5 0
 Hollow Stem Auger 4 1
 _____ Other _____

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No

Describe _____

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



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 a. Inside diameter: _____ 4.0 in.
 b. Length: _____ 1.0 ft.
 c. Material: Steel 0 4
 Other _____
- d. Additional protection? Yes No
 If yes, describe: _____
- 3. Surface seal: Bentonite 3 0
 Concrete 0 1
 Other _____
- 4. Material between well casing and protective pipe:
 Bentonite 3 0
 Other _____
- 5. Annular space seal: a. Granular/Chipped Bentonite 3 3
 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry 3 5
 c. _____ Lbs/gal mud weight . . . Bentonite slurry 3 1
 d. _____ % Bentonite . . . Bentonite-cement grout 5 0
 e. _____ Ft³ volume added for any of the above
 f. How installed: Tremie 0 1
 Tremie pumped 0 2
 Gravity 0 8
- 6. Bentonite seal: a. Bentonite granules 3 3
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 3 2
 c. _____ Other _____
- 7. Fine sand material: Manufacturer, product name & mesh size
 a. _____ #15 Red Flint
 b. Volume added _____ ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
 a. _____ #40 Red Flint
 b. Volume added _____ ft³
- 9. Well casing: Flush threaded PVC schedule 40 2 3
 Flush threaded PVC schedule 80 2 4
 Other _____
- 10. Screen material: _____ PVC
 a. Screen Type: Factory cut 1 1
 Continuous slot 0 1
 Other _____
 b. Manufacturer _____ Johnson
 c. Slot size: _____ 0.010 in.
 d. Slotted length: _____ 10.0 ft.
- 11. Backfill material (below filter pack): None 1 4
 Other _____

- E. Bentonite seal, top _____ ft. Site or **0.0** ft.
- F. Fine sand, top _____ ft. Site or **1.0** ft.
- G. Filter pack, top _____ ft. Site or **1.0** ft.
- H. Screen joint, top _____ ft. Site or **2.0** ft.
- I. Well bottom _____ ft. Site or **12.0** ft.
- J. Filter pack, bottom _____ ft. Site or **12.0** ft.
- K. Borehole, bottom _____ ft. Site or **12.0** ft.
- L. Borehole, diameter **2.0** in.
- M. O.D. well casing **1.00** in.
- N. I.D. well casing **1.00** in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature *Jeff B...* Firm **Stantec** Tel: _____ Fax: _____

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

SITE INVESTIGATION REPORT

1310-1330 Main Street

MCABI-Tyco Redevelopment Site, Marinette, WI

Appendix D

Soil Laboratory Analytical Reports and Chain-of-Custody Forms

ANALYTICAL REPORT

STANTEC
 JEFF BRAND
 1165 SCHEURING ROAD
 DE PERE, WI 54115

Project Name: MCABI - TYCO
 Project Phase:
 Contract #: 2817
 Project #: 193703365
 Folder #: 112477
 Purchase Order #:

Page 1 of 77
 Arrival Temperature: 2.5
 Report Date: 8/11/2015
 Date Received: 7/13/2015
 Reprint Date: 8/11/2015

CT LAB Sample#: 606376	Sample Description: S102	Sampled: 7/8/2015 0845
------------------------	--------------------------	------------------------

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Solids, Percent	94.3	%	0.1	0.1	1			7/13/2015 10:42	ABS	EPA 8000C
Metals Results										
Arsenic	2.4	mg/kg	0.18	0.67	1		7/13/2015 08:00	7/14/2015 18:51	NAH	EPA 6010C
Barium	51.7	mg/kg	0.024	0.085	1		7/13/2015 08:00	7/14/2015 18:51	NAH	EPA 6010C
Cadmium	0.018	mg/kg	0.012 *	0.039	1		7/13/2015 08:00	7/14/2015 18:51	NAH	EPA 6010C
Chromium	8.3	mg/kg	0.043	0.13	1		7/13/2015 08:00	7/14/2015 18:51	NAH	EPA 6010C
Lead	377	mg/kg	0.16	0.53	1		7/13/2015 08:00	7/14/2015 18:51	NAH	EPA 6010C
Selenium	<0.30	mg/kg	0.30	0.98	1		7/13/2015 08:00	7/14/2015 18:51	NAH	EPA 6010C
Silver	0.73	mg/kg	0.073	0.24	1		7/13/2015 08:00	7/14/2015 18:51	NAH	EPA 6010C
Mercury	0.037	mg/kg	0.0019	0.0062	1		7/17/2015 10:30	7/21/2015 07:59	LJF	EPA 7471B
Organic Results										
1,1,1,2-Tetrachloroethane	<0.023	mg/kg	0.019	0.065	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.014	mg/kg	0.012	0.037	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.014	mg/kg	0.012	0.038	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606376 Sample Description: S102

Sampled: 7/8/2015 0845

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1,2-Trichloroethane	<0.015	mg/kg	0.012	0.041	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
1,1-Dichloroethane	<0.015	mg/kg	0.012	0.042	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
1,1-Dichloroethene	<0.015	mg/kg	0.012	0.042	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
1,1-Dichloropropene	<0.019	mg/kg	0.016	0.051	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.029	mg/kg	0.024	0.080	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.014	mg/kg	0.012	0.037	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.024	mg/kg	0.020	0.067	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.027	mg/kg	0.022	0.074	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	mg/kg	0.025	0.083	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
1,2-Dibromoethane	<0.014	mg/kg	0.012	0.038	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.028	mg/kg	0.023	0.078	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
1,2-Dichloroethane	<0.014	mg/kg	0.012	0.039	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
1,2-Dichloropropane	<0.017	mg/kg	0.014	0.048	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.030	mg/kg	0.025	0.083	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.024	mg/kg	0.020	0.066	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
1,3-Dichloropropane	<0.012	mg/kg	0.010	0.033	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.022	mg/kg	0.018	0.061	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
2,2-Dichloropropane	<0.011	mg/kg	0.0091	0.030	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
2-Butanone	<0.18	mg/kg	0.15	0.51	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
2-Chlorotoluene	<0.026	mg/kg	0.022	0.072	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
2-Hexanone	<0.14	mg/kg	0.12	0.38	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
4-Chlorotoluene	<0.028	mg/kg	0.023	0.078	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.11	mg/kg	0.091	0.32	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Acetone	<0.19	mg/kg	0.16	0.51	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Benzene	<0.011	mg/kg	0.0091	0.029	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C

CT LAB Sample#: 606376 Sample Description: S102

Sampled: 7/8/2015 0845

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromobenzene	<0.014	mg/kg	0.012	0.037	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Bromochloromethane	<0.016	mg/kg	0.013	0.044	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Bromodichloromethane	<0.015	mg/kg	0.012	0.041	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Bromoform	<0.012	mg/kg	0.010	0.032	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Bromomethane	<0.040	mg/kg	0.033	0.11	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Carbon disulfide	<0.025	mg/kg	0.021	0.068	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Carbon tetrachloride	<0.011	mg/kg	0.0091	0.031	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Chlorobenzene	<0.029	mg/kg	0.024	0.080	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Chloroethane	<0.015	mg/kg	0.012	0.042	1	Z	7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Chloroform	<0.025	mg/kg	0.021	0.068	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Chloromethane	<0.020	mg/kg	0.017	0.056	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.011	mg/kg	0.0091	0.030	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	mg/kg	0.0091	0.030	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Dibromochloromethane	<0.016	mg/kg	0.013	0.045	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Dibromomethane	<0.014	mg/kg	0.012	0.039	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Dichlorodifluoromethane	<0.022	mg/kg	0.018	0.060	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Diisopropyl ether	<0.029	mg/kg	0.024	0.081	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Ethylbenzene	<0.012	mg/kg	0.010	0.032	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Hexachlorobutadiene	<0.030	mg/kg	0.025	0.083	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Isopropylbenzene	<0.011	mg/kg	0.0091	0.031	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
m & p-Xylene	<0.024	mg/kg	0.020	0.066	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Methyl tert-butyl ether	<0.012	mg/kg	0.010	0.033	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Methylene chloride	<0.030	mg/kg	0.025	0.091	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
n-Butylbenzene	<0.027	mg/kg	0.022	0.075	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
n-Propylbenzene	<0.025	mg/kg	0.021	0.070	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606376 Sample Description: S102

Sampled: 7/8/2015 0845

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Naphthalene	<0.027	mg/kg	0.022	0.074	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
o-Xylene	<0.012	mg/kg	0.010	0.032	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
p-Isopropyltoluene	<0.026	mg/kg	0.022	0.072	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
sec-Butylbenzene	<0.023	mg/kg	0.019	0.063	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Styrene	<0.026	mg/kg	0.022	0.071	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
tert-Butylbenzene	<0.024	mg/kg	0.020	0.066	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Tetrachloroethene	<0.012	mg/kg	0.010	0.033	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Tetrahydrofuran	<0.15	mg/kg	0.12	0.42	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Toluene	<0.025	mg/kg	0.021	0.070	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.014	mg/kg	0.012	0.039	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.015	mg/kg	0.012	0.041	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Trichloroethene	<0.012	mg/kg	0.010	0.034	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Trichlorofluoromethane	<0.019	mg/kg	0.016	0.052	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Vinyl acetate	<0.23	mg/kg	0.19	0.65	1	M	7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
Vinyl chloride	<0.015	mg/kg	0.012	0.042	1		7/15/2015 10:32	7/19/2015 09:38	RLD	EPA 8260C
1-Methylnaphthalene	146	ug/kg	0.28	2.1	1	M,Y	7/17/2015 10:10	7/28/2015 16:58	RPN	EPA 8270D-SIM
2-Methylnaphthalene	150	ug/kg	0.42	2.1	1	M,Y	7/17/2015 10:10	7/28/2015 16:58	RPN	EPA 8270D-SIM
Acenaphthene	2.71	ug/kg	0.31	2.1	1		7/17/2015 10:10	7/28/2015 16:58	RPN	EPA 8270D-SIM
Acenaphthylene	10.6	ug/kg	0.28	2.1	1		7/17/2015 10:10	7/28/2015 16:58	RPN	EPA 8270D-SIM
Anthracene	20.3	ug/kg	0.42	2.1	1		7/17/2015 10:10	7/28/2015 16:58	RPN	EPA 8270D-SIM
Benzo(a)anthracene	71.1	ug/kg	0.74	2.5	1		7/17/2015 10:10	7/28/2015 16:58	RPN	EPA 8270D-SIM
Benzo(a)pyrene	65.2	ug/kg	0.85	2.9	1		7/17/2015 10:10	7/28/2015 16:58	RPN	EPA 8270D-SIM
Benzo(b)fluoranthene	86.0	ug/kg	0.95	3.2	1		7/17/2015 10:10	7/28/2015 16:58	RPN	EPA 8270D-SIM
Benzo(g,h,i)perylene	79.1	ug/kg	1.2	3.8	1	M	7/17/2015 10:10	7/28/2015 16:58	RPN	EPA 8270D-SIM
Benzo(k)fluoranthene	24.4	ug/kg	0.95	3.4	1		7/17/2015 10:10	7/28/2015 16:58	RPN	EPA 8270D-SIM

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606376 Sample Description: S102

Sampled: 7/8/2015 0845

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chrysene	80.1	ug/kg	0.63	2.2	1		7/17/2015 10:10	7/28/2015 16:58	RPN	EPA 8270D-SIM
Dibenzo(a,h)anthracene	11.2	ug/kg	1.2	3.9	1		7/17/2015 10:10	7/28/2015 16:58	RPN	EPA 8270D-SIM
Fluoranthene	115	ug/kg	1.3	4.1	1		7/17/2015 10:10	7/28/2015 16:58	RPN	EPA 8270D-SIM
Fluorene	5.07	ug/kg	0.42	2.1	1		7/17/2015 10:10	7/28/2015 16:58	RPN	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	38.3	ug/kg	1.2	3.9	1		7/17/2015 10:10	7/28/2015 16:58	RPN	EPA 8270D-SIM
Naphthalene	111	ug/kg	0.28	2.1	1	M,Y	7/17/2015 10:10	7/28/2015 16:58	RPN	EPA 8270D-SIM
Phenanthrene	158	ug/kg	1.1	3.5	1	M	7/17/2015 10:10	7/28/2015 16:58	RPN	EPA 8270D-SIM
Pyrene	107	ug/kg	0.95	3.1	1		7/17/2015 10:10	7/28/2015 16:58	RPN	EPA 8270D-SIM

CT LAB Sample#: 606377 Sample Description: S201

Sampled: 7/8/2015 1028

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Solids, Percent	98.1	%	0.1	0.1	1			7/13/2015 10:42	ABS	EPA 8000C
Metals Results										
Arsenic	<0.26	mg/kg	0.26	0.95	1		7/14/2015 07:00	7/14/2015 19:50	NAH	EPA 6010C
Barium	8.3	mg/kg	0.035	0.12	1		7/14/2015 07:00	7/14/2015 19:50	NAH	EPA 6010C
Cadmium	<0.016	mg/kg	0.016	0.055	1		7/14/2015 07:00	7/14/2015 19:50	NAH	EPA 6010C
Chromium	3.2	mg/kg	0.060	0.19	1		7/14/2015 07:00	7/14/2015 19:50	NAH	EPA 6010C
Lead	2.5	mg/kg	0.22	0.75	1		7/14/2015 07:00	7/14/2015 19:50	NAH	EPA 6010C
Selenium	<0.43	mg/kg	0.43	1.4	1		7/14/2015 07:00	7/14/2015 19:50	NAH	EPA 6010C
Silver	<0.10	mg/kg	0.10	0.34	1		7/14/2015 07:00	7/14/2015 19:50	NAH	EPA 6010C
Mercury	0.0056	mg/kg	0.0017	0.0056	1		7/17/2015 10:30	7/21/2015 08:01	LJF	EPA 7471B

Organic Results

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606377 Sample Description: S201

Sampled: 7/8/2015 1028

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1,1,2-Tetrachloroethane	<0.023	mg/kg	0.018	0.060	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.014	mg/kg	0.011	0.035	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.014	mg/kg	0.011	0.036	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.015	mg/kg	0.012	0.038	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
1,1-Dichloroethane	<0.015	mg/kg	0.012	0.039	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
1,1-Dichloroethene	<0.015	mg/kg	0.012	0.039	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
1,1-Dichloropropene	<0.019	mg/kg	0.015	0.048	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.029	mg/kg	0.022	0.074	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.014	mg/kg	0.011	0.035	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.024	mg/kg	0.019	0.063	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.027	mg/kg	0.021	0.069	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	mg/kg	0.023	0.077	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
1,2-Dibromoethane	<0.014	mg/kg	0.011	0.036	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.028	mg/kg	0.022	0.073	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
1,2-Dichloroethane	<0.014	mg/kg	0.011	0.036	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
1,2-Dichloropropane	<0.017	mg/kg	0.013	0.045	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.030	mg/kg	0.023	0.077	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.024	mg/kg	0.019	0.061	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
1,3-Dichloropropane	<0.012	mg/kg	0.0093	0.031	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.022	mg/kg	0.017	0.057	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
2,2-Dichloropropane	<0.011	mg/kg	0.0085	0.028	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
2-Butanone	<0.18	mg/kg	0.14	0.47	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
2-Chlorotoluene	<0.026	mg/kg	0.020	0.067	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
2-Hexanone	<0.14	mg/kg	0.11	0.36	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
4-Chlorotoluene	<0.028	mg/kg	0.022	0.073	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606377 Sample Description: S201

Sampled: 7/8/2015 1028

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4-Methyl-2-pentanone	<0.11	mg/kg	0.085	0.29	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Acetone	<0.19	mg/kg	0.15	0.48	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Benzene	<0.011	mg/kg	0.0085	0.027	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Bromobenzene	<0.014	mg/kg	0.011	0.035	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Bromochloromethane	<0.016	mg/kg	0.012	0.041	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Bromodichloromethane	<0.015	mg/kg	0.012	0.038	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Bromoform	<0.012	mg/kg	0.0093	0.030	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Bromomethane	<0.040	mg/kg	0.031	0.10	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Carbon disulfide	<0.025	mg/kg	0.019	0.063	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Carbon tetrachloride	<0.011	mg/kg	0.0085	0.029	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Chlorobenzene	<0.029	mg/kg	0.022	0.074	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Chloroethane	<0.015	mg/kg	0.012	0.039	1	Z	7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Chloroform	<0.025	mg/kg	0.019	0.063	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Chloromethane	<0.020	mg/kg	0.015	0.052	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.011	mg/kg	0.0085	0.028	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	mg/kg	0.0085	0.028	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Dibromochloromethane	<0.016	mg/kg	0.012	0.042	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Dibromomethane	<0.014	mg/kg	0.011	0.036	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Dichlorodifluoromethane	<0.022	mg/kg	0.017	0.056	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Diisopropyl ether	<0.029	mg/kg	0.022	0.075	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Ethylbenzene	<0.012	mg/kg	0.0093	0.030	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Hexachlorobutadiene	<0.030	mg/kg	0.023	0.077	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Isopropylbenzene	<0.011	mg/kg	0.0085	0.029	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
m & p-Xylene	<0.024	mg/kg	0.019	0.062	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Methyl tert-butyl ether	<0.012	mg/kg	0.0093	0.031	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C

CT LAB Sample#: 606377 Sample Description: S201

Sampled: 7/8/2015 1028

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Methylene chloride	<0.030	mg/kg	0.023	0.085	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
n-Butylbenzene	<0.027	mg/kg	0.021	0.070	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
n-Propylbenzene	<0.025	mg/kg	0.019	0.065	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Naphthalene	<0.027	mg/kg	0.021	0.069	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
o-Xylene	<0.012	mg/kg	0.0093	0.030	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
p-Isopropyltoluene	<0.026	mg/kg	0.020	0.067	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
sec-Butylbenzene	<0.023	mg/kg	0.018	0.059	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Styrene	<0.026	mg/kg	0.020	0.066	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
tert-Butylbenzene	<0.024	mg/kg	0.019	0.062	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Tetrachloroethene	<0.012	mg/kg	0.0093	0.031	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Tetrahydrofuran	<0.15	mg/kg	0.12	0.39	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Toluene	<0.025	mg/kg	0.019	0.065	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.014	mg/kg	0.011	0.036	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.015	mg/kg	0.012	0.038	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Trichloroethene	<0.012	mg/kg	0.0093	0.032	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Trichlorofluoromethane	<0.019	mg/kg	0.015	0.049	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Vinyl acetate	<0.23	mg/kg	0.18	0.60	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
Vinyl chloride	<0.015	mg/kg	0.012	0.039	1		7/15/2015 10:32	7/19/2015 10:07	RLD	EPA 8260C
1-Methylnaphthalene	<0.27	ug/kg	0.27	2.0	1		7/17/2015 10:10	7/28/2015 15:59	RPN	EPA 8270D-SIM
2-Methylnaphthalene	0.809	ug/kg	0.41 *	2.0	1		7/17/2015 10:10	7/28/2015 15:59	RPN	EPA 8270D-SIM
Acenaphthene	<0.30	ug/kg	0.30	2.0	1		7/17/2015 10:10	7/28/2015 15:59	RPN	EPA 8270D-SIM
Acenaphthylene	0.327	ug/kg	0.27 *	2.0	1		7/17/2015 10:10	7/28/2015 15:59	RPN	EPA 8270D-SIM
Anthracene	<0.41	ug/kg	0.41	2.0	1		7/17/2015 10:10	7/28/2015 15:59	RPN	EPA 8270D-SIM
Benzo(a)anthracene	3.52	ug/kg	0.71	2.4	1		7/17/2015 10:10	7/28/2015 15:59	RPN	EPA 8270D-SIM
Benzo(a)pyrene	4.29	ug/kg	0.82	2.8	1		7/17/2015 10:10	7/28/2015 15:59	RPN	EPA 8270D-SIM

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606377 Sample Description: S201

Sampled: 7/8/2015 1028

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Benzo(b)fluoranthene	7.22	ug/kg	0.92	3.1	1		7/17/2015 10:10	7/28/2015 15:59	RPN	EPA 8270D-SIM
Benzo(g,h,i)perylene	4.41	ug/kg	1.1	3.7	1		7/17/2015 10:10	7/28/2015 15:59	RPN	EPA 8270D-SIM
Benzo(k)fluoranthene	1.91	ug/kg	0.92 *	3.3	1		7/17/2015 10:10	7/28/2015 15:59	RPN	EPA 8270D-SIM
Chrysene	4.09	ug/kg	0.61	2.1	1		7/17/2015 10:10	7/28/2015 15:59	RPN	EPA 8270D-SIM
Dibenzo(a,h)anthracene	<1.1	ug/kg	1.1	3.8	1		7/17/2015 10:10	7/28/2015 15:59	RPN	EPA 8270D-SIM
Fluoranthene	7.87	ug/kg	1.2	4.0	1		7/17/2015 10:10	7/28/2015 15:59	RPN	EPA 8270D-SIM
Fluorene	<0.41	ug/kg	0.41	2.0	1		7/17/2015 10:10	7/28/2015 15:59	RPN	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	3.58	ug/kg	1.1 *	3.8	1		7/17/2015 10:10	7/28/2015 15:59	RPN	EPA 8270D-SIM
Naphthalene	0.622	ug/kg	0.27 *	2.0	1		7/17/2015 10:10	7/28/2015 15:59	RPN	EPA 8270D-SIM
Phenanthrene	3.17	ug/kg	1.0 *	3.4	1		7/17/2015 10:10	7/28/2015 15:59	RPN	EPA 8270D-SIM
Pyrene	6.74	ug/kg	0.92	3.0	1		7/17/2015 10:10	7/28/2015 15:59	RPN	EPA 8270D-SIM

CT LAB Sample#: 606378 Sample Description: S305

Sampled: 7/8/2015 1205

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Solids, Percent	93.0	%	0.1	0.1	1			7/13/2015 10:42	ABS	EPA 8000C
Metals Results										
Arsenic	0.59	mg/kg	0.26 *	0.94	1		7/14/2015 07:00	7/14/2015 20:18	NAH	EPA 6010C
Barium	13.8	mg/kg	0.034	0.12	1		7/14/2015 07:00	7/14/2015 20:18	NAH	EPA 6010C
Cadmium	<0.016	mg/kg	0.016	0.055	1		7/14/2015 07:00	7/14/2015 20:18	NAH	EPA 6010C
Chromium	4.1	mg/kg	0.060	0.19	1		7/14/2015 07:00	7/14/2015 20:18	NAH	EPA 6010C
Lead	10.3	mg/kg	0.22	0.74	1		7/14/2015 07:00	7/14/2015 20:18	NAH	EPA 6010C
Selenium	<0.43	mg/kg	0.43	1.4	1		7/14/2015 07:00	7/14/2015 20:18	NAH	EPA 6010C

CT LAB Sample#: 606378 Sample Description: S305

Sampled: 7/8/2015 1205

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Silver	<0.10	mg/kg	0.10	0.33	1		7/14/2015 07:00	7/16/2015 14:54	NAH	EPA 6010C
Mercury	0.044	mg/kg	0.0019	0.0060	1		7/17/2015 10:30	7/21/2015 08:03	LJF	EPA 7471B
Organic Results										
1,1,1,2-Tetrachloroethane	<0.023	mg/kg	0.020	0.069	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.014	mg/kg	0.012	0.040	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.014	mg/kg	0.012	0.041	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.015	mg/kg	0.013	0.043	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
1,1-Dichloroethane	<0.015	mg/kg	0.013	0.045	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
1,1-Dichloroethene	<0.015	mg/kg	0.013	0.045	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
1,1-Dichloropropene	<0.019	mg/kg	0.017	0.055	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.029	mg/kg	0.026	0.085	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.014	mg/kg	0.012	0.040	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.024	mg/kg	0.021	0.072	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.027	mg/kg	0.024	0.079	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	mg/kg	0.027	0.088	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
1,2-Dibromoethane	<0.014	mg/kg	0.012	0.041	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.028	mg/kg	0.025	0.083	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
1,2-Dichloroethane	<0.014	mg/kg	0.012	0.042	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
1,2-Dichloropropane	<0.017	mg/kg	0.015	0.051	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.030	mg/kg	0.027	0.088	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.024	mg/kg	0.021	0.070	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
1,3-Dichloropropane	<0.012	mg/kg	0.011	0.035	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.022	mg/kg	0.019	0.065	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
2,2-Dichloropropane	<0.011	mg/kg	0.0097	0.032	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
2-Butanone	<0.18	mg/kg	0.16	0.54	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606378 Sample Description: S305

Sampled: 7/8/2015 1205

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Chlorotoluene	<0.026	mg/kg	0.023	0.077	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
2-Hexanone	<0.14	mg/kg	0.12	0.41	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
4-Chlorotoluene	<0.028	mg/kg	0.025	0.083	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.11	mg/kg	0.097	0.34	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Acetone	<0.19	mg/kg	0.17	0.55	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Benzene	<0.011	mg/kg	0.0097	0.031	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Bromobenzene	<0.014	mg/kg	0.012	0.040	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Bromochloromethane	<0.016	mg/kg	0.014	0.047	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Bromodichloromethane	<0.015	mg/kg	0.013	0.043	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Bromoform	<0.012	mg/kg	0.011	0.034	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Bromomethane	<0.040	mg/kg	0.035	0.11	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Carbon disulfide	<0.025	mg/kg	0.022	0.072	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Carbon tetrachloride	<0.011	mg/kg	0.0097	0.033	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Chlorobenzene	<0.029	mg/kg	0.026	0.085	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Chloroethane	<0.015	mg/kg	0.013	0.045	1	Z	7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Chloroform	<0.025	mg/kg	0.022	0.072	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Chloromethane	<0.020	mg/kg	0.018	0.059	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.011	mg/kg	0.0097	0.032	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	mg/kg	0.0097	0.032	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Dibromochloromethane	<0.016	mg/kg	0.014	0.048	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Dibromomethane	<0.014	mg/kg	0.012	0.042	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Dichlorodifluoromethane	<0.022	mg/kg	0.019	0.064	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Diisopropyl ether	<0.029	mg/kg	0.026	0.086	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Ethylbenzene	<0.012	mg/kg	0.011	0.034	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Hexachlorobutadiene	<0.030	mg/kg	0.027	0.088	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C

CT LAB Sample#: 606378 Sample Description: S305

Sampled: 7/8/2015 1205

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Isopropylbenzene	<0.011	mg/kg	0.0097	0.033	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
m & p-Xylene	<0.024	mg/kg	0.021	0.071	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Methyl tert-butyl ether	<0.012	mg/kg	0.011	0.035	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Methylene chloride	<0.030	mg/kg	0.027	0.097	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
n-Butylbenzene	<0.027	mg/kg	0.024	0.080	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
n-Propylbenzene	<0.025	mg/kg	0.022	0.074	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Naphthalene	0.0617	mg/kg	0.024 *	0.079	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
o-Xylene	<0.012	mg/kg	0.011	0.034	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
p-Isopropyltoluene	<0.026	mg/kg	0.023	0.077	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
sec-Butylbenzene	<0.023	mg/kg	0.020	0.067	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Styrene	<0.026	mg/kg	0.023	0.075	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
tert-Butylbenzene	<0.024	mg/kg	0.021	0.071	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Tetrachloroethene	<0.012	mg/kg	0.011	0.035	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Tetrahydrofuran	<0.15	mg/kg	0.13	0.44	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Toluene	<0.025	mg/kg	0.022	0.074	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.014	mg/kg	0.012	0.042	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.015	mg/kg	0.013	0.043	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Trichloroethene	<0.012	mg/kg	0.011	0.036	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Trichlorofluoromethane	<0.019	mg/kg	0.017	0.056	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Vinyl acetate	<0.23	mg/kg	0.20	0.69	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
Vinyl chloride	<0.015	mg/kg	0.013	0.045	1		7/15/2015 10:32	7/19/2015 10:36	RLD	EPA 8260C
1-Methylnaphthalene	9.42	ug/kg	0.28	2.1	1		7/17/2015 10:10	7/28/2015 17:56	RPN	EPA 8270D-SIM
2-Methylnaphthalene	10.2	ug/kg	0.43	2.1	1		7/17/2015 10:10	7/28/2015 17:56	RPN	EPA 8270D-SIM
Acenaphthene	38.5	ug/kg	0.31	2.1	1		7/17/2015 10:10	7/28/2015 17:56	RPN	EPA 8270D-SIM
Acenaphthylene	20.9	ug/kg	0.28	2.1	1		7/17/2015 10:10	7/28/2015 17:56	RPN	EPA 8270D-SIM

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606378 Sample Description: S305

Sampled: 7/8/2015 1205

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Anthracene	200	ug/kg	0.43	2.1	1		7/17/2015 10:10	7/28/2015 17:56	RPN	EPA 8270D-SIM
Benzo(a)anthracene	778	ug/kg	7.5	26	10		7/17/2015 10:10	7/29/2015 15:48	RPN	EPA 8270D-SIM
Benzo(a)pyrene	614	ug/kg	8.6	29	10		7/17/2015 10:10	7/29/2015 15:48	RPN	EPA 8270D-SIM
Benzo(b)fluoranthene	835	ug/kg	9.6	32	10		7/17/2015 10:10	7/29/2015 15:48	RPN	EPA 8270D-SIM
Benzo(g,h,i)perylene	198	ug/kg	1.2	3.9	1		7/17/2015 10:10	7/28/2015 17:56	RPN	EPA 8270D-SIM
Benzo(k)fluoranthene	186	ug/kg	0.96	3.4	1		7/17/2015 10:10	7/28/2015 17:56	RPN	EPA 8270D-SIM
Chrysene	616	ug/kg	6.4	23	10		7/17/2015 10:10	7/29/2015 15:48	RPN	EPA 8270D-SIM
Dibenzo(a,h)anthracene	48.9	ug/kg	1.2	4.0	1		7/17/2015 10:10	7/28/2015 17:56	RPN	EPA 8270D-SIM
Fluoranthene	1510	ug/kg	13	42	10		7/17/2015 10:10	7/29/2015 15:48	RPN	EPA 8270D-SIM
Fluorene	48.4	ug/kg	0.43	2.1	1		7/17/2015 10:10	7/28/2015 17:56	RPN	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	194	ug/kg	1.2	4.0	1		7/17/2015 10:10	7/28/2015 17:56	RPN	EPA 8270D-SIM
Naphthalene	23.6	ug/kg	0.28	2.1	1		7/17/2015 10:10	7/28/2015 17:56	RPN	EPA 8270D-SIM
Phenanthrene	861	ug/kg	11	35	10		7/17/2015 10:10	7/29/2015 15:48	RPN	EPA 8270D-SIM
Pyrene	1200	ug/kg	9.6	31	10		7/17/2015 10:10	7/29/2015 15:48	RPN	EPA 8270D-SIM

CT LAB Sample#: 606379 Sample Description: S404

Sampled: 7/8/2015 1328

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Solids, Percent	85.6	%	0.1	0.1	1			7/13/2015 10:42	ABS	EPA 8000C
Metals Results										
Arsenic	2.9	mg/kg	0.30	1.1	1		7/14/2015 07:00	7/14/2015 20:23	NAH	EPA 6010C
Barium	145	mg/kg	0.040	0.14	1		7/14/2015 07:00	7/14/2015 20:23	NAH	EPA 6010C
Cadmium	0.17	mg/kg	0.019	0.063	1		7/14/2015 07:00	7/14/2015 20:23	NAH	EPA 6010C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606379 Sample Description: S404

Sampled: 7/8/2015 1328

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chromium	7.4	mg/kg	0.069	0.22	1		7/14/2015 07:00	7/14/2015 20:23	NAH	EPA 6010C
Lead	108	mg/kg	0.26	0.86	1		7/14/2015 07:00	7/14/2015 20:23	NAH	EPA 6010C
Selenium	<0.50	mg/kg	0.50	1.6	1		7/14/2015 07:00	7/14/2015 20:23	NAH	EPA 6010C
Silver	<0.12	mg/kg	0.12	0.39	1		7/14/2015 07:00	7/14/2015 20:23	NAH	EPA 6010C
Mercury	0.11	mg/kg	0.0020	0.0067	1		7/17/2015 10:30	7/21/2015 08:08	LJF	EPA 7471B
Organic Results										
1,1,1,2-Tetrachloroethane	<0.023	mg/kg	0.022	0.076	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.014	mg/kg	0.014	0.044	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.014	mg/kg	0.014	0.045	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.015	mg/kg	0.015	0.048	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
1,1-Dichloroethane	<0.015	mg/kg	0.015	0.050	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
1,1-Dichloroethene	<0.015	mg/kg	0.015	0.050	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
1,1-Dichloropropene	<0.019	mg/kg	0.019	0.061	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.029	mg/kg	0.028	0.094	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.014	mg/kg	0.014	0.044	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.024	mg/kg	0.023	0.079	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.027	mg/kg	0.026	0.087	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	mg/kg	0.029	0.098	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
1,2-Dibromoethane	<0.014	mg/kg	0.014	0.045	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.028	mg/kg	0.027	0.092	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
1,2-Dichloroethane	<0.014	mg/kg	0.014	0.046	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
1,2-Dichloropropane	<0.017	mg/kg	0.017	0.057	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.030	mg/kg	0.029	0.098	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.024	mg/kg	0.023	0.077	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
1,3-Dichloropropane	<0.012	mg/kg	0.012	0.039	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606379 Sample Description: S404

Sampled: 7/8/2015 1328

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dichlorobenzene	<0.022	mg/kg	0.021	0.071	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
2,2-Dichloropropane	<0.011	mg/kg	0.011	0.035	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
2-Butanone	<0.18	mg/kg	0.18	0.60	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
2-Chlorotoluene	<0.026	mg/kg	0.025	0.085	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
2-Hexanone	<0.14	mg/kg	0.14	0.45	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
4-Chlorotoluene	<0.028	mg/kg	0.027	0.092	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.11	mg/kg	0.11	0.37	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Acetone	<0.19	mg/kg	0.19	0.61	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Benzene	<0.011	mg/kg	0.011	0.034	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Bromobenzene	<0.014	mg/kg	0.014	0.044	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Bromochloromethane	<0.016	mg/kg	0.016	0.052	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Bromodichloromethane	<0.015	mg/kg	0.015	0.048	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Bromoform	<0.012	mg/kg	0.012	0.038	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Bromomethane	<0.040	mg/kg	0.039	0.13	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Carbon disulfide	<0.025	mg/kg	0.024	0.080	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Carbon tetrachloride	<0.011	mg/kg	0.011	0.036	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Chlorobenzene	<0.029	mg/kg	0.028	0.094	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Chloroethane	<0.015	mg/kg	0.015	0.050	1	Z	7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Chloroform	<0.025	mg/kg	0.024	0.080	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Chloromethane	<0.020	mg/kg	0.020	0.065	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.011	mg/kg	0.011	0.035	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	mg/kg	0.011	0.035	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Dibromochloromethane	<0.016	mg/kg	0.016	0.053	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Dibromomethane	<0.014	mg/kg	0.014	0.046	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Dichlorodifluoromethane	<0.022	mg/kg	0.021	0.070	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606379 Sample Description: S404

Sampled: 7/8/2015 1328

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Diisopropyl ether	<0.029	mg/kg	0.028	0.095	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Ethylbenzene	<0.012	mg/kg	0.012	0.038	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Hexachlorobutadiene	<0.030	mg/kg	0.029	0.098	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Isopropylbenzene	<0.011	mg/kg	0.011	0.036	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
m & p-Xylene	<0.024	mg/kg	0.023	0.078	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Methyl tert-butyl ether	<0.012	mg/kg	0.012	0.039	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Methylene chloride	<0.030	mg/kg	0.029	0.11	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
n-Butylbenzene	<0.027	mg/kg	0.026	0.088	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
n-Propylbenzene	<0.025	mg/kg	0.024	0.082	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Naphthalene	0.0710	mg/kg	0.026 *	0.087	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
o-Xylene	<0.012	mg/kg	0.012	0.038	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
p-Isopropyltoluene	<0.026	mg/kg	0.025	0.085	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
sec-Butylbenzene	<0.023	mg/kg	0.022	0.074	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Styrene	<0.026	mg/kg	0.025	0.083	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
tert-Butylbenzene	<0.024	mg/kg	0.023	0.078	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Tetrachloroethene	0.109	mg/kg	0.012	0.039	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Tetrahydrofuran	<0.15	mg/kg	0.15	0.49	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Toluene	<0.025	mg/kg	0.024	0.082	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.014	mg/kg	0.014	0.046	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.015	mg/kg	0.015	0.048	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Trichloroethene	<0.012	mg/kg	0.012	0.040	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Trichlorofluoromethane	<0.019	mg/kg	0.019	0.061	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Vinyl acetate	<0.23	mg/kg	0.22	0.76	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
Vinyl chloride	<0.015	mg/kg	0.015	0.050	1		7/15/2015 10:32	7/19/2015 11:05	RLD	EPA 8260C
1-Methylnaphthalene	459	ug/kg	1.5	12	5		7/17/2015 10:10	7/28/2015 19:53	RPN	EPA 8270D-SIM

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606379 Sample Description: S404

Sampled: 7/8/2015 1328

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Methylnaphthalene	492	ug/kg	2.3	12	5		7/17/2015 10:10	7/28/2015 19:53	RPN	EPA 8270D-SIM
Acenaphthene	1610	ug/kg	67	470	200		7/17/2015 10:10	7/29/2015 16:08	RPN	EPA 8270D-SIM
Acenaphthylene	335	ug/kg	1.5	12	5		7/17/2015 10:10	7/28/2015 19:53	RPN	EPA 8270D-SIM
Anthracene	11100	ug/kg	93	470	200		7/17/2015 10:10	7/29/2015 16:08	RPN	EPA 8270D-SIM
Benzo(a)anthracene	26300	ug/kg	160	560	200		7/17/2015 10:10	7/29/2015 16:08	RPN	EPA 8270D-SIM
Benzo(a)pyrene	24100	ug/kg	190	630	200		7/17/2015 10:10	7/29/2015 16:08	RPN	EPA 8270D-SIM
Benzo(b)fluoranthene	32800	ug/kg	210	700	200		7/17/2015 10:10	7/29/2015 16:08	RPN	EPA 8270D-SIM
Benzo(g,h,i)perylene	22800	ug/kg	260	840	200		7/17/2015 10:10	7/29/2015 16:08	RPN	EPA 8270D-SIM
Benzo(k)fluoranthene	9630	ug/kg	210	740	200		7/17/2015 10:10	7/29/2015 16:08	RPN	EPA 8270D-SIM
Chrysene	25700	ug/kg	140	490	200		7/17/2015 10:10	7/29/2015 16:08	RPN	EPA 8270D-SIM
Dibenzo(a,h)anthracene	3810	ug/kg	260	860	200		7/17/2015 10:10	7/29/2015 16:08	RPN	EPA 8270D-SIM
Fluoranthene	56900	ug/kg	560	1800	400		7/17/2015 10:10	7/29/2015 17:45	RPN	EPA 8270D-SIM
Fluorene	1900	ug/kg	93	470	200		7/17/2015 10:10	7/29/2015 16:08	RPN	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	18100	ug/kg	260	860	200		7/17/2015 10:10	7/29/2015 16:08	RPN	EPA 8270D-SIM
Naphthalene	914	ug/kg	1.5	12	5		7/17/2015 10:10	7/28/2015 19:53	RPN	EPA 8270D-SIM
Phenanthrene	44400	ug/kg	230	770	200		7/17/2015 10:10	7/29/2015 16:08	RPN	EPA 8270D-SIM
Pyrene	48900	ug/kg	420	1300	400		7/17/2015 10:10	7/29/2015 17:45	RPN	EPA 8270D-SIM

CT LAB Sample#: 606380 Sample Description: S502

Sampled: 7/8/2015 1450

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Solids, Percent	93.4	%	0.1	0.1	1			7/13/2015 10:42	ABS	EPA 8000C

Metals Results

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606380 Sample Description: S502

Sampled: 7/8/2015 1450

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Arsenic	<0.29	mg/kg	0.29	1.1	1		7/14/2015 07:00	7/14/2015 20:27	NAH	EPA 6010C
Barium	97.5	mg/kg	0.038	0.13	1		7/14/2015 07:00	7/14/2015 20:27	NAH	EPA 6010C
Cadmium	<0.018	mg/kg	0.018	0.061	1		7/14/2015 07:00	7/14/2015 20:27	NAH	EPA 6010C
Chromium	3.5	mg/kg	0.067	0.21	1		7/14/2015 07:00	7/14/2015 20:27	NAH	EPA 6010C
Lead	3.5	mg/kg	0.25	0.83	1		7/14/2015 07:00	7/14/2015 20:27	NAH	EPA 6010C
Selenium	<0.48	mg/kg	0.48	1.5	1		7/14/2015 07:00	7/14/2015 20:27	NAH	EPA 6010C
Silver	<0.11	mg/kg	0.11	0.37	1		7/14/2015 07:00	7/14/2015 20:27	NAH	EPA 6010C
Mercury	0.0049	mg/kg	0.0018 *	0.0058	1		7/17/2015 10:30	7/21/2015 08:10	LJF	EPA 7471B
Organic Results										
1,1,1,2-Tetrachloroethane	<0.023	mg/kg	0.020	0.068	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.014	mg/kg	0.012	0.039	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.014	mg/kg	0.012	0.040	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.015	mg/kg	0.013	0.043	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
1,1-Dichloroethane	<0.015	mg/kg	0.013	0.045	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
1,1-Dichloroethene	<0.015	mg/kg	0.013	0.045	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
1,1-Dichloropropene	<0.019	mg/kg	0.017	0.054	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.029	mg/kg	0.025	0.084	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.014	mg/kg	0.012	0.039	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.024	mg/kg	0.021	0.071	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.027	mg/kg	0.024	0.078	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	mg/kg	0.026	0.088	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
1,2-Dibromoethane	<0.014	mg/kg	0.012	0.040	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.028	mg/kg	0.025	0.082	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
1,2-Dichloroethane	<0.014	mg/kg	0.012	0.041	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
1,2-Dichloropropane	<0.017	mg/kg	0.015	0.051	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606380 Sample Description: S502

Sampled: 7/8/2015 1450

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3,5-Trimethylbenzene	<0.030	mg/kg	0.026	0.088	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.024	mg/kg	0.021	0.069	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
1,3-Dichloropropane	<0.012	mg/kg	0.011	0.035	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.022	mg/kg	0.019	0.064	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
2,2-Dichloropropane	<0.011	mg/kg	0.0096	0.032	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
2-Butanone	<0.18	mg/kg	0.16	0.53	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
2-Chlorotoluene	<0.026	mg/kg	0.023	0.076	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
2-Hexanone	<0.14	mg/kg	0.12	0.40	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
4-Chlorotoluene	<0.028	mg/kg	0.025	0.082	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.11	mg/kg	0.096	0.33	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Acetone	<0.19	mg/kg	0.17	0.54	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Benzene	<0.011	mg/kg	0.0096	0.031	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Bromobenzene	<0.014	mg/kg	0.012	0.039	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Bromochloromethane	<0.016	mg/kg	0.014	0.046	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Bromodichloromethane	<0.015	mg/kg	0.013	0.043	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Bromoform	<0.012	mg/kg	0.011	0.034	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Bromomethane	<0.040	mg/kg	0.035	0.11	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Carbon disulfide	<0.025	mg/kg	0.022	0.072	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Carbon tetrachloride	<0.011	mg/kg	0.0096	0.032	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Chlorobenzene	<0.029	mg/kg	0.025	0.084	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Chloroethane	<0.015	mg/kg	0.013	0.045	1	Z	7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Chloroform	<0.025	mg/kg	0.022	0.072	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Chloromethane	<0.020	mg/kg	0.018	0.059	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.011	mg/kg	0.0096	0.032	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	mg/kg	0.0096	0.032	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606380 Sample Description: S502

Sampled: 7/8/2015 1450

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibromochloromethane	<0.016	mg/kg	0.014	0.047	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Dibromomethane	<0.014	mg/kg	0.012	0.041	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Dichlorodifluoromethane	<0.022	mg/kg	0.019	0.063	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Diisopropyl ether	<0.029	mg/kg	0.025	0.085	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Ethylbenzene	<0.012	mg/kg	0.011	0.034	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Hexachlorobutadiene	<0.030	mg/kg	0.026	0.088	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Isopropylbenzene	<0.011	mg/kg	0.0096	0.032	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
m & p-Xylene	<0.024	mg/kg	0.021	0.070	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Methyl tert-butyl ether	<0.012	mg/kg	0.011	0.035	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Methylene chloride	<0.030	mg/kg	0.026	0.096	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
n-Butylbenzene	<0.027	mg/kg	0.024	0.079	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
n-Propylbenzene	<0.025	mg/kg	0.022	0.074	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Naphthalene	<0.027	mg/kg	0.024	0.078	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
o-Xylene	<0.012	mg/kg	0.011	0.034	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
p-Isopropyltoluene	<0.026	mg/kg	0.023	0.076	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
sec-Butylbenzene	<0.023	mg/kg	0.020	0.067	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Styrene	<0.026	mg/kg	0.023	0.074	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
tert-Butylbenzene	<0.024	mg/kg	0.021	0.070	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Tetrachloroethene	<0.012	mg/kg	0.011	0.035	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Tetrahydrofuran	<0.15	mg/kg	0.13	0.44	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Toluene	<0.025	mg/kg	0.022	0.074	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.014	mg/kg	0.012	0.041	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.015	mg/kg	0.013	0.043	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Trichloroethene	<0.012	mg/kg	0.011	0.036	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Trichlorofluoromethane	<0.019	mg/kg	0.017	0.055	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606380 Sample Description: S502

Sampled: 7/8/2015 1450

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Vinyl acetate	<0.23	mg/kg	0.20	0.68	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
Vinyl chloride	<0.015	mg/kg	0.013	0.045	1		7/15/2015 10:32	7/19/2015 11:34	RLD	EPA 8260C
1-Methylnaphthalene	<0.28	ug/kg	0.28	2.1	1		7/17/2015 10:10	7/28/2015 16:19	RPN	EPA 8270D-SIM
2-Methylnaphthalene	0.723	ug/kg	0.43 *	2.1	1		7/17/2015 10:10	7/28/2015 16:19	RPN	EPA 8270D-SIM
Acenaphthene	<0.31	ug/kg	0.31	2.1	1		7/17/2015 10:10	7/28/2015 16:19	RPN	EPA 8270D-SIM
Acenaphthylene	<0.28	ug/kg	0.28	2.1	1		7/17/2015 10:10	7/28/2015 16:19	RPN	EPA 8270D-SIM
Anthracene	<0.43	ug/kg	0.43	2.1	1		7/17/2015 10:10	7/28/2015 16:19	RPN	EPA 8270D-SIM
Benzo(a)anthracene	1.62	ug/kg	0.75 *	2.6	1		7/17/2015 10:10	7/28/2015 16:19	RPN	EPA 8270D-SIM
Benzo(a)pyrene	1.60	ug/kg	0.86 *	2.9	1		7/17/2015 10:10	7/28/2015 16:19	RPN	EPA 8270D-SIM
Benzo(b)fluoranthene	2.56	ug/kg	0.96 *	3.2	1		7/17/2015 10:10	7/28/2015 16:19	RPN	EPA 8270D-SIM
Benzo(g,h,i)perylene	2.19	ug/kg	1.2 *	3.9	1		7/17/2015 10:10	7/28/2015 16:19	RPN	EPA 8270D-SIM
Benzo(k)fluoranthene	<0.96	ug/kg	0.96	3.4	1		7/17/2015 10:10	7/28/2015 16:19	RPN	EPA 8270D-SIM
Chrysene	1.38	ug/kg	0.64 *	2.2	1		7/17/2015 10:10	7/28/2015 16:19	RPN	EPA 8270D-SIM
Dibenzo(a,h)anthracene	<1.2	ug/kg	1.2	4.0	1		7/17/2015 10:10	7/28/2015 16:19	RPN	EPA 8270D-SIM
Fluoranthene	1.72	ug/kg	1.3 *	4.2	1		7/17/2015 10:10	7/28/2015 16:19	RPN	EPA 8270D-SIM
Fluorene	<0.43	ug/kg	0.43	2.1	1		7/17/2015 10:10	7/28/2015 16:19	RPN	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	1.66	ug/kg	1.2 *	4.0	1		7/17/2015 10:10	7/28/2015 16:19	RPN	EPA 8270D-SIM
Naphthalene	0.678	ug/kg	0.28 *	2.1	1		7/17/2015 10:10	7/28/2015 16:19	RPN	EPA 8270D-SIM
Phenanthrene	1.30	ug/kg	1.1 *	3.5	1		7/17/2015 10:10	7/28/2015 16:19	RPN	EPA 8270D-SIM
Pyrene	2.31	ug/kg	0.96 *	3.1	1		7/17/2015 10:10	7/28/2015 16:19	RPN	EPA 8270D-SIM

CT LAB Sample#: 606381 Sample Description: S604

Sampled: 7/9/2015 0755

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
---------	--------	-------	-----	-----	----------	-----------	----------------	--------------------	---------	--------

CT LAB Sample#: 606381 Sample Description: S604

Sampled: 7/9/2015 0755

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Solids, Percent	80.8	%	0.1	0.1	1			7/13/2015 10:42	ABS	EPA 8000C
Metals Results										
Arsenic	0.72	mg/kg	0.30 *	1.1	1		7/14/2015 07:00	7/14/2015 20:31	NAH	EPA 6010C
Barium	108	mg/kg	0.040	0.14	1		7/14/2015 07:00	7/14/2015 20:31	NAH	EPA 6010C
Cadmium	0.092	mg/kg	0.019	0.064	1		7/14/2015 07:00	7/14/2015 20:31	NAH	EPA 6010C
Chromium	6.9	mg/kg	0.070	0.22	1		7/14/2015 07:00	7/14/2015 20:31	NAH	EPA 6010C
Lead	50.1	mg/kg	0.26	0.87	1		7/14/2015 07:00	7/14/2015 20:31	NAH	EPA 6010C
Selenium	<0.50	mg/kg	0.50	1.6	1		7/14/2015 07:00	7/14/2015 20:31	NAH	EPA 6010C
Silver	<0.12	mg/kg	0.12	0.39	1		7/14/2015 07:00	7/14/2015 20:31	NAH	EPA 6010C
Mercury	0.036	mg/kg	0.0022	0.0072	1		7/17/2015 10:30	7/21/2015 08:12	LJF	EPA 7471B
Organic Results										
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.025	0.084	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.015	mg/kg	0.015	0.048	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.015	mg/kg	0.015	0.049	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.016	mg/kg	0.016	0.052	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
1,1-Dichloroethane	<0.016	mg/kg	0.016	0.055	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
1,1-Dichloroethene	<0.016	mg/kg	0.016	0.055	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
1,1-Dichloropropene	<0.020	mg/kg	0.020	0.066	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.031	mg/kg	0.031	0.10	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.015	mg/kg	0.015	0.048	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.026	mg/kg	0.026	0.087	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
1,2,4-Trimethylbenzene	0.0388	mg/kg	0.029 *	0.095	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.032	mg/kg	0.032	0.11	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606381 Sample Description: S604

Sampled: 7/9/2015 0755

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dibromoethane	<0.015	mg/kg	0.015	0.049	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.030	mg/kg	0.030	0.10	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
1,2-Dichloroethane	<0.015	mg/kg	0.015	0.050	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
1,2-Dichloropropane	<0.018	mg/kg	0.018	0.062	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.032	mg/kg	0.032	0.11	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.026	mg/kg	0.026	0.085	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
1,3-Dichloropropane	<0.013	mg/kg	0.013	0.043	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.024	mg/kg	0.024	0.078	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
2,2-Dichloropropane	<0.012	mg/kg	0.012	0.039	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
2-Butanone	<0.19	mg/kg	0.19	0.65	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
2-Chlorotoluene	<0.028	mg/kg	0.028	0.093	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
2-Hexanone	<0.15	mg/kg	0.15	0.49	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
4-Chlorotoluene	<0.030	mg/kg	0.030	0.10	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.12	mg/kg	0.12	0.41	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Acetone	<0.20	mg/kg	0.20	0.66	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Benzene	<0.012	mg/kg	0.012	0.037	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Bromobenzene	<0.015	mg/kg	0.015	0.048	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Bromochloromethane	<0.017	mg/kg	0.017	0.057	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Bromodichloromethane	<0.016	mg/kg	0.016	0.052	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Bromoform	<0.013	mg/kg	0.013	0.042	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Bromomethane	<0.043	mg/kg	0.043	0.14	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Carbon disulfide	<0.027	mg/kg	0.027	0.088	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Carbon tetrachloride	<0.012	mg/kg	0.012	0.040	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Chlorobenzene	<0.031	mg/kg	0.031	0.10	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Chloroethane	<0.016	mg/kg	0.016	0.055	1	Z	7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606381 Sample Description: S604

Sampled: 7/9/2015 0755

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chloroform	<0.027	mg/kg	0.027	0.088	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Chloromethane	<0.021	mg/kg	0.021	0.072	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.012	mg/kg	0.012	0.039	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.012	mg/kg	0.012	0.039	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Dibromochloromethane	<0.017	mg/kg	0.017	0.058	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Dibromomethane	<0.015	mg/kg	0.015	0.050	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Dichlorodifluoromethane	<0.024	mg/kg	0.024	0.077	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Diisopropyl ether	<0.031	mg/kg	0.031	0.10	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Ethylbenzene	<0.013	mg/kg	0.013	0.042	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Hexachlorobutadiene	<0.032	mg/kg	0.032	0.11	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Isopropylbenzene	<0.012	mg/kg	0.012	0.040	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
m & p-Xylene	0.0483	mg/kg	0.026 *	0.086	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Methyl tert-butyl ether	<0.013	mg/kg	0.013	0.043	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Methylene chloride	<0.032	mg/kg	0.032	0.12	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
n-Butylbenzene	<0.029	mg/kg	0.029	0.096	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
n-Propylbenzene	<0.027	mg/kg	0.027	0.090	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Naphthalene	0.119	mg/kg	0.029	0.095	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
o-Xylene	0.0299	mg/kg	0.013 *	0.042	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
p-Isopropyltoluene	<0.028	mg/kg	0.028	0.093	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
sec-Butylbenzene	<0.025	mg/kg	0.025	0.081	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Styrene	<0.028	mg/kg	0.028	0.091	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
tert-Butylbenzene	<0.026	mg/kg	0.026	0.086	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Tetrachloroethene	<0.013	mg/kg	0.013	0.043	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Tetrahydrofuran	<0.16	mg/kg	0.16	0.54	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Toluene	<0.027	mg/kg	0.027	0.090	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606381 Sample Description: S604

Sampled: 7/9/2015 0755

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
trans-1,2-Dichloroethene	<0.015	mg/kg	0.015	0.050	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.016	mg/kg	0.016	0.052	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Trichloroethene	<0.013	mg/kg	0.013	0.044	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Trichlorofluoromethane	<0.020	mg/kg	0.020	0.067	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Vinyl acetate	<0.25	mg/kg	0.25	0.84	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
Vinyl chloride	<0.016	mg/kg	0.016	0.055	1		7/15/2015 10:32	7/19/2015 12:03	RLD	EPA 8260C
1-Methylnaphthalene	784	ug/kg	1.6	12	5		7/17/2015 10:10	7/28/2015 20:13	RPN	EPA 8270D-SIM
2-Methylnaphthalene	902	ug/kg	2.5	12	5		7/17/2015 10:10	7/28/2015 20:13	RPN	EPA 8270D-SIM
Acenaphthene	24.6	ug/kg	1.8	12	5		7/17/2015 10:10	7/28/2015 20:13	RPN	EPA 8270D-SIM
Acenaphthylene	183	ug/kg	1.6	12	5		7/17/2015 10:10	7/28/2015 20:13	RPN	EPA 8270D-SIM
Anthracene	215	ug/kg	2.5	12	5		7/17/2015 10:10	7/28/2015 20:13	RPN	EPA 8270D-SIM
Benzo(a)anthracene	1060	ug/kg	4.3	15	5		7/17/2015 10:10	7/28/2015 20:13	RPN	EPA 8270D-SIM
Benzo(a)pyrene	836	ug/kg	4.9	17	5		7/17/2015 10:10	7/28/2015 20:13	RPN	EPA 8270D-SIM
Benzo(b)fluoranthene	1320	ug/kg	11	37	10		7/17/2015 10:10	7/29/2015 15:09	RPN	EPA 8270D-SIM
Benzo(g,h,i)perylene	363	ug/kg	6.8	22	5		7/17/2015 10:10	7/28/2015 20:13	RPN	EPA 8270D-SIM
Benzo(k)fluoranthene	388	ug/kg	5.6	20	5		7/17/2015 10:10	7/28/2015 20:13	RPN	EPA 8270D-SIM
Chrysene	1010	ug/kg	3.7	13	5		7/17/2015 10:10	7/28/2015 20:13	RPN	EPA 8270D-SIM
Dibenzo(a,h)anthracene	105	ug/kg	6.8	23	5		7/17/2015 10:10	7/28/2015 20:13	RPN	EPA 8270D-SIM
Fluoranthene	2230	ug/kg	15	48	10		7/17/2015 10:10	7/29/2015 15:09	RPN	EPA 8270D-SIM
Fluorene	61.5	ug/kg	2.5	12	5		7/17/2015 10:10	7/28/2015 20:13	RPN	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	363	ug/kg	6.8	23	5		7/17/2015 10:10	7/28/2015 20:13	RPN	EPA 8270D-SIM
Naphthalene	492	ug/kg	1.6	12	5		7/17/2015 10:10	7/28/2015 20:13	RPN	EPA 8270D-SIM
Phenanthrene	1170	ug/kg	6.2	20	5		7/17/2015 10:10	7/28/2015 20:13	RPN	EPA 8270D-SIM
Pyrene	1550	ug/kg	11	36	10		7/17/2015 10:10	7/29/2015 15:09	RPN	EPA 8270D-SIM

CT LAB Sample#: 606382 Sample Description: S703

Sampled: 7/9/2015 0918

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Solids, Percent	86.5	%	0.1	0.1	1			7/13/2015 10:42	ABS	EPA 8000C
Metals Results										
Arsenic	62.2	mg/kg	0.23	0.84	1		7/14/2015 07:00	7/14/2015 20:35	NAH	EPA 6010C
Barium	116	mg/kg	0.030	0.11	1		7/14/2015 07:00	7/14/2015 20:35	NAH	EPA 6010C
Cadmium	<0.014	mg/kg	0.014	0.049	1		7/14/2015 07:00	7/14/2015 20:35	NAH	EPA 6010C
Chromium	6.4	mg/kg	0.053	0.17	1		7/14/2015 07:00	7/14/2015 20:35	NAH	EPA 6010C
Lead	73900	mg/kg	4.0	13	20		7/14/2015 07:00	7/20/2015 14:15	NAH	EPA 6010C
Selenium	<0.38	mg/kg	0.38	1.2	1		7/14/2015 07:00	7/14/2015 20:35	NAH	EPA 6010C
Silver	1.5	mg/kg	0.091	0.30	1		7/14/2015 07:00	7/14/2015 20:35	NAH	EPA 6010C
Mercury	0.097	mg/kg	0.0021	0.0067	1		7/17/2015 10:30	7/21/2015 08:14	LJF	EPA 7471B
Organic Results										
1,1,1,2-Tetrachloroethane	<0.023	mg/kg	0.021	0.073	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.014	mg/kg	0.013	0.042	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.014	mg/kg	0.013	0.043	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.015	mg/kg	0.014	0.046	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
1,1-Dichloroethane	<0.015	mg/kg	0.014	0.048	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
1,1-Dichloroethene	<0.015	mg/kg	0.014	0.048	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
1,1-Dichloropropene	<0.019	mg/kg	0.018	0.058	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.029	mg/kg	0.027	0.090	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.014	mg/kg	0.013	0.042	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.024	mg/kg	0.022	0.076	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.027	mg/kg	0.025	0.083	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	mg/kg	0.028	0.093	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606382 Sample Description: S703

Sampled: 7/9/2015 0918

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dibromoethane	<0.014	mg/kg	0.013	0.043	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.028	mg/kg	0.026	0.088	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
1,2-Dichloroethane	<0.014	mg/kg	0.013	0.044	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
1,2-Dichloropropane	<0.017	mg/kg	0.016	0.054	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.030	mg/kg	0.028	0.093	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.024	mg/kg	0.022	0.074	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
1,3-Dichloropropane	<0.012	mg/kg	0.011	0.037	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.022	mg/kg	0.021	0.068	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
2,2-Dichloropropane	<0.011	mg/kg	0.010	0.034	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
2-Butanone	<0.18	mg/kg	0.17	0.57	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
2-Chlorotoluene	<0.026	mg/kg	0.024	0.081	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
2-Hexanone	<0.14	mg/kg	0.13	0.43	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
4-Chlorotoluene	<0.028	mg/kg	0.026	0.088	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.11	mg/kg	0.10	0.36	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Acetone	<0.19	mg/kg	0.18	0.58	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Benzene	0.0242	mg/kg	0.010 *	0.033	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Bromobenzene	<0.014	mg/kg	0.013	0.042	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Bromochloromethane	<0.016	mg/kg	0.015	0.050	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Bromodichloromethane	<0.015	mg/kg	0.014	0.046	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Bromoform	<0.012	mg/kg	0.011	0.036	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Bromomethane	<0.040	mg/kg	0.037	0.12	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Carbon disulfide	<0.025	mg/kg	0.023	0.077	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Carbon tetrachloride	<0.011	mg/kg	0.010	0.035	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Chlorobenzene	<0.029	mg/kg	0.027	0.090	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Chloroethane	<0.015	mg/kg	0.014	0.048	1	Z	7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C

CT LAB Sample#: 606382 Sample Description: S703

Sampled: 7/9/2015 0918

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chloroform	<0.025	mg/kg	0.023	0.077	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Chloromethane	<0.020	mg/kg	0.019	0.063	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.011	mg/kg	0.010	0.034	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	mg/kg	0.010	0.034	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Dibromochloromethane	<0.016	mg/kg	0.015	0.050	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Dibromomethane	<0.014	mg/kg	0.013	0.044	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Dichlorodifluoromethane	<0.022	mg/kg	0.021	0.067	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Diisopropyl ether	<0.029	mg/kg	0.027	0.091	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Ethylbenzene	<0.012	mg/kg	0.011	0.036	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Hexachlorobutadiene	<0.030	mg/kg	0.028	0.093	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Isopropylbenzene	<0.011	mg/kg	0.010	0.035	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
m & p-Xylene	0.0290	mg/kg	0.022 *	0.075	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Methyl tert-butyl ether	<0.012	mg/kg	0.011	0.037	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Methylene chloride	<0.030	mg/kg	0.028	0.10	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
n-Butylbenzene	<0.027	mg/kg	0.025	0.084	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
n-Propylbenzene	<0.025	mg/kg	0.023	0.079	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Naphthalene	<0.027	mg/kg	0.025	0.083	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
o-Xylene	0.0121	mg/kg	0.011 *	0.036	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
p-Isopropyltoluene	<0.026	mg/kg	0.024	0.081	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
sec-Butylbenzene	<0.023	mg/kg	0.021	0.071	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Styrene	<0.026	mg/kg	0.024	0.079	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
tert-Butylbenzene	<0.024	mg/kg	0.022	0.075	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Tetrachloroethene	<0.012	mg/kg	0.011	0.037	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Tetrahydrofuran	<0.15	mg/kg	0.14	0.47	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Toluene	<0.025	mg/kg	0.023	0.079	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606382 Sample Description: S703

Sampled: 7/9/2015 0918

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
trans-1,2-Dichloroethene	<0.014	mg/kg	0.013	0.044	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.015	mg/kg	0.014	0.046	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Trichloroethene	<0.012	mg/kg	0.011	0.038	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Trichlorofluoromethane	<0.019	mg/kg	0.018	0.059	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Vinyl acetate	<0.23	mg/kg	0.21	0.73	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
Vinyl chloride	<0.015	mg/kg	0.014	0.048	1		7/15/2015 10:32	7/19/2015 12:32	RLD	EPA 8260C
1-Methylnaphthalene	203	ug/kg	0.60	4.6	2		7/17/2015 10:10	7/29/2015 15:29	RPN	EPA 8270D-SIM
2-Methylnaphthalene	246	ug/kg	0.92	4.6	2		7/17/2015 10:10	7/29/2015 15:29	RPN	EPA 8270D-SIM
Acenaphthene	16.4	ug/kg	0.33	2.3	1		7/17/2015 10:10	7/28/2015 18:16	RPN	EPA 8270D-SIM
Acenaphthylene	46.8	ug/kg	0.30	2.3	1		7/17/2015 10:10	7/28/2015 18:16	RPN	EPA 8270D-SIM
Anthracene	50.3	ug/kg	0.46	2.3	1		7/17/2015 10:10	7/28/2015 18:16	RPN	EPA 8270D-SIM
Benzo(a)anthracene	211	ug/kg	0.80	2.8	1		7/17/2015 10:10	7/28/2015 18:16	RPN	EPA 8270D-SIM
Benzo(a)pyrene	171	ug/kg	0.92	3.1	1		7/17/2015 10:10	7/28/2015 18:16	RPN	EPA 8270D-SIM
Benzo(b)fluoranthene	296	ug/kg	2.1	6.9	2		7/17/2015 10:10	7/29/2015 15:29	RPN	EPA 8270D-SIM
Benzo(g,h,i)perylene	105	ug/kg	1.3	4.1	1		7/17/2015 10:10	7/28/2015 18:16	RPN	EPA 8270D-SIM
Benzo(k)fluoranthene	82.4	ug/kg	1.0	3.7	1		7/17/2015 10:10	7/28/2015 18:16	RPN	EPA 8270D-SIM
Chrysene	229	ug/kg	0.69	2.4	1		7/17/2015 10:10	7/28/2015 18:16	RPN	EPA 8270D-SIM
Dibenzo(a,h)anthracene	27.1	ug/kg	1.3	4.2	1		7/17/2015 10:10	7/28/2015 18:16	RPN	EPA 8270D-SIM
Fluoranthene	353	ug/kg	2.8	8.9	2		7/17/2015 10:10	7/29/2015 15:29	RPN	EPA 8270D-SIM
Fluorene	22.2	ug/kg	0.46	2.3	1		7/17/2015 10:10	7/28/2015 18:16	RPN	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	91.6	ug/kg	1.3	4.2	1		7/17/2015 10:10	7/28/2015 18:16	RPN	EPA 8270D-SIM
Naphthalene	164	ug/kg	0.30	2.3	1		7/17/2015 10:10	7/28/2015 18:16	RPN	EPA 8270D-SIM
Phenanthrene	320	ug/kg	2.3	7.6	2		7/17/2015 10:10	7/29/2015 15:29	RPN	EPA 8270D-SIM
Pyrene	302	ug/kg	2.1	6.7	2		7/17/2015 10:10	7/29/2015 15:29	RPN	EPA 8270D-SIM

CT LAB Sample#: 606383 Sample Description: S802

Sampled: 7/9/2015 1038

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Solids, Percent	86.3	%	0.1	0.1	1			7/13/2015 10:42	ABS	EPA 8000C
Metals Results										
Arsenic	67.4	mg/kg	0.23	0.86	1		7/14/2015 07:00	7/14/2015 20:39	NAH	EPA 6010C
Barium	104	mg/kg	0.031	0.11	1		7/14/2015 07:00	7/14/2015 20:39	NAH	EPA 6010C
Cadmium	0.035	mg/kg	0.015 *	0.050	1		7/14/2015 07:00	7/14/2015 20:39	NAH	EPA 6010C
Chromium	6.8	mg/kg	0.055	0.17	1		7/14/2015 07:00	7/14/2015 20:39	NAH	EPA 6010C
Lead	41.0	mg/kg	0.20	0.68	1		7/14/2015 07:00	7/14/2015 20:39	NAH	EPA 6010C
Selenium	<0.39	mg/kg	0.39	1.3	1		7/14/2015 07:00	7/14/2015 20:39	NAH	EPA 6010C
Silver	<0.094	mg/kg	0.094	0.31	1		7/14/2015 07:00	7/14/2015 20:39	NAH	EPA 6010C
Mercury	0.14	mg/kg	0.0020	0.0065	1		7/17/2015 10:30	7/21/2015 08:16	LJF	EPA 7471B
Organic Results										
1,1,1,2-Tetrachloroethane	<0.023	mg/kg	0.023	0.077	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.014	mg/kg	0.014	0.045	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.014	mg/kg	0.014	0.046	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.015	mg/kg	0.015	0.049	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
1,1-Dichloroethane	<0.015	mg/kg	0.015	0.051	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
1,1-Dichloroethene	<0.015	mg/kg	0.015	0.051	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
1,1-Dichloropropene	<0.019	mg/kg	0.019	0.061	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.029	mg/kg	0.029	0.095	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.014	mg/kg	0.014	0.045	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.024	mg/kg	0.024	0.080	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.027	mg/kg	0.027	0.088	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	mg/kg	0.030	0.099	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606383 Sample Description: S802

Sampled: 7/9/2015 1038

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dibromoethane	<0.014	mg/kg	0.014	0.046	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.028	mg/kg	0.028	0.093	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
1,2-Dichloroethane	<0.014	mg/kg	0.014	0.047	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
1,2-Dichloropropane	<0.017	mg/kg	0.017	0.058	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.030	mg/kg	0.030	0.099	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.024	mg/kg	0.024	0.078	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
1,3-Dichloropropane	<0.012	mg/kg	0.012	0.040	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.022	mg/kg	0.022	0.072	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
2,2-Dichloropropane	<0.011	mg/kg	0.011	0.036	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
2-Butanone	<0.18	mg/kg	0.18	0.60	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
2-Chlorotoluene	<0.026	mg/kg	0.026	0.086	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
2-Hexanone	<0.14	mg/kg	0.14	0.46	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
4-Chlorotoluene	<0.028	mg/kg	0.028	0.093	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.11	mg/kg	0.11	0.38	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Acetone	<0.19	mg/kg	0.19	0.61	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Benzene	<0.011	mg/kg	0.011	0.035	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Bromobenzene	<0.014	mg/kg	0.014	0.045	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Bromochloromethane	<0.016	mg/kg	0.016	0.053	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Bromodichloromethane	<0.015	mg/kg	0.015	0.049	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Bromoform	<0.012	mg/kg	0.012	0.039	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Bromomethane	<0.040	mg/kg	0.040	0.13	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Carbon disulfide	<0.025	mg/kg	0.025	0.081	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Carbon tetrachloride	<0.011	mg/kg	0.011	0.037	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Chlorobenzene	<0.029	mg/kg	0.029	0.095	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Chloroethane	<0.015	mg/kg	0.015	0.051	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606383 Sample Description: S802

Sampled: 7/9/2015 1038

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chloroform	<0.025	mg/kg	0.025	0.081	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Chloromethane	<0.020	mg/kg	0.020	0.066	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.011	mg/kg	0.011	0.036	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	mg/kg	0.011	0.036	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Dibromochloromethane	<0.016	mg/kg	0.016	0.054	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Dibromomethane	<0.014	mg/kg	0.014	0.047	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Dichlorodifluoromethane	<0.022	mg/kg	0.022	0.071	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Diisopropyl ether	<0.029	mg/kg	0.029	0.096	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Ethylbenzene	<0.012	mg/kg	0.012	0.039	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Hexachlorobutadiene	<0.030	mg/kg	0.030	0.099	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Isopropylbenzene	<0.011	mg/kg	0.011	0.037	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
m & p-Xylene	<0.024	mg/kg	0.024	0.079	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Methyl tert-butyl ether	<0.012	mg/kg	0.012	0.040	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Methylene chloride	<0.030	mg/kg	0.030	0.11	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
n-Butylbenzene	<0.027	mg/kg	0.027	0.089	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
n-Propylbenzene	<0.025	mg/kg	0.025	0.083	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Naphthalene	<0.027	mg/kg	0.027	0.088	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
o-Xylene	<0.012	mg/kg	0.012	0.039	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
p-Isopropyltoluene	<0.026	mg/kg	0.026	0.086	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
sec-Butylbenzene	<0.023	mg/kg	0.023	0.075	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Styrene	<0.026	mg/kg	0.026	0.084	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
tert-Butylbenzene	<0.024	mg/kg	0.024	0.079	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Tetrachloroethene	<0.012	mg/kg	0.012	0.040	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Tetrahydrofuran	<0.15	mg/kg	0.15	0.50	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Toluene	<0.025	mg/kg	0.025	0.083	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606383 Sample Description: S802

Sampled: 7/9/2015 1038

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
trans-1,2-Dichloroethene	<0.014	mg/kg	0.014	0.047	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.015	mg/kg	0.015	0.049	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Trichloroethene	<0.012	mg/kg	0.012	0.041	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Trichlorofluoromethane	<0.019	mg/kg	0.019	0.062	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Vinyl acetate	<0.23	mg/kg	0.23	0.77	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
Vinyl chloride	<0.015	mg/kg	0.015	0.051	1		7/15/2015 10:32	7/20/2015 10:05	RLD	EPA 8260C
1-Methylnaphthalene	174	ug/kg	0.30	2.3	1		7/17/2015 10:10	7/28/2015 18:35	RPN	EPA 8270D-SIM
2-Methylnaphthalene	146	ug/kg	0.46	2.3	1		7/17/2015 10:10	7/28/2015 18:35	RPN	EPA 8270D-SIM
Acenaphthene	3.92	ug/kg	0.34	2.3	1		7/17/2015 10:10	7/28/2015 18:35	RPN	EPA 8270D-SIM
Acenaphthylene	12.8	ug/kg	0.30	2.3	1		7/17/2015 10:10	7/28/2015 18:35	RPN	EPA 8270D-SIM
Anthracene	13.5	ug/kg	0.46	2.3	1		7/17/2015 10:10	7/28/2015 18:35	RPN	EPA 8270D-SIM
Benzo(a)anthracene	87.5	ug/kg	0.81	2.8	1		7/17/2015 10:10	7/28/2015 18:35	RPN	EPA 8270D-SIM
Benzo(a)pyrene	69.8	ug/kg	0.93	3.1	1		7/17/2015 10:10	7/28/2015 18:35	RPN	EPA 8270D-SIM
Benzo(b)fluoranthene	126	ug/kg	1.0	3.5	1		7/17/2015 10:10	7/28/2015 18:35	RPN	EPA 8270D-SIM
Benzo(g,h,i)perylene	48.9	ug/kg	1.3	4.2	1		7/17/2015 10:10	7/28/2015 18:35	RPN	EPA 8270D-SIM
Benzo(k)fluoranthene	28.8	ug/kg	1.0	3.7	1		7/17/2015 10:10	7/28/2015 18:35	RPN	EPA 8270D-SIM
Chrysene	98.3	ug/kg	0.69	2.4	1		7/17/2015 10:10	7/28/2015 18:35	RPN	EPA 8270D-SIM
Dibenzo(a,h)anthracene	11.5	ug/kg	1.3	4.3	1		7/17/2015 10:10	7/28/2015 18:35	RPN	EPA 8270D-SIM
Fluoranthene	83.2	ug/kg	1.4	4.5	1		7/17/2015 10:10	7/28/2015 18:35	RPN	EPA 8270D-SIM
Fluorene	7.82	ug/kg	0.46	2.3	1		7/17/2015 10:10	7/28/2015 18:35	RPN	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	37.8	ug/kg	1.3	4.3	1		7/17/2015 10:10	7/28/2015 18:35	RPN	EPA 8270D-SIM
Naphthalene	38.3	ug/kg	0.30	2.3	1		7/17/2015 10:10	7/28/2015 18:35	RPN	EPA 8270D-SIM
Phenanthrene	122	ug/kg	1.2	3.8	1		7/17/2015 10:10	7/28/2015 18:35	RPN	EPA 8270D-SIM
Pyrene	113	ug/kg	1.0	3.4	1		7/17/2015 10:10	7/28/2015 18:35	RPN	EPA 8270D-SIM

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606384 Sample Description: S902

Sampled: 7/9/2015 1159

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Solids, Percent	96.6	%	0.1	0.1	1			7/13/2015 10:42	ABS	EPA 8000C
Metals Results										
Arsenic	8.4	mg/kg	0.29	1.1	1		7/14/2015 07:00	7/14/2015 20:43	NAH	EPA 6010C
Barium	104	mg/kg	0.038	0.13	1		7/14/2015 07:00	7/14/2015 20:43	NAH	EPA 6010C
Cadmium	<0.018	mg/kg	0.018	0.061	1		7/14/2015 07:00	7/14/2015 20:43	NAH	EPA 6010C
Chromium	5.6	mg/kg	0.067	0.21	1		7/14/2015 07:00	7/14/2015 20:43	NAH	EPA 6010C
Lead	37.7	mg/kg	0.25	0.83	1		7/14/2015 07:00	7/14/2015 20:43	NAH	EPA 6010C
Selenium	<0.48	mg/kg	0.48	1.5	1		7/14/2015 07:00	7/14/2015 20:43	NAH	EPA 6010C
Silver	<0.12	mg/kg	0.12	0.37	1		7/14/2015 07:00	7/14/2015 20:43	NAH	EPA 6010C
Mercury	0.050	mg/kg	0.0017	0.0056	1		7/17/2015 10:30	7/21/2015 08:18	LJF	EPA 7471B
Organic Results										
1,1,1,2-Tetrachloroethane	<0.023	mg/kg	0.020	0.069	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.014	mg/kg	0.012	0.040	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.014	mg/kg	0.012	0.041	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.015	mg/kg	0.013	0.043	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
1,1-Dichloroethane	<0.015	mg/kg	0.013	0.045	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
1,1-Dichloroethene	<0.015	mg/kg	0.013	0.045	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
1,1-Dichloropropene	<0.019	mg/kg	0.017	0.055	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.029	mg/kg	0.026	0.085	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.014	mg/kg	0.012	0.040	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.024	mg/kg	0.021	0.071	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.027	mg/kg	0.024	0.079	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	mg/kg	0.026	0.088	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606384 Sample Description: S902

Sampled: 7/9/2015 1159

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dibromoethane	<0.014	mg/kg	0.012	0.041	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.028	mg/kg	0.025	0.083	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
1,2-Dichloroethane	<0.014	mg/kg	0.012	0.041	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
1,2-Dichloropropane	<0.017	mg/kg	0.015	0.051	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.030	mg/kg	0.026	0.088	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.024	mg/kg	0.021	0.070	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
1,3-Dichloropropane	<0.012	mg/kg	0.011	0.035	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.022	mg/kg	0.019	0.064	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
2,2-Dichloropropane	<0.011	mg/kg	0.0097	0.032	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
2-Butanone	<0.18	mg/kg	0.16	0.54	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
2-Chlorotoluene	<0.026	mg/kg	0.023	0.077	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
2-Hexanone	<0.14	mg/kg	0.12	0.41	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
4-Chlorotoluene	<0.028	mg/kg	0.025	0.083	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.11	mg/kg	0.097	0.34	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Acetone	<0.19	mg/kg	0.17	0.55	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Benzene	<0.011	mg/kg	0.0097	0.031	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Bromobenzene	<0.014	mg/kg	0.012	0.040	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Bromochloromethane	<0.016	mg/kg	0.014	0.047	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Bromodichloromethane	<0.015	mg/kg	0.013	0.043	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Bromoform	<0.012	mg/kg	0.011	0.034	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Bromomethane	<0.040	mg/kg	0.035	0.11	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Carbon disulfide	<0.025	mg/kg	0.022	0.072	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Carbon tetrachloride	<0.011	mg/kg	0.0097	0.033	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Chlorobenzene	<0.029	mg/kg	0.026	0.085	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Chloroethane	<0.015	mg/kg	0.013	0.045	1	Z	7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C

CT LAB Sample#: 606384 Sample Description: S902

Sampled: 7/9/2015 1159

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chloroform	<0.025	mg/kg	0.022	0.072	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Chloromethane	<0.020	mg/kg	0.018	0.059	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.011	mg/kg	0.0097	0.032	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	mg/kg	0.0097	0.032	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Dibromochloromethane	<0.016	mg/kg	0.014	0.048	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Dibromomethane	<0.014	mg/kg	0.012	0.041	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Dichlorodifluoromethane	<0.022	mg/kg	0.019	0.064	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Diisopropyl ether	<0.029	mg/kg	0.026	0.086	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Ethylbenzene	<0.012	mg/kg	0.011	0.034	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Hexachlorobutadiene	<0.030	mg/kg	0.026	0.088	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Isopropylbenzene	<0.011	mg/kg	0.0097	0.033	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
m & p-Xylene	0.0334	mg/kg	0.021 *	0.071	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Methyl tert-butyl ether	<0.012	mg/kg	0.011	0.035	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Methylene chloride	<0.030	mg/kg	0.026	0.097	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
n-Butylbenzene	<0.027	mg/kg	0.024	0.079	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
n-Propylbenzene	<0.025	mg/kg	0.022	0.074	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Naphthalene	0.0316	mg/kg	0.024 *	0.079	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
o-Xylene	0.0191	mg/kg	0.011 *	0.034	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
p-Isopropyltoluene	<0.026	mg/kg	0.023	0.077	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
sec-Butylbenzene	<0.023	mg/kg	0.020	0.067	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Styrene	<0.026	mg/kg	0.023	0.075	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
tert-Butylbenzene	<0.024	mg/kg	0.021	0.071	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Tetrachloroethene	<0.012	mg/kg	0.011	0.035	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Tetrahydrofuran	<0.15	mg/kg	0.13	0.44	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Toluene	0.0270	mg/kg	0.022 *	0.074	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606384 Sample Description: S902

Sampled: 7/9/2015 1159

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
trans-1,2-Dichloroethene	<0.014	mg/kg	0.012	0.041	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.015	mg/kg	0.013	0.043	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Trichloroethene	<0.012	mg/kg	0.011	0.036	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Trichlorofluoromethane	<0.019	mg/kg	0.017	0.056	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Vinyl acetate	<0.23	mg/kg	0.20	0.69	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
Vinyl chloride	<0.015	mg/kg	0.013	0.045	1		7/15/2015 10:32	7/19/2015 13:29	RLD	EPA 8260C
1-Methylnaphthalene	45.3	ug/kg	0.27	2.1	1		7/17/2015 10:10	7/28/2015 18:55	RPN	EPA 8270D-SIM
2-Methylnaphthalene	54.6	ug/kg	0.41	2.1	1		7/17/2015 10:10	7/28/2015 18:55	RPN	EPA 8270D-SIM
Acenaphthene	4.57	ug/kg	0.30	2.1	1		7/17/2015 10:10	7/28/2015 18:55	RPN	EPA 8270D-SIM
Acenaphthylene	35.7	ug/kg	0.27	2.1	1		7/17/2015 10:10	7/28/2015 18:55	RPN	EPA 8270D-SIM
Anthracene	29.2	ug/kg	0.41	2.1	1		7/17/2015 10:10	7/28/2015 18:55	RPN	EPA 8270D-SIM
Benzo(a)anthracene	163	ug/kg	0.72	2.5	1		7/17/2015 10:10	7/28/2015 18:55	RPN	EPA 8270D-SIM
Benzo(a)pyrene	159	ug/kg	0.82	2.8	1		7/17/2015 10:10	7/28/2015 18:55	RPN	EPA 8270D-SIM
Benzo(b)fluoranthene	262	ug/kg	3.7	12	4		7/17/2015 10:10	7/29/2015 16:46	RPN	EPA 8270D-SIM
Benzo(g,h,i)perylene	97.9	ug/kg	1.1	3.7	1		7/17/2015 10:10	7/28/2015 18:55	RPN	EPA 8270D-SIM
Benzo(k)fluoranthene	59.3	ug/kg	0.93	3.3	1		7/17/2015 10:10	7/28/2015 18:55	RPN	EPA 8270D-SIM
Chrysene	161	ug/kg	0.62	2.2	1		7/17/2015 10:10	7/28/2015 18:55	RPN	EPA 8270D-SIM
Dibenzo(a,h)anthracene	21.4	ug/kg	1.1	3.8	1		7/17/2015 10:10	7/28/2015 18:55	RPN	EPA 8270D-SIM
Fluoranthene	273	ug/kg	4.9	16	4		7/17/2015 10:10	7/29/2015 16:46	RPN	EPA 8270D-SIM
Fluorene	8.00	ug/kg	0.41	2.1	1		7/17/2015 10:10	7/28/2015 18:55	RPN	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	79.2	ug/kg	1.1	3.8	1		7/17/2015 10:10	7/28/2015 18:55	RPN	EPA 8270D-SIM
Naphthalene	40.8	ug/kg	0.27	2.1	1		7/17/2015 10:10	7/28/2015 18:55	RPN	EPA 8270D-SIM
Phenanthrene	153	ug/kg	1.0	3.4	1		7/17/2015 10:10	7/28/2015 18:55	RPN	EPA 8270D-SIM
Pyrene	252	ug/kg	3.7	12	4		7/17/2015 10:10	7/29/2015 16:46	RPN	EPA 8270D-SIM

CT LAB Sample#: 606385 Sample Description: S1002

Sampled: 7/9/2015 1349

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Solids, Percent	96.6	%	0.1	0.1	1			7/13/2015 10:42	ABS	EPA 8000C
Metals Results										
Arsenic	4.3	mg/kg	0.27	1.0	1		7/14/2015 07:00	7/14/2015 20:59	NAH	EPA 6010C
Barium	102	mg/kg	0.036	0.13	1		7/14/2015 07:00	7/14/2015 20:59	NAH	EPA 6010C
Cadmium	<0.017	mg/kg	0.017	0.058	1		7/14/2015 07:00	7/14/2015 20:59	NAH	EPA 6010C
Chromium	7.2	mg/kg	0.064	0.20	1		7/14/2015 07:00	7/14/2015 20:59	NAH	EPA 6010C
Lead	35.1	mg/kg	0.24	0.79	1		7/14/2015 07:00	7/14/2015 20:59	NAH	EPA 6010C
Selenium	<0.45	mg/kg	0.45	1.5	1		7/14/2015 07:00	7/14/2015 20:59	NAH	EPA 6010C
Silver	<0.11	mg/kg	0.11	0.35	1		7/14/2015 07:00	7/14/2015 20:59	NAH	EPA 6010C
Mercury	0.052	mg/kg	0.0018	0.0060	1		7/17/2015 10:30	7/21/2015 08:19	LJF	EPA 7471B
Organic Results										
1,1,1,2-Tetrachloroethane	<0.023	mg/kg	0.019	0.065	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.014	mg/kg	0.012	0.038	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.014	mg/kg	0.012	0.038	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.015	mg/kg	0.013	0.041	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
1,1-Dichloroethane	<0.015	mg/kg	0.013	0.043	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
1,1-Dichloroethene	<0.015	mg/kg	0.013	0.043	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
1,1-Dichloropropene	<0.019	mg/kg	0.016	0.052	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.029	mg/kg	0.024	0.080	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.014	mg/kg	0.012	0.038	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.024	mg/kg	0.020	0.068	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.027	mg/kg	0.023	0.074	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	mg/kg	0.025	0.083	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606385 Sample Description: S1002

Sampled: 7/9/2015 1349

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dibromoethane	<0.014	mg/kg	0.012	0.038	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.028	mg/kg	0.023	0.078	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
1,2-Dichloroethane	<0.014	mg/kg	0.012	0.039	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
1,2-Dichloropropane	<0.017	mg/kg	0.014	0.048	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.030	mg/kg	0.025	0.083	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.024	mg/kg	0.020	0.066	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
1,3-Dichloropropane	<0.012	mg/kg	0.010	0.033	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.022	mg/kg	0.018	0.061	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
2,2-Dichloropropane	<0.011	mg/kg	0.0092	0.030	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
2-Butanone	<0.18	mg/kg	0.15	0.51	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
2-Chlorotoluene	<0.026	mg/kg	0.022	0.073	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
2-Hexanone	<0.14	mg/kg	0.12	0.38	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
4-Chlorotoluene	<0.028	mg/kg	0.023	0.078	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.11	mg/kg	0.092	0.32	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Acetone	0.179	mg/kg	0.16 *	0.52	1	Z,Q	7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Benzene	<0.011	mg/kg	0.0092	0.029	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Bromobenzene	<0.014	mg/kg	0.012	0.038	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Bromochloromethane	<0.016	mg/kg	0.013	0.044	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Bromodichloromethane	<0.015	mg/kg	0.013	0.041	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Bromoform	<0.012	mg/kg	0.010	0.033	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Bromomethane	<0.040	mg/kg	0.033	0.11	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Carbon disulfide	0.0266	mg/kg	0.021 *	0.068	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Carbon tetrachloride	<0.011	mg/kg	0.0092	0.031	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Chlorobenzene	<0.029	mg/kg	0.024	0.080	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Chloroethane	<0.015	mg/kg	0.013	0.043	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606385 Sample Description: S1002

Sampled: 7/9/2015 1349

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chloroform	<0.025	mg/kg	0.021	0.068	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Chloromethane	<0.020	mg/kg	0.017	0.056	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.011	mg/kg	0.0092	0.030	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	mg/kg	0.0092	0.030	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Dibromochloromethane	<0.016	mg/kg	0.013	0.045	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Dibromomethane	<0.014	mg/kg	0.012	0.039	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Dichlorodifluoromethane	<0.022	mg/kg	0.018	0.060	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Diisopropyl ether	<0.029	mg/kg	0.024	0.081	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Ethylbenzene	<0.012	mg/kg	0.010	0.033	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Hexachlorobutadiene	<0.030	mg/kg	0.025	0.083	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Isopropylbenzene	<0.011	mg/kg	0.0092	0.031	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
m & p-Xylene	0.0360	mg/kg	0.020 *	0.067	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Methyl tert-butyl ether	<0.012	mg/kg	0.010	0.033	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Methylene chloride	<0.030	mg/kg	0.025	0.092	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
n-Butylbenzene	<0.027	mg/kg	0.023	0.075	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
n-Propylbenzene	<0.025	mg/kg	0.021	0.070	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Naphthalene	<0.027	mg/kg	0.023	0.074	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
o-Xylene	<0.012	mg/kg	0.010	0.033	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
p-Isopropyltoluene	<0.026	mg/kg	0.022	0.073	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
sec-Butylbenzene	<0.023	mg/kg	0.019	0.063	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Styrene	<0.026	mg/kg	0.022	0.071	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
tert-Butylbenzene	<0.024	mg/kg	0.020	0.067	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Tetrachloroethene	<0.012	mg/kg	0.010	0.033	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Tetrahydrofuran	<0.15	mg/kg	0.13	0.42	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Toluene	<0.025	mg/kg	0.021	0.070	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606385 Sample Description: S1002

Sampled: 7/9/2015 1349

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
trans-1,2-Dichloroethene	<0.014	mg/kg	0.012	0.039	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.015	mg/kg	0.013	0.041	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Trichloroethene	<0.012	mg/kg	0.010	0.034	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Trichlorofluoromethane	<0.019	mg/kg	0.016	0.053	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Vinyl acetate	<0.23	mg/kg	0.19	0.65	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
Vinyl chloride	<0.015	mg/kg	0.013	0.043	1		7/15/2015 10:32	7/20/2015 10:33	RLD	EPA 8260C
1-Methylnaphthalene	47.4	ug/kg	0.27	2.1	1		7/17/2015 10:10	7/28/2015 19:14	RPN	EPA 8270D-SIM
2-Methylnaphthalene	52.0	ug/kg	0.41	2.1	1		7/17/2015 10:10	7/28/2015 19:14	RPN	EPA 8270D-SIM
Acenaphthene	7.60	ug/kg	0.30	2.1	1		7/17/2015 10:10	7/28/2015 19:14	RPN	EPA 8270D-SIM
Acenaphthylene	51.0	ug/kg	0.27	2.1	1		7/17/2015 10:10	7/28/2015 19:14	RPN	EPA 8270D-SIM
Anthracene	46.2	ug/kg	0.41	2.1	1		7/17/2015 10:10	7/28/2015 19:14	RPN	EPA 8270D-SIM
Benzo(a)anthracene	245	ug/kg	2.9	9.9	4		7/17/2015 10:10	7/29/2015 16:27	RPN	EPA 8270D-SIM
Benzo(a)pyrene	253	ug/kg	3.3	11	4		7/17/2015 10:10	7/29/2015 16:27	RPN	EPA 8270D-SIM
Benzo(b)fluoranthene	339	ug/kg	3.7	12	4		7/17/2015 10:10	7/29/2015 16:27	RPN	EPA 8270D-SIM
Benzo(g,h,i)perylene	116	ug/kg	1.1	3.7	1		7/17/2015 10:10	7/28/2015 19:14	RPN	EPA 8270D-SIM
Benzo(k)fluoranthene	88.1	ug/kg	0.93	3.3	1		7/17/2015 10:10	7/28/2015 19:14	RPN	EPA 8270D-SIM
Chrysene	240	ug/kg	2.5	8.7	4		7/17/2015 10:10	7/29/2015 16:27	RPN	EPA 8270D-SIM
Dibenzo(a,h)anthracene	26.1	ug/kg	1.1	3.8	1		7/17/2015 10:10	7/28/2015 19:14	RPN	EPA 8270D-SIM
Fluoranthene	350	ug/kg	4.9	16	4		7/17/2015 10:10	7/29/2015 16:27	RPN	EPA 8270D-SIM
Fluorene	12.7	ug/kg	0.41	2.1	1		7/17/2015 10:10	7/28/2015 19:14	RPN	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	96.8	ug/kg	1.1	3.8	1		7/17/2015 10:10	7/28/2015 19:14	RPN	EPA 8270D-SIM
Naphthalene	38.4	ug/kg	0.27	2.1	1		7/17/2015 10:10	7/28/2015 19:14	RPN	EPA 8270D-SIM
Phenanthrene	232	ug/kg	4.1	14	4		7/17/2015 10:10	7/29/2015 16:27	RPN	EPA 8270D-SIM
Pyrene	414	ug/kg	3.7	12	4		7/17/2015 10:10	7/29/2015 16:27	RPN	EPA 8270D-SIM

CT LAB Sample#: 606386 Sample Description: S1102

Sampled: 7/9/2015 1514

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Solids, Percent	78.3	%	0.1	0.1	1			7/13/2015 10:42	ABS	EPA 8000C
Metals Results										
Arsenic	0.61	mg/kg	0.35 *	1.3	1		7/14/2015 07:00	7/14/2015 21:03	NAH	EPA 6010C
Barium	125	mg/kg	0.046	0.16	1		7/14/2015 07:00	7/14/2015 21:03	NAH	EPA 6010C
Cadmium	0.026	mg/kg	0.022 *	0.074	1		7/14/2015 07:00	7/14/2015 21:03	NAH	EPA 6010C
Chromium	9.6	mg/kg	0.081	0.26	1		7/14/2015 07:00	7/14/2015 21:03	NAH	EPA 6010C
Lead	56.3	mg/kg	0.30	1.0	1		7/14/2015 07:00	7/14/2015 21:03	NAH	EPA 6010C
Selenium	<0.58	mg/kg	0.58	1.9	1		7/14/2015 07:00	7/14/2015 21:03	NAH	EPA 6010C
Silver	<0.14	mg/kg	0.14	0.45	1		7/14/2015 07:00	7/16/2015 14:59	NAH	EPA 6010C
Mercury	0.034	mg/kg	0.0022	0.0073	1		7/17/2015 10:30	7/21/2015 08:21	LJF	EPA 7471B
Organic Results										
1,1,1,2-Tetrachloroethane	<0.024	mg/kg	0.024	0.082	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.015	mg/kg	0.015	0.047	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.015	mg/kg	0.015	0.048	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.016	mg/kg	0.016	0.051	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
1,1-Dichloroethane	<0.016	mg/kg	0.016	0.054	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
1,1-Dichloroethene	<0.016	mg/kg	0.016	0.054	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
1,1-Dichloropropene	<0.020	mg/kg	0.020	0.065	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.030	mg/kg	0.030	0.10	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.015	mg/kg	0.015	0.047	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.025	0.085	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.028	mg/kg	0.028	0.094	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.032	mg/kg	0.032	0.11	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606386 Sample Description: S1102

Sampled: 7/9/2015 1514

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dibromoethane	<0.015	mg/kg	0.015	0.048	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.029	mg/kg	0.029	0.099	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
1,2-Dichloroethane	<0.015	mg/kg	0.015	0.049	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
1,2-Dichloropropane	<0.018	mg/kg	0.018	0.061	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.032	mg/kg	0.032	0.11	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.025	mg/kg	0.025	0.083	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
1,3-Dichloropropane	<0.013	mg/kg	0.013	0.042	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.023	mg/kg	0.023	0.077	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
2,2-Dichloropropane	<0.012	mg/kg	0.012	0.038	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
2-Butanone	<0.19	mg/kg	0.19	0.64	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
2-Chlorotoluene	<0.027	mg/kg	0.027	0.091	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
2-Hexanone	<0.15	mg/kg	0.15	0.48	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
4-Chlorotoluene	<0.029	mg/kg	0.029	0.099	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.12	mg/kg	0.12	0.40	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Acetone	0.217	mg/kg	0.20 *	0.65	1	Q	7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Benzene	<0.012	mg/kg	0.012	0.037	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Bromobenzene	<0.015	mg/kg	0.015	0.047	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Bromochloromethane	<0.017	mg/kg	0.017	0.056	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Bromodichloromethane	<0.016	mg/kg	0.016	0.051	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Bromoform	<0.013	mg/kg	0.013	0.041	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Bromomethane	<0.042	mg/kg	0.042	0.14	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Carbon disulfide	<0.026	mg/kg	0.026	0.086	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Carbon tetrachloride	<0.012	mg/kg	0.012	0.039	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Chlorobenzene	<0.030	mg/kg	0.030	0.10	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Chloroethane	<0.016	mg/kg	0.016	0.054	1	Z	7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606386 Sample Description: S1102

Sampled: 7/9/2015 1514

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chloroform	<0.026	mg/kg	0.026	0.086	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Chloromethane	<0.021	mg/kg	0.021	0.070	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.012	mg/kg	0.012	0.038	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.012	mg/kg	0.012	0.038	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Dibromochloromethane	<0.017	mg/kg	0.017	0.057	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Dibromomethane	<0.015	mg/kg	0.015	0.049	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Dichlorodifluoromethane	<0.023	mg/kg	0.023	0.076	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Diisopropyl ether	<0.030	mg/kg	0.030	0.10	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Ethylbenzene	<0.013	mg/kg	0.013	0.041	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Hexachlorobutadiene	<0.032	mg/kg	0.032	0.11	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Isopropylbenzene	<0.012	mg/kg	0.012	0.039	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
m & p-Xylene	<0.025	mg/kg	0.025	0.084	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Methyl tert-butyl ether	<0.013	mg/kg	0.013	0.042	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Methylene chloride	<0.032	mg/kg	0.032	0.12	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
n-Butylbenzene	<0.028	mg/kg	0.028	0.095	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
n-Propylbenzene	<0.026	mg/kg	0.026	0.088	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Naphthalene	<0.028	mg/kg	0.028	0.094	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
o-Xylene	<0.013	mg/kg	0.013	0.041	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
p-Isopropyltoluene	<0.027	mg/kg	0.027	0.091	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
sec-Butylbenzene	<0.024	mg/kg	0.024	0.080	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Styrene	<0.027	mg/kg	0.027	0.089	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
tert-Butylbenzene	<0.025	mg/kg	0.025	0.084	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Tetrachloroethene	<0.013	mg/kg	0.013	0.042	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Tetrahydrofuran	<0.16	mg/kg	0.16	0.53	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Toluene	<0.026	mg/kg	0.026	0.088	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606386 Sample Description: S1102

Sampled: 7/9/2015 1514

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
trans-1,2-Dichloroethene	<0.015	mg/kg	0.015	0.049	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.016	mg/kg	0.016	0.051	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Trichloroethene	<0.013	mg/kg	0.013	0.043	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Trichlorofluoromethane	<0.020	mg/kg	0.020	0.066	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Vinyl acetate	<0.24	mg/kg	0.24	0.82	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
Vinyl chloride	<0.016	mg/kg	0.016	0.054	1		7/15/2015 10:32	7/19/2015 14:27	RLD	EPA 8260C
1-Methylnaphthalene	42.8	ug/kg	1.7	13	5		7/17/2015 10:10	7/28/2015 20:32	RPN	EPA 8270D-SIM
2-Methylnaphthalene	59.0	ug/kg	2.6	13	5		7/17/2015 10:10	7/28/2015 20:32	RPN	EPA 8270D-SIM
Acenaphthene	115	ug/kg	1.9	13	5		7/17/2015 10:10	7/28/2015 20:32	RPN	EPA 8270D-SIM
Acenaphthylene	41.5	ug/kg	1.7	13	5		7/17/2015 10:10	7/28/2015 20:32	RPN	EPA 8270D-SIM
Anthracene	340	ug/kg	2.6	13	5		7/17/2015 10:10	7/28/2015 20:32	RPN	EPA 8270D-SIM
Benzo(a)anthracene	1520	ug/kg	22	77	25		7/17/2015 10:10	7/29/2015 17:06	RPN	EPA 8270D-SIM
Benzo(a)pyrene	1210	ug/kg	5.1	17	5		7/17/2015 10:10	7/28/2015 20:32	RPN	EPA 8270D-SIM
Benzo(b)fluoranthene	2240	ug/kg	29	96	25		7/17/2015 10:10	7/29/2015 17:06	RPN	EPA 8270D-SIM
Benzo(g,h,i)perylene	471	ug/kg	7.0	23	5		7/17/2015 10:10	7/28/2015 20:32	RPN	EPA 8270D-SIM
Benzo(k)fluoranthene	641	ug/kg	5.7	20	5		7/17/2015 10:10	7/28/2015 20:32	RPN	EPA 8270D-SIM
Chrysene	1650	ug/kg	19	67	25		7/17/2015 10:10	7/29/2015 17:06	RPN	EPA 8270D-SIM
Dibenzo(a,h)anthracene	121	ug/kg	7.0	24	5		7/17/2015 10:10	7/28/2015 20:32	RPN	EPA 8270D-SIM
Fluoranthene	3510	ug/kg	38	120	25		7/17/2015 10:10	7/29/2015 17:06	RPN	EPA 8270D-SIM
Fluorene	127	ug/kg	2.6	13	5		7/17/2015 10:10	7/28/2015 20:32	RPN	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	501	ug/kg	7.0	24	5		7/17/2015 10:10	7/28/2015 20:32	RPN	EPA 8270D-SIM
Naphthalene	56.9	ug/kg	1.7	13	5		7/17/2015 10:10	7/28/2015 20:32	RPN	EPA 8270D-SIM
Phenanthrene	2000	ug/kg	32	110	25		7/17/2015 10:10	7/29/2015 17:06	RPN	EPA 8270D-SIM
Pyrene	2540	ug/kg	29	93	25		7/17/2015 10:10	7/29/2015 17:06	RPN	EPA 8270D-SIM

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606387 Sample Description: S1202

Sampled: 7/8/2015 1239

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Solids, Percent	69.3	%	0.1	0.1	1			7/13/2015 10:42	ABS	EPA 8000C
Metals Results										
Arsenic	4.0	mg/kg	0.39	1.4	1		7/14/2015 07:00	7/14/2015 21:07	NAH	EPA 6010C
Barium	152	mg/kg	0.052	0.18	1		7/14/2015 07:00	7/14/2015 21:07	NAH	EPA 6010C
Cadmium	0.10	mg/kg	0.025	0.084	1		7/14/2015 07:00	7/14/2015 21:07	NAH	EPA 6010C
Chromium	7.5	mg/kg	0.092	0.29	1		7/14/2015 07:00	7/14/2015 21:07	NAH	EPA 6010C
Lead	210	mg/kg	0.34	1.1	1		7/14/2015 07:00	7/14/2015 21:07	NAH	EPA 6010C
Selenium	<0.66	mg/kg	0.66	2.1	1		7/14/2015 07:00	7/14/2015 21:07	NAH	EPA 6010C
Silver	<0.16	mg/kg	0.16	0.51	1		7/14/2015 07:00	7/16/2015 15:03	NAH	EPA 6010C
Mercury	0.14	mg/kg	0.0025	0.0082	1		7/17/2015 10:30	7/21/2015 08:23	LJF	EPA 7471B
Organic Results										
1,1,1,2-Tetrachloroethane	<0.028	mg/kg	0.028	0.097	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.017	mg/kg	0.017	0.056	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	mg/kg	0.017	0.057	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.019	mg/kg	0.019	0.061	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
1,1-Dichloroethane	<0.019	mg/kg	0.019	0.063	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
1,1-Dichloroethene	<0.019	mg/kg	0.019	0.063	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
1,1-Dichloropropene	<0.024	mg/kg	0.024	0.077	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.036	mg/kg	0.036	0.12	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.017	mg/kg	0.017	0.056	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.030	mg/kg	0.030	0.10	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
1,2,4-Trimethylbenzene	0.0859	mg/kg	0.033 *	0.11	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.037	mg/kg	0.037	0.12	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606387 Sample Description: S1202

Sampled: 7/8/2015 1239

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dibromoethane	<0.017	mg/kg	0.017	0.057	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.035	mg/kg	0.035	0.12	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
1,2-Dichloroethane	<0.017	mg/kg	0.017	0.058	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
1,2-Dichloropropane	<0.021	mg/kg	0.021	0.072	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.037	mg/kg	0.037	0.12	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.030	mg/kg	0.030	0.098	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
1,3-Dichloropropane	<0.015	mg/kg	0.015	0.050	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.027	mg/kg	0.027	0.090	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
2,2-Dichloropropane	<0.014	mg/kg	0.014	0.045	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
2-Butanone	<0.22	mg/kg	0.22	0.75	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
2-Chlorotoluene	<0.032	mg/kg	0.032	0.11	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
2-Hexanone	<0.17	mg/kg	0.17	0.57	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
4-Chlorotoluene	<0.035	mg/kg	0.035	0.12	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.14	mg/kg	0.14	0.47	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Acetone	<0.24	mg/kg	0.24	0.77	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Benzene	<0.014	mg/kg	0.014	0.043	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Bromobenzene	<0.017	mg/kg	0.017	0.056	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Bromochloromethane	<0.020	mg/kg	0.020	0.066	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Bromodichloromethane	<0.019	mg/kg	0.019	0.061	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Bromoform	<0.015	mg/kg	0.015	0.048	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Bromomethane	<0.050	mg/kg	0.050	0.16	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Carbon disulfide	<0.031	mg/kg	0.031	0.10	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Carbon tetrachloride	<0.014	mg/kg	0.014	0.046	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Chlorobenzene	<0.036	mg/kg	0.036	0.12	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Chloroethane	<0.019	mg/kg	0.019	0.063	1	Z	7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606387 Sample Description: S1202

Sampled: 7/8/2015 1239

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chloroform	<0.031	mg/kg	0.031	0.10	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Chloromethane	<0.025	mg/kg	0.025	0.083	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.014	mg/kg	0.014	0.045	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.014	mg/kg	0.014	0.045	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Dibromochloromethane	<0.020	mg/kg	0.020	0.067	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Dibromomethane	<0.017	mg/kg	0.017	0.058	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Dichlorodifluoromethane	<0.027	mg/kg	0.027	0.089	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Diisopropyl ether	<0.036	mg/kg	0.036	0.12	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Ethylbenzene	0.0230	mg/kg	0.015 *	0.048	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Hexachlorobutadiene	<0.037	mg/kg	0.037	0.12	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Isopropylbenzene	<0.014	mg/kg	0.014	0.046	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
m & p-Xylene	0.0881	mg/kg	0.030 *	0.099	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Methyl tert-butyl ether	<0.015	mg/kg	0.015	0.050	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Methylene chloride	<0.037	mg/kg	0.037	0.14	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
n-Butylbenzene	<0.033	mg/kg	0.033	0.11	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
n-Propylbenzene	<0.031	mg/kg	0.031	0.10	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Naphthalene	0.197	mg/kg	0.033	0.11	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
o-Xylene	0.0302	mg/kg	0.015 *	0.048	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
p-Isopropyltoluene	<0.032	mg/kg	0.032	0.11	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
sec-Butylbenzene	<0.028	mg/kg	0.028	0.094	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Styrene	<0.032	mg/kg	0.032	0.11	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
tert-Butylbenzene	<0.030	mg/kg	0.030	0.099	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Tetrachloroethene	<0.015	mg/kg	0.015	0.050	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Tetrahydrofuran	<0.19	mg/kg	0.19	0.62	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Toluene	0.0446	mg/kg	0.031 *	0.10	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606387 Sample Description: S1202

Sampled: 7/8/2015 1239

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
trans-1,2-Dichloroethene	<0.017	mg/kg	0.017	0.058	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	mg/kg	0.019	0.061	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Trichloroethene	<0.015	mg/kg	0.015	0.051	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Trichlorofluoromethane	<0.024	mg/kg	0.024	0.078	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Vinyl acetate	<0.28	mg/kg	0.28	0.97	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
Vinyl chloride	<0.019	mg/kg	0.019	0.063	1		7/15/2015 10:32	7/19/2015 14:56	RLD	EPA 8260C
1-Methylnaphthalene	403	ug/kg	1.9	14	5		7/17/2015 10:10	7/28/2015 19:34	RPN	EPA 8270D-SIM
2-Methylnaphthalene	387	ug/kg	2.9	14	5		7/17/2015 10:10	7/28/2015 19:34	RPN	EPA 8270D-SIM
Acenaphthene	3330	ug/kg	42	290	100		7/17/2015 10:10	7/29/2015 17:25	RPN	EPA 8270D-SIM
Acenaphthylene	74.7	ug/kg	1.9	14	5		7/17/2015 10:10	7/28/2015 19:34	RPN	EPA 8270D-SIM
Anthracene	3980	ug/kg	58	290	100		7/17/2015 10:10	7/29/2015 17:25	RPN	EPA 8270D-SIM
Benzo(a)anthracene	4920	ug/kg	100	350	100		7/17/2015 10:10	7/29/2015 17:25	RPN	EPA 8270D-SIM
Benzo(a)pyrene	3630	ug/kg	120	390	100		7/17/2015 10:10	7/29/2015 17:25	RPN	EPA 8270D-SIM
Benzo(b)fluoranthene	5540	ug/kg	130	430	100		7/17/2015 10:10	7/29/2015 17:25	RPN	EPA 8270D-SIM
Benzo(g,h,i)perylene	1350	ug/kg	7.9	26	5		7/17/2015 10:10	7/28/2015 19:34	RPN	EPA 8270D-SIM
Benzo(k)fluoranthene	1410	ug/kg	130	460	100		7/17/2015 10:10	7/29/2015 17:25	RPN	EPA 8270D-SIM
Chrysene	4000	ug/kg	87	300	100		7/17/2015 10:10	7/29/2015 17:25	RPN	EPA 8270D-SIM
Dibenzo(a,h)anthracene	318	ug/kg	7.9	27	5		7/17/2015 10:10	7/28/2015 19:34	RPN	EPA 8270D-SIM
Fluoranthene	13100	ug/kg	170	560	100		7/17/2015 10:10	7/29/2015 17:25	RPN	EPA 8270D-SIM
Fluorene	2960	ug/kg	58	290	100		7/17/2015 10:10	7/29/2015 17:25	RPN	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	1300	ug/kg	7.9	27	5		7/17/2015 10:10	7/28/2015 19:34	RPN	EPA 8270D-SIM
Naphthalene	581	ug/kg	1.9	14	5		7/17/2015 10:10	7/28/2015 19:34	RPN	EPA 8270D-SIM
Phenanthrene	17600	ug/kg	140	480	100		7/17/2015 10:10	7/29/2015 17:25	RPN	EPA 8270D-SIM
Pyrene	9620	ug/kg	130	420	100		7/17/2015 10:10	7/29/2015 17:25	RPN	EPA 8270D-SIM

CT LAB Sample#: 606388 Sample Description: TW100

Sampled: 7/9/2015 0850

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Dissolved Barium	59.5	ug/L	0.70	2.2	1			7/14/2015 18:55	NAH	EPA 6010C
Dissolved Cadmium	<0.26	ug/L	0.26	0.87	1			7/14/2015 18:55	NAH	EPA 6010C
Dissolved Chromium	<1.0	ug/L	1.0	3.4	1			7/14/2015 18:55	NAH	EPA 6010C
Dissolved Lead	<1.5	ug/L	1.5	5.0	1			7/14/2015 18:55	NAH	EPA 6010C
Dissolved Selenium	<12	ug/L	12	40	1			7/14/2015 18:55	NAH	EPA 6010C
Dissolved Silver	<2.0	ug/L	2.0	6.8	1			7/14/2015 18:55	NAH	EPA 6010C
Dissolved Arsenic	1.1	ug/L	0.50 *	1.6	1		7/16/2015 09:45	7/16/2015 14:54	MDS	EPA 7010
Dissolved Mercury	<0.050	ug/L	0.050	0.18	1		7/17/2015 07:30	7/20/2015 09:58	LJF	EPA 7470A
Organic Results										
1,1,1,2-Tetrachloroethane	<0.40	ug/L	0.40	1.4	1			7/14/2015 13:57	AGK	EPA 8260C
1,1,1-Trichloroethane	<0.30	ug/L	0.30	1.1	1			7/14/2015 13:57	AGK	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.40	ug/L	0.40	1.3	1			7/14/2015 13:57	AGK	EPA 8260C
1,1,2-Trichloroethane	<0.30	ug/L	0.30	1.1	1			7/14/2015 13:57	AGK	EPA 8260C
1,1-Dichloroethane	<0.40	ug/L	0.40	1.3	1			7/14/2015 13:57	AGK	EPA 8260C
1,1-Dichloroethene	<0.27	ug/L	0.27	0.90	1			7/14/2015 13:57	AGK	EPA 8260C
1,1-Dichloropropene	<0.40	ug/L	0.40	1.4	1			7/14/2015 13:57	AGK	EPA 8260C
1,2,3-Trichlorobenzene	<0.40	ug/L	0.40	1.2	1			7/14/2015 13:57	AGK	EPA 8260C
1,2,3-Trichloropropane	<0.40	ug/L	0.40	1.4	1			7/14/2015 13:57	AGK	EPA 8260C
1,2,4-Trichlorobenzene	<0.40	ug/L	0.40	1.3	1			7/14/2015 13:57	AGK	EPA 8260C
1,2,4-Trimethylbenzene	<0.30	ug/L	0.30	1.0	1			7/14/2015 13:57	AGK	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.40	ug/L	0.40	1.5	1			7/14/2015 13:57	AGK	EPA 8260C
1,2-Dibromoethane	<0.40	ug/L	0.40	1.2	1			7/14/2015 13:57	AGK	EPA 8260C
1,2-Dichlorobenzene	<0.40	ug/L	0.40	1.4	1			7/14/2015 13:57	AGK	EPA 8260C

CT LAB Sample#: 606388 Sample Description: TW100

Sampled: 7/9/2015 0850

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dichloroethane	<0.30	ug/L	0.30	1.1	1		7/14/2015	13:57	AGK	EPA 8260C
1,2-Dichloropropane	<0.28	ug/L	0.28	0.94	1		7/14/2015	13:57	AGK	EPA 8260C
1,3,5-Trimethylbenzene	<0.30	ug/L	0.30	1.1	1		7/14/2015	13:57	AGK	EPA 8260C
1,3-Dichlorobenzene	<0.30	ug/L	0.30	1.0	1		7/14/2015	13:57	AGK	EPA 8260C
1,3-Dichloropropane	<0.29	ug/L	0.29	0.96	1		7/14/2015	13:57	AGK	EPA 8260C
1,4-Dichlorobenzene	<0.30	ug/L	0.30	1.1	1		7/14/2015	13:57	AGK	EPA 8260C
2,2-Dichloropropane	<0.70	ug/L	0.70	2.5	1		7/14/2015	13:57	AGK	EPA 8260C
2-Butanone	<4.0	ug/L	4.0	15	1		7/14/2015	13:57	AGK	EPA 8260C
2-Chlorotoluene	<0.40	ug/L	0.40	1.3	1		7/14/2015	13:57	AGK	EPA 8260C
2-Hexanone	<9.0	ug/L	9.0	29	1		7/14/2015	13:57	AGK	EPA 8260C
4-Chlorotoluene	<0.40	ug/L	0.40	1.2	1		7/14/2015	13:57	AGK	EPA 8260C
4-Methyl-2-pentanone	<7.0	ug/L	7.0	25	1		7/14/2015	13:57	AGK	EPA 8260C
Acetone	12	ug/L	7.0 *	23	1		7/14/2015	13:57	AGK	EPA 8260C
Benzene	<0.30	ug/L	0.30	1.2	1		7/14/2015	13:57	AGK	EPA 8260C
Bromobenzene	<0.40	ug/L	0.40	1.2	1		7/14/2015	13:57	AGK	EPA 8260C
Bromochloromethane	<0.40	ug/L	0.40	1.5	1		7/14/2015	13:57	AGK	EPA 8260C
Bromodichloromethane	<0.30	ug/L	0.30	1.0	1		7/14/2015	13:57	AGK	EPA 8260C
Bromoform	<0.29	ug/L	0.29	0.96	1		7/14/2015	13:57	AGK	EPA 8260C
Bromomethane	<1.1	ug/L	1.1	3.8	1		7/14/2015	13:57	AGK	EPA 8260C
Carbon disulfide	<0.50	ug/L	0.50	1.7	1		7/14/2015	13:57	AGK	EPA 8260C
Carbon tetrachloride	<0.30	ug/L	0.30	1.1	1		7/14/2015	13:57	AGK	EPA 8260C
Chlorobenzene	<0.40	ug/L	0.40	1.2	1		7/14/2015	13:57	AGK	EPA 8260C
Chloroethane	<0.80	ug/L	0.80	2.8	1		7/14/2015	13:57	AGK	EPA 8260C
Chloroform	<0.30	ug/L	0.30	1.1	1		7/14/2015	13:57	AGK	EPA 8260C
Chloromethane	<0.80	ug/L	0.80	2.8	1		7/14/2015	13:57	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606388 Sample Description: TW100

Sampled: 7/9/2015 0850

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
cis-1,2-Dichloroethene	<0.30	ug/L	0.30	0.99	1			7/14/2015 13:57	AGK	EPA 8260C
cis-1,3-Dichloropropene	<0.29	ug/L	0.29	0.97	1			7/14/2015 13:57	AGK	EPA 8260C
Dibromochloromethane	<0.40	ug/L	0.40	1.2	1			7/14/2015 13:57	AGK	EPA 8260C
Dibromomethane	<0.30	ug/L	0.30	1.0	1			7/14/2015 13:57	AGK	EPA 8260C
Dichlorodifluoromethane	<0.80	ug/L	0.80	2.5	1			7/14/2015 13:57	AGK	EPA 8260C
Diisopropyl ether	<0.30	ug/L	0.30	1.0	1			7/14/2015 13:57	AGK	EPA 8260C
Ethylbenzene	<0.30	ug/L	0.30	1.2	1			7/14/2015 13:57	AGK	EPA 8260C
Hexachlorobutadiene	<0.40	ug/L	0.40	1.3	1			7/14/2015 13:57	AGK	EPA 8260C
Isopropylbenzene	<0.40	ug/L	0.40	1.2	1			7/14/2015 13:57	AGK	EPA 8260C
m & p-Xylene	<0.70	ug/L	0.70	2.2	1			7/14/2015 13:57	AGK	EPA 8260C
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.2	1			7/14/2015 13:57	AGK	EPA 8260C
Methylene chloride	<0.30	ug/L	0.30	1.1	1			7/14/2015 13:57	AGK	EPA 8260C
n-Butylbenzene	<0.40	ug/L	0.40	1.3	1			7/14/2015 13:57	AGK	EPA 8260C
n-Propylbenzene	<0.40	ug/L	0.40	1.3	1			7/14/2015 13:57	AGK	EPA 8260C
Naphthalene	<1.0	ug/L	1.0	3.3	1			7/14/2015 13:57	AGK	EPA 8260C
o-Xylene	<0.30	ug/L	0.30	1.1	1			7/14/2015 13:57	AGK	EPA 8260C
p-Isopropyltoluene	<0.40	ug/L	0.40	1.3	1			7/14/2015 13:57	AGK	EPA 8260C
sec-Butylbenzene	<0.40	ug/L	0.40	1.2	1			7/14/2015 13:57	AGK	EPA 8260C
Styrene	<0.28	ug/L	0.28	0.93	1			7/14/2015 13:57	AGK	EPA 8260C
tert-Butylbenzene	<0.40	ug/L	0.40	1.3	1			7/14/2015 13:57	AGK	EPA 8260C
Tetrachloroethene	<0.40	ug/L	0.40	1.2	1			7/14/2015 13:57	AGK	EPA 8260C
Tetrahydrofuran	<1.1	ug/L	1.1	3.5	1			7/14/2015 13:57	AGK	EPA 8260C
Toluene	<0.27	ug/L	0.27	0.91	1			7/14/2015 13:57	AGK	EPA 8260C
trans-1,2-Dichloroethene	<0.30	ug/L	0.30	1.0	1			7/14/2015 13:57	AGK	EPA 8260C
trans-1,3-Dichloropropene	<0.30	ug/L	0.30	1.0	1			7/14/2015 13:57	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606388 Sample Description: TW100

Sampled: 7/9/2015 0850

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Trichloroethene	<0.30	ug/L	0.30	1.1	1			7/14/2015 13:57	AGK	EPA 8260C
Trichlorofluoromethane	<0.60	ug/L	0.60	2.1	1			7/14/2015 13:57	AGK	EPA 8260C
Vinyl acetate	<6.0	ug/L	6.0	20	1			7/14/2015 13:57	AGK	EPA 8260C
Vinyl chloride	<0.18	ug/L	0.18	0.59	1			7/14/2015 13:57	AGK	EPA 8260C
1-Methylnaphthalene	0.018	ug/L	0.0029	0.0087	1		7/16/2015 08:00	8/10/2015 12:32	RPN	EPA 8270D-SIM
2-Methylnaphthalene	0.029	ug/L	0.0029	0.011	1	B	7/16/2015 08:00	8/10/2015 12:32	RPN	EPA 8270D-SIM
Acenaphthene	0.0092	ug/L	0.0029 *	0.0096	1		7/16/2015 08:00	8/10/2015 12:32	RPN	EPA 8270D-SIM
Acenaphthylene	0.0074	ug/L	0.0048 *	0.014	1	B	7/16/2015 08:00	8/10/2015 12:32	RPN	EPA 8270D-SIM
Anthracene	<0.0060	ug/L	0.0058	0.018	1		7/16/2015 08:00	8/10/2015 12:32	RPN	EPA 8270D-SIM
Benzo(a)anthracene	0.021	ug/L	0.0048	0.015	1	B	7/16/2015 08:00	8/10/2015 12:32	RPN	EPA 8270D-SIM
Benzo(a)pyrene	0.016	ug/L	0.0048	0.014	1	B	7/16/2015 08:00	8/10/2015 12:32	RPN	EPA 8270D-SIM
Benzo(b)fluoranthene	0.019	ug/L	0.0058	0.019	1	B,Y	7/16/2015 08:00	8/10/2015 12:32	RPN	EPA 8270D-SIM
Benzo(g,h,i)perylene	0.015	ug/L	0.0058 *	0.018	1	B	7/16/2015 08:00	8/10/2015 12:32	RPN	EPA 8270D-SIM
Benzo(k)fluoranthene	0.014	ug/L	0.0067 *	0.022	1	B	7/16/2015 08:00	8/10/2015 12:32	RPN	EPA 8270D-SIM
Chrysene	0.016	ug/L	0.0048	0.015	1	B	7/16/2015 08:00	8/10/2015 12:32	RPN	EPA 8270D-SIM
Dibenzo(a,h)anthracene	0.0077	ug/L	0.0058 *	0.017	1	B	7/16/2015 08:00	8/10/2015 12:32	RPN	EPA 8270D-SIM
Fluoranthene	0.023	ug/L	0.0048	0.015	1	B	7/16/2015 08:00	8/10/2015 12:32	RPN	EPA 8270D-SIM
Fluorene	0.028	ug/L	0.0029	0.0087	1	B	7/16/2015 08:00	8/10/2015 12:32	RPN	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	0.013	ug/L	0.0058 *	0.018	1	B	7/16/2015 08:00	8/10/2015 12:32	RPN	EPA 8270D-SIM
Naphthalene	0.17	ug/L	0.011	0.036	1	B	7/16/2015 08:00	8/10/2015 12:32	RPN	EPA 8270D-SIM
Phenanthrene	0.059	ug/L	0.0038	0.013	1	B	7/16/2015 08:00	8/10/2015 12:32	RPN	EPA 8270D-SIM
Pyrene	0.020	ug/L	0.0038	0.012	1	B	7/16/2015 08:00	8/10/2015 12:32	RPN	EPA 8270D-SIM

CT LAB Sample#: 606389 Sample Description: TW300

Sampled: 7/9/2015 1300

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Dissolved Barium	32.1	ug/L	0.70	2.2	1			7/14/2015 19:12	NAH	EPA 6010C
Dissolved Cadmium	<0.26	ug/L	0.26	0.87	1			7/14/2015 19:12	NAH	EPA 6010C
Dissolved Chromium	<1.0	ug/L	1.0	3.4	1			7/14/2015 19:12	NAH	EPA 6010C
Dissolved Lead	<1.5	ug/L	1.5	5.0	1			7/14/2015 19:12	NAH	EPA 6010C
Dissolved Selenium	<12	ug/L	12	40	1			7/14/2015 19:12	NAH	EPA 6010C
Dissolved Silver	2.2	ug/L	2.0 *	6.8	1			7/14/2015 19:12	NAH	EPA 6010C
Dissolved Arsenic	<0.50	ug/L	0.50	1.6	1		7/16/2015 09:45	7/16/2015 15:00	MDS	EPA 7010
Dissolved Mercury	<0.050	ug/L	0.050	0.18	1		7/17/2015 07:30	7/20/2015 10:00	LJF	EPA 7470A
Organic Results										
1,1,1,2-Tetrachloroethane	<0.40	ug/L	0.40	1.4	1			7/14/2015 14:27	AGK	EPA 8260C
1,1,1-Trichloroethane	<0.30	ug/L	0.30	1.1	1			7/14/2015 14:27	AGK	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.40	ug/L	0.40	1.3	1			7/14/2015 14:27	AGK	EPA 8260C
1,1,2-Trichloroethane	<0.30	ug/L	0.30	1.1	1			7/14/2015 14:27	AGK	EPA 8260C
1,1-Dichloroethane	<0.40	ug/L	0.40	1.3	1			7/14/2015 14:27	AGK	EPA 8260C
1,1-Dichloroethene	<0.27	ug/L	0.27	0.90	1			7/14/2015 14:27	AGK	EPA 8260C
1,1-Dichloropropene	<0.40	ug/L	0.40	1.4	1			7/14/2015 14:27	AGK	EPA 8260C
1,2,3-Trichlorobenzene	<0.40	ug/L	0.40	1.2	1			7/14/2015 14:27	AGK	EPA 8260C
1,2,3-Trichloropropane	<0.40	ug/L	0.40	1.4	1			7/14/2015 14:27	AGK	EPA 8260C
1,2,4-Trichlorobenzene	<0.40	ug/L	0.40	1.3	1			7/14/2015 14:27	AGK	EPA 8260C
1,2,4-Trimethylbenzene	<0.30	ug/L	0.30	1.0	1			7/14/2015 14:27	AGK	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.40	ug/L	0.40	1.5	1			7/14/2015 14:27	AGK	EPA 8260C
1,2-Dibromoethane	<0.40	ug/L	0.40	1.2	1			7/14/2015 14:27	AGK	EPA 8260C
1,2-Dichlorobenzene	<0.40	ug/L	0.40	1.4	1			7/14/2015 14:27	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606389 Sample Description: TW300

Sampled: 7/9/2015 1300

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dichloroethane	<0.30	ug/L	0.30	1.1	1			7/14/2015 14:27	AGK	EPA 8260C
1,2-Dichloropropane	<0.28	ug/L	0.28	0.94	1			7/14/2015 14:27	AGK	EPA 8260C
1,3,5-Trimethylbenzene	<0.30	ug/L	0.30	1.1	1			7/14/2015 14:27	AGK	EPA 8260C
1,3-Dichlorobenzene	<0.30	ug/L	0.30	1.0	1			7/14/2015 14:27	AGK	EPA 8260C
1,3-Dichloropropane	<0.29	ug/L	0.29	0.96	1			7/14/2015 14:27	AGK	EPA 8260C
1,4-Dichlorobenzene	<0.30	ug/L	0.30	1.1	1			7/14/2015 14:27	AGK	EPA 8260C
2,2-Dichloropropane	<0.70	ug/L	0.70	2.5	1			7/14/2015 14:27	AGK	EPA 8260C
2-Butanone	<4.0	ug/L	4.0	15	1			7/14/2015 14:27	AGK	EPA 8260C
2-Chlorotoluene	<0.40	ug/L	0.40	1.3	1			7/14/2015 14:27	AGK	EPA 8260C
2-Hexanone	<9.0	ug/L	9.0	29	1			7/14/2015 14:27	AGK	EPA 8260C
4-Chlorotoluene	<0.40	ug/L	0.40	1.2	1			7/14/2015 14:27	AGK	EPA 8260C
4-Methyl-2-pentanone	<7.0	ug/L	7.0	25	1			7/14/2015 14:27	AGK	EPA 8260C
Acetone	<7.0	ug/L	7.0	23	1			7/14/2015 14:27	AGK	EPA 8260C
Benzene	<0.30	ug/L	0.30	1.2	1			7/14/2015 14:27	AGK	EPA 8260C
Bromobenzene	<0.40	ug/L	0.40	1.2	1			7/14/2015 14:27	AGK	EPA 8260C
Bromochloromethane	<0.40	ug/L	0.40	1.5	1			7/14/2015 14:27	AGK	EPA 8260C
Bromodichloromethane	<0.30	ug/L	0.30	1.0	1			7/14/2015 14:27	AGK	EPA 8260C
Bromoform	<0.29	ug/L	0.29	0.96	1			7/14/2015 14:27	AGK	EPA 8260C
Bromomethane	<1.1	ug/L	1.1	3.8	1			7/14/2015 14:27	AGK	EPA 8260C
Carbon disulfide	<0.50	ug/L	0.50	1.7	1			7/14/2015 14:27	AGK	EPA 8260C
Carbon tetrachloride	<0.30	ug/L	0.30	1.1	1			7/14/2015 14:27	AGK	EPA 8260C
Chlorobenzene	<0.40	ug/L	0.40	1.2	1			7/14/2015 14:27	AGK	EPA 8260C
Chloroethane	<0.80	ug/L	0.80	2.8	1			7/14/2015 14:27	AGK	EPA 8260C
Chloroform	<0.30	ug/L	0.30	1.1	1			7/14/2015 14:27	AGK	EPA 8260C
Chloromethane	<0.80	ug/L	0.80	2.8	1			7/14/2015 14:27	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606389 Sample Description: TW300

Sampled: 7/9/2015 1300

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
cis-1,2-Dichloroethene	<0.30	ug/L	0.30	0.99	1		7/14/2015	14:27	AGK	EPA 8260C
cis-1,3-Dichloropropene	<0.29	ug/L	0.29	0.97	1		7/14/2015	14:27	AGK	EPA 8260C
Dibromochloromethane	<0.40	ug/L	0.40	1.2	1		7/14/2015	14:27	AGK	EPA 8260C
Dibromomethane	<0.30	ug/L	0.30	1.0	1		7/14/2015	14:27	AGK	EPA 8260C
Dichlorodifluoromethane	<0.80	ug/L	0.80	2.5	1		7/14/2015	14:27	AGK	EPA 8260C
Diisopropyl ether	<0.30	ug/L	0.30	1.0	1		7/14/2015	14:27	AGK	EPA 8260C
Ethylbenzene	<0.30	ug/L	0.30	1.2	1		7/14/2015	14:27	AGK	EPA 8260C
Hexachlorobutadiene	<0.40	ug/L	0.40	1.3	1		7/14/2015	14:27	AGK	EPA 8260C
Isopropylbenzene	<0.40	ug/L	0.40	1.2	1		7/14/2015	14:27	AGK	EPA 8260C
m & p-Xylene	<0.70	ug/L	0.70	2.2	1		7/14/2015	14:27	AGK	EPA 8260C
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.2	1		7/14/2015	14:27	AGK	EPA 8260C
Methylene chloride	<0.30	ug/L	0.30	1.1	1		7/14/2015	14:27	AGK	EPA 8260C
n-Butylbenzene	<0.40	ug/L	0.40	1.3	1		7/14/2015	14:27	AGK	EPA 8260C
n-Propylbenzene	<0.40	ug/L	0.40	1.3	1		7/14/2015	14:27	AGK	EPA 8260C
Naphthalene	<1.0	ug/L	1.0	3.3	1		7/14/2015	14:27	AGK	EPA 8260C
o-Xylene	<0.30	ug/L	0.30	1.1	1		7/14/2015	14:27	AGK	EPA 8260C
p-Isopropyltoluene	<0.40	ug/L	0.40	1.3	1		7/14/2015	14:27	AGK	EPA 8260C
sec-Butylbenzene	<0.40	ug/L	0.40	1.2	1		7/14/2015	14:27	AGK	EPA 8260C
Styrene	<0.28	ug/L	0.28	0.93	1		7/14/2015	14:27	AGK	EPA 8260C
tert-Butylbenzene	<0.40	ug/L	0.40	1.3	1		7/14/2015	14:27	AGK	EPA 8260C
Tetrachloroethene	<0.40	ug/L	0.40	1.2	1		7/14/2015	14:27	AGK	EPA 8260C
Tetrahydrofuran	<1.1	ug/L	1.1	3.5	1		7/14/2015	14:27	AGK	EPA 8260C
Toluene	<0.27	ug/L	0.27	0.91	1		7/14/2015	14:27	AGK	EPA 8260C
trans-1,2-Dichloroethene	<0.30	ug/L	0.30	1.0	1		7/14/2015	14:27	AGK	EPA 8260C
trans-1,3-Dichloropropene	<0.30	ug/L	0.30	1.0	1		7/14/2015	14:27	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606389 Sample Description: TW300

Sampled: 7/9/2015 1300

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Trichloroethene	<0.30	ug/L	0.30	1.1	1			7/14/2015 14:27	AGK	EPA 8260C
Trichlorofluoromethane	<0.60	ug/L	0.60	2.1	1			7/14/2015 14:27	AGK	EPA 8260C
Vinyl acetate	<6.0	ug/L	6.0	20	1			7/14/2015 14:27	AGK	EPA 8260C
Vinyl chloride	<0.18	ug/L	0.18	0.59	1			7/14/2015 14:27	AGK	EPA 8260C
1-Methylnaphthalene	0.025	ug/L	0.0029	0.0087	1		7/16/2015 08:00	8/9/2015 20:29	RPN	EPA 8270D-SIM
2-Methylnaphthalene	0.031	ug/L	0.0029	0.011	1	B	7/16/2015 08:00	8/9/2015 20:29	RPN	EPA 8270D-SIM
Acenaphthene	0.0081	ug/L	0.0029 *	0.0096	1		7/16/2015 08:00	8/9/2015 20:29	RPN	EPA 8270D-SIM
Acenaphthylene	0.020	ug/L	0.0048	0.014	1	B	7/16/2015 08:00	8/9/2015 20:29	RPN	EPA 8270D-SIM
Anthracene	0.012	ug/L	0.0058 *	0.018	1		7/16/2015 08:00	8/9/2015 20:29	RPN	EPA 8270D-SIM
Benzo(a)anthracene	0.048	ug/L	0.0048	0.015	1	B	7/16/2015 08:00	8/9/2015 20:29	RPN	EPA 8270D-SIM
Benzo(a)pyrene	0.080	ug/L	0.0048	0.014	1	B	7/16/2015 08:00	8/9/2015 20:29	RPN	EPA 8270D-SIM
Benzo(b)fluoranthene	0.087	ug/L	0.0058	0.019	1	B	7/16/2015 08:00	8/9/2015 20:29	RPN	EPA 8270D-SIM
Benzo(g,h,i)perylene	0.071	ug/L	0.0058	0.018	1	B	7/16/2015 08:00	8/9/2015 20:29	RPN	EPA 8270D-SIM
Benzo(k)fluoranthene	0.039	ug/L	0.0067	0.022	1	B	7/16/2015 08:00	8/9/2015 20:29	RPN	EPA 8270D-SIM
Chrysene	0.045	ug/L	0.0048	0.015	1	B	7/16/2015 08:00	8/9/2015 20:29	RPN	EPA 8270D-SIM
Dibenzo(a,h)anthracene	0.015	ug/L	0.0058 *	0.017	1	B	7/16/2015 08:00	8/9/2015 20:29	RPN	EPA 8270D-SIM
Fluoranthene	0.048	ug/L	0.0048	0.015	1	B	7/16/2015 08:00	8/9/2015 20:29	RPN	EPA 8270D-SIM
Fluorene	0.019	ug/L	0.0029	0.0087	1	B	7/16/2015 08:00	8/9/2015 20:29	RPN	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	0.059	ug/L	0.0058	0.018	1	B	7/16/2015 08:00	8/9/2015 20:29	RPN	EPA 8270D-SIM
Naphthalene	0.051	ug/L	0.011	0.036	1	B	7/16/2015 08:00	8/9/2015 20:29	RPN	EPA 8270D-SIM
Phenanthrene	0.049	ug/L	0.0038	0.013	1	B	7/16/2015 08:00	8/9/2015 20:29	RPN	EPA 8270D-SIM
Pyrene	0.056	ug/L	0.0038	0.012	1	B	7/16/2015 08:00	8/9/2015 20:29	RPN	EPA 8270D-SIM

CT LAB Sample#: 606390 Sample Description: TW600

Sampled: 7/10/2015 0905

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Dissolved Barium	165	ug/L	0.70	2.2	1			7/14/2015 19:16	NAH	EPA 6010C
Dissolved Cadmium	<0.26	ug/L	0.26	0.87	1			7/14/2015 19:16	NAH	EPA 6010C
Dissolved Chromium	<1.0	ug/L	1.0	3.4	1			7/14/2015 19:16	NAH	EPA 6010C
Dissolved Lead	<1.5	ug/L	1.5	5.0	1			7/14/2015 19:16	NAH	EPA 6010C
Dissolved Selenium	<12	ug/L	12	40	1			7/14/2015 19:16	NAH	EPA 6010C
Dissolved Silver	<2.0	ug/L	2.0	6.8	1			7/14/2015 19:16	NAH	EPA 6010C
Dissolved Arsenic	4.5	ug/L	0.50	1.6	1		7/16/2015 09:45	7/16/2015 15:31	MDS	EPA 7010
Dissolved Mercury	<0.050	ug/L	0.050	0.18	1		7/17/2015 07:30	7/20/2015 10:37	LJF	EPA 7470A
Organic Results										
1,1,1,2-Tetrachloroethane	<0.40	ug/L	0.40	1.4	1			7/14/2015 14:57	AGK	EPA 8260C
1,1,1-Trichloroethane	<0.30	ug/L	0.30	1.1	1			7/14/2015 14:57	AGK	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.40	ug/L	0.40	1.3	1			7/14/2015 14:57	AGK	EPA 8260C
1,1,2-Trichloroethane	<0.30	ug/L	0.30	1.1	1			7/14/2015 14:57	AGK	EPA 8260C
1,1-Dichloroethane	<0.40	ug/L	0.40	1.3	1			7/14/2015 14:57	AGK	EPA 8260C
1,1-Dichloroethene	<0.27	ug/L	0.27	0.90	1			7/14/2015 14:57	AGK	EPA 8260C
1,1-Dichloropropene	<0.40	ug/L	0.40	1.4	1			7/14/2015 14:57	AGK	EPA 8260C
1,2,3-Trichlorobenzene	<0.40	ug/L	0.40	1.2	1			7/14/2015 14:57	AGK	EPA 8260C
1,2,3-Trichloropropane	<0.40	ug/L	0.40	1.4	1			7/14/2015 14:57	AGK	EPA 8260C
1,2,4-Trichlorobenzene	<0.40	ug/L	0.40	1.3	1			7/14/2015 14:57	AGK	EPA 8260C
1,2,4-Trimethylbenzene	0.66	ug/L	0.30 *	1.0	1			7/14/2015 14:57	AGK	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.40	ug/L	0.40	1.5	1			7/14/2015 14:57	AGK	EPA 8260C
1,2-Dibromoethane	<0.40	ug/L	0.40	1.2	1			7/14/2015 14:57	AGK	EPA 8260C
1,2-Dichlorobenzene	<0.40	ug/L	0.40	1.4	1			7/14/2015 14:57	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606390 Sample Description: TW600

Sampled: 7/10/2015 0905

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dichloroethane	<0.30	ug/L	0.30	1.1	1		7/14/2015	14:57	AGK	EPA 8260C
1,2-Dichloropropane	<0.28	ug/L	0.28	0.94	1		7/14/2015	14:57	AGK	EPA 8260C
1,3,5-Trimethylbenzene	<0.30	ug/L	0.30	1.1	1		7/14/2015	14:57	AGK	EPA 8260C
1,3-Dichlorobenzene	<0.30	ug/L	0.30	1.0	1		7/14/2015	14:57	AGK	EPA 8260C
1,3-Dichloropropane	<0.29	ug/L	0.29	0.96	1		7/14/2015	14:57	AGK	EPA 8260C
1,4-Dichlorobenzene	<0.30	ug/L	0.30	1.1	1		7/14/2015	14:57	AGK	EPA 8260C
2,2-Dichloropropane	<0.70	ug/L	0.70	2.5	1		7/14/2015	14:57	AGK	EPA 8260C
2-Butanone	4.1	ug/L	4.0 *	15	1		7/14/2015	14:57	AGK	EPA 8260C
2-Chlorotoluene	<0.40	ug/L	0.40	1.3	1		7/14/2015	14:57	AGK	EPA 8260C
2-Hexanone	<9.0	ug/L	9.0	29	1		7/14/2015	14:57	AGK	EPA 8260C
4-Chlorotoluene	<0.40	ug/L	0.40	1.2	1		7/14/2015	14:57	AGK	EPA 8260C
4-Methyl-2-pentanone	<7.0	ug/L	7.0	25	1		7/14/2015	14:57	AGK	EPA 8260C
Acetone	18	ug/L	7.0 *	23	1		7/14/2015	14:57	AGK	EPA 8260C
Benzene	<0.30	ug/L	0.30	1.2	1		7/14/2015	14:57	AGK	EPA 8260C
Bromobenzene	<0.40	ug/L	0.40	1.2	1		7/14/2015	14:57	AGK	EPA 8260C
Bromochloromethane	<0.40	ug/L	0.40	1.5	1		7/14/2015	14:57	AGK	EPA 8260C
Bromodichloromethane	<0.30	ug/L	0.30	1.0	1		7/14/2015	14:57	AGK	EPA 8260C
Bromoform	<0.29	ug/L	0.29	0.96	1		7/14/2015	14:57	AGK	EPA 8260C
Bromomethane	<1.1	ug/L	1.1	3.8	1		7/14/2015	14:57	AGK	EPA 8260C
Carbon disulfide	<0.50	ug/L	0.50	1.7	1		7/14/2015	14:57	AGK	EPA 8260C
Carbon tetrachloride	<0.30	ug/L	0.30	1.1	1		7/14/2015	14:57	AGK	EPA 8260C
Chlorobenzene	<0.40	ug/L	0.40	1.2	1		7/14/2015	14:57	AGK	EPA 8260C
Chloroethane	<0.80	ug/L	0.80	2.8	1		7/14/2015	14:57	AGK	EPA 8260C
Chloroform	0.43	ug/L	0.30 *	1.1	1		7/14/2015	14:57	AGK	EPA 8260C
Chloromethane	<0.80	ug/L	0.80	2.8	1		7/14/2015	14:57	AGK	EPA 8260C

CT LAB Sample#: 606390 Sample Description: TW600

Sampled: 7/10/2015 0905

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
cis-1,2-Dichloroethene	<0.30	ug/L	0.30	0.99	1		7/14/2015	14:57	AGK	EPA 8260C
cis-1,3-Dichloropropene	<0.29	ug/L	0.29	0.97	1		7/14/2015	14:57	AGK	EPA 8260C
Dibromochloromethane	<0.40	ug/L	0.40	1.2	1		7/14/2015	14:57	AGK	EPA 8260C
Dibromomethane	<0.30	ug/L	0.30	1.0	1		7/14/2015	14:57	AGK	EPA 8260C
Dichlorodifluoromethane	<0.80	ug/L	0.80	2.5	1		7/14/2015	14:57	AGK	EPA 8260C
Diisopropyl ether	<0.30	ug/L	0.30	1.0	1		7/14/2015	14:57	AGK	EPA 8260C
Ethylbenzene	<0.30	ug/L	0.30	1.2	1		7/14/2015	14:57	AGK	EPA 8260C
Hexachlorobutadiene	<0.40	ug/L	0.40	1.3	1		7/14/2015	14:57	AGK	EPA 8260C
Isopropylbenzene	<0.40	ug/L	0.40	1.2	1		7/14/2015	14:57	AGK	EPA 8260C
m & p-Xylene	<0.70	ug/L	0.70	2.2	1		7/14/2015	14:57	AGK	EPA 8260C
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.2	1		7/14/2015	14:57	AGK	EPA 8260C
Methylene chloride	<0.30	ug/L	0.30	1.1	1		7/14/2015	14:57	AGK	EPA 8260C
n-Butylbenzene	<0.40	ug/L	0.40	1.3	1		7/14/2015	14:57	AGK	EPA 8260C
n-Propylbenzene	<0.40	ug/L	0.40	1.3	1		7/14/2015	14:57	AGK	EPA 8260C
Naphthalene	<1.0	ug/L	1.0	3.3	1		7/14/2015	14:57	AGK	EPA 8260C
o-Xylene	<0.30	ug/L	0.30	1.1	1		7/14/2015	14:57	AGK	EPA 8260C
p-Isopropyltoluene	<0.40	ug/L	0.40	1.3	1		7/14/2015	14:57	AGK	EPA 8260C
sec-Butylbenzene	<0.40	ug/L	0.40	1.2	1		7/14/2015	14:57	AGK	EPA 8260C
Styrene	<0.28	ug/L	0.28	0.93	1		7/14/2015	14:57	AGK	EPA 8260C
tert-Butylbenzene	<0.40	ug/L	0.40	1.3	1		7/14/2015	14:57	AGK	EPA 8260C
Tetrachloroethene	<0.40	ug/L	0.40	1.2	1		7/14/2015	14:57	AGK	EPA 8260C
Tetrahydrofuran	<1.1	ug/L	1.1	3.5	1		7/14/2015	14:57	AGK	EPA 8260C
Toluene	<0.27	ug/L	0.27	0.91	1		7/14/2015	14:57	AGK	EPA 8260C
trans-1,2-Dichloroethene	<0.30	ug/L	0.30	1.0	1		7/14/2015	14:57	AGK	EPA 8260C
trans-1,3-Dichloropropene	<0.30	ug/L	0.30	1.0	1		7/14/2015	14:57	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606390 Sample Description: TW600

Sampled: 7/10/2015 0905

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Trichloroethene	<0.30	ug/L	0.30	1.1	1			7/14/2015 14:57	AGK	EPA 8260C
Trichlorofluoromethane	<0.60	ug/L	0.60	2.1	1			7/14/2015 14:57	AGK	EPA 8260C
Vinyl acetate	<6.0	ug/L	6.0	20	1			7/14/2015 14:57	AGK	EPA 8260C
Vinyl chloride	<0.18	ug/L	0.18	0.59	1			7/14/2015 14:57	AGK	EPA 8260C
1-Methylnaphthalene	0.12	ug/L	0.0030	0.0090	1		7/16/2015 08:00	8/9/2015 20:52	RPN	EPA 8270D-SIM
2-Methylnaphthalene	0.080	ug/L	0.0030	0.011	1	B	7/16/2015 08:00	8/9/2015 20:52	RPN	EPA 8270D-SIM
Acenaphthene	0.011	ug/L	0.0030	0.010	1		7/16/2015 08:00	8/9/2015 20:52	RPN	EPA 8270D-SIM
Acenaphthylene	0.060	ug/L	0.0050	0.015	1	B	7/16/2015 08:00	8/9/2015 20:52	RPN	EPA 8270D-SIM
Anthracene	0.041	ug/L	0.0060	0.019	1		7/16/2015 08:00	8/9/2015 20:52	RPN	EPA 8270D-SIM
Benzo(a)anthracene	0.14	ug/L	0.0050	0.016	1	B	7/16/2015 08:00	8/9/2015 20:52	RPN	EPA 8270D-SIM
Benzo(a)pyrene	0.13	ug/L	0.0050	0.015	1	B	7/16/2015 08:00	8/9/2015 20:52	RPN	EPA 8270D-SIM
Benzo(b)fluoranthene	0.17	ug/L	0.0060	0.020	1	B	7/16/2015 08:00	8/9/2015 20:52	RPN	EPA 8270D-SIM
Benzo(g,h,i)perylene	0.089	ug/L	0.0060	0.019	1	B	7/16/2015 08:00	8/9/2015 20:52	RPN	EPA 8270D-SIM
Benzo(k)fluoranthene	0.074	ug/L	0.0070	0.023	1	B	7/16/2015 08:00	8/9/2015 20:52	RPN	EPA 8270D-SIM
Chrysene	0.13	ug/L	0.0050	0.016	1	B	7/16/2015 08:00	8/9/2015 20:52	RPN	EPA 8270D-SIM
Dibenzo(a,h)anthracene	0.024	ug/L	0.0060	0.018	1	B	7/16/2015 08:00	8/9/2015 20:52	RPN	EPA 8270D-SIM
Fluoranthene	0.29	ug/L	0.0050	0.016	1	B	7/16/2015 08:00	8/9/2015 20:52	RPN	EPA 8270D-SIM
Fluorene	0.019	ug/L	0.0030	0.0090	1	B	7/16/2015 08:00	8/9/2015 20:52	RPN	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	0.083	ug/L	0.0060	0.019	1	B	7/16/2015 08:00	8/9/2015 20:52	RPN	EPA 8270D-SIM
Naphthalene	0.087	ug/L	0.011	0.037	1	B	7/16/2015 08:00	8/9/2015 20:52	RPN	EPA 8270D-SIM
Phenanthrene	0.13	ug/L	0.0040	0.014	1	B	7/16/2015 08:00	8/9/2015 20:52	RPN	EPA 8270D-SIM
Pyrene	0.22	ug/L	0.0040	0.012	1	B	7/16/2015 08:00	8/9/2015 20:52	RPN	EPA 8270D-SIM

CT LAB Sample#: 606391 Sample Description: TW800

Sampled: 7/10/2015 0945

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Dissolved Barium	71.8	ug/L	0.70	2.2	1			7/14/2015 19:20	NAH	EPA 6010C
Dissolved Cadmium	<0.26	ug/L	0.26	0.87	1			7/14/2015 19:20	NAH	EPA 6010C
Dissolved Chromium	<1.0	ug/L	1.0	3.4	1			7/14/2015 19:20	NAH	EPA 6010C
Dissolved Lead	<1.5	ug/L	1.5	5.0	1			7/14/2015 19:20	NAH	EPA 6010C
Dissolved Selenium	<12	ug/L	12	40	1			7/14/2015 19:20	NAH	EPA 6010C
Dissolved Silver	<2.0	ug/L	2.0	6.8	1			7/14/2015 19:20	NAH	EPA 6010C
Dissolved Arsenic	65.2	ug/L	0.50	1.6	1		7/16/2015 09:45	7/16/2015 15:13	MDS	EPA 7010
Dissolved Mercury	<0.050	ug/L	0.050	0.18	1		7/17/2015 07:30	7/20/2015 10:49	LJF	EPA 7470A
Organic Results										
1,1,1,2-Tetrachloroethane	<0.40	ug/L	0.40	1.4	1			7/14/2015 15:27	AGK	EPA 8260C
1,1,1-Trichloroethane	<0.30	ug/L	0.30	1.1	1			7/14/2015 15:27	AGK	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.40	ug/L	0.40	1.3	1			7/14/2015 15:27	AGK	EPA 8260C
1,1,2-Trichloroethane	<0.30	ug/L	0.30	1.1	1			7/14/2015 15:27	AGK	EPA 8260C
1,1-Dichloroethane	<0.40	ug/L	0.40	1.3	1			7/14/2015 15:27	AGK	EPA 8260C
1,1-Dichloroethene	<0.27	ug/L	0.27	0.90	1			7/14/2015 15:27	AGK	EPA 8260C
1,1-Dichloropropene	<0.40	ug/L	0.40	1.4	1			7/14/2015 15:27	AGK	EPA 8260C
1,2,3-Trichlorobenzene	<0.40	ug/L	0.40	1.2	1			7/14/2015 15:27	AGK	EPA 8260C
1,2,3-Trichloropropane	<0.40	ug/L	0.40	1.4	1			7/14/2015 15:27	AGK	EPA 8260C
1,2,4-Trichlorobenzene	<0.40	ug/L	0.40	1.3	1			7/14/2015 15:27	AGK	EPA 8260C
1,2,4-Trimethylbenzene	<0.30	ug/L	0.30	1.0	1			7/14/2015 15:27	AGK	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.40	ug/L	0.40	1.5	1			7/14/2015 15:27	AGK	EPA 8260C
1,2-Dibromoethane	<0.40	ug/L	0.40	1.2	1			7/14/2015 15:27	AGK	EPA 8260C
1,2-Dichlorobenzene	<0.40	ug/L	0.40	1.4	1			7/14/2015 15:27	AGK	EPA 8260C

CT LAB Sample#: 606391 Sample Description: TW800

Sampled: 7/10/2015 0945

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dichloroethane	<0.30	ug/L	0.30	1.1	1			7/14/2015 15:27	AGK	EPA 8260C
1,2-Dichloropropane	<0.28	ug/L	0.28	0.94	1			7/14/2015 15:27	AGK	EPA 8260C
1,3,5-Trimethylbenzene	<0.30	ug/L	0.30	1.1	1			7/14/2015 15:27	AGK	EPA 8260C
1,3-Dichlorobenzene	<0.30	ug/L	0.30	1.0	1			7/14/2015 15:27	AGK	EPA 8260C
1,3-Dichloropropane	<0.29	ug/L	0.29	0.96	1			7/14/2015 15:27	AGK	EPA 8260C
1,4-Dichlorobenzene	<0.30	ug/L	0.30	1.1	1			7/14/2015 15:27	AGK	EPA 8260C
2,2-Dichloropropane	<0.70	ug/L	0.70	2.5	1			7/14/2015 15:27	AGK	EPA 8260C
2-Butanone	<4.0	ug/L	4.0	15	1			7/14/2015 15:27	AGK	EPA 8260C
2-Chlorotoluene	<0.40	ug/L	0.40	1.3	1			7/14/2015 15:27	AGK	EPA 8260C
2-Hexanone	<9.0	ug/L	9.0	29	1			7/14/2015 15:27	AGK	EPA 8260C
4-Chlorotoluene	<0.40	ug/L	0.40	1.2	1			7/14/2015 15:27	AGK	EPA 8260C
4-Methyl-2-pentanone	<7.0	ug/L	7.0	25	1			7/14/2015 15:27	AGK	EPA 8260C
Acetone	<7.0	ug/L	7.0	23	1			7/14/2015 15:27	AGK	EPA 8260C
Benzene	<0.30	ug/L	0.30	1.2	1			7/14/2015 15:27	AGK	EPA 8260C
Bromobenzene	<0.40	ug/L	0.40	1.2	1			7/14/2015 15:27	AGK	EPA 8260C
Bromochloromethane	<0.40	ug/L	0.40	1.5	1			7/14/2015 15:27	AGK	EPA 8260C
Bromodichloromethane	<0.30	ug/L	0.30	1.0	1			7/14/2015 15:27	AGK	EPA 8260C
Bromoform	<0.29	ug/L	0.29	0.96	1			7/14/2015 15:27	AGK	EPA 8260C
Bromomethane	<1.1	ug/L	1.1	3.8	1			7/14/2015 15:27	AGK	EPA 8260C
Carbon disulfide	<0.50	ug/L	0.50	1.7	1			7/14/2015 15:27	AGK	EPA 8260C
Carbon tetrachloride	<0.30	ug/L	0.30	1.1	1			7/14/2015 15:27	AGK	EPA 8260C
Chlorobenzene	<0.40	ug/L	0.40	1.2	1			7/14/2015 15:27	AGK	EPA 8260C
Chloroethane	<0.80	ug/L	0.80	2.8	1			7/14/2015 15:27	AGK	EPA 8260C
Chloroform	<0.30	ug/L	0.30	1.1	1			7/14/2015 15:27	AGK	EPA 8260C
Chloromethane	<0.80	ug/L	0.80	2.8	1			7/14/2015 15:27	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606391 Sample Description: TW800

Sampled: 7/10/2015 0945

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
cis-1,2-Dichloroethene	<0.30	ug/L	0.30	0.99	1		7/14/2015	15:27	AGK	EPA 8260C
cis-1,3-Dichloropropene	<0.29	ug/L	0.29	0.97	1		7/14/2015	15:27	AGK	EPA 8260C
Dibromochloromethane	<0.40	ug/L	0.40	1.2	1		7/14/2015	15:27	AGK	EPA 8260C
Dibromomethane	<0.30	ug/L	0.30	1.0	1		7/14/2015	15:27	AGK	EPA 8260C
Dichlorodifluoromethane	<0.80	ug/L	0.80	2.5	1		7/14/2015	15:27	AGK	EPA 8260C
Diisopropyl ether	<0.30	ug/L	0.30	1.0	1		7/14/2015	15:27	AGK	EPA 8260C
Ethylbenzene	<0.30	ug/L	0.30	1.2	1		7/14/2015	15:27	AGK	EPA 8260C
Hexachlorobutadiene	<0.40	ug/L	0.40	1.3	1		7/14/2015	15:27	AGK	EPA 8260C
Isopropylbenzene	<0.40	ug/L	0.40	1.2	1		7/14/2015	15:27	AGK	EPA 8260C
m & p-Xylene	<0.70	ug/L	0.70	2.2	1		7/14/2015	15:27	AGK	EPA 8260C
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.2	1		7/14/2015	15:27	AGK	EPA 8260C
Methylene chloride	<0.30	ug/L	0.30	1.1	1		7/14/2015	15:27	AGK	EPA 8260C
n-Butylbenzene	<0.40	ug/L	0.40	1.3	1		7/14/2015	15:27	AGK	EPA 8260C
n-Propylbenzene	<0.40	ug/L	0.40	1.3	1		7/14/2015	15:27	AGK	EPA 8260C
Naphthalene	<1.0	ug/L	1.0	3.3	1		7/14/2015	15:27	AGK	EPA 8260C
o-Xylene	<0.30	ug/L	0.30	1.1	1		7/14/2015	15:27	AGK	EPA 8260C
p-Isopropyltoluene	0.93	ug/L	0.40 *	1.3	1		7/14/2015	15:27	AGK	EPA 8260C
sec-Butylbenzene	<0.40	ug/L	0.40	1.2	1		7/14/2015	15:27	AGK	EPA 8260C
Styrene	<0.28	ug/L	0.28	0.93	1		7/14/2015	15:27	AGK	EPA 8260C
tert-Butylbenzene	<0.40	ug/L	0.40	1.3	1		7/14/2015	15:27	AGK	EPA 8260C
Tetrachloroethene	<0.40	ug/L	0.40	1.2	1		7/14/2015	15:27	AGK	EPA 8260C
Tetrahydrofuran	<1.1	ug/L	1.1	3.5	1		7/14/2015	15:27	AGK	EPA 8260C
Toluene	<0.27	ug/L	0.27	0.91	1		7/14/2015	15:27	AGK	EPA 8260C
trans-1,2-Dichloroethene	<0.30	ug/L	0.30	1.0	1		7/14/2015	15:27	AGK	EPA 8260C
trans-1,3-Dichloropropene	<0.30	ug/L	0.30	1.0	1		7/14/2015	15:27	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606391 Sample Description: TW800

Sampled: 7/10/2015 0945

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Trichloroethene	<0.30	ug/L	0.30	1.1	1			7/14/2015 15:27	AGK	EPA 8260C
Trichlorofluoromethane	<0.60	ug/L	0.60	2.1	1			7/14/2015 15:27	AGK	EPA 8260C
Vinyl acetate	<6.0	ug/L	6.0	20	1			7/14/2015 15:27	AGK	EPA 8260C
Vinyl chloride	<0.18	ug/L	0.18	0.59	1			7/14/2015 15:27	AGK	EPA 8260C
1-Methylnaphthalene	0.028	ug/L	0.0029	0.0088	1		7/16/2015 08:00	8/9/2015 21:14	RPN	EPA 8270D-SIM
2-Methylnaphthalene	0.028	ug/L	0.0029	0.011	1	B	7/16/2015 08:00	8/9/2015 21:14	RPN	EPA 8270D-SIM
Acenaphthene	0.012	ug/L	0.0029	0.0098	1		7/16/2015 08:00	8/9/2015 21:14	RPN	EPA 8270D-SIM
Acenaphthylene	0.012	ug/L	0.0049 *	0.015	1	B	7/16/2015 08:00	8/9/2015 21:14	RPN	EPA 8270D-SIM
Anthracene	0.013	ug/L	0.0059 *	0.019	1		7/16/2015 08:00	8/9/2015 21:14	RPN	EPA 8270D-SIM
Benzo(a)anthracene	0.025	ug/L	0.0049	0.016	1	B	7/16/2015 08:00	8/9/2015 21:14	RPN	EPA 8270D-SIM
Benzo(a)pyrene	0.026	ug/L	0.0049	0.015	1	B	7/16/2015 08:00	8/9/2015 21:14	RPN	EPA 8270D-SIM
Benzo(b)fluoranthene	0.034	ug/L	0.0059	0.020	1	B	7/16/2015 08:00	8/9/2015 21:14	RPN	EPA 8270D-SIM
Benzo(g,h,i)perylene	0.021	ug/L	0.0059	0.019	1	B	7/16/2015 08:00	8/9/2015 21:14	RPN	EPA 8270D-SIM
Benzo(k)fluoranthene	0.017	ug/L	0.0068 *	0.022	1	B	7/16/2015 08:00	8/9/2015 21:14	RPN	EPA 8270D-SIM
Chrysene	0.029	ug/L	0.0049	0.016	1	B	7/16/2015 08:00	8/9/2015 21:14	RPN	EPA 8270D-SIM
Dibenzo(a,h)anthracene	0.0067	ug/L	0.0059 *	0.018	1	B	7/16/2015 08:00	8/9/2015 21:14	RPN	EPA 8270D-SIM
Fluoranthene	0.046	ug/L	0.0049	0.016	1	B	7/16/2015 08:00	8/9/2015 21:14	RPN	EPA 8270D-SIM
Fluorene	0.020	ug/L	0.0029	0.0088	1	B	7/16/2015 08:00	8/9/2015 21:14	RPN	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	0.018	ug/L	0.0059 *	0.019	1	B	7/16/2015 08:00	8/9/2015 21:14	RPN	EPA 8270D-SIM
Naphthalene	0.046	ug/L	0.011	0.036	1	B	7/16/2015 08:00	8/9/2015 21:14	RPN	EPA 8270D-SIM
Phenanthrene	0.056	ug/L	0.0039	0.014	1	B	7/16/2015 08:00	8/9/2015 21:14	RPN	EPA 8270D-SIM
Pyrene	0.044	ug/L	0.0039	0.012	1	B	7/16/2015 08:00	8/9/2015 21:14	RPN	EPA 8270D-SIM

CT LAB Sample#: 606392 Sample Description: TW1100

Sampled: 7/10/2015 1100

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Dissolved Barium	140	ug/L	0.70	2.2	1			7/14/2015 19:25	NAH	EPA 6010C
Dissolved Cadmium	<0.26	ug/L	0.26	0.87	1			7/14/2015 19:25	NAH	EPA 6010C
Dissolved Chromium	2.4	ug/L	1.0 *	3.4	1			7/14/2015 19:25	NAH	EPA 6010C
Dissolved Lead	<1.5	ug/L	1.5	5.0	1			7/14/2015 19:25	NAH	EPA 6010C
Dissolved Selenium	26.7	ug/L	12 *	40	1			7/14/2015 19:25	NAH	EPA 6010C
Dissolved Silver	<2.0	ug/L	2.0	6.8	1			7/14/2015 19:25	NAH	EPA 6010C
Dissolved Arsenic	9.7	ug/L	0.50	1.6	1		7/16/2015 09:45	7/16/2015 16:09	MDS	EPA 7010
Dissolved Mercury	<0.050	ug/L	0.050	0.18	1		7/17/2015 07:30	7/20/2015 10:51	LJF	EPA 7470A
Organic Results										
1,1,1,2-Tetrachloroethane	<0.40	ug/L	0.40	1.4	1			7/14/2015 15:57	AGK	EPA 8260C
1,1,1-Trichloroethane	<0.30	ug/L	0.30	1.1	1			7/14/2015 15:57	AGK	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.40	ug/L	0.40	1.3	1			7/14/2015 15:57	AGK	EPA 8260C
1,1,2-Trichloroethane	<0.30	ug/L	0.30	1.1	1			7/14/2015 15:57	AGK	EPA 8260C
1,1-Dichloroethane	<0.40	ug/L	0.40	1.3	1			7/14/2015 15:57	AGK	EPA 8260C
1,1-Dichloroethene	<0.27	ug/L	0.27	0.90	1			7/14/2015 15:57	AGK	EPA 8260C
1,1-Dichloropropene	<0.40	ug/L	0.40	1.4	1			7/14/2015 15:57	AGK	EPA 8260C
1,2,3-Trichlorobenzene	<0.40	ug/L	0.40	1.2	1			7/14/2015 15:57	AGK	EPA 8260C
1,2,3-Trichloropropane	<0.40	ug/L	0.40	1.4	1			7/14/2015 15:57	AGK	EPA 8260C
1,2,4-Trichlorobenzene	<0.40	ug/L	0.40	1.3	1			7/14/2015 15:57	AGK	EPA 8260C
1,2,4-Trimethylbenzene	<0.30	ug/L	0.30	1.0	1			7/14/2015 15:57	AGK	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.40	ug/L	0.40	1.5	1			7/14/2015 15:57	AGK	EPA 8260C
1,2-Dibromoethane	<0.40	ug/L	0.40	1.2	1			7/14/2015 15:57	AGK	EPA 8260C
1,2-Dichlorobenzene	<0.40	ug/L	0.40	1.4	1			7/14/2015 15:57	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606392 Sample Description: TW1100

Sampled: 7/10/2015 1100

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dichloroethane	<0.30	ug/L	0.30	1.1	1		7/14/2015	15:57	AGK	EPA 8260C
1,2-Dichloropropane	<0.28	ug/L	0.28	0.94	1		7/14/2015	15:57	AGK	EPA 8260C
1,3,5-Trimethylbenzene	<0.30	ug/L	0.30	1.1	1		7/14/2015	15:57	AGK	EPA 8260C
1,3-Dichlorobenzene	<0.30	ug/L	0.30	1.0	1		7/14/2015	15:57	AGK	EPA 8260C
1,3-Dichloropropane	<0.29	ug/L	0.29	0.96	1		7/14/2015	15:57	AGK	EPA 8260C
1,4-Dichlorobenzene	<0.30	ug/L	0.30	1.1	1		7/14/2015	15:57	AGK	EPA 8260C
2,2-Dichloropropane	<0.70	ug/L	0.70	2.5	1		7/14/2015	15:57	AGK	EPA 8260C
2-Butanone	<4.0	ug/L	4.0	15	1		7/14/2015	15:57	AGK	EPA 8260C
2-Chlorotoluene	<0.40	ug/L	0.40	1.3	1		7/14/2015	15:57	AGK	EPA 8260C
2-Hexanone	<9.0	ug/L	9.0	29	1		7/14/2015	15:57	AGK	EPA 8260C
4-Chlorotoluene	<0.40	ug/L	0.40	1.2	1		7/14/2015	15:57	AGK	EPA 8260C
4-Methyl-2-pentanone	7.5	ug/L	7.0 *	25	1		7/14/2015	15:57	AGK	EPA 8260C
Acetone	13	ug/L	7.0 *	23	1		7/14/2015	15:57	AGK	EPA 8260C
Benzene	<0.30	ug/L	0.30	1.2	1		7/14/2015	15:57	AGK	EPA 8260C
Bromobenzene	<0.40	ug/L	0.40	1.2	1		7/14/2015	15:57	AGK	EPA 8260C
Bromochloromethane	<0.40	ug/L	0.40	1.5	1		7/14/2015	15:57	AGK	EPA 8260C
Bromodichloromethane	<0.30	ug/L	0.30	1.0	1		7/14/2015	15:57	AGK	EPA 8260C
Bromoform	<0.29	ug/L	0.29	0.96	1		7/14/2015	15:57	AGK	EPA 8260C
Bromomethane	<1.1	ug/L	1.1	3.8	1		7/14/2015	15:57	AGK	EPA 8260C
Carbon disulfide	<0.50	ug/L	0.50	1.7	1		7/14/2015	15:57	AGK	EPA 8260C
Carbon tetrachloride	<0.30	ug/L	0.30	1.1	1		7/14/2015	15:57	AGK	EPA 8260C
Chlorobenzene	<0.40	ug/L	0.40	1.2	1		7/14/2015	15:57	AGK	EPA 8260C
Chloroethane	<0.80	ug/L	0.80	2.8	1		7/14/2015	15:57	AGK	EPA 8260C
Chloroform	<0.30	ug/L	0.30	1.1	1		7/14/2015	15:57	AGK	EPA 8260C
Chloromethane	<0.80	ug/L	0.80	2.8	1		7/14/2015	15:57	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606392 Sample Description: TW1100

Sampled: 7/10/2015 1100

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
cis-1,2-Dichloroethene	<0.30	ug/L	0.30	0.99	1			7/14/2015 15:57	AGK	EPA 8260C
cis-1,3-Dichloropropene	<0.29	ug/L	0.29	0.97	1			7/14/2015 15:57	AGK	EPA 8260C
Dibromochloromethane	<0.40	ug/L	0.40	1.2	1			7/14/2015 15:57	AGK	EPA 8260C
Dibromomethane	<0.30	ug/L	0.30	1.0	1			7/14/2015 15:57	AGK	EPA 8260C
Dichlorodifluoromethane	<0.80	ug/L	0.80	2.5	1			7/14/2015 15:57	AGK	EPA 8260C
Diisopropyl ether	<0.30	ug/L	0.30	1.0	1			7/14/2015 15:57	AGK	EPA 8260C
Ethylbenzene	<0.30	ug/L	0.30	1.2	1			7/14/2015 15:57	AGK	EPA 8260C
Hexachlorobutadiene	<0.40	ug/L	0.40	1.3	1			7/14/2015 15:57	AGK	EPA 8260C
Isopropylbenzene	<0.40	ug/L	0.40	1.2	1			7/14/2015 15:57	AGK	EPA 8260C
m & p-Xylene	<0.70	ug/L	0.70	2.2	1			7/14/2015 15:57	AGK	EPA 8260C
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.2	1			7/14/2015 15:57	AGK	EPA 8260C
Methylene chloride	<0.30	ug/L	0.30	1.1	1			7/14/2015 15:57	AGK	EPA 8260C
n-Butylbenzene	<0.40	ug/L	0.40	1.3	1			7/14/2015 15:57	AGK	EPA 8260C
n-Propylbenzene	<0.40	ug/L	0.40	1.3	1			7/14/2015 15:57	AGK	EPA 8260C
Naphthalene	<1.0	ug/L	1.0	3.3	1			7/14/2015 15:57	AGK	EPA 8260C
o-Xylene	<0.30	ug/L	0.30	1.1	1			7/14/2015 15:57	AGK	EPA 8260C
p-Isopropyltoluene	<0.40	ug/L	0.40	1.3	1			7/14/2015 15:57	AGK	EPA 8260C
sec-Butylbenzene	<0.40	ug/L	0.40	1.2	1			7/14/2015 15:57	AGK	EPA 8260C
Styrene	<0.28	ug/L	0.28	0.93	1			7/14/2015 15:57	AGK	EPA 8260C
tert-Butylbenzene	<0.40	ug/L	0.40	1.3	1			7/14/2015 15:57	AGK	EPA 8260C
Tetrachloroethene	<0.40	ug/L	0.40	1.2	1			7/14/2015 15:57	AGK	EPA 8260C
Tetrahydrofuran	<1.1	ug/L	1.1	3.5	1			7/14/2015 15:57	AGK	EPA 8260C
Toluene	<0.27	ug/L	0.27	0.91	1			7/14/2015 15:57	AGK	EPA 8260C
trans-1,2-Dichloroethene	<0.30	ug/L	0.30	1.0	1			7/14/2015 15:57	AGK	EPA 8260C
trans-1,3-Dichloropropene	<0.30	ug/L	0.30	1.0	1			7/14/2015 15:57	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606392 Sample Description: TW1100

Sampled: 7/10/2015 1100

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Trichloroethene	<0.30	ug/L	0.30	1.1	1			7/14/2015 15:57	AGK	EPA 8260C
Trichlorofluoromethane	<0.60	ug/L	0.60	2.1	1			7/14/2015 15:57	AGK	EPA 8260C
Vinyl acetate	<6.0	ug/L	6.0	20	1			7/14/2015 15:57	AGK	EPA 8260C
Vinyl chloride	<0.18	ug/L	0.18	0.59	1			7/14/2015 15:57	AGK	EPA 8260C
1-Methylnaphthalene	0.040	ug/L	0.0029	0.0088	1		7/16/2015 08:00	8/9/2015 21:36	RPN	EPA 8270D-SIM
2-Methylnaphthalene	0.063	ug/L	0.0029	0.011	1	B	7/16/2015 08:00	8/9/2015 21:36	RPN	EPA 8270D-SIM
Acenaphthene	0.017	ug/L	0.0029	0.0098	1		7/16/2015 08:00	8/9/2015 21:36	RPN	EPA 8270D-SIM
Acenaphthylene	0.032	ug/L	0.0049	0.015	1	B	7/16/2015 08:00	8/9/2015 21:36	RPN	EPA 8270D-SIM
Anthracene	<0.0060	ug/L	0.0059	0.019	1		7/16/2015 08:00	8/9/2015 21:36	RPN	EPA 8270D-SIM
Benzo(a)anthracene	0.0061	ug/L	0.0049 *	0.016	1	B	7/16/2015 08:00	8/9/2015 21:36	RPN	EPA 8270D-SIM
Benzo(a)pyrene	<0.0050	ug/L	0.0049	0.015	1	B	7/16/2015 08:00	8/9/2015 21:36	RPN	EPA 8270D-SIM
Benzo(b)fluoranthene	<0.0060	ug/L	0.0059	0.020	1	B	7/16/2015 08:00	8/9/2015 21:36	RPN	EPA 8270D-SIM
Benzo(g,h,i)perylene	<0.0060	ug/L	0.0059	0.019	1	B	7/16/2015 08:00	8/9/2015 21:36	RPN	EPA 8270D-SIM
Benzo(k)fluoranthene	<0.0070	ug/L	0.0068	0.022	1	B	7/16/2015 08:00	8/9/2015 21:36	RPN	EPA 8270D-SIM
Chrysene	0.0055	ug/L	0.0049 *	0.016	1	B	7/16/2015 08:00	8/9/2015 21:36	RPN	EPA 8270D-SIM
Dibenzo(a,h)anthracene	<0.0060	ug/L	0.0059	0.018	1	B	7/16/2015 08:00	8/9/2015 21:36	RPN	EPA 8270D-SIM
Fluoranthene	0.0073	ug/L	0.0049 *	0.016	1	B	7/16/2015 08:00	8/9/2015 21:36	RPN	EPA 8270D-SIM
Fluorene	0.0065	ug/L	0.0029 *	0.0088	1	B	7/16/2015 08:00	8/9/2015 21:36	RPN	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	<0.0060	ug/L	0.0059	0.019	1	B	7/16/2015 08:00	8/9/2015 21:36	RPN	EPA 8270D-SIM
Naphthalene	0.059	ug/L	0.011	0.036	1	B	7/16/2015 08:00	8/9/2015 21:36	RPN	EPA 8270D-SIM
Phenanthrene	0.024	ug/L	0.0039	0.014	1	B	7/16/2015 08:00	8/9/2015 21:36	RPN	EPA 8270D-SIM
Pyrene	0.0070	ug/L	0.0039 *	0.012	1	B	7/16/2015 08:00	8/9/2015 21:36	RPN	EPA 8270D-SIM

CT LAB Sample#: 606393 Sample Description: TRIP

Sampled: 7/10/2015 1130

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.40	ug/L	0.40	1.4	1		7/14/2015 10:28	10:28	AGK	EPA 8260C
1,1,1-Trichloroethane	<0.30	ug/L	0.30	1.1	1		7/14/2015 10:28	10:28	AGK	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.40	ug/L	0.40	1.3	1		7/14/2015 10:28	10:28	AGK	EPA 8260C
1,1,2-Trichloroethane	<0.30	ug/L	0.30	1.1	1		7/14/2015 10:28	10:28	AGK	EPA 8260C
1,1-Dichloroethane	<0.40	ug/L	0.40	1.3	1		7/14/2015 10:28	10:28	AGK	EPA 8260C
1,1-Dichloroethene	<0.27	ug/L	0.27	0.90	1		7/14/2015 10:28	10:28	AGK	EPA 8260C
1,1-Dichloropropene	<0.40	ug/L	0.40	1.4	1		7/14/2015 10:28	10:28	AGK	EPA 8260C
1,2,3-Trichlorobenzene	<0.40	ug/L	0.40	1.2	1		7/14/2015 10:28	10:28	AGK	EPA 8260C
1,2,3-Trichloropropane	<0.40	ug/L	0.40	1.4	1		7/14/2015 10:28	10:28	AGK	EPA 8260C
1,2,4-Trichlorobenzene	<0.40	ug/L	0.40	1.3	1		7/14/2015 10:28	10:28	AGK	EPA 8260C
1,2,4-Trimethylbenzene	<0.30	ug/L	0.30	1.0	1		7/14/2015 10:28	10:28	AGK	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.40	ug/L	0.40	1.5	1		7/14/2015 10:28	10:28	AGK	EPA 8260C
1,2-Dibromoethane	<0.40	ug/L	0.40	1.2	1		7/14/2015 10:28	10:28	AGK	EPA 8260C
1,2-Dichlorobenzene	<0.40	ug/L	0.40	1.4	1		7/14/2015 10:28	10:28	AGK	EPA 8260C
1,2-Dichloroethane	<0.30	ug/L	0.30	1.1	1		7/14/2015 10:28	10:28	AGK	EPA 8260C
1,2-Dichloropropane	<0.28	ug/L	0.28	0.94	1		7/14/2015 10:28	10:28	AGK	EPA 8260C
1,3,5-Trimethylbenzene	<0.30	ug/L	0.30	1.1	1		7/14/2015 10:28	10:28	AGK	EPA 8260C
1,3-Dichlorobenzene	<0.30	ug/L	0.30	1.0	1		7/14/2015 10:28	10:28	AGK	EPA 8260C
1,3-Dichloropropane	<0.29	ug/L	0.29	0.96	1		7/14/2015 10:28	10:28	AGK	EPA 8260C
1,4-Dichlorobenzene	<0.30	ug/L	0.30	1.1	1		7/14/2015 10:28	10:28	AGK	EPA 8260C
2,2-Dichloropropane	<0.70	ug/L	0.70	2.5	1		7/14/2015 10:28	10:28	AGK	EPA 8260C
2-Butanone	<4.0	ug/L	4.0	15	1		7/14/2015 10:28	10:28	AGK	EPA 8260C
2-Chlorotoluene	<0.40	ug/L	0.40	1.3	1		7/14/2015 10:28	10:28	AGK	EPA 8260C
2-Hexanone	<9.0	ug/L	9.0	29	1		7/14/2015 10:28	10:28	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606393 Sample Description: TRIP

Sampled: 7/10/2015 1130

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4-Chlorotoluene	<0.40	ug/L	0.40	1.2	1		7/14/2015 10:28	7/14/2015 10:28	AGK	EPA 8260C
4-Methyl-2-pentanone	<7.0	ug/L	7.0	25	1		7/14/2015 10:28	7/14/2015 10:28	AGK	EPA 8260C
Acetone	<7.0	ug/L	7.0	23	1		7/14/2015 10:28	7/14/2015 10:28	AGK	EPA 8260C
Benzene	<0.30	ug/L	0.30	1.2	1		7/14/2015 10:28	7/14/2015 10:28	AGK	EPA 8260C
Bromobenzene	<0.40	ug/L	0.40	1.2	1		7/14/2015 10:28	7/14/2015 10:28	AGK	EPA 8260C
Bromochloromethane	<0.40	ug/L	0.40	1.5	1		7/14/2015 10:28	7/14/2015 10:28	AGK	EPA 8260C
Bromodichloromethane	<0.30	ug/L	0.30	1.0	1		7/14/2015 10:28	7/14/2015 10:28	AGK	EPA 8260C
Bromoform	<0.29	ug/L	0.29	0.96	1		7/14/2015 10:28	7/14/2015 10:28	AGK	EPA 8260C
Bromomethane	<1.1	ug/L	1.1	3.8	1		7/14/2015 10:28	7/14/2015 10:28	AGK	EPA 8260C
Carbon disulfide	<0.50	ug/L	0.50	1.7	1		7/14/2015 10:28	7/14/2015 10:28	AGK	EPA 8260C
Carbon tetrachloride	<0.30	ug/L	0.30	1.1	1		7/14/2015 10:28	7/14/2015 10:28	AGK	EPA 8260C
Chlorobenzene	<0.40	ug/L	0.40	1.2	1		7/14/2015 10:28	7/14/2015 10:28	AGK	EPA 8260C
Chloroethane	<0.80	ug/L	0.80	2.8	1		7/14/2015 10:28	7/14/2015 10:28	AGK	EPA 8260C
Chloroform	<0.30	ug/L	0.30	1.1	1		7/14/2015 10:28	7/14/2015 10:28	AGK	EPA 8260C
Chloromethane	<0.80	ug/L	0.80	2.8	1		7/14/2015 10:28	7/14/2015 10:28	AGK	EPA 8260C
cis-1,2-Dichloroethene	<0.30	ug/L	0.30	0.99	1		7/14/2015 10:28	7/14/2015 10:28	AGK	EPA 8260C
cis-1,3-Dichloropropene	<0.29	ug/L	0.29	0.97	1		7/14/2015 10:28	7/14/2015 10:28	AGK	EPA 8260C
Dibromochloromethane	<0.40	ug/L	0.40	1.2	1		7/14/2015 10:28	7/14/2015 10:28	AGK	EPA 8260C
Dibromomethane	<0.30	ug/L	0.30	1.0	1		7/14/2015 10:28	7/14/2015 10:28	AGK	EPA 8260C
Dichlorodifluoromethane	<0.80	ug/L	0.80	2.5	1		7/14/2015 10:28	7/14/2015 10:28	AGK	EPA 8260C
Diisopropyl ether	<0.30	ug/L	0.30	1.0	1		7/14/2015 10:28	7/14/2015 10:28	AGK	EPA 8260C
Ethylbenzene	<0.30	ug/L	0.30	1.2	1		7/14/2015 10:28	7/14/2015 10:28	AGK	EPA 8260C
Hexachlorobutadiene	<0.40	ug/L	0.40	1.3	1		7/14/2015 10:28	7/14/2015 10:28	AGK	EPA 8260C
Isopropylbenzene	<0.40	ug/L	0.40	1.2	1		7/14/2015 10:28	7/14/2015 10:28	AGK	EPA 8260C
m & p-Xylene	<0.70	ug/L	0.70	2.2	1		7/14/2015 10:28	7/14/2015 10:28	AGK	EPA 8260C

CT LAB Sample#: 606393 Sample Description: TRIP

Sampled: 7/10/2015 1130

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.2	1		7/14/2015	10:28	AGK	EPA 8260C
Methylene chloride	<0.30	ug/L	0.30	1.1	1		7/14/2015	10:28	AGK	EPA 8260C
n-Butylbenzene	<0.40	ug/L	0.40	1.3	1		7/14/2015	10:28	AGK	EPA 8260C
n-Propylbenzene	<0.40	ug/L	0.40	1.3	1		7/14/2015	10:28	AGK	EPA 8260C
Naphthalene	<1.0	ug/L	1.0	3.3	1		7/14/2015	10:28	AGK	EPA 8260C
o-Xylene	<0.30	ug/L	0.30	1.1	1		7/14/2015	10:28	AGK	EPA 8260C
p-Isopropyltoluene	<0.40	ug/L	0.40	1.3	1		7/14/2015	10:28	AGK	EPA 8260C
sec-Butylbenzene	<0.40	ug/L	0.40	1.2	1		7/14/2015	10:28	AGK	EPA 8260C
Styrene	<0.28	ug/L	0.28	0.93	1		7/14/2015	10:28	AGK	EPA 8260C
tert-Butylbenzene	<0.40	ug/L	0.40	1.3	1		7/14/2015	10:28	AGK	EPA 8260C
Tetrachloroethene	<0.40	ug/L	0.40	1.2	1		7/14/2015	10:28	AGK	EPA 8260C
Tetrahydrofuran	<1.1	ug/L	1.1	3.5	1		7/14/2015	10:28	AGK	EPA 8260C
Toluene	<0.27	ug/L	0.27	0.91	1		7/14/2015	10:28	AGK	EPA 8260C
trans-1,2-Dichloroethene	<0.30	ug/L	0.30	1.0	1		7/14/2015	10:28	AGK	EPA 8260C
trans-1,3-Dichloropropene	<0.30	ug/L	0.30	1.0	1		7/14/2015	10:28	AGK	EPA 8260C
Trichloroethene	<0.30	ug/L	0.30	1.1	1		7/14/2015	10:28	AGK	EPA 8260C
Trichlorofluoromethane	<0.60	ug/L	0.60	2.1	1		7/14/2015	10:28	AGK	EPA 8260C
Vinyl acetate	<6.0	ug/L	6.0	20	1		7/14/2015	10:28	AGK	EPA 8260C
Vinyl chloride	<0.18	ug/L	0.18	0.59	1		7/14/2015	10:28	AGK	EPA 8260C

CT LAB Sample#: 606394 Sample Description: DUP

Sampled: 7/10/2015

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
---------	--------	-------	-----	-----	----------	-----------	----------------	--------------------	---------	--------

Metals Results

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606394 Sample Description: DUP

Sampled: 7/10/2015

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dissolved Barium	170	ug/L	0.70	2.2	1			7/14/2015 19:29	NAH	EPA 6010C
Dissolved Cadmium	<0.26	ug/L	0.26	0.87	1			7/14/2015 19:29	NAH	EPA 6010C
Dissolved Chromium	<1.0	ug/L	1.0	3.4	1			7/14/2015 19:29	NAH	EPA 6010C
Dissolved Lead	<1.5	ug/L	1.5	5.0	1	M		7/14/2015 19:29	NAH	EPA 6010C
Dissolved Selenium	<12	ug/L	12	40	1			7/14/2015 19:29	NAH	EPA 6010C
Dissolved Silver	3.8	ug/L	2.0 *	6.8	1			7/14/2015 19:29	NAH	EPA 6010C
Dissolved Arsenic	5.2	ug/L	0.50	1.6	1		7/16/2015 09:45	7/16/2015 16:15	MDS	EPA 7010
Dissolved Mercury	<0.050	ug/L	0.050	0.18	1		7/17/2015 07:30	7/20/2015 10:53	LJF	EPA 7470A
Organic Results										
1,1,1,2-Tetrachloroethane	<0.40	ug/L	0.40	1.4	1			7/14/2015 16:26	AGK	EPA 8260C
1,1,1-Trichloroethane	<0.30	ug/L	0.30	1.1	1			7/14/2015 16:26	AGK	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.40	ug/L	0.40	1.3	1			7/14/2015 16:26	AGK	EPA 8260C
1,1,2-Trichloroethane	<0.30	ug/L	0.30	1.1	1			7/14/2015 16:26	AGK	EPA 8260C
1,1-Dichloroethane	<0.40	ug/L	0.40	1.3	1			7/14/2015 16:26	AGK	EPA 8260C
1,1-Dichloroethene	<0.27	ug/L	0.27	0.90	1			7/14/2015 16:26	AGK	EPA 8260C
1,1-Dichloropropene	<0.40	ug/L	0.40	1.4	1			7/14/2015 16:26	AGK	EPA 8260C
1,2,3-Trichlorobenzene	<0.40	ug/L	0.40	1.2	1			7/14/2015 16:26	AGK	EPA 8260C
1,2,3-Trichloropropane	<0.40	ug/L	0.40	1.4	1			7/14/2015 16:26	AGK	EPA 8260C
1,2,4-Trichlorobenzene	<0.40	ug/L	0.40	1.3	1			7/14/2015 16:26	AGK	EPA 8260C
1,2,4-Trimethylbenzene	0.69	ug/L	0.30 *	1.0	1			7/14/2015 16:26	AGK	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.40	ug/L	0.40	1.5	1			7/14/2015 16:26	AGK	EPA 8260C
1,2-Dibromoethane	<0.40	ug/L	0.40	1.2	1			7/14/2015 16:26	AGK	EPA 8260C
1,2-Dichlorobenzene	<0.40	ug/L	0.40	1.4	1			7/14/2015 16:26	AGK	EPA 8260C
1,2-Dichloroethane	<0.30	ug/L	0.30	1.1	1			7/14/2015 16:26	AGK	EPA 8260C
1,2-Dichloropropane	<0.28	ug/L	0.28	0.94	1			7/14/2015 16:26	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606394 Sample Description: DUP

Sampled: 7/10/2015

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3,5-Trimethylbenzene	<0.30	ug/L	0.30	1.1	1		7/14/2015	16:26	AGK	EPA 8260C
1,3-Dichlorobenzene	<0.30	ug/L	0.30	1.0	1		7/14/2015	16:26	AGK	EPA 8260C
1,3-Dichloropropane	<0.29	ug/L	0.29	0.96	1		7/14/2015	16:26	AGK	EPA 8260C
1,4-Dichlorobenzene	<0.30	ug/L	0.30	1.1	1		7/14/2015	16:26	AGK	EPA 8260C
2,2-Dichloropropane	<0.70	ug/L	0.70	2.5	1		7/14/2015	16:26	AGK	EPA 8260C
2-Butanone	<4.0	ug/L	4.0	15	1		7/14/2015	16:26	AGK	EPA 8260C
2-Chlorotoluene	<0.40	ug/L	0.40	1.3	1		7/14/2015	16:26	AGK	EPA 8260C
2-Hexanone	<9.0	ug/L	9.0	29	1		7/14/2015	16:26	AGK	EPA 8260C
4-Chlorotoluene	<0.40	ug/L	0.40	1.2	1		7/14/2015	16:26	AGK	EPA 8260C
4-Methyl-2-pentanone	<7.0	ug/L	7.0	25	1		7/14/2015	16:26	AGK	EPA 8260C
Acetone	23	ug/L	7.0	23	1		7/14/2015	16:26	AGK	EPA 8260C
Benzene	<0.30	ug/L	0.30	1.2	1		7/14/2015	16:26	AGK	EPA 8260C
Bromobenzene	<0.40	ug/L	0.40	1.2	1		7/14/2015	16:26	AGK	EPA 8260C
Bromochloromethane	<0.40	ug/L	0.40	1.5	1		7/14/2015	16:26	AGK	EPA 8260C
Bromodichloromethane	<0.30	ug/L	0.30	1.0	1		7/14/2015	16:26	AGK	EPA 8260C
Bromoform	<0.29	ug/L	0.29	0.96	1		7/14/2015	16:26	AGK	EPA 8260C
Bromomethane	<1.1	ug/L	1.1	3.8	1		7/14/2015	16:26	AGK	EPA 8260C
Carbon disulfide	<0.50	ug/L	0.50	1.7	1		7/14/2015	16:26	AGK	EPA 8260C
Carbon tetrachloride	<0.30	ug/L	0.30	1.1	1		7/14/2015	16:26	AGK	EPA 8260C
Chlorobenzene	<0.40	ug/L	0.40	1.2	1		7/14/2015	16:26	AGK	EPA 8260C
Chloroethane	<0.80	ug/L	0.80	2.8	1		7/14/2015	16:26	AGK	EPA 8260C
Chloroform	0.34	ug/L	0.30 *	1.1	1		7/14/2015	16:26	AGK	EPA 8260C
Chloromethane	<0.80	ug/L	0.80	2.8	1		7/14/2015	16:26	AGK	EPA 8260C
cis-1,2-Dichloroethene	<0.30	ug/L	0.30	0.99	1		7/14/2015	16:26	AGK	EPA 8260C
cis-1,3-Dichloropropene	<0.29	ug/L	0.29	0.97	1		7/14/2015	16:26	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606394 Sample Description: DUP

Sampled: 7/10/2015

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibromochloromethane	<0.40	ug/L	0.40	1.2	1			7/14/2015 16:26	AGK	EPA 8260C
Dibromomethane	<0.30	ug/L	0.30	1.0	1			7/14/2015 16:26	AGK	EPA 8260C
Dichlorodifluoromethane	<0.80	ug/L	0.80	2.5	1			7/14/2015 16:26	AGK	EPA 8260C
Diisopropyl ether	<0.30	ug/L	0.30	1.0	1			7/14/2015 16:26	AGK	EPA 8260C
Ethylbenzene	<0.30	ug/L	0.30	1.2	1			7/14/2015 16:26	AGK	EPA 8260C
Hexachlorobutadiene	<0.40	ug/L	0.40	1.3	1			7/14/2015 16:26	AGK	EPA 8260C
Isopropylbenzene	<0.40	ug/L	0.40	1.2	1			7/14/2015 16:26	AGK	EPA 8260C
m & p-Xylene	<0.70	ug/L	0.70	2.2	1			7/14/2015 16:26	AGK	EPA 8260C
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.2	1			7/14/2015 16:26	AGK	EPA 8260C
Methylene chloride	<0.30	ug/L	0.30	1.1	1			7/14/2015 16:26	AGK	EPA 8260C
n-Butylbenzene	<0.40	ug/L	0.40	1.3	1			7/14/2015 16:26	AGK	EPA 8260C
n-Propylbenzene	<0.40	ug/L	0.40	1.3	1			7/14/2015 16:26	AGK	EPA 8260C
Naphthalene	<1.0	ug/L	1.0	3.3	1			7/14/2015 16:26	AGK	EPA 8260C
o-Xylene	<0.30	ug/L	0.30	1.1	1			7/14/2015 16:26	AGK	EPA 8260C
p-Isopropyltoluene	<0.40	ug/L	0.40	1.3	1			7/14/2015 16:26	AGK	EPA 8260C
sec-Butylbenzene	<0.40	ug/L	0.40	1.2	1			7/14/2015 16:26	AGK	EPA 8260C
Styrene	<0.28	ug/L	0.28	0.93	1			7/14/2015 16:26	AGK	EPA 8260C
tert-Butylbenzene	<0.40	ug/L	0.40	1.3	1			7/14/2015 16:26	AGK	EPA 8260C
Tetrachloroethene	<0.40	ug/L	0.40	1.2	1			7/14/2015 16:26	AGK	EPA 8260C
Tetrahydrofuran	<1.1	ug/L	1.1	3.5	1			7/14/2015 16:26	AGK	EPA 8260C
Toluene	<0.27	ug/L	0.27	0.91	1			7/14/2015 16:26	AGK	EPA 8260C
trans-1,2-Dichloroethene	<0.30	ug/L	0.30	1.0	1			7/14/2015 16:26	AGK	EPA 8260C
trans-1,3-Dichloropropene	<0.30	ug/L	0.30	1.0	1			7/14/2015 16:26	AGK	EPA 8260C
Trichloroethene	<0.30	ug/L	0.30	1.1	1			7/14/2015 16:26	AGK	EPA 8260C
Trichlorofluoromethane	<0.60	ug/L	0.60	2.1	1			7/14/2015 16:26	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 606394 Sample Description: DUP

Sampled: 7/10/2015

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Vinyl acetate	<6.0	ug/L	6.0	20	1			7/14/2015 16:26	AGK	EPA 8260C
Vinyl chloride	<0.18	ug/L	0.18	0.59	1			7/14/2015 16:26	AGK	EPA 8260C
1-Methylnaphthalene	0.15	ug/L	0.0030	0.0090	1		7/16/2015 08:00	8/9/2015 21:58	RPN	EPA 8270D-SIM
2-Methylnaphthalene	0.098	ug/L	0.0030	0.011	1	B	7/16/2015 08:00	8/9/2015 21:58	RPN	EPA 8270D-SIM
Acenaphthene	0.015	ug/L	0.0030	0.010	1		7/16/2015 08:00	8/9/2015 21:58	RPN	EPA 8270D-SIM
Acenaphthylene	0.045	ug/L	0.0050	0.015	1	B	7/16/2015 08:00	8/9/2015 21:58	RPN	EPA 8270D-SIM
Anthracene	0.036	ug/L	0.0060	0.019	1		7/16/2015 08:00	8/9/2015 21:58	RPN	EPA 8270D-SIM
Benzo(a)anthracene	0.095	ug/L	0.0050	0.016	1	B	7/16/2015 08:00	8/9/2015 21:58	RPN	EPA 8270D-SIM
Benzo(a)pyrene	0.092	ug/L	0.0050	0.015	1	B	7/16/2015 08:00	8/9/2015 21:58	RPN	EPA 8270D-SIM
Benzo(b)fluoranthene	0.12	ug/L	0.0060	0.020	1	B	7/16/2015 08:00	8/9/2015 21:58	RPN	EPA 8270D-SIM
Benzo(g,h,i)perylene	0.062	ug/L	0.0060	0.019	1	B	7/16/2015 08:00	8/9/2015 21:58	RPN	EPA 8270D-SIM
Benzo(k)fluoranthene	0.043	ug/L	0.0070	0.023	1	B	7/16/2015 08:00	8/9/2015 21:58	RPN	EPA 8270D-SIM
Chrysene	0.090	ug/L	0.0050	0.016	1	B	7/16/2015 08:00	8/9/2015 21:58	RPN	EPA 8270D-SIM
Dibenzo(a,h)anthracene	0.017	ug/L	0.0060 *	0.018	1	B	7/16/2015 08:00	8/9/2015 21:58	RPN	EPA 8270D-SIM
Fluoranthene	0.22	ug/L	0.0050	0.016	1	B	7/16/2015 08:00	8/9/2015 21:58	RPN	EPA 8270D-SIM
Fluorene	0.020	ug/L	0.0030	0.0090	1	B	7/16/2015 08:00	8/9/2015 21:58	RPN	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	0.058	ug/L	0.0060	0.019	1	B	7/16/2015 08:00	8/9/2015 21:58	RPN	EPA 8270D-SIM
Naphthalene	0.079	ug/L	0.011	0.037	1	B	7/16/2015 08:00	8/9/2015 21:58	RPN	EPA 8270D-SIM
Phenanthrene	0.13	ug/L	0.0040	0.014	1	B	7/16/2015 08:00	8/9/2015 21:58	RPN	EPA 8270D-SIM
Pyrene	0.16	ug/L	0.0040	0.012	1	B	7/16/2015 08:00	8/9/2015 21:58	RPN	EPA 8270D-SIM

Notes: * Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Pat M. Letterer
 Project Manager
 608-356-2760

QC Qualifiers

<u>Code</u>	<u>Description</u>
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Kansas NELAP ID# E-10368
 Kentucky ID# 0023
 ISO/IEC 17025-2005 A2LA Cert # 3806.01
 North Carolina ID# 674
 Wisconsin (WDNR) Chemistry ID# 157066030
 Wisconsin (DATCP) Bacteriology ID# 105-289
 DoD-ELAP A2LA 3806.01
 GA EPD Stipulation ID E871111, Expires Annually
 Louisiana ID # 115843
 Virginia ID# 7608
 Illinois NELAP ID # 002413
 Wisconsin (WOSB) ID# WI-5499-WBE
 Maryland ID# 344

Company: Stantec
 Project Contact: Jeff Brand
 Telephone: ~~920-854-592~~ ⁽⁹²⁰⁾ 592-8400
 Project Name: MCABI-Tyco
 Project #: 193703365
 Location: Marinette
 Sampled By: Jeff Brand

CT LABORATORIES
 Folder #: 112477
 Company: STANTEC
 Project: MCABI-TYCO
 Logged By: JLS PM PM

1230 Lange Court, Baraboo, WI 53913
 608-356-2760 Fax 608-356-2766
 www.ctlaboratories.com

Report To:
 EMAIL: Jeff.brand@stantec.com
 Company: Stantec
 Address: 1165 Schweig Rd.
DePere, WI 54115
 Invoice To: *
 EMAIL:
 Company: SAME
 Address:

gram:
 RCRA SDWA NPDES
 d Waste Other _____
 # _____

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions

ANALYSES REQUESTED

Matrix: GW - groundwater SW - surface water WW - wastewater DW - drinking water S - soil/sediment SL - sludge A - air M - misc/waste	Filtered? Y/N	VOC	PAH	Dis. RCRA met. 1	ANALYSES REQUESTED												Total # Containers	Designated MS/MSD	Turnaround Time Normal RUSH* Date Needed: _____ Rush analysis requires prior CT Laboratories' approval Surcharges: 24 hr 200% 2-3 days 100% 4-9 days 50%

Collection Date	Time	Matrix	Grab/Comp	Sample #	Sample ID Description	Filtered? Y/N	VOC	PAH	Dis. RCRA met. 1	Fill in Spaces with Bottles per Test												Total # Containers	Designated MS/MSD	CT Lab ID # <i>Lab use only</i>				
7-9-15	850	GW	6cb	TW100		Y	X	X	X																	6		606388
7-9-15	1300	GW		TW300		Y	X	X	X																	6		606389
7-10-15	905	GW		TW600		Y	X	X	X																	6		606390
7-10-15	945	GW		TW800		Y	X	X	X																	6		606391
7-10-15	11:00	GW		TW1100		Y	X	X	X																	6		606392
7-10-15	11:30	GW		Trp			X																			1		606393
7-10-15		GW		DUP		Y	X	X	X																	6		606394

Relinquished By: <u>[Signature]</u>	Date/Time: <u>7-10-15 / 14:00</u>	Received By: <u>[Signature]</u>	Date/Time: <u>7/13/15 0943</u>	Lab Use Only Ice Present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Temp <u>2.5</u> IR Gun # <u>10</u> Cooler # <u>3714</u>
Received by:	Date/Time:	Received for Laboratory by: <u>[Signature]</u>	Date/Time: <u>7/14/15 11:00</u>	

Company: Startec
 Project Contact: Jeff Brand
 Telephone: 920-598-8400
 Project Name: mcABI-Tyco
 Project #: 193703365
 Location: Marinette
 Sampled By: Jeff Brand

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
 608-356-2760 Fax 608-356-2766
 www.ctlaboratories.com

Report To:
 EMAIL: Jeff.brand@startec.com
 Company: Startec
 Address: 1165 Schwing Rd
DeRose, WI 54115
 Invoice To: *
 EMAIL:
 Company: SAME
 Address:

Lab Use Only
 Place Header Sticker Here:

112471

Program:
 QSM RCRA SDWA NPDES
 Solid Waste Other _____
 PO #

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions

ANALYSES REQUESTED

Matrix:
 GW - groundwater SW - surface water WW - wastewater DW - drinking water
 S - soil/sediment SL - sludge A - air M - misc/waste

Filtered? Y/N	VOC	PAH	RCRA (metal)	ANALYSES REQUESTED										Total # Containers	Designated MS/MSD	Turnaround Time Normal RUSH* Date Needed: _____ Rush analysis requires prior CT Laboratories' approval Surcharges: 24 hr 200% 2-3 days 100% 4-9 days 50%
	X	X	X												3	
																606376
																606377
																606378
																606379
																606380
																606381
																606382
																606383
																606384
																606385
																606386
																606387

Collection		Matrix	Grab/Comp	Sample #	Sample ID Description
Date	Time				
7/8/15	845	S	G		S102
	1028	S	G		S201
	1205	S	G		S305
	1328	S	G		S404
	1450	S	G		S502
7/9/15	755	S	G		S604
	918	S	G		S703
	1038	S	G		S802
	1159	S	G		S902
	1349	S	G		S1002
	1514	S	G		S1102
7/8/15	1239	S	G		S1202

Relinquished by: [Signature] Date/Time: 7/10/15 / 14:00
 Received by: [Signature] Date/Time: 7/11/15 (11:00)
 Lab Use Only
 Ice Present Yes No
 Temp 52.5 IR Gun # 10
 Cooler # 3711, 5542

CT Laboratories Terms and Conditions

When a purchaser (Client) places an order for laboratory, consulting or sampling services from CT Laboratories (CTL), CTL shall provide the ordered services pursuant to these Terms and Conditions, and the related Quotation, or as agreed in a negotiated contract. In the absence of a written agreement to the contrary, the Order constitutes an acceptance by the Client of CTL's offer to do business under these Terms and Conditions, and an agreement to be bound by these Terms and Conditions. No contrary or additional terms and conditions expressed in a Client's document shall be deemed to become a part of the contract created upon acceptance of those Terms and Conditions, unless accepted by CTL in advance of the start of the project and in writing.

1. ORDERS AND RECEIPT OF SAMPLES (Sample Acceptance Policy)

1.1 The Client may place the Order (i.e., specify a Scope of Work) either by submitting a purchase order to CTL in writing, by telephone (confirmed in writing) or by negotiated contract. Whichever option the Client selects for placing the Order, the Order shall not be valid unless it contains sufficient specification to enable CTL to carry out the Client's requirements. It is the policy of CT Laboratories that samples not meeting the acceptance criteria, outlined in the NELAC standards and Section 5.8.3.2 of the DOD QSM, will not be accepted by the laboratory or will be qualified on the final report. All samples submitted to the laboratory must: (1) be accompanied by proper, full and complete documentation, including sample identification, location, date and time of collection, the collector's name, type of preservation (if any), type of sample, any special comments concerning the sample and any additional pertinent fields on the chain-of-custody. In the absence of any of the required information, the laboratory will attempt to contact the client to obtain the information; if unable to obtain the necessary information, the final report will be qualified. (2) be labeled appropriately with a unique sample identification written with indelible ink on water resistant labels. If the laboratory cannot determine the identity of a sample, it will be rejected and the client will be contacted for further instructions or resampling. (3) be in an appropriate sample container. If the container is inappropriate, the client will be contacted for further instructions or resampling. If analysis is possible, the final report will be qualified. CT Laboratories can provide a sampling guide containing approved containers and preservations for analytical methods requested. (4) adhere to specified holding times. If samples are received with less than 1/2 the holding time remaining for the requested test, CT Laboratories will make its best effort to analyze the samples and notify the client. If holding times are exceeded, the final report will be qualified. (5) contain adequate sample volume to perform the necessary testing. If sufficient volume is not present, the sample will be rejected and the client will be contacted for further instructions or resampling. If samples show signs of damage, contamination or inadequate preservation, the client will be notified. If analysis can be performed, the final report will be qualified. If not, the samples will be rejected and the client notified for further instructions or resampling.

1.2 CT Laboratories must be supplied with complete written disclosure of the known or suspected presence of any hazardous substances, as defined by applicable federal or state law. Where any samples which were not accompanied by the required disclosure, cause interruptions in the lab's ability to process work due to contamination of instruments or work areas, the Client will be responsible for the costs of clean up and recovery.

1.3 Prior to Sample Acceptance, the entire risk of loss or damage to samples remains with the Client. In no event will CTL have any responsibility or liability for the action or inaction of any carrier shipping or delivering any sample to or from CTL's premises. Client is responsible to assure that any sample containing any hazardous substance which is to be delivered to CTL's premises will be packaged, labeled, transported and delivered properly and in accordance with applicable laws.

2. PAYMENT TERMS

2.1 Services performed by CTL will be in accordance with prices quoted and later confirmed in writing or as stated in the Price Schedule. Invoices may be submitted to Client upon completion of any sample delivery group. Payment in advance is required for all Clients except those whose credit has been established with CTL. For Clients with approved credit, payment terms are net 30 days from the date of invoice by CTL. All overdue payments are subject to an additional interest and service charge of one and one-half percent (1.5%) (or the maximum rate permissible by law, whichever is lesser) per month or portion thereof from the due date until the date of payment. All fees are charged or billed directly to the Client. The billing of a third party will not be accepted without a statement, signed by the third party that acknowledges and accepts payment responsibility. CTL may suspend work and withhold delivery of data under this order at any time in the event Client fails to make timely payment of its invoices. Client shall be responsible for all costs and expenses of collection including reasonable attorney's fees. CTL reserves the right to refuse to proceed with work at any time based upon an unfavorable Client credit report.

3. CHANGE ORDERS, TERMINATION

3.1 Changes to the Scope of Work, price, or result delivery date may be initiated by CTL after Sample Acceptance due to any condition which conflicts with analytical, QA or other protocols warranted in these Terms and Conditions. CTL will not proceed with such changes until an agreement with the Client is reached on the amount of any cost, schedule change or technical change to the Scope of Work, and such agreement is documented in writing.

3.2 Changes to the Scope of Work, including but not limited to increasing or decreasing the work, changing test and analysis specification or acceleration in the performance of the work may be initiated by the Client after sample acceptance. Such a change will be documented in writing and may result in a change in cost and turnaround time commitment. CTL's acceptance of such changes is contingent upon technical feasibility and operational capacity.

3.3 Suspension or termination of all or any part of the work may be initiated by the Client. CTL will be compensated consistent with Section 2 of these Terms and Conditions. CTL will complete all work in progress and be paid in full for all work completed.

4. WARRANTIES AND LIABILITY

4.1 Where applicable, CTL will use analytical methodologies which are in substantial conformity with published test methods. CTL has implemented these methods in its Laboratory Quality Manuals and referenced Standard Operating Procedures and where the nature or composition of the sample requires it, CTL reserves the right to deviate from these methodologies as necessary or appropriate, based on the reasonable judgment of CTL, which deviations, if any, will be made on a basis consistent with recognized standards of the industry and/or CTL's Laboratory Quality Manuals. Client may request that CTL perform according to a mutually agreed Quality Assurance Project Plan (QAPP). In the event that samples arrive prior to agreement on a QAPP, CTL will proceed with analyses under its standard Quality Manuals then in effect, and CTL will not be responsible for any resampling or other charges if work must be repeated to comply with a subsequently finalized QAPP.

4.2 CTL shall start preparation and/or analysis within holding times provided that Sample Acceptance occurs within 48 hours of sampling or 1/2 of the holding time for the test, whichever is less. Where resolution of inconsistencies leading to Sample Acceptance does not occur within this period, CTL will use its best efforts to meet holding times and will proceed with the work provided that, in CTL's judgment, the chain-of-custody or definition of the Scope of Work provide sufficient guidance. Reanalysis of samples to comply with CTL's Quality Manuals will be deemed to have met holding times provided the initial analysis was performed within the applicable holding time. Where reanalysis demonstrates that sample matrix interference is the cause of failure to meet any Quality Manual requirements, the warranty will be deemed to have been met.

4.3 CTL warrants that it possesses and maintains all licenses and certifications which are required to perform services under these Terms and Conditions provided that such requirements are specified in writing to CTL prior to Sample Acceptance. CTL will notify the Client in writing of any decertification or revocation of any license, or notice of either, which affects work in progress.

4.4 The warranty obligations set forth in Sections 4.1, 4.2 and 4.3 are the sole and exclusive warranties given by CTL in connection with any services performed by CTL or any Results generated from such services, and CTL gives and makes NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. No representative of CTL is authorized to give or make any other representation or warranty or modify this warranty in any way.

4.5 Client's sole and exclusive remedy for the breach of warranty in connection with any services performed by CTL, will be limited to repeating any services performed, contingent on the Client's providing, at the request of CTL and at the Client's expense, additional sample(s) if necessary. Any reanalysis requested by the Client generating Results consistent with the original Results will be at the Client's expense. If resampling is necessary, CTL's liability for resampling costs will be limited to actual cost or one hundred or one hundred fifty dollars (\$150) per sample, whichever is less.

4.6 CTL's liability for any and all causes of action arising hereunder, whether based in contract, tort, warranty, negligence or otherwise, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be deemed waived unless suit thereon is filed within one year after CTL's completion of the services. Under no circumstances, whether arising in contract, tort (including negligence), or otherwise, shall CTL be responsible for loss of use, loss of profits, or for any special, indirect, incidental or consequential damages occasioned by the services performed or by application or use of the reports prepared.

4.7 In no event shall CTL have any responsibility or liability to the Client for any failure or delay in performance by CTL which results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of CTL. Such causes and circumstances shall include, but not be limited to, acts of God, acts of Client, acts or orders of any governmental authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, equipment breakdown, matrix interference or unknown highly contaminated samples that impact instrument operation, unavailability of supplies from usual suppliers, difficulties or delays in transportation, mail or delivery services, or any other cause beyond CTL's reasonable control.

5. RESULTS, WORK PRODUCT

5.1 Data or information provided to CTL or generated by services performed under this agreement shall only become the property of the Client upon receipt in full by CTL of payment for the whole Order. Ownership of any analytical method, QA/QC protocols, software programs or equipment developed by CTL for performance of work will be retained by CTL, and Client shall not disclose such information to any third party.

5.2 Data and sample materials provided by Client or at Client's request, and the result obtained by CTL shall be held in confidence (unless such information is generally available to the public or is in the public domain or Client has failed to pay CTL for all services rendered or is otherwise in breach of those Terms and Conditions), subject to any disclosure required by law or legal process.

5.3 Should the Results delivered by CTL be used by the Client or Client's client, even though subsequently determined not to meet the warranties described in these Terms and Conditions, then the compensation will be adjusted based upon mutual agreement. In no case shall the Client unreasonably withhold CTL's right to independently defend its data.

5.4 CTL reserves the right to subcontract services ordered by the Client to another laboratory or laboratories, if, in CTL's sole judgment, it is reasonably necessary, appropriate or advisable to do so, and with the Client's permission. CTL will in no way be liable for any subcontracted services and all applicable warranties, guarantees and insurance are those of the subcontracted laboratory.

5.5 CTL shall dispose of the Client's samples 30 days after the analytical report is issued, unless instructed to store them for an alternate period of time or to return such samples to the Client, in a manner consistent with U.S. Environmental Protection Agency regulations or other applicable Federal, state or local requirements. Any samples for projects that are canceled or not accepted, or for which return was requested, will be returned to the Client at their own expense. CTL reserves the right to return to the Client any sample or unused portion of a sample that is not within CTL's permitted capability or the capabilities of CTL's designated waste disposal vendor(s).

5.6 Unless a different time period is agreed to in any order under these Terms and Conditions, CTL agrees to retain all records for five (5) years.

5.7 In the event that CTL is required to respond to legal process related to services for Client, Client agrees to reimburse CTL for hourly charges for personnel involved in the response and attorney fees reasonably incurred in obtaining advice concerning the response, preparation to testify, and appearances related to the legal process, travel and all reasonable expenses associated with the litigation.

6. INSURANCE

6.1 CTL shall maintain in force during the performance of services under these Terms and Conditions, Workers' Compensation and Employer's Liability Insurance in accordance with the laws of the states having jurisdiction over CTL's employees who are engaged in the performance of the work. CTL shall also maintain during such period, Comprehensive General and Contractual Liability (limit of \$2,000,000 per occurrence/aggregate), Comprehensive Automobile Liability, owned and hired, (\$1,000,000 combined single limit), and Professional/Pollution Liability Insurance (limit of \$5,000,000 per occurrence/aggregate). Any Client required changes to these limits or conditions may result in a change in cost to the Client.

7. AUDIT

7.1 Upon prior notice to CTL, the Client may audit and inspect CTL's records and accounts covering reimbursable costs related to work done for the Client, for a period of one (1) year after completion of the work. The purpose of any such audit shall be only for verification of such costs, and CTL shall not be required to provide access to cost records where prices are expressed as fixed fees or published unit prices.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-102380-1
Client Project/Site: MCABI - Tyco Redevelop - 193703365

For:
Stantec Consulting Corp.
1165 Scheuring Road
De Pere, Wisconsin 54115

Attn: Mr. Jeff Brand



Authorized for release by:
10/20/2015 8:23:27 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	6
Sample Summary	7
Client Sample Results	8
Definitions	16
QC Association	17
Surrogate Summary	19
QC Sample Results	21
Chronicle	28
Certification Summary	31
Chain of Custody	32
Receipt Checklists	33

Case Narrative

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

Job ID: 500-102380-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-102380-1

Comments

No additional comments.

Receipt

The samples were received on 10/9/2015 11:21 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.5° C.

GC/MS VOA

Method(s) 5035: extract vial has < 8 grams of sample in 10 ml of methanol. S1502 (500-102380-3)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix and high target analytes: S1502 (500-102380-3). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following sample contained one base surrogate outside acceptance limits: S1502 (500-102380-3). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8081A: The following sample was diluted due to the nature of the sample matrix: S1602 (500-102380-4). Elevated reporting limits (RLs) are provided.

Method(s) 8082A: The following sample required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: S1803 (500-102380-7). The reagent lot number used was: 114634.

Method(s) 8082A: The TCX surrogate recovery for the following sample was outside control limits: S1803 (500-102380-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

Client Sample ID: S1301

Lab Sample ID: 500-102380-1

No Detections.

Client Sample ID: S1401

Lab Sample ID: 500-102380-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	3.5		1.7	0.28	ug/Kg	1	☒	8081A	Total/NA
4,4'-DDT	5.0		1.7	0.88	ug/Kg	1	☒	8081A	Total/NA

Client Sample ID: S1502

Lab Sample ID: 500-102380-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	130		110	39	ug/Kg	50	☒	8260B	Total/NA
Benzene	94		27	16	ug/Kg	50	☒	8260B	Total/NA
Ethylbenzene	68		27	20	ug/Kg	50	☒	8260B	Total/NA
Toluene	150		27	16	ug/Kg	50	☒	8260B	Total/NA
Xylenes, Total	250		55	24	ug/Kg	50	☒	8260B	Total/NA
1-Methylnaphthalene	120	J	180	44	ug/Kg	5	☒	8270D	Total/NA
2-Methylnaphthalene	130	J	180	33	ug/Kg	5	☒	8270D	Total/NA
Acenaphthene	84	J	180	32	ug/Kg	5	☒	8270D	Total/NA
Acenaphthylene	390		180	24	ug/Kg	5	☒	8270D	Total/NA
Anthracene	490		180	30	ug/Kg	5	☒	8270D	Total/NA
Benzo[a]anthracene	2100		180	24	ug/Kg	5	☒	8270D	Total/NA
Benzo[a]pyrene	2200		180	35	ug/Kg	5	☒	8270D	Total/NA
Benzo[b]fluoranthene	3000		180	39	ug/Kg	5	☒	8270D	Total/NA
Benzo[g,h,i]perylene	890		180	58	ug/Kg	5	☒	8270D	Total/NA
Benzo[k]fluoranthene	1300		180	53	ug/Kg	5	☒	8270D	Total/NA
Chrysene	1700		180	49	ug/Kg	5	☒	8270D	Total/NA
Dibenz(a,h)anthracene	270		180	35	ug/Kg	5	☒	8270D	Total/NA
Fluoranthene	3800		180	33	ug/Kg	5	☒	8270D	Total/NA
Fluorene	310		180	25	ug/Kg	5	☒	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	740		180	46	ug/Kg	5	☒	8270D	Total/NA
Naphthalene	220		180	28	ug/Kg	5	☒	8270D	Total/NA
Phenanthrene	1900		180	25	ug/Kg	5	☒	8270D	Total/NA
Pyrene	3200		180	36	ug/Kg	5	☒	8270D	Total/NA
Lead	94	F2	0.47	0.23	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: S1602

Lab Sample ID: 500-102380-4

No Detections.

Client Sample ID: S1702

Lab Sample ID: 500-102380-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	230		0.57	0.28	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: S1703

Lab Sample ID: 500-102380-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	220		0.58	0.29	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: S1803

Lab Sample ID: 500-102380-7

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

Client Sample ID: S1803 (Continued)

Lab Sample ID: 500-102380-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	170		21	8.2	ug/Kg	1	☒	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8081A	Organochlorine Pesticides (GC)	SW846	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-102380-1	S1301	Solid	10/07/15 09:39	10/09/15 11:21
500-102380-2	S1401	Solid	10/07/15 09:52	10/09/15 11:21
500-102380-3	S1502	Solid	10/07/15 10:15	10/09/15 11:21
500-102380-4	S1602	Solid	10/07/15 11:40	10/09/15 11:21
500-102380-5	S1702	Solid	10/07/15 12:47	10/09/15 11:21
500-102380-6	S1703	Solid	10/07/15 12:51	10/09/15 11:21
500-102380-7	S1803	Solid	10/07/15 14:15	10/09/15 11:21



Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

Client Sample ID: S1301
Date Collected: 10/07/15 09:39
Date Received: 10/09/15 11:21

Lab Sample ID: 500-102380-1
Matrix: Solid
Percent Solids: 96.2

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.71		1.7	0.71	ug/Kg	☼	10/09/15 15:30	10/12/15 16:52	1
alpha-BHC	<0.44		1.7	0.44	ug/Kg	☼	10/09/15 15:30	10/12/15 16:52	1
alpha-Chlordane	<0.87		1.7	0.87	ug/Kg	☼	10/09/15 15:30	10/12/15 16:52	1
beta-BHC	<0.53		1.7	0.53	ug/Kg	☼	10/09/15 15:30	10/12/15 16:52	1
4,4'-DDD	<0.34		1.7	0.34	ug/Kg	☼	10/09/15 15:30	10/12/15 16:52	1
4,4'-DDE	<0.28		1.7	0.28	ug/Kg	☼	10/09/15 15:30	10/12/15 16:52	1
4,4'-DDT	<0.90		1.7	0.90	ug/Kg	☼	10/09/15 15:30	10/12/15 16:52	1
delta-BHC	<0.54		1.7	0.54	ug/Kg	☼	10/09/15 15:30	10/12/15 16:52	1
Dieldrin	<0.24		1.7	0.24	ug/Kg	☼	10/09/15 15:30	10/12/15 16:52	1
Endosulfan I	<0.75		1.7	0.75	ug/Kg	☼	10/09/15 15:30	10/12/15 16:52	1
Endosulfan II	<0.28		1.7	0.28	ug/Kg	☼	10/09/15 15:30	10/12/15 16:52	1
Endosulfan sulfate	<0.31		1.7	0.31	ug/Kg	☼	10/09/15 15:30	10/12/15 16:52	1
Endrin	<0.24		1.7	0.24	ug/Kg	☼	10/09/15 15:30	10/12/15 16:52	1
Endrin aldehyde	<0.29		1.7	0.29	ug/Kg	☼	10/09/15 15:30	10/12/15 16:52	1
Endrin ketone	<0.39		1.7	0.39	ug/Kg	☼	10/09/15 15:30	10/12/15 16:52	1
gamma-BHC (Lindane)	<0.37		1.7	0.37	ug/Kg	☼	10/09/15 15:30	10/12/15 16:52	1
gamma-Chlordane	<0.45		1.7	0.45	ug/Kg	☼	10/09/15 15:30	10/12/15 16:52	1
Heptachlor	<0.72		1.7	0.72	ug/Kg	☼	10/09/15 15:30	10/12/15 16:52	1
Heptachlor epoxide	<0.61		1.7	0.61	ug/Kg	☼	10/09/15 15:30	10/12/15 16:52	1
Methoxychlor	<0.33		8.5	0.33	ug/Kg	☼	10/09/15 15:30	10/12/15 16:52	1
Toxaphene	<7.2		17	7.2	ug/Kg	☼	10/09/15 15:30	10/12/15 16:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl</i>	94		56 - 128				10/09/15 15:30	10/12/15 16:52	1
<i>Tetrachloro-m-xylene</i>	71		45 - 112				10/09/15 15:30	10/12/15 16:52	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.1		17	6.1	ug/Kg	☼	10/09/15 15:30	10/12/15 13:43	1
PCB-1221	<7.5		17	7.5	ug/Kg	☼	10/09/15 15:30	10/12/15 13:43	1
PCB-1232	<7.5		17	7.5	ug/Kg	☼	10/09/15 15:30	10/12/15 13:43	1
PCB-1242	<5.6		17	5.6	ug/Kg	☼	10/09/15 15:30	10/12/15 13:43	1
PCB-1248	<6.7		17	6.7	ug/Kg	☼	10/09/15 15:30	10/12/15 13:43	1
PCB-1254	<3.7		17	3.7	ug/Kg	☼	10/09/15 15:30	10/12/15 13:43	1
PCB-1260	<8.4		17	8.4	ug/Kg	☼	10/09/15 15:30	10/12/15 13:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	60		50 - 116				10/09/15 15:30	10/12/15 13:43	1
<i>DCB Decachlorobiphenyl</i>	77		48 - 142				10/09/15 15:30	10/12/15 13:43	1

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

Client Sample ID: S1401

Date Collected: 10/07/15 09:52

Date Received: 10/09/15 11:21

Lab Sample ID: 500-102380-2

Matrix: Solid

Percent Solids: 96.9

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.69		1.7	0.69	ug/Kg	☼	10/09/15 15:30	10/12/15 17:12	1
alpha-BHC	<0.42		1.7	0.42	ug/Kg	☼	10/09/15 15:30	10/12/15 17:12	1
alpha-Chlordane	<0.84		1.7	0.84	ug/Kg	☼	10/09/15 15:30	10/12/15 17:12	1
beta-BHC	<0.52		1.7	0.52	ug/Kg	☼	10/09/15 15:30	10/12/15 17:12	1
4,4'-DDD	<0.33		1.7	0.33	ug/Kg	☼	10/09/15 15:30	10/12/15 17:12	1
4,4'-DDE	3.5		1.7	0.28	ug/Kg	☼	10/09/15 15:30	10/12/15 17:12	1
4,4'-DDT	5.0		1.7	0.88	ug/Kg	☼	10/09/15 15:30	10/12/15 17:12	1
delta-BHC	<0.53		1.7	0.53	ug/Kg	☼	10/09/15 15:30	10/12/15 17:12	1
Dieldrin	<0.23		1.7	0.23	ug/Kg	☼	10/09/15 15:30	10/12/15 17:12	1
Endosulfan I	<0.73		1.7	0.73	ug/Kg	☼	10/09/15 15:30	10/12/15 17:12	1
Endosulfan II	<0.27		1.7	0.27	ug/Kg	☼	10/09/15 15:30	10/12/15 17:12	1
Endosulfan sulfate	<0.30		1.7	0.30	ug/Kg	☼	10/09/15 15:30	10/12/15 17:12	1
Endrin	<0.23		1.7	0.23	ug/Kg	☼	10/09/15 15:30	10/12/15 17:12	1
Endrin aldehyde	<0.28		1.7	0.28	ug/Kg	☼	10/09/15 15:30	10/12/15 17:12	1
Endrin ketone	<0.38		1.7	0.38	ug/Kg	☼	10/09/15 15:30	10/12/15 17:12	1
gamma-BHC (Lindane)	<0.36		1.7	0.36	ug/Kg	☼	10/09/15 15:30	10/12/15 17:12	1
gamma-Chlordane	<0.44		1.7	0.44	ug/Kg	☼	10/09/15 15:30	10/12/15 17:12	1
Heptachlor	<0.70		1.7	0.70	ug/Kg	☼	10/09/15 15:30	10/12/15 17:12	1
Heptachlor epoxide	<0.59		1.7	0.59	ug/Kg	☼	10/09/15 15:30	10/12/15 17:12	1
Methoxychlor	<0.32		8.3	0.32	ug/Kg	☼	10/09/15 15:30	10/12/15 17:12	1
Toxaphene	<7.0		17	7.0	ug/Kg	☼	10/09/15 15:30	10/12/15 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl</i>	123		56 - 128	10/09/15 15:30	10/12/15 17:12	1
<i>Tetrachloro-m-xylene</i>	105		45 - 112	10/09/15 15:30	10/12/15 17:12	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg	☼	10/09/15 15:30	10/12/15 13:58	1
PCB-1221	<7.3		17	7.3	ug/Kg	☼	10/09/15 15:30	10/12/15 13:58	1
PCB-1232	<7.3		17	7.3	ug/Kg	☼	10/09/15 15:30	10/12/15 13:58	1
PCB-1242	<5.5		17	5.5	ug/Kg	☼	10/09/15 15:30	10/12/15 13:58	1
PCB-1248	<6.6		17	6.6	ug/Kg	☼	10/09/15 15:30	10/12/15 13:58	1
PCB-1254	<3.6		17	3.6	ug/Kg	☼	10/09/15 15:30	10/12/15 13:58	1
PCB-1260	<8.2		17	8.2	ug/Kg	☼	10/09/15 15:30	10/12/15 13:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	76		50 - 116	10/09/15 15:30	10/12/15 13:58	1
<i>DCB Decachlorobiphenyl</i>	75		48 - 142	10/09/15 15:30	10/12/15 13:58	1

TestAmerica Chicago

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

Client Sample ID: S1502

Date Collected: 10/07/15 10:15

Date Received: 10/09/15 11:21

Lab Sample ID: 500-102380-3

Matrix: Solid

Percent Solids: 91.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<51		110	51	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
1,1,1-Trichloroethane	<42		110	42	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
1,1,1,2,2-Tetrachloroethane	<44		110	44	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
1,1,2-Trichloroethane	<39		110	39	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
1,1-Dichloroethane	<45		110	45	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
1,1-Dichloroethene	<43		110	43	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
1,1-Dichloropropene	<33		110	33	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
1,2,3-Trichlorobenzene	<50		110	50	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
1,2,3-Trichloropropane	<45		110	45	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
1,2,4-Trichlorobenzene	<37		110	37	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
1,2,4-Trimethylbenzene	130		110	39	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
1,2-Dibromo-3-Chloropropane	<220		550	220	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
1,2-Dibromoethane	<42		110	42	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
1,2-Dichlorobenzene	<37		110	37	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
1,2-Dichloroethane	<43		110	43	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
1,2-Dichloropropane	<47		110	47	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
1,3,5-Trimethylbenzene	<42		110	42	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
1,3-Dichlorobenzene	<44		110	44	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
1,3-Dichloropropane	<40		110	40	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
1,4-Dichlorobenzene	<40		110	40	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
2,2-Dichloropropane	<49		110	49	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
2-Chlorotoluene	<34		110	34	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
4-Chlorotoluene	<38		110	38	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
Benzene	94		27	16	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
Bromobenzene	<39		110	39	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
Bromochloromethane	<47		110	47	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
Bromodichloromethane	<41		110	41	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
Bromoform	<53		110	53	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
Bromomethane	<87		220	87	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
Carbon tetrachloride	<42		110	42	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
Chlorobenzene	<42		110	42	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
Chloroethane	<51		110	51	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
Chloroform	<40		110	40	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
Chloromethane	<35		110	35	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
cis-1,2-Dichloroethene	<45		110	45	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
cis-1,3-Dichloropropene	<46		110	46	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
Dibromochloromethane	<53		110	53	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
Dibromomethane	<30		110	30	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
Dichlorodifluoromethane	<59		220	59	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
Ethylbenzene	68		27	20	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
Hexachlorobutadiene	<49		110	49	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
Isopropyl ether	<30		110	30	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
Isopropylbenzene	<42		110	42	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
Methyl tert-butyl ether	<43		110	43	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
Methylene Chloride	<180		550	180	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
n-Butylbenzene	<42		110	42	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
N-Propylbenzene	<45		110	45	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
p-Isopropyltoluene	<40		110	40	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
sec-Butylbenzene	<44		110	44	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50

TestAmerica Chicago

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

Client Sample ID: S1502

Date Collected: 10/07/15 10:15

Date Received: 10/09/15 11:21

Lab Sample ID: 500-102380-3

Matrix: Solid

Percent Solids: 91.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<42		110	42	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
tert-Butylbenzene	<44		110	44	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
Tetrachloroethene	<40		110	40	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
Toluene	150		27	16	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
trans-1,2-Dichloroethene	<38		110	38	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
trans-1,3-Dichloropropene	<40		110	40	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
Trichloroethene	<18		55	18	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
Trichlorofluoromethane	<47		110	47	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
Vinyl chloride	<29		55	29	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50
Xylenes, Total	250		55	24	ug/Kg	☼	10/07/15 10:15	10/16/15 00:42	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		75 - 125	10/07/15 10:15	10/16/15 00:42	50
4-Bromofluorobenzene (Surr)	100		75 - 120	10/07/15 10:15	10/16/15 00:42	50
Dibromofluoromethane	91		75 - 120	10/07/15 10:15	10/16/15 00:42	50
Toluene-d8 (Surr)	104		75 - 120	10/07/15 10:15	10/16/15 00:42	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	120	J	180	44	ug/Kg	☼	10/12/15 07:32	10/16/15 15:42	5
2-Methylnaphthalene	130	J	180	33	ug/Kg	☼	10/12/15 07:32	10/16/15 15:42	5
Acenaphthene	84	J	180	32	ug/Kg	☼	10/12/15 07:32	10/16/15 15:42	5
Acenaphthylene	390		180	24	ug/Kg	☼	10/12/15 07:32	10/16/15 15:42	5
Anthracene	490		180	30	ug/Kg	☼	10/12/15 07:32	10/16/15 15:42	5
Benzo[a]anthracene	2100		180	24	ug/Kg	☼	10/12/15 07:32	10/16/15 15:42	5
Benzo[a]pyrene	2200		180	35	ug/Kg	☼	10/12/15 07:32	10/16/15 15:42	5
Benzo[b]fluoranthene	3000		180	39	ug/Kg	☼	10/12/15 07:32	10/16/15 15:42	5
Benzo[g,h,i]perylene	890		180	58	ug/Kg	☼	10/12/15 07:32	10/16/15 15:42	5
Benzo[k]fluoranthene	1300		180	53	ug/Kg	☼	10/12/15 07:32	10/16/15 15:42	5
Chrysene	1700		180	49	ug/Kg	☼	10/12/15 07:32	10/16/15 15:42	5
Dibenz(a,h)anthracene	270		180	35	ug/Kg	☼	10/12/15 07:32	10/16/15 15:42	5
Fluoranthene	3800		180	33	ug/Kg	☼	10/12/15 07:32	10/16/15 15:42	5
Fluorene	310		180	25	ug/Kg	☼	10/12/15 07:32	10/16/15 15:42	5
Indeno[1,2,3-cd]pyrene	740		180	46	ug/Kg	☼	10/12/15 07:32	10/16/15 15:42	5
Naphthalene	220		180	28	ug/Kg	☼	10/12/15 07:32	10/16/15 15:42	5
Phenanthrene	1900		180	25	ug/Kg	☼	10/12/15 07:32	10/16/15 15:42	5
Pyrene	3200		180	36	ug/Kg	☼	10/12/15 07:32	10/16/15 15:42	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		25 - 119	10/12/15 07:32	10/16/15 15:42	5
Nitrobenzene-d5 (Surr)	91		25 - 115	10/12/15 07:32	10/16/15 15:42	5
Terphenyl-d14 (Surr)	163	X	36 - 134	10/12/15 07:32	10/16/15 15:42	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	94	F2	0.47	0.23	mg/Kg	☼	10/12/15 11:30	10/12/15 19:20	1

TestAmerica Chicago

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

Client Sample ID: S1602

Date Collected: 10/07/15 11:40

Date Received: 10/09/15 11:21

Lab Sample ID: 500-102380-4

Matrix: Solid

Percent Solids: 97.4

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<6.9		17	6.9	ug/Kg	☼	10/09/15 15:30	10/12/15 17:33	10
alpha-BHC	<4.2		17	4.2	ug/Kg	☼	10/09/15 15:30	10/12/15 17:33	10
alpha-Chlordane	<8.4		17	8.4	ug/Kg	☼	10/09/15 15:30	10/12/15 17:33	10
beta-BHC	<5.2		17	5.2	ug/Kg	☼	10/09/15 15:30	10/12/15 17:33	10
4,4'-DDD	<3.3		17	3.3	ug/Kg	☼	10/09/15 15:30	10/12/15 17:33	10
4,4'-DDE	<2.8		17	2.8	ug/Kg	☼	10/09/15 15:30	10/12/15 17:33	10
4,4'-DDT	<8.8		17	8.8	ug/Kg	☼	10/09/15 15:30	10/12/15 17:33	10
delta-BHC	<5.2		17	5.2	ug/Kg	☼	10/09/15 15:30	10/12/15 17:33	10
Dieldrin	<2.3		17	2.3	ug/Kg	☼	10/09/15 15:30	10/12/15 17:33	10
Endosulfan I	<7.3		17	7.3	ug/Kg	☼	10/09/15 15:30	10/12/15 17:33	10
Endosulfan II	<2.7		17	2.7	ug/Kg	☼	10/09/15 15:30	10/12/15 17:33	10
Endosulfan sulfate	<3.0		17	3.0	ug/Kg	☼	10/09/15 15:30	10/12/15 17:33	10
Endrin	<2.3		17	2.3	ug/Kg	☼	10/09/15 15:30	10/12/15 17:33	10
Endrin aldehyde	<2.8		17	2.8	ug/Kg	☼	10/09/15 15:30	10/12/15 17:33	10
Endrin ketone	<3.8		17	3.8	ug/Kg	☼	10/09/15 15:30	10/12/15 17:33	10
gamma-BHC (Lindane)	<3.6		17	3.6	ug/Kg	☼	10/09/15 15:30	10/12/15 17:33	10
gamma-Chlordane	<4.4		17	4.4	ug/Kg	☼	10/09/15 15:30	10/12/15 17:33	10
Heptachlor	<7.0		17	7.0	ug/Kg	☼	10/09/15 15:30	10/12/15 17:33	10
Heptachlor epoxide	<5.9		17	5.9	ug/Kg	☼	10/09/15 15:30	10/12/15 17:33	10
Methoxychlor	<3.2		83	3.2	ug/Kg	☼	10/09/15 15:30	10/12/15 17:33	10
Toxaphene	<70		170	70	ug/Kg	☼	10/09/15 15:30	10/12/15 17:33	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	125		56 - 128	10/09/15 15:30	10/12/15 17:33	10
Tetrachloro-m-xylene	109		45 - 112	10/09/15 15:30	10/12/15 17:33	10

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg	☼	10/09/15 15:30	10/12/15 14:14	1
PCB-1221	<7.3		17	7.3	ug/Kg	☼	10/09/15 15:30	10/12/15 14:14	1
PCB-1232	<7.2		17	7.2	ug/Kg	☼	10/09/15 15:30	10/12/15 14:14	1
PCB-1242	<5.5		17	5.5	ug/Kg	☼	10/09/15 15:30	10/12/15 14:14	1
PCB-1248	<6.5		17	6.5	ug/Kg	☼	10/09/15 15:30	10/12/15 14:14	1
PCB-1254	<3.6		17	3.6	ug/Kg	☼	10/09/15 15:30	10/12/15 14:14	1
PCB-1260	<8.1		17	8.1	ug/Kg	☼	10/09/15 15:30	10/12/15 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		50 - 116	10/09/15 15:30	10/12/15 14:14	1
DCB Decachlorobiphenyl	85		48 - 142	10/09/15 15:30	10/12/15 14:14	1

TestAmerica Chicago

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

Client Sample ID: S1702

Date Collected: 10/07/15 12:47

Date Received: 10/09/15 11:21

Lab Sample ID: 500-102380-5

Matrix: Solid

Percent Solids: 82.7

Method: 6010B - Metals (ICP)

Analyte

Result

Qualifier

RL

MDL

Unit

D

Prepared

Analyzed

Dil Fac

Lead	230		0.57	0.28	mg/Kg	☼	10/12/15 11:30	10/12/15 19:51	1
------	-----	--	------	------	-------	---	----------------	----------------	---

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

Client Sample ID: S1703

Date Collected: 10/07/15 12:51

Date Received: 10/09/15 11:21

Lab Sample ID: 500-102380-6

Matrix: Solid

Percent Solids: 76.7

Method: 6010B - Metals (ICP)

Analyte

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	220		0.58	0.29	mg/Kg	☼	10/12/15 11:30	10/12/15 19:55	1

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

Client Sample ID: S1803
Date Collected: 10/07/15 14:15
Date Received: 10/09/15 11:21

Lab Sample ID: 500-102380-7
Matrix: Solid
Percent Solids: 77.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.3		21	7.3	ug/Kg	☼	10/09/15 15:30	10/12/15 16:34	1
PCB-1221	<9.1		21	9.1	ug/Kg	☼	10/09/15 15:30	10/12/15 16:34	1
PCB-1232	<9.0		21	9.0	ug/Kg	☼	10/09/15 15:30	10/12/15 16:34	1
PCB-1242	<6.8		21	6.8	ug/Kg	☼	10/09/15 15:30	10/12/15 16:34	1
PCB-1248	170		21	8.2	ug/Kg	☼	10/09/15 15:30	10/12/15 16:34	1
PCB-1254	<4.5		21	4.5	ug/Kg	☼	10/09/15 15:30	10/12/15 16:34	1
PCB-1260	<10		21	10	ug/Kg	☼	10/09/15 15:30	10/12/15 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	48	X	50 - 116	10/09/15 15:30	10/12/15 16:34	1
DCB Decachlorobiphenyl	49		48 - 142	10/09/15 15:30	10/12/15 16:34	1



Definitions/Glossary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

GC/MS VOA

Prep Batch: 307672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-102380-3	S1502	Total/NA	Solid	5035	

Analysis Batch: 308391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-102380-3	S1502	Total/NA	Solid	8260B	307672
LCS 500-308391/6	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-308391/8	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 307760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-102380-3	S1502	Total/NA	Solid	3541	
LCS 500-307760/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-307760/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 308018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-307760/2-A	Lab Control Sample	Total/NA	Solid	8270D	307760
MB 500-307760/1-A	Method Blank	Total/NA	Solid	8270D	307760

Analysis Batch: 308511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-102380-3	S1502	Total/NA	Solid	8270D	307760

GC Semi VOA

Prep Batch: 307660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-102380-1	S1301	Total/NA	Solid	3541	
500-102380-2	S1401	Total/NA	Solid	3541	
500-102380-4	S1602	Total/NA	Solid	3541	
500-102380-7	S1803	Total/NA	Solid	3541	
LCS 500-307660/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-307660/3-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-307660/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 307788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-102380-1	S1301	Total/NA	Solid	8082A	307660
500-102380-2	S1401	Total/NA	Solid	8082A	307660
500-102380-4	S1602	Total/NA	Solid	8082A	307660
500-102380-7	S1803	Total/NA	Solid	8082A	307660
LCS 500-307660/3-A	Lab Control Sample	Total/NA	Solid	8082A	307660
MB 500-307660/1-A	Method Blank	Total/NA	Solid	8082A	307660

Analysis Batch: 307792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-102380-1	S1301	Total/NA	Solid	8081A	307660
500-102380-2	S1401	Total/NA	Solid	8081A	307660

TestAmerica Chicago

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

GC Semi VOA (Continued)

Analysis Batch: 307792 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-102380-4	S1602	Total/NA	Solid	8081A	307660
LCS 500-307660/2-A	Lab Control Sample	Total/NA	Solid	8081A	307660
MB 500-307660/1-A	Method Blank	Total/NA	Solid	8081A	307660

Metals

Prep Batch: 307805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-102380-3	S1502	Total/NA	Solid	3050B	
500-102380-3 DU	S1502	Total/NA	Solid	3050B	
500-102380-3 MS	S1502	Total/NA	Solid	3050B	
500-102380-3 MSD	S1502	Total/NA	Solid	3050B	
500-102380-5	S1702	Total/NA	Solid	3050B	
500-102380-6	S1703	Total/NA	Solid	3050B	
LCS 500-307805/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-307805/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 307924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-102380-3	S1502	Total/NA	Solid	6010B	307805
500-102380-3 DU	S1502	Total/NA	Solid	6010B	307805
500-102380-3 MS	S1502	Total/NA	Solid	6010B	307805
500-102380-3 MSD	S1502	Total/NA	Solid	6010B	307805
500-102380-5	S1702	Total/NA	Solid	6010B	307805
500-102380-6	S1703	Total/NA	Solid	6010B	307805
LCS 500-307805/2-A	Lab Control Sample	Total/NA	Solid	6010B	307805
MB 500-307805/1-A	Method Blank	Total/NA	Solid	6010B	307805

General Chemistry

Analysis Batch: 307653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-102380-1	S1301	Total/NA	Solid	Moisture	
500-102380-1 DU	S1301	Total/NA	Solid	Moisture	
500-102380-2	S1401	Total/NA	Solid	Moisture	
500-102380-3	S1502	Total/NA	Solid	Moisture	
500-102380-4	S1602	Total/NA	Solid	Moisture	
500-102380-5	S1702	Total/NA	Solid	Moisture	
500-102380-6	S1703	Total/NA	Solid	Moisture	
500-102380-7	S1803	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (75-125)	BFB (75-120)	DBFM (75-120)	TOL (75-120)
500-102380-3	S1502	117	100	91	104
LCS 500-308391/6	Lab Control Sample	113	104	96	102
MB 500-308391/8	Method Blank	117	104	93	103

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (25-119)	NBZ (25-115)	TPH (36-134)
500-102380-3	S1502	96	91	163 X
LCS 500-307760/2-A	Lab Control Sample	90	90	104
MB 500-307760/1-A	Method Blank	93	91	119

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB1 (56-128)	TCX1 (45-112)
500-102380-1	S1301	94	71
500-102380-2	S1401	123	105
500-102380-4	S1602	125	109
LCS 500-307660/2-A	Lab Control Sample	90	80
MB 500-307660/1-A	Method Blank	88	79

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (50-116)	DCB1 (48-142)
500-102380-1	S1301	60	77
500-102380-2	S1401	76	75
500-102380-4	S1602	86	85

TestAmerica Chicago

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (50-116)	DCB1 (48-142)
500-102380-7	S1803	48 X	49
LCS 500-307660/3-A	Lab Control Sample	73	79
MB 500-307660/1-A	Method Blank	70	78

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-308391/8
Matrix: Solid
Analysis Batch: 308391

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			10/15/15 20:28	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			10/15/15 20:28	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			10/15/15 20:28	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			10/15/15 20:28	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			10/15/15 20:28	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			10/15/15 20:28	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			10/15/15 20:28	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			10/15/15 20:28	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/Kg			10/15/15 20:28	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			10/15/15 20:28	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			10/15/15 20:28	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			10/15/15 20:28	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			10/15/15 20:28	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			10/15/15 20:28	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			10/15/15 20:28	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			10/15/15 20:28	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			10/15/15 20:28	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			10/15/15 20:28	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			10/15/15 20:28	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			10/15/15 20:28	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			10/15/15 20:28	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			10/15/15 20:28	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			10/15/15 20:28	1
Benzene	<0.15		0.25	0.15	ug/Kg			10/15/15 20:28	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			10/15/15 20:28	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			10/15/15 20:28	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			10/15/15 20:28	1
Bromoform	<0.48		1.0	0.48	ug/Kg			10/15/15 20:28	1
Bromomethane	<0.80		2.0	0.80	ug/Kg			10/15/15 20:28	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			10/15/15 20:28	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			10/15/15 20:28	1
Chloroethane	<0.47		1.0	0.47	ug/Kg			10/15/15 20:28	1
Chloroform	<0.37		1.0	0.37	ug/Kg			10/15/15 20:28	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			10/15/15 20:28	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			10/15/15 20:28	1
cis-1,3-Dichloropropane	<0.42		1.0	0.42	ug/Kg			10/15/15 20:28	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			10/15/15 20:28	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			10/15/15 20:28	1
Dichlorodifluoromethane	<0.54		2.0	0.54	ug/Kg			10/15/15 20:28	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			10/15/15 20:28	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			10/15/15 20:28	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			10/15/15 20:28	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			10/15/15 20:28	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			10/15/15 20:28	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			10/15/15 20:28	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			10/15/15 20:28	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			10/15/15 20:28	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			10/15/15 20:28	1

TestAmerica Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-308391/8
Matrix: Solid
Analysis Batch: 308391

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			10/15/15 20:28	1
Styrene	<0.39		1.0	0.39	ug/Kg			10/15/15 20:28	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			10/15/15 20:28	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			10/15/15 20:28	1
Toluene	<0.15		0.25	0.15	ug/Kg			10/15/15 20:28	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			10/15/15 20:28	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			10/15/15 20:28	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			10/15/15 20:28	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			10/15/15 20:28	1
Vinyl chloride	<0.26		0.50	0.26	ug/Kg			10/15/15 20:28	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			10/15/15 20:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		75 - 125		10/15/15 20:28	1
4-Bromofluorobenzene (Surr)	104		75 - 120		10/15/15 20:28	1
Dibromofluoromethane	93		75 - 120		10/15/15 20:28	1
Toluene-d8 (Surr)	103		75 - 120		10/15/15 20:28	1

Lab Sample ID: LCS 500-308391/6
Matrix: Solid
Analysis Batch: 308391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	46.0		ug/Kg		92	70 - 124
1,1,1-Trichloroethane	50.0	47.0		ug/Kg		94	70 - 125
1,1,1,2-Tetrachloroethane	50.0	43.8		ug/Kg		88	68 - 133
1,1,2-Trichloroethane	50.0	45.6		ug/Kg		91	70 - 125
1,1-Dichloroethane	50.0	48.4		ug/Kg		97	70 - 127
1,1-Dichloroethene	50.0	41.5		ug/Kg		83	68 - 121
1,1-Dichloropropene	50.0	46.6		ug/Kg		93	70 - 126
1,2,3-Trichlorobenzene	50.0	44.2		ug/Kg		88	70 - 133
1,2,3-Trichloropropane	50.0	44.0		ug/Kg		88	53 - 139
1,2,4-Trichlorobenzene	50.0	43.5		ug/Kg		87	70 - 125
1,2,4-Trimethylbenzene	50.0	47.0		ug/Kg		94	70 - 127
1,2-Dibromo-3-Chloropropane	50.0	43.0		ug/Kg		86	59 - 139
1,2-Dibromoethane	50.0	45.9		ug/Kg		92	70 - 124
1,2-Dichlorobenzene	50.0	45.1		ug/Kg		90	70 - 123
1,2-Dichloroethane	50.0	55.5		ug/Kg		111	66 - 132
1,2-Dichloropropane	50.0	47.8		ug/Kg		96	70 - 127
1,3,5-Trimethylbenzene	50.0	47.8		ug/Kg		96	70 - 129
1,3-Dichlorobenzene	50.0	43.4		ug/Kg		87	70 - 122
1,3-Dichloropropane	50.0	46.9		ug/Kg		94	70 - 127
1,4-Dichlorobenzene	50.0	43.1		ug/Kg		86	70 - 120
2,2-Dichloropropane	50.0	45.1		ug/Kg		90	68 - 120
2-Chlorotoluene	50.0	44.6		ug/Kg		89	70 - 128
4-Chlorotoluene	50.0	45.2		ug/Kg		90	70 - 127
Benzene	50.0	46.9		ug/Kg		94	70 - 120
Bromobenzene	50.0	44.0		ug/Kg		88	70 - 129

TestAmerica Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-308391/6
Matrix: Solid
Analysis Batch: 308391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	50.0	44.2		ug/Kg		88	70 - 121
Bromodichloromethane	50.0	47.3		ug/Kg		95	70 - 127
Bromoform	50.0	41.1		ug/Kg		82	70 - 135
Bromomethane	50.0	48.7		ug/Kg		97	30 - 170
Carbon tetrachloride	50.0	46.5		ug/Kg		93	70 - 136
Chlorobenzene	50.0	43.7		ug/Kg		87	70 - 120
Chloroethane	50.0	45.0		ug/Kg		90	40 - 150
Chloroform	50.0	47.7		ug/Kg		95	70 - 120
Chloromethane	50.0	46.6		ug/Kg		93	45 - 140
cis-1,2-Dichloroethene	50.0	43.1		ug/Kg		86	70 - 120
cis-1,3-Dichloropropene	50.0	46.4		ug/Kg		93	70 - 122
Dibromochloromethane	50.0	45.3		ug/Kg		91	70 - 120
Dibromomethane	50.0	43.8		ug/Kg		88	70 - 120
Dichlorodifluoromethane	50.0	51.4		ug/Kg		103	30 - 150
Ethylbenzene	50.0	44.3		ug/Kg		89	70 - 125
Hexachlorobutadiene	50.0	44.5		ug/Kg		89	70 - 138
Isopropylbenzene	50.0	46.2		ug/Kg		92	70 - 132
Methyl tert-butyl ether	50.0	48.2		ug/Kg		96	65 - 120
Methylene Chloride	50.0	43.8		ug/Kg		88	70 - 120
Naphthalene	50.0	42.7		ug/Kg		85	59 - 143
n-Butylbenzene	50.0	45.4		ug/Kg		91	70 - 129
N-Propylbenzene	50.0	44.3		ug/Kg		89	70 - 132
p-Isopropyltoluene	50.0	46.0		ug/Kg		92	70 - 133
sec-Butylbenzene	50.0	46.4		ug/Kg		93	70 - 134
Styrene	50.0	47.4		ug/Kg		95	70 - 120
tert-Butylbenzene	50.0	45.0		ug/Kg		90	70 - 137
Tetrachloroethene	50.0	43.7		ug/Kg		87	70 - 129
Toluene	50.0	46.6		ug/Kg		93	70 - 120
trans-1,2-Dichloroethene	50.0	42.7		ug/Kg		85	70 - 120
trans-1,3-Dichloropropene	50.0	48.0		ug/Kg		96	70 - 123
Trichloroethene	50.0	43.6		ug/Kg		87	70 - 122
Trichlorofluoromethane	50.0	43.9		ug/Kg		88	65 - 134
Vinyl chloride	50.0	47.6		ug/Kg		95	63 - 127
Xylenes, Total	100	92.5		ug/Kg		93	70 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	113		75 - 125
4-Bromofluorobenzene (Surr)	104		75 - 120
Dibromofluoromethane	96		75 - 120
Toluene-d8 (Surr)	102		75 - 120

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-307760/1-A
Matrix: Solid
Analysis Batch: 308018

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 307760

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.1		33	8.1	ug/Kg		10/12/15 07:32	10/13/15 20:59	1
2-Methylnaphthalene	<6.1		33	6.1	ug/Kg		10/12/15 07:32	10/13/15 20:59	1
Acenaphthene	<6.0		33	6.0	ug/Kg		10/12/15 07:32	10/13/15 20:59	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		10/12/15 07:32	10/13/15 20:59	1
Anthracene	<5.6		33	5.6	ug/Kg		10/12/15 07:32	10/13/15 20:59	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		10/12/15 07:32	10/13/15 20:59	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		10/12/15 07:32	10/13/15 20:59	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		10/12/15 07:32	10/13/15 20:59	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		10/12/15 07:32	10/13/15 20:59	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		10/12/15 07:32	10/13/15 20:59	1
Chrysene	<9.1		33	9.1	ug/Kg		10/12/15 07:32	10/13/15 20:59	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		10/12/15 07:32	10/13/15 20:59	1
Fluoranthene	<6.2		33	6.2	ug/Kg		10/12/15 07:32	10/13/15 20:59	1
Fluorene	<4.7		33	4.7	ug/Kg		10/12/15 07:32	10/13/15 20:59	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		10/12/15 07:32	10/13/15 20:59	1
Naphthalene	<5.1		33	5.1	ug/Kg		10/12/15 07:32	10/13/15 20:59	1
Phenanthrene	<4.6		33	4.6	ug/Kg		10/12/15 07:32	10/13/15 20:59	1
Pyrene	<6.6		33	6.6	ug/Kg		10/12/15 07:32	10/13/15 20:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		25 - 119	10/12/15 07:32	10/13/15 20:59	1
Nitrobenzene-d5 (Surr)	91		25 - 115	10/12/15 07:32	10/13/15 20:59	1
Terphenyl-d14 (Surr)	119		36 - 134	10/12/15 07:32	10/13/15 20:59	1

Lab Sample ID: LCS 500-307760/2-A
Matrix: Solid
Analysis Batch: 308018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 307760

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	1330	1260		ug/Kg		95	50 - 110
2-Methylnaphthalene	1330	1210		ug/Kg		91	48 - 110
Acenaphthene	1330	1150		ug/Kg		86	46 - 110
Acenaphthylene	1330	1180		ug/Kg		88	49 - 110
Anthracene	1330	1160		ug/Kg		87	48 - 118
Benzo[a]anthracene	1330	1270		ug/Kg		96	49 - 121
Benzo[a]pyrene	1330	1340		ug/Kg		100	53 - 122
Benzo[b]fluoranthene	1330	1250		ug/Kg		94	54 - 122
Benzo[g,h,i]perylene	1330	1340		ug/Kg		101	52 - 125
Benzo[k]fluoranthene	1330	1320		ug/Kg		99	44 - 137
Chrysene	1330	1260		ug/Kg		95	45 - 118
Dibenz(a,h)anthracene	1330	1470		ug/Kg		110	48 - 134
Fluoranthene	1330	1200		ug/Kg		90	48 - 128
Fluorene	1330	1190		ug/Kg		89	47 - 121
Indeno[1,2,3-cd]pyrene	1330	1410		ug/Kg		106	49 - 132
Naphthalene	1330	1160		ug/Kg		87	48 - 110
Phenanthrene	1330	1170		ug/Kg		88	48 - 121
Pyrene	1330	1230		ug/Kg		92	46 - 114

TestAmerica Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-307760/2-A
Matrix: Solid
Analysis Batch: 308018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 307760

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	90		25 - 119
Nitrobenzene-d5 (Surr)	90		25 - 115
Terphenyl-d14 (Surr)	104		36 - 134

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-307660/1-A
Matrix: Solid
Analysis Batch: 307792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 307660

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.69		1.7	0.69	ug/Kg		10/09/15 15:30	10/12/15 12:25	1
alpha-BHC	<0.42		1.7	0.42	ug/Kg		10/09/15 15:30	10/12/15 12:25	1
alpha-Chlordane	<0.85		1.7	0.85	ug/Kg		10/09/15 15:30	10/12/15 12:25	1
beta-BHC	<0.52		1.7	0.52	ug/Kg		10/09/15 15:30	10/12/15 12:25	1
4,4'-DDD	<0.33		1.7	0.33	ug/Kg		10/09/15 15:30	10/12/15 12:25	1
4,4'-DDE	<0.28		1.7	0.28	ug/Kg		10/09/15 15:30	10/12/15 12:25	1
4,4'-DDT	<0.88		1.7	0.88	ug/Kg		10/09/15 15:30	10/12/15 12:25	1
delta-BHC	<0.53		1.7	0.53	ug/Kg		10/09/15 15:30	10/12/15 12:25	1
Dieldrin	<0.23		1.7	0.23	ug/Kg		10/09/15 15:30	10/12/15 12:25	1
Endosulfan I	<0.73		1.7	0.73	ug/Kg		10/09/15 15:30	10/12/15 12:25	1
Endosulfan II	<0.27		1.7	0.27	ug/Kg		10/09/15 15:30	10/12/15 12:25	1
Endosulfan sulfate	<0.31		1.7	0.31	ug/Kg		10/09/15 15:30	10/12/15 12:25	1
Endrin	<0.23		1.7	0.23	ug/Kg		10/09/15 15:30	10/12/15 12:25	1
Endrin aldehyde	<0.28		1.7	0.28	ug/Kg		10/09/15 15:30	10/12/15 12:25	1
Endrin ketone	<0.38		1.7	0.38	ug/Kg		10/09/15 15:30	10/12/15 12:25	1
gamma-BHC (Lindane)	<0.36		1.7	0.36	ug/Kg		10/09/15 15:30	10/12/15 12:25	1
gamma-Chlordane	<0.44		1.7	0.44	ug/Kg		10/09/15 15:30	10/12/15 12:25	1
Heptachlor	<0.70		1.7	0.70	ug/Kg		10/09/15 15:30	10/12/15 12:25	1
Heptachlor epoxide	<0.59		1.7	0.59	ug/Kg		10/09/15 15:30	10/12/15 12:25	1
Methoxychlor	<0.32		8.3	0.32	ug/Kg		10/09/15 15:30	10/12/15 12:25	1
Toxaphene	<7.0		17	7.0	ug/Kg		10/09/15 15:30	10/12/15 12:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	88		56 - 128	10/09/15 15:30	10/12/15 12:25	1
Tetrachloro-m-xylene	79		45 - 112	10/09/15 15:30	10/12/15 12:25	1

Lab Sample ID: LCS 500-307660/2-A
Matrix: Solid
Analysis Batch: 307792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 307660

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	13.3	11.9		ug/Kg		89	54 - 110
alpha-BHC	13.3	12.0		ug/Kg		90	53 - 110
alpha-Chlordane	13.3	12.3		ug/Kg		92	61 - 110
beta-BHC	13.3	12.2		ug/Kg		91	65 - 110
4,4'-DDD	13.3	12.0		ug/Kg		90	66 - 110

TestAmerica Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-307660/2-A
Matrix: Solid
Analysis Batch: 307792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 307660

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDE	13.3	11.9		ug/Kg		89	64 - 110
4,4'-DDT	13.3	11.5		ug/Kg		86	50 - 115
delta-BHC	13.3	12.4		ug/Kg		93	50 - 110
Dieldrin	13.3	11.7		ug/Kg		88	63 - 110
Endosulfan I	13.3	10.6		ug/Kg		79	51 - 110
Endosulfan II	13.3	10.9		ug/Kg		82	56 - 110
Endosulfan sulfate	13.3	13.3		ug/Kg		100	63 - 120
Endrin	13.3	12.1		ug/Kg		91	59 - 110
Endrin aldehyde	13.3	11.5		ug/Kg		86	56 - 110
Endrin ketone	13.3	11.3		ug/Kg		85	59 - 120
gamma-BHC (Lindane)	13.3	11.8		ug/Kg		89	55 - 110
gamma-Chlordane	13.3	12.8		ug/Kg		96	62 - 110
Heptachlor	13.3	11.4		ug/Kg		85	50 - 110
Heptachlor epoxide	13.3	11.7		ug/Kg		88	50 - 122
Methoxychlor	13.3	11.4		ug/Kg		86	52 - 119

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	90		56 - 128
Tetrachloro-m-xylene	80		45 - 112

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-307660/1-A
Matrix: Solid
Analysis Batch: 307788

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 307660

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		10/09/15 15:30	10/12/15 10:36	1
PCB-1221	<7.3		17	7.3	ug/Kg		10/09/15 15:30	10/12/15 10:36	1
PCB-1232	<7.3		17	7.3	ug/Kg		10/09/15 15:30	10/12/15 10:36	1
PCB-1242	<5.5		17	5.5	ug/Kg		10/09/15 15:30	10/12/15 10:36	1
PCB-1248	<6.6		17	6.6	ug/Kg		10/09/15 15:30	10/12/15 10:36	1
PCB-1254	<3.6		17	3.6	ug/Kg		10/09/15 15:30	10/12/15 10:36	1
PCB-1260	<8.2		17	8.2	ug/Kg		10/09/15 15:30	10/12/15 10:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70		50 - 116	10/09/15 15:30	10/12/15 10:36	1
DCB Decachlorobiphenyl	78		48 - 142	10/09/15 15:30	10/12/15 10:36	1

Lab Sample ID: LCS 500-307660/3-A
Matrix: Solid
Analysis Batch: 307788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 307660

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	135		ug/Kg		81	59 - 110
PCB-1260	167	138		ug/Kg		83	69 - 120

TestAmerica Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 500-307660/3-A
Matrix: Solid
Analysis Batch: 307788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 307660

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	73		50 - 116
DCB Decachlorobiphenyl	79		48 - 142

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-307805/1-A
Matrix: Solid
Analysis Batch: 307924

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 307805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.25		0.50	0.25	mg/Kg		10/12/15 11:30	10/12/15 19:12	1

Lab Sample ID: LCS 500-307805/2-A
Matrix: Solid
Analysis Batch: 307924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 307805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	10.0	9.86		mg/Kg		99	80 - 120

Lab Sample ID: 500-102380-3 MS
Matrix: Solid
Analysis Batch: 307924

Client Sample ID: S1502
Prep Type: Total/NA
Prep Batch: 307805

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	94	F2	10.3	122	4	mg/Kg	☼	274	75 - 125

Lab Sample ID: 500-102380-3 MSD
Matrix: Solid
Analysis Batch: 307924

Client Sample ID: S1502
Prep Type: Total/NA
Prep Batch: 307805

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	94	F2	9.94	91.3	4 F2	mg/Kg	☼	-28	75 - 125	29	20

Lab Sample ID: 500-102380-3 DU
Matrix: Solid
Analysis Batch: 307924

Client Sample ID: S1502
Prep Type: Total/NA
Prep Batch: 307805

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	94	F2	99.0		mg/Kg	☼	5	20

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

Client Sample ID: S1301
Date Collected: 10/07/15 09:39
Date Received: 10/09/15 11:21

Lab Sample ID: 500-102380-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	307653	10/09/15 14:55	LWN	TAL CHI

Client Sample ID: S1301
Date Collected: 10/07/15 09:39
Date Received: 10/09/15 11:21

Lab Sample ID: 500-102380-1
Matrix: Solid
Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			307660	10/09/15 15:30	JP1	TAL CHI
Total/NA	Analysis	8081A		1	307792	10/12/15 16:52	PJG	TAL CHI
Total/NA	Prep	3541			307660	10/09/15 15:30	JP1	TAL CHI
Total/NA	Analysis	8082A		1	307788	10/12/15 13:43	RLL	TAL CHI

Client Sample ID: S1401
Date Collected: 10/07/15 09:52
Date Received: 10/09/15 11:21

Lab Sample ID: 500-102380-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	307653	10/09/15 14:55	LWN	TAL CHI

Client Sample ID: S1401
Date Collected: 10/07/15 09:52
Date Received: 10/09/15 11:21

Lab Sample ID: 500-102380-2
Matrix: Solid
Percent Solids: 96.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			307660	10/09/15 15:30	JP1	TAL CHI
Total/NA	Analysis	8081A		1	307792	10/12/15 17:12	PJG	TAL CHI
Total/NA	Prep	3541			307660	10/09/15 15:30	JP1	TAL CHI
Total/NA	Analysis	8082A		1	307788	10/12/15 13:58	RLL	TAL CHI

Client Sample ID: S1502
Date Collected: 10/07/15 10:15
Date Received: 10/09/15 11:21

Lab Sample ID: 500-102380-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	307653	10/09/15 14:55	LWN	TAL CHI

Client Sample ID: S1502
Date Collected: 10/07/15 10:15
Date Received: 10/09/15 11:21

Lab Sample ID: 500-102380-3
Matrix: Solid
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			307672	10/07/15 10:15	WRE	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

Client Sample ID: S1502

Date Collected: 10/07/15 10:15

Date Received: 10/09/15 11:21

Lab Sample ID: 500-102380-3

Matrix: Solid

Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	308391	10/16/15 00:42	EMA	TAL CHI
Total/NA	Prep	3541			307760	10/12/15 07:32	STW	TAL CHI
Total/NA	Analysis	8270D		5	308511	10/16/15 15:42	AJD	TAL CHI
Total/NA	Prep	3050B			307805	10/12/15 11:30	JML	TAL CHI
Total/NA	Analysis	6010B		1	307924	10/12/15 19:20	PJ1	TAL CHI

Client Sample ID: S1602

Date Collected: 10/07/15 11:40

Date Received: 10/09/15 11:21

Lab Sample ID: 500-102380-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	307653	10/09/15 14:55	LWN	TAL CHI

Client Sample ID: S1602

Date Collected: 10/07/15 11:40

Date Received: 10/09/15 11:21

Lab Sample ID: 500-102380-4

Matrix: Solid

Percent Solids: 97.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			307660	10/09/15 15:30	JP1	TAL CHI
Total/NA	Analysis	8081A		10	307792	10/12/15 17:33	PJG	TAL CHI
Total/NA	Prep	3541			307660	10/09/15 15:30	JP1	TAL CHI
Total/NA	Analysis	8082A		1	307788	10/12/15 14:14	RLL	TAL CHI

Client Sample ID: S1702

Date Collected: 10/07/15 12:47

Date Received: 10/09/15 11:21

Lab Sample ID: 500-102380-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	307653	10/09/15 14:55	LWN	TAL CHI

Client Sample ID: S1702

Date Collected: 10/07/15 12:47

Date Received: 10/09/15 11:21

Lab Sample ID: 500-102380-5

Matrix: Solid

Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			307805	10/12/15 11:30	JML	TAL CHI
Total/NA	Analysis	6010B		1	307924	10/12/15 19:51	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

Client Sample ID: S1703

Date Collected: 10/07/15 12:51

Date Received: 10/09/15 11:21

Lab Sample ID: 500-102380-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	307653	10/09/15 14:55	LWN	TAL CHI

Client Sample ID: S1703

Date Collected: 10/07/15 12:51

Date Received: 10/09/15 11:21

Lab Sample ID: 500-102380-6

Matrix: Solid

Percent Solids: 76.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			307805	10/12/15 11:30	JML	TAL CHI
Total/NA	Analysis	6010B		1	307924	10/12/15 19:55	PJ1	TAL CHI

Client Sample ID: S1803

Date Collected: 10/07/15 14:15

Date Received: 10/09/15 11:21

Lab Sample ID: 500-102380-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	307653	10/09/15 14:55	LWN	TAL CHI

Client Sample ID: S1803

Date Collected: 10/07/15 14:15

Date Received: 10/09/15 11:21

Lab Sample ID: 500-102380-7

Matrix: Solid

Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			307660	10/09/15 15:30	JP1	TAL CHI
Total/NA	Analysis	8082A		1	307788	10/12/15 16:34	RLL	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-16

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: Jeff Brand
Company: Stantec
Address: 1165 Schewing Rd
Address: DePere WI 54115
Phone: 920-592-8400
Fax: 920-592-8444
E-Mail: Jeff.brand@stantec.com

Bill To (optional)
Contact: SAME
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: 500-102380 COC
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-102380

Chain of Custody Number: _____

Page 1 of 1

Temperature °C of Cooler: 1.5



Client		Client Project #		Preservative								Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Parameter		TEL Pesticides	PCB	VOC	PAH	Lead	Comments		
Project Location/State		Lab Project #											
Sampler		Lab PM											
Lab ID	MS/MSD	Sample ID		Sampling		# of Containers	Matrix						
		Date	Time										
1		10-7-15	939	2	S	X	X						
2			952	2	S	X	X						
3			1015	4	S			X	X	X			
4			1140	2	S	X	X						
5			1247	2	S					X		* Hold for Possible TELP Lead	
6			1251	2	S					X		* Hold for Possible TELP Lead	
7			1415	2	S		X						

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>Jeff Brand</u>	Company: <u>Stantec</u>	Date: <u>10-8-15</u>	Time: <u>1430</u>	Received By: <u>Jeff Jones</u>	Company: <u>TA</u>	Date: <u>10/9/15</u>	Time: <u>0935</u>	Lab Courier: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Shipped: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Hand Delivered: _____

Matrix Key

- WW - Wastewater
- W - Water
- S - Soil
- SL - Sludge
- MS - Miscellaneous
- OL - Oil
- A - Air
- SE - Sediment
- SO - Soil
- L - Leachate
- WI - Wipe
- DW - Drinking Water
- O - Other

Client Comments

* Extra jars for samples 51702 & 51703
Please hold for possible TELP Lead
Will notify when lead sample analysis done.

Lab Comments:

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 500-102380-1

Login Number: 102380

List Source: TestAmerica Chicago

List Number: 1

Creator: James, Jeff A

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-102380-2

Client Project/Site: MCABI - Tyco Redevelop - 193703365

For:

Stantec Consulting Corp.
1165 Scheuring Road
De Pere, Wisconsin 54115

Attn: Mr. Jeff Brand



Authorized for release by:
10/22/2015 11:04:32 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	5
Sample Summary	6
Client Sample Results	7
Definitions	8
QC Association	9
QC Sample Results	10
Chronicle	11
Certification Summary	12
Chain of Custody	13
Receipt Checklists	15

Case Narrative

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-2

Job ID: 500-102380-2

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-102380-2**

Comments

TCLP analysis added at the request of the client.

Receipt

The samples were received on 10/9/2015 11:21 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.5° C.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-2

Client Sample ID: S1702

Lab Sample ID: 500-102380-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.081		0.050	0.0075	mg/L	1		6010B	TCLP

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-102380-5	S1702	Solid	10/07/15 12:47	10/09/15 11:21

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-2

Client Sample ID: S1702

Date Collected: 10/07/15 12:47

Date Received: 10/09/15 11:21

Lab Sample ID: 500-102380-5

Matrix: Solid

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.081		0.050	0.0075	mg/L		10/21/15 11:00	10/21/15 17:18	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-2

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-2

Metals

Leach Batch: 308952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-102380-5	S1702	TCLP	Solid	1311	
500-102380-5 DU	S1702	TCLP	Solid	1311	
500-102380-5 MS	S1702	TCLP	Solid	1311	
LB 500-308952/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 309081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-102380-5	S1702	TCLP	Solid	3010A	308952
500-102380-5 DU	S1702	TCLP	Solid	3010A	308952
500-102380-5 MS	S1702	TCLP	Solid	3010A	308952
LB 500-308952/1-B	Method Blank	TCLP	Solid	3010A	308952
LCS 500-309081/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 309207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-102380-5	S1702	TCLP	Solid	6010B	309081
500-102380-5 DU	S1702	TCLP	Solid	6010B	309081
500-102380-5 MS	S1702	TCLP	Solid	6010B	309081
LB 500-308952/1-B	Method Blank	TCLP	Solid	6010B	309081
LCS 500-309081/2-A	Lab Control Sample	Total/NA	Solid	6010B	309081

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-2

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-309081/2-A
Matrix: Solid
Analysis Batch: 309207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 309081

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	0.100	0.104		mg/L		104	80 - 120

Lab Sample ID: LB 500-308952/1-B
Matrix: Solid
Analysis Batch: 309207

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 309081

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.050	0.0075	mg/L		10/21/15 11:00	10/21/15 17:04	1

Lab Sample ID: 500-102380-5 MS
Matrix: Solid
Analysis Batch: 309207

Client Sample ID: S1702
Prep Type: TCLP
Prep Batch: 309081

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Lead	0.081		0.100	0.163		mg/L		82	50 - 150

Lab Sample ID: 500-102380-5 DU
Matrix: Solid
Analysis Batch: 309207

Client Sample ID: S1702
Prep Type: TCLP
Prep Batch: 309081

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Lead	0.081		0.0851		mg/L		5	20

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-2

Client Sample ID: S1702

Date Collected: 10/07/15 12:47

Date Received: 10/09/15 11:21

Lab Sample ID: 500-102380-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			308952	10/20/15 16:00	BAT	TAL CHI
TCLP	Prep	3010A			309081	10/21/15 11:00	JML	TAL CHI
TCLP	Analysis	6010B		1	309207	10/21/15 17:18	KML	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Certification Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102380-2

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-16

Analysis Method	Prep Method	Matrix	Analyte
-----------------	-------------	--------	---------

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: Jeff Brand
Company: Stantec
Address: 1165 Schewing Rd
Address: DePere WI 54115
Phone: 920-592-8400
Fax: 920-592-8444
E-Mail: Jeff.brand@stantec.com

Bill To (optional)
Contact: SAME
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: 500-102380 COC
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-102380
Chain of Custody Number: _____
Page 1 of 1
Temperature °C of Cooler: 1.5

Client		Client Project #		Preservative								Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #		Parameter		TEL Pesticides	PCB	VOC	PAH	Lead	Comments	
Project Location/State		Lab Project #										
Sampler		Lab PM										
Lab ID	MS/MSD	Sampling		# of Containers	Matrix							
Sample ID		Date	Time									
1		S1301	10-7-15	939	2	S	X	X				
2		S1401	↓	952	2	S	X	X				
3		S1502		1015	4	S			X	X	X	
4		S1602		1140	2	S	X	X				
5		S1702		1247	2	S					X	* Hold for Possible TELP Lead
6		S1703		1251	2	S					X	* Hold for Possible TELP Lead
7		S1803		1415	2	S					X	

Turnaround Time Required (Business Days)

Requested Due Date: 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>Jeff Brand</u>	Company: <u>Stantec</u>	Date: <u>10-8-15</u>	Time: <u>1430</u>	Received By: <u>Jeff Jones</u>	Company: <u>TA</u>	Date: <u>10/9/15</u>	Time: <u>0935</u>	Lab Courier: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Shipped: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Hand Delivered: _____

Matrix Key

WW - Wastewater SE - Sediment
W - Water SO - Soil
S - Soil L - Leachate
SL - Sludge WL - Wipe
MS - Miscellaneous DW - Drinking Water
OL - Oil O - Other
A - Air

Client Comments

* Extra jars for samples S1702 & S1703
Please hold for possible TELP Lead
Will notify when lead sample analysis done.

Lab Comments:

1
2
3
4
5
6
7
8
9
10
11
12
13
14**Fredrick, Sandie**

From: Brand, Jeff [Jeff.Brand@stantec.com]
Sent: Tuesday, October 20, 2015 11:26 AM
To: Fredrick, Sandie
Cc: Caine, Lynelle
Subject: RE: TestAmerica report and EDD files from 500-102380-1 MCABI - Tyco Redevelop - 193703365
 Sandie,

Seeing that we have lead showing up above 100 mg/kg in samples from boring B1700, would you please run TCLP Lead on the hold sample for S1702. Thanks.

Jeffrey R Brand

Engineer in Training
 Stantec
 1165 Scheuring Road De Pere WI 54115-1001
 Phone: (920) 278-3208
 Cell: (920) 883-8501
 Fax: (920) 592-8444
 Jeff.Brand@Stantec.com



The content of this email is the confidential property of Stantec and should not be copied, modified, retransmitted, or used for any purpose except with Stantec's written authorization. If you are not the intended recipient, please delete all copies and notify us immediately.

Please consider the environment before printing this email.

From: Fredrick, Sandie [mailto:sandie.fredrick@testamericainc.com]
Sent: Tuesday, October 20, 2015 8:32 AM
To: Brand, Jeff
Subject: TestAmerica report and EDD files from 500-102380-1 MCABI - Tyco Redevelop - 193703365

Hello Jeff,

Have a great week!

Attached please find the report and EDD files for job 500-102380-1; MCABI - Tyco Redevelop - 193703365

Please feel free to contact me if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: [Project Feedback](#)

SANDIE J FREDRICK
 Project Manager II

TestAmerica Chicago
 THE LEADER IN ENVIRONMENTAL TESTING

Tel: 920.261.1660
www.testamericainc.com

Reference: [252920]
 Attachments: 2

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 500-102380-2

Login Number: 102380

List Source: TestAmerica Chicago

List Number: 1

Creator: James, Jeff A

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



SITE INVESTIGATION REPORT

1310-1330 Main Street

MCABI-Tyco Redevelopment Site, Marinette, WI

Appendix E

Groundwater Analytical Reports and Chain-of-Custody Forms

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-102685-1
Client Project/Site: MCABI - Tyco Redevelop - 193703365

For:
Stantec Consulting Corp.
1165 Scheuring Road
De Pere, Wisconsin 54115

Attn: Mr. Jeff Brand



Authorized for release by:
10/26/2015 9:53:56 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	6
Sample Summary	7
Client Sample Results	8
Definitions	16
QC Association	17
Surrogate Summary	19
QC Sample Results	20
Chronicle	29
Certification Summary	31
Chain of Custody	32
Receipt Checklists	33

Case Narrative

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Job ID: 500-102685-1

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-102685-1**

Comments

No additional comments.

Receipt

The samples were received on 10/16/2015 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Field Service / Mobile Lab

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Client Sample ID: MW1500

Lab Sample ID: 500-102685-1

No Detections.

Client Sample ID: MW1600

Lab Sample ID: 500-102685-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.090	J	0.16	0.044	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.11	J	0.16	0.063	ug/L	1		8270D	Total/NA
Chrysene	0.060	J	0.39	0.053	ug/L	1		8270D	Total/NA

Client Sample ID: MW1700

Lab Sample ID: 500-102685-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.0		1.0	0.44	ug/L	1		6020	Dissolved
Lead	0.15	J	0.50	0.14	ug/L	1		6020	Dissolved

Client Sample ID: MW1800

Lab Sample ID: 500-102685-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.52		0.15	0.043	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	0.52		0.15	0.075	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.69		0.15	0.061	ug/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.27		0.15	0.049	ug/L	1		8270D	Total/NA
Chrysene	0.50		0.38	0.052	ug/L	1		8270D	Total/NA
Dibenz(a,h)anthracene	0.068	J	0.23	0.039	ug/L	1		8270D	Total/NA
Fluoranthene	0.69	J	0.76	0.35	ug/L	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.31		0.15	0.057	ug/L	1		8270D	Total/NA
Phenanthrene	0.24	J	0.76	0.23	ug/L	1		8270D	Total/NA
Pyrene	0.75	J	0.76	0.32	ug/L	1		8270D	Total/NA
Arsenic	24		1.0	0.44	ug/L	1		6020	Dissolved

Client Sample ID: MW1900

Lab Sample ID: 500-102685-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.0		1.0	0.44	ug/L	1		6020	Dissolved

Client Sample ID: MW2000

Lab Sample ID: 500-102685-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.32		0.16	0.044	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	0.27		0.16	0.077	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.37		0.16	0.063	ug/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.15	J	0.16	0.050	ug/L	1		8270D	Total/NA
Chrysene	0.32	J	0.39	0.053	ug/L	1		8270D	Total/NA
Fluoranthene	0.72	J	0.78	0.35	ug/L	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.15	J	0.16	0.058	ug/L	1		8270D	Total/NA
Phenanthrene	0.60	J	0.78	0.23	ug/L	1		8270D	Total/NA
Pyrene	0.63	J	0.78	0.33	ug/L	1		8270D	Total/NA

Client Sample ID: DUP

Lab Sample ID: 500-102685-7

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Client Sample ID: Trip

Lab Sample ID: 500-102685-8

No Detections.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6020	Metals (ICP/MS)	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-102685-1	MW1500	Water	10/14/15 12:23	10/16/15 09:50
500-102685-2	MW1600	Water	10/14/15 12:20	10/16/15 09:50
500-102685-3	MW1700	Water	10/14/15 12:45	10/16/15 09:50
500-102685-4	MW1800	Water	10/14/15 13:07	10/16/15 09:50
500-102685-5	MW1900	Water	10/14/15 13:23	10/16/15 09:50
500-102685-6	MW2000	Water	10/14/15 12:40	10/16/15 09:50
500-102685-7	DUP	Water	10/14/15 00:00	10/16/15 09:50
500-102685-8	Trip	Water	10/14/15 00:00	10/16/15 09:50



Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Client Sample ID: MW1500

Lab Sample ID: 500-102685-1

Date Collected: 10/14/15 12:23

Matrix: Water

Date Received: 10/16/15 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/22/15 18:23	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 18:23	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/22/15 18:23	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/22/15 18:23	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/22/15 18:23	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/22/15 18:23	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/22/15 18:23	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 18:23	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			10/22/15 18:23	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/22/15 18:23	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/22/15 18:23	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/22/15 18:23	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/22/15 18:23	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/22/15 18:23	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/22/15 18:23	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/22/15 18:23	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/22/15 18:23	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/22/15 18:23	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/22/15 18:23	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/22/15 18:23	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/22/15 18:23	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/22/15 18:23	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/22/15 18:23	1
Benzene	<0.15		0.50	0.15	ug/L			10/22/15 18:23	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/22/15 18:23	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/22/15 18:23	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/22/15 18:23	1
Bromoform	<0.48		1.0	0.48	ug/L			10/22/15 18:23	1
Bromomethane	<0.80		2.0	0.80	ug/L			10/22/15 18:23	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/22/15 18:23	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/22/15 18:23	1
Chloroethane	<0.47		1.0	0.47	ug/L			10/22/15 18:23	1
Chloroform	<0.37		1.0	0.37	ug/L			10/22/15 18:23	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/22/15 18:23	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/22/15 18:23	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 18:23	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/22/15 18:23	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/22/15 18:23	1
Dichlorodifluoromethane	<0.54		2.0	0.54	ug/L			10/22/15 18:23	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/22/15 18:23	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/22/15 18:23	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/22/15 18:23	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/22/15 18:23	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/22/15 18:23	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/22/15 18:23	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/22/15 18:23	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/22/15 18:23	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/22/15 18:23	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/22/15 18:23	1

TestAmerica Chicago

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Client Sample ID: MW1500

Date Collected: 10/14/15 12:23

Date Received: 10/16/15 09:50

Lab Sample ID: 500-102685-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/22/15 18:23	1
Styrene	<0.39		1.0	0.39	ug/L			10/22/15 18:23	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/22/15 18:23	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/22/15 18:23	1
Toluene	<0.15		0.50	0.15	ug/L			10/22/15 18:23	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/22/15 18:23	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/22/15 18:23	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/22/15 18:23	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/22/15 18:23	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			10/22/15 18:23	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/22/15 18:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 125					10/22/15 18:23	1
4-Bromofluorobenzene (Surr)	86		75 - 120					10/22/15 18:23	1
Dibromofluoromethane	103		75 - 120					10/22/15 18:23	1
Toluene-d8 (Surr)	96		75 - 120					10/22/15 18:23	1

Client Sample ID: MW1600

Date Collected: 10/14/15 12:20

Date Received: 10/16/15 09:50

Lab Sample ID: 500-102685-2

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.23		0.78	0.23	ug/L		10/21/15 09:05	10/21/15 18:55	1
2-Methylnaphthalene	<0.050		0.39	0.050	ug/L		10/21/15 09:05	10/21/15 18:55	1
Acenaphthene	<0.24		0.78	0.24	ug/L		10/21/15 09:05	10/21/15 18:55	1
Acenaphthylene	<0.21		0.78	0.21	ug/L		10/21/15 09:05	10/21/15 18:55	1
Anthracene	<0.26		0.78	0.26	ug/L		10/21/15 09:05	10/21/15 18:55	1
Benzo[a]anthracene	0.090	J	0.16	0.044	ug/L		10/21/15 09:05	10/21/15 18:55	1
Benzo[a]pyrene	<0.077		0.16	0.077	ug/L		10/21/15 09:05	10/21/15 18:55	1
Benzo[b]fluoranthene	0.11	J	0.16	0.063	ug/L		10/21/15 09:05	10/21/15 18:55	1
Benzo[g,h,i]perylene	<0.29		0.78	0.29	ug/L		10/21/15 09:05	10/21/15 18:55	1
Benzo[k]fluoranthene	<0.050		0.16	0.050	ug/L		10/21/15 09:05	10/21/15 18:55	1
Chrysene	0.060	J	0.39	0.053	ug/L		10/21/15 09:05	10/21/15 18:55	1
Dibenz(a,h)anthracene	<0.039		0.23	0.039	ug/L		10/21/15 09:05	10/21/15 18:55	1
Fluoranthene	<0.35		0.78	0.35	ug/L		10/21/15 09:05	10/21/15 18:55	1
Fluorene	<0.19		0.78	0.19	ug/L		10/21/15 09:05	10/21/15 18:55	1
Indeno[1,2,3-cd]pyrene	<0.058		0.16	0.058	ug/L		10/21/15 09:05	10/21/15 18:55	1
Naphthalene	<0.24		0.78	0.24	ug/L		10/21/15 09:05	10/21/15 18:55	1
Phenanthrene	<0.23		0.78	0.23	ug/L		10/21/15 09:05	10/21/15 18:55	1
Pyrene	<0.33		0.78	0.33	ug/L		10/21/15 09:05	10/21/15 18:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		41 - 132				10/21/15 09:05	10/21/15 18:55	1
Nitrobenzene-d5 (Surr)	82		47 - 134				10/21/15 09:05	10/21/15 18:55	1
Terphenyl-d14 (Surr)	111		59 - 150				10/21/15 09:05	10/21/15 18:55	1

TestAmerica Chicago

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Client Sample ID: MW1600

Date Collected: 10/14/15 12:20

Date Received: 10/16/15 09:50

Lab Sample ID: 500-102685-2

Matrix: Water

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.44		1.0	0.44	ug/L		10/19/15 18:00	10/20/15 16:17	1

Client Sample ID: MW1700

Date Collected: 10/14/15 12:45

Date Received: 10/16/15 09:50

Lab Sample ID: 500-102685-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/22/15 18:50	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 18:50	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/22/15 18:50	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/22/15 18:50	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/22/15 18:50	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/22/15 18:50	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/22/15 18:50	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 18:50	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			10/22/15 18:50	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/22/15 18:50	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/22/15 18:50	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/22/15 18:50	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/22/15 18:50	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/22/15 18:50	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/22/15 18:50	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/22/15 18:50	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/22/15 18:50	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/22/15 18:50	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/22/15 18:50	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/22/15 18:50	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/22/15 18:50	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/22/15 18:50	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/22/15 18:50	1
Benzene	<0.15		0.50	0.15	ug/L			10/22/15 18:50	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/22/15 18:50	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/22/15 18:50	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/22/15 18:50	1
Bromoform	<0.48		1.0	0.48	ug/L			10/22/15 18:50	1
Bromomethane	<0.80		2.0	0.80	ug/L			10/22/15 18:50	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/22/15 18:50	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/22/15 18:50	1
Chloroethane	<0.47		1.0	0.47	ug/L			10/22/15 18:50	1
Chloroform	<0.37		1.0	0.37	ug/L			10/22/15 18:50	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/22/15 18:50	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/22/15 18:50	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 18:50	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/22/15 18:50	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/22/15 18:50	1
Dichlorodifluoromethane	<0.54		2.0	0.54	ug/L			10/22/15 18:50	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/22/15 18:50	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/22/15 18:50	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/22/15 18:50	1

TestAmerica Chicago

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Client Sample ID: MW1700

Lab Sample ID: 500-102685-3

Date Collected: 10/14/15 12:45

Matrix: Water

Date Received: 10/16/15 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/22/15 18:50	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/22/15 18:50	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/22/15 18:50	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/22/15 18:50	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/22/15 18:50	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/22/15 18:50	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/22/15 18:50	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/22/15 18:50	1
Styrene	<0.39		1.0	0.39	ug/L			10/22/15 18:50	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/22/15 18:50	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/22/15 18:50	1
Toluene	<0.15		0.50	0.15	ug/L			10/22/15 18:50	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/22/15 18:50	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/22/15 18:50	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/22/15 18:50	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/22/15 18:50	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			10/22/15 18:50	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/22/15 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 125		10/22/15 18:50	1
4-Bromofluorobenzene (Surr)	87		75 - 120		10/22/15 18:50	1
Dibromofluoromethane	101		75 - 120		10/22/15 18:50	1
Toluene-d8 (Surr)	95		75 - 120		10/22/15 18:50	1

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.0		1.0	0.44	ug/L		10/19/15 18:00	10/20/15 16:36	1
Lead	0.15	J	0.50	0.14	ug/L		10/19/15 18:00	10/20/15 16:36	1

Client Sample ID: MW1800

Lab Sample ID: 500-102685-4

Date Collected: 10/14/15 13:07

Matrix: Water

Date Received: 10/16/15 09:50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.23		0.76	0.23	ug/L		10/21/15 09:05	10/21/15 19:25	1
2-Methylnaphthalene	<0.050		0.38	0.050	ug/L		10/21/15 09:05	10/21/15 19:25	1
Acenaphthene	<0.23		0.76	0.23	ug/L		10/21/15 09:05	10/21/15 19:25	1
Acenaphthylene	<0.20		0.76	0.20	ug/L		10/21/15 09:05	10/21/15 19:25	1
Anthracene	<0.25		0.76	0.25	ug/L		10/21/15 09:05	10/21/15 19:25	1
Benzo[a]anthracene	0.52		0.15	0.043	ug/L		10/21/15 09:05	10/21/15 19:25	1
Benzo[a]pyrene	0.52		0.15	0.075	ug/L		10/21/15 09:05	10/21/15 19:25	1
Benzo[b]fluoranthene	0.69		0.15	0.061	ug/L		10/21/15 09:05	10/21/15 19:25	1
Benzo[g,h,i]perylene	<0.29		0.76	0.29	ug/L		10/21/15 09:05	10/21/15 19:25	1
Benzo[k]fluoranthene	0.27		0.15	0.049	ug/L		10/21/15 09:05	10/21/15 19:25	1
Chrysene	0.50		0.38	0.052	ug/L		10/21/15 09:05	10/21/15 19:25	1
Dibenz(a,h)anthracene	0.068	J	0.23	0.039	ug/L		10/21/15 09:05	10/21/15 19:25	1
Fluoranthene	0.69	J	0.76	0.35	ug/L		10/21/15 09:05	10/21/15 19:25	1
Fluorene	<0.19		0.76	0.19	ug/L		10/21/15 09:05	10/21/15 19:25	1

TestAmerica Chicago

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Client Sample ID: MW1800

Date Collected: 10/14/15 13:07

Date Received: 10/16/15 09:50

Lab Sample ID: 500-102685-4

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.31		0.15	0.057	ug/L		10/21/15 09:05	10/21/15 19:25	1
Naphthalene	<0.23		0.76	0.23	ug/L		10/21/15 09:05	10/21/15 19:25	1
Phenanthrene	0.24	J	0.76	0.23	ug/L		10/21/15 09:05	10/21/15 19:25	1
Pyrene	0.75	J	0.76	0.32	ug/L		10/21/15 09:05	10/21/15 19:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		41 - 132				10/21/15 09:05	10/21/15 19:25	1
Nitrobenzene-d5 (Surr)	77		47 - 134				10/21/15 09:05	10/21/15 19:25	1
Terphenyl-d14 (Surr)	107		59 - 150				10/21/15 09:05	10/21/15 19:25	1

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	24		1.0	0.44	ug/L		10/19/15 18:00	10/20/15 16:38	1

Client Sample ID: MW1900

Date Collected: 10/14/15 13:23

Date Received: 10/16/15 09:50

Lab Sample ID: 500-102685-5

Matrix: Water

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.0		1.0	0.44	ug/L		10/19/15 18:00	10/20/15 16:41	1
Selenium	<0.83		2.5	0.83	ug/L		10/19/15 18:00	10/20/15 16:41	1

Client Sample ID: MW2000

Date Collected: 10/14/15 12:40

Date Received: 10/16/15 09:50

Lab Sample ID: 500-102685-6

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.23		0.78	0.23	ug/L		10/21/15 09:05	10/21/15 19:54	1
2-Methylnaphthalene	<0.051		0.39	0.051	ug/L		10/21/15 09:05	10/21/15 19:54	1
Acenaphthene	<0.24		0.78	0.24	ug/L		10/21/15 09:05	10/21/15 19:54	1
Acenaphthylene	<0.21		0.78	0.21	ug/L		10/21/15 09:05	10/21/15 19:54	1
Anthracene	<0.26		0.78	0.26	ug/L		10/21/15 09:05	10/21/15 19:54	1
Benzo[a]anthracene	0.32		0.16	0.044	ug/L		10/21/15 09:05	10/21/15 19:54	1
Benzo[a]pyrene	0.27		0.16	0.077	ug/L		10/21/15 09:05	10/21/15 19:54	1
Benzo[b]fluoranthene	0.37		0.16	0.063	ug/L		10/21/15 09:05	10/21/15 19:54	1
Benzo[g,h,i]perylene	<0.29		0.78	0.29	ug/L		10/21/15 09:05	10/21/15 19:54	1
Benzo[k]fluoranthene	0.15	J	0.16	0.050	ug/L		10/21/15 09:05	10/21/15 19:54	1
Chrysene	0.32	J	0.39	0.053	ug/L		10/21/15 09:05	10/21/15 19:54	1
Dibenz(a,h)anthracene	<0.039		0.23	0.039	ug/L		10/21/15 09:05	10/21/15 19:54	1
Fluoranthene	0.72	J	0.78	0.35	ug/L		10/21/15 09:05	10/21/15 19:54	1
Fluorene	<0.19		0.78	0.19	ug/L		10/21/15 09:05	10/21/15 19:54	1
Indeno[1,2,3-cd]pyrene	0.15	J	0.16	0.058	ug/L		10/21/15 09:05	10/21/15 19:54	1
Naphthalene	<0.24		0.78	0.24	ug/L		10/21/15 09:05	10/21/15 19:54	1
Phenanthrene	0.60	J	0.78	0.23	ug/L		10/21/15 09:05	10/21/15 19:54	1
Pyrene	0.63	J	0.78	0.33	ug/L		10/21/15 09:05	10/21/15 19:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		41 - 132				10/21/15 09:05	10/21/15 19:54	1
Nitrobenzene-d5 (Surr)	82		47 - 134				10/21/15 09:05	10/21/15 19:54	1

TestAmerica Chicago

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Client Sample ID: MW2000

Date Collected: 10/14/15 12:40

Date Received: 10/16/15 09:50

Lab Sample ID: 500-102685-6

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	109		59 - 150	10/21/15 09:05	10/21/15 19:54	1

Client Sample ID: DUP

Date Collected: 10/14/15 00:00

Date Received: 10/16/15 09:50

Lab Sample ID: 500-102685-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/23/15 12:49	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/23/15 12:49	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/23/15 12:49	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/23/15 12:49	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/23/15 12:49	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/23/15 12:49	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/23/15 12:49	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/23/15 12:49	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			10/23/15 12:49	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/23/15 12:49	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/23/15 12:49	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/23/15 12:49	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/23/15 12:49	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/23/15 12:49	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/23/15 12:49	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/23/15 12:49	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/23/15 12:49	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/23/15 12:49	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/23/15 12:49	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/23/15 12:49	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/23/15 12:49	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/23/15 12:49	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/23/15 12:49	1
Benzene	<0.15		0.50	0.15	ug/L			10/23/15 12:49	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/23/15 12:49	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/23/15 12:49	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/23/15 12:49	1
Bromoform	<0.48		1.0	0.48	ug/L			10/23/15 12:49	1
Bromomethane	<0.80		2.0	0.80	ug/L			10/23/15 12:49	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/23/15 12:49	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/23/15 12:49	1
Chloroethane	<0.47		1.0	0.47	ug/L			10/23/15 12:49	1
Chloroform	<0.37		1.0	0.37	ug/L			10/23/15 12:49	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/23/15 12:49	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/23/15 12:49	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/23/15 12:49	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/23/15 12:49	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/23/15 12:49	1
Dichlorodifluoromethane	<0.54		2.0	0.54	ug/L			10/23/15 12:49	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/23/15 12:49	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/23/15 12:49	1

TestAmerica Chicago

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Client Sample ID: DUP

Lab Sample ID: 500-102685-7

Date Collected: 10/14/15 00:00

Matrix: Water

Date Received: 10/16/15 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/23/15 12:49	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/23/15 12:49	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/23/15 12:49	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/23/15 12:49	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/23/15 12:49	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/23/15 12:49	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/23/15 12:49	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/23/15 12:49	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/23/15 12:49	1
Styrene	<0.39		1.0	0.39	ug/L			10/23/15 12:49	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/23/15 12:49	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/23/15 12:49	1
Toluene	<0.15		0.50	0.15	ug/L			10/23/15 12:49	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/23/15 12:49	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/23/15 12:49	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/23/15 12:49	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/23/15 12:49	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			10/23/15 12:49	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/23/15 12:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		75 - 125		10/23/15 12:49	1
4-Bromofluorobenzene (Surr)	84		75 - 120		10/23/15 12:49	1
Dibromofluoromethane	101		75 - 120		10/23/15 12:49	1
Toluene-d8 (Surr)	96		75 - 120		10/23/15 12:49	1

Client Sample ID: Trip

Lab Sample ID: 500-102685-8

Date Collected: 10/14/15 00:00

Matrix: Water

Date Received: 10/16/15 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/23/15 12:22	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/23/15 12:22	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/23/15 12:22	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/23/15 12:22	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/23/15 12:22	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/23/15 12:22	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/23/15 12:22	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/23/15 12:22	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			10/23/15 12:22	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/23/15 12:22	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/23/15 12:22	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/23/15 12:22	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/23/15 12:22	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/23/15 12:22	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/23/15 12:22	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/23/15 12:22	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/23/15 12:22	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/23/15 12:22	1

TestAmerica Chicago

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Client Sample ID: Trip
Date Collected: 10/14/15 00:00
Date Received: 10/16/15 09:50

Lab Sample ID: 500-102685-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/23/15 12:22	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/23/15 12:22	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/23/15 12:22	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/23/15 12:22	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/23/15 12:22	1
Benzene	<0.15		0.50	0.15	ug/L			10/23/15 12:22	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/23/15 12:22	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/23/15 12:22	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/23/15 12:22	1
Bromoform	<0.48		1.0	0.48	ug/L			10/23/15 12:22	1
Bromomethane	<0.80		2.0	0.80	ug/L			10/23/15 12:22	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/23/15 12:22	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/23/15 12:22	1
Chloroethane	<0.47		1.0	0.47	ug/L			10/23/15 12:22	1
Chloroform	<0.37		1.0	0.37	ug/L			10/23/15 12:22	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/23/15 12:22	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/23/15 12:22	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/23/15 12:22	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/23/15 12:22	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/23/15 12:22	1
Dichlorodifluoromethane	<0.54		2.0	0.54	ug/L			10/23/15 12:22	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/23/15 12:22	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/23/15 12:22	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/23/15 12:22	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/23/15 12:22	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/23/15 12:22	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/23/15 12:22	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/23/15 12:22	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/23/15 12:22	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/23/15 12:22	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/23/15 12:22	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/23/15 12:22	1
Styrene	<0.39		1.0	0.39	ug/L			10/23/15 12:22	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/23/15 12:22	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/23/15 12:22	1
Toluene	<0.15		0.50	0.15	ug/L			10/23/15 12:22	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/23/15 12:22	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/23/15 12:22	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/23/15 12:22	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/23/15 12:22	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			10/23/15 12:22	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/23/15 12:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		75 - 125		10/23/15 12:22	1
4-Bromofluorobenzene (Surr)	83		75 - 120		10/23/15 12:22	1
Dibromofluoromethane	101		75 - 120		10/23/15 12:22	1
Toluene-d8 (Surr)	96		75 - 120		10/23/15 12:22	1

TestAmerica Chicago

Definitions/Glossary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

GC/MS VOA

Analysis Batch: 309175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-102685-1	MW1500	Total/NA	Water	8260B	
500-102685-3	MW1700	Total/NA	Water	8260B	
LCS 500-309175/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-309175/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 309374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-102685-7	DUP	Total/NA	Water	8260B	
500-102685-8	Trip	Total/NA	Water	8260B	
LCS 500-309374/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-309374/6	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 309055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-102685-2	MW1600	Total/NA	Water	3510C	
500-102685-4	MW1800	Total/NA	Water	3510C	
500-102685-6	MW2000	Total/NA	Water	3510C	
LCS 500-309055/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-309055/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 500-309055/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 309089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-102685-2	MW1600	Total/NA	Water	8270D	309055
500-102685-4	MW1800	Total/NA	Water	8270D	309055
500-102685-6	MW2000	Total/NA	Water	8270D	309055
LCS 500-309055/2-A	Lab Control Sample	Total/NA	Water	8270D	309055
LCSD 500-309055/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	309055
MB 500-309055/1-A	Method Blank	Total/NA	Water	8270D	309055

Metals

Filtration Batch: 308581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-308581/1-B	Method Blank	Dissolved	Water	FILTRATION	

Prep Batch: 308797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-102685-2	MW1600	Dissolved	Water	3005A	
500-102685-2 DU	MW1600	Dissolved	Water	3005A	
500-102685-2 MS	MW1600	Dissolved	Water	3005A	
500-102685-2 MSD	MW1600	Dissolved	Water	3005A	
500-102685-3	MW1700	Dissolved	Water	3005A	
500-102685-4	MW1800	Dissolved	Water	3005A	
500-102685-5	MW1900	Dissolved	Water	3005A	
LCS 500-308797/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 500-308581/1-B	Method Blank	Dissolved	Water	3005A	308581

TestAmerica Chicago

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Metals (Continued)

Analysis Batch: 309052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-102685-2	MW1600	Dissolved	Water	6020	308797
500-102685-2 DU	MW1600	Dissolved	Water	6020	308797
500-102685-2 MS	MW1600	Dissolved	Water	6020	308797
500-102685-2 MSD	MW1600	Dissolved	Water	6020	308797
500-102685-3	MW1700	Dissolved	Water	6020	308797
500-102685-4	MW1800	Dissolved	Water	6020	308797
500-102685-5	MW1900	Dissolved	Water	6020	308797
LCS 500-308797/2-A	Lab Control Sample	Total Recoverable	Water	6020	308797
MB 500-308581/1-B	Method Blank	Dissolved	Water	6020	308797

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DCE (75-125)	BFB (75-120)	DBFM (75-120)	TOL (75-120)
500-102685-1	MW1500	102	86	103	96
500-102685-3	MW1700	99	87	101	95
500-102685-7	DUP	93	84	101	96
500-102685-8	Trip	95	83	101	96
LCS 500-309175/4	Lab Control Sample	90	86	100	97
LCS 500-309374/4	Lab Control Sample	91	83	101	96
MB 500-309175/6	Method Blank	95	86	98	96
MB 500-309374/6	Method Blank	93	83	98	94

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (41-132)	NBZ (47-134)	TPH (59-150)
500-102685-2	MW1600	76	82	111
500-102685-4	MW1800	73	77	107
500-102685-6	MW2000	77	82	109
LCS 500-309055/2-A	Lab Control Sample	77	87	109
LCSD 500-309055/3-A	Lab Control Sample Dup	75	82	108
MB 500-309055/1-A	Method Blank	75	89	122

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-309175/6
Matrix: Water
Analysis Batch: 309175

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/22/15 10:21	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 10:21	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/22/15 10:21	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/22/15 10:21	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/22/15 10:21	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/22/15 10:21	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/22/15 10:21	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 10:21	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			10/22/15 10:21	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/22/15 10:21	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/22/15 10:21	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/22/15 10:21	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/22/15 10:21	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/22/15 10:21	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/22/15 10:21	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/22/15 10:21	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/22/15 10:21	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/22/15 10:21	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/22/15 10:21	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/22/15 10:21	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/22/15 10:21	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/22/15 10:21	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/22/15 10:21	1
Benzene	<0.15		0.50	0.15	ug/L			10/22/15 10:21	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/22/15 10:21	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/22/15 10:21	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/22/15 10:21	1
Bromoform	<0.48		1.0	0.48	ug/L			10/22/15 10:21	1
Bromomethane	<0.80		2.0	0.80	ug/L			10/22/15 10:21	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/22/15 10:21	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/22/15 10:21	1
Chloroethane	<0.47		1.0	0.47	ug/L			10/22/15 10:21	1
Chloroform	<0.37		1.0	0.37	ug/L			10/22/15 10:21	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/22/15 10:21	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/22/15 10:21	1
cis-1,3-Dichloropropane	<0.42		1.0	0.42	ug/L			10/22/15 10:21	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/22/15 10:21	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/22/15 10:21	1
Dichlorodifluoromethane	<0.54		2.0	0.54	ug/L			10/22/15 10:21	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/22/15 10:21	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/22/15 10:21	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/22/15 10:21	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/22/15 10:21	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/22/15 10:21	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/22/15 10:21	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/22/15 10:21	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/22/15 10:21	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/22/15 10:21	1

TestAmerica Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-309175/6
Matrix: Water
Analysis Batch: 309175

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/22/15 10:21	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/22/15 10:21	1
Styrene	<0.39		1.0	0.39	ug/L			10/22/15 10:21	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/22/15 10:21	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/22/15 10:21	1
Toluene	<0.15		0.50	0.15	ug/L			10/22/15 10:21	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/22/15 10:21	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/22/15 10:21	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/22/15 10:21	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/22/15 10:21	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			10/22/15 10:21	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/22/15 10:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		75 - 125		10/22/15 10:21	1
4-Bromofluorobenzene (Surr)	86		75 - 120		10/22/15 10:21	1
Dibromofluoromethane	98		75 - 120		10/22/15 10:21	1
Toluene-d8 (Surr)	96		75 - 120		10/22/15 10:21	1

Lab Sample ID: LCS 500-309175/4
Matrix: Water
Analysis Batch: 309175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	51.8		ug/L		104	70 - 124
1,1,1-Trichloroethane	50.0	47.7		ug/L		95	70 - 125
1,1,1,2,2-Tetrachloroethane	50.0	44.5		ug/L		89	68 - 133
1,1,1,2-Trichloroethane	50.0	48.9		ug/L		98	70 - 125
1,1-Dichloroethane	50.0	54.4		ug/L		109	70 - 127
1,1-Dichloroethene	50.0	49.3		ug/L		99	68 - 121
1,1-Dichloropropene	50.0	48.9		ug/L		98	70 - 126
1,2,3-Trichlorobenzene	50.0	64.1		ug/L		128	70 - 133
1,2,3-Trichloropropane	50.0	44.1		ug/L		88	53 - 139
1,2,4-Trichlorobenzene	50.0	60.9		ug/L		122	70 - 125
1,2,4-Trimethylbenzene	50.0	46.9		ug/L		94	70 - 127
1,2-Dibromo-3-Chloropropane	50.0	38.7		ug/L		77	59 - 139
1,2-Dibromoethane	50.0	49.2		ug/L		98	70 - 124
1,2-Dichlorobenzene	50.0	50.9		ug/L		102	70 - 123
1,2-Dichloroethane	50.0	48.5		ug/L		97	66 - 132
1,2-Dichloropropane	50.0	55.6		ug/L		111	70 - 127
1,3,5-Trimethylbenzene	50.0	46.8		ug/L		94	70 - 129
1,3-Dichlorobenzene	50.0	50.7		ug/L		101	70 - 122
1,3-Dichloropropane	50.0	47.8		ug/L		96	70 - 127
1,4-Dichlorobenzene	50.0	50.7		ug/L		101	70 - 120
2,2-Dichloropropane	50.0	43.9		ug/L		88	68 - 120
2-Chlorotoluene	50.0	44.6		ug/L		89	70 - 128
4-Chlorotoluene	50.0	44.7		ug/L		89	70 - 127
Benzene	50.0	48.5		ug/L		97	70 - 120

TestAmerica Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-309175/4
Matrix: Water
Analysis Batch: 309175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	48.8		ug/L		98	70 - 129
Bromochloromethane	50.0	53.8		ug/L		108	70 - 121
Bromodichloromethane	50.0	46.8		ug/L		94	70 - 127
Bromoform	50.0	47.5		ug/L		95	70 - 135
Bromomethane	50.0	46.8		ug/L		94	30 - 170
Carbon tetrachloride	50.0	50.3		ug/L		101	70 - 136
Chlorobenzene	50.0	51.5		ug/L		103	70 - 120
Chloroethane	50.0	48.7		ug/L		97	40 - 150
Chloroform	50.0	48.1		ug/L		96	70 - 120
Chloromethane	50.0	54.4		ug/L		109	45 - 140
cis-1,2-Dichloroethene	50.0	49.4		ug/L		99	70 - 120
cis-1,3-Dichloropropene	50.0	45.1		ug/L		90	70 - 122
Dibromochloromethane	50.0	49.3		ug/L		99	70 - 120
Dibromomethane	50.0	48.3		ug/L		97	70 - 120
Dichlorodifluoromethane	50.0	46.3		ug/L		93	30 - 150
Ethylbenzene	50.0	50.7		ug/L		101	70 - 125
Hexachlorobutadiene	50.0	59.0		ug/L		118	70 - 138
Isopropylbenzene	50.0	46.7		ug/L		93	70 - 132
Methyl tert-butyl ether	50.0	45.6		ug/L		91	65 - 120
Methylene Chloride	50.0	47.0		ug/L		94	70 - 120
Naphthalene	50.0	54.0		ug/L		108	59 - 143
n-Butylbenzene	50.0	46.7		ug/L		93	70 - 129
N-Propylbenzene	50.0	45.6		ug/L		91	70 - 132
p-Isopropyltoluene	50.0	50.2		ug/L		100	70 - 133
sec-Butylbenzene	50.0	48.0		ug/L		96	70 - 134
Styrene	50.0	50.2		ug/L		100	70 - 120
tert-Butylbenzene	50.0	48.7		ug/L		97	70 - 137
Tetrachloroethene	50.0	55.3		ug/L		111	70 - 129
Toluene	50.0	48.0		ug/L		96	70 - 120
trans-1,2-Dichloroethene	50.0	50.0		ug/L		100	70 - 120
trans-1,3-Dichloropropene	50.0	43.6		ug/L		87	70 - 123
Trichloroethene	50.0	55.7		ug/L		111	70 - 122
Trichlorofluoromethane	50.0	51.0		ug/L		102	65 - 134
Vinyl chloride	50.0	56.8		ug/L		114	63 - 127
Xylenes, Total	100	96.8		ug/L		97	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		75 - 125
4-Bromofluorobenzene (Surr)	86		75 - 120
Dibromofluoromethane	100		75 - 120
Toluene-d8 (Surr)	97		75 - 120

Lab Sample ID: MB 500-309374/6
Matrix: Water
Analysis Batch: 309374

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/23/15 11:02	1

TestAmerica Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-309374/6
Matrix: Water
Analysis Batch: 309374

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/23/15 11:02	1
1,1,1,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/23/15 11:02	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/23/15 11:02	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/23/15 11:02	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/23/15 11:02	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/23/15 11:02	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/23/15 11:02	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			10/23/15 11:02	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/23/15 11:02	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/23/15 11:02	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/23/15 11:02	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/23/15 11:02	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/23/15 11:02	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/23/15 11:02	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/23/15 11:02	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/23/15 11:02	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/23/15 11:02	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/23/15 11:02	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/23/15 11:02	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/23/15 11:02	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/23/15 11:02	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/23/15 11:02	1
Benzene	<0.15		0.50	0.15	ug/L			10/23/15 11:02	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/23/15 11:02	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/23/15 11:02	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/23/15 11:02	1
Bromoform	<0.48		1.0	0.48	ug/L			10/23/15 11:02	1
Bromomethane	<0.80		2.0	0.80	ug/L			10/23/15 11:02	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/23/15 11:02	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/23/15 11:02	1
Chloroethane	<0.47		1.0	0.47	ug/L			10/23/15 11:02	1
Chloroform	<0.37		1.0	0.37	ug/L			10/23/15 11:02	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/23/15 11:02	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/23/15 11:02	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/23/15 11:02	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/23/15 11:02	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/23/15 11:02	1
Dichlorodifluoromethane	<0.54		2.0	0.54	ug/L			10/23/15 11:02	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/23/15 11:02	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/23/15 11:02	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/23/15 11:02	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/23/15 11:02	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/23/15 11:02	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/23/15 11:02	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/23/15 11:02	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/23/15 11:02	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/23/15 11:02	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/23/15 11:02	1

TestAmerica Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-309374/6
Matrix: Water
Analysis Batch: 309374

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/23/15 11:02	1
Styrene	<0.39		1.0	0.39	ug/L			10/23/15 11:02	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/23/15 11:02	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/23/15 11:02	1
Toluene	<0.15		0.50	0.15	ug/L			10/23/15 11:02	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/23/15 11:02	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/23/15 11:02	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/23/15 11:02	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/23/15 11:02	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			10/23/15 11:02	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/23/15 11:02	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	93		75 - 125		10/23/15 11:02	1
4-Bromofluorobenzene (Surr)	83		75 - 120		10/23/15 11:02	1
Dibromofluoromethane	98		75 - 120		10/23/15 11:02	1
Toluene-d8 (Surr)	94		75 - 120		10/23/15 11:02	1

Lab Sample ID: LCS 500-309374/4
Matrix: Water
Analysis Batch: 309374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	41.9		ug/L		84	70 - 125
1,1,1,2,2-Tetrachloroethane	50.0	41.7		ug/L		83	68 - 133
1,1,1,2-Trichloroethane	50.0	45.7		ug/L		91	70 - 125
1,1-Dichloroethane	50.0	48.9		ug/L		98	70 - 127
1,1-Dichloroethene	50.0	44.3		ug/L		89	68 - 121
1,1-Dichloropropene	50.0	43.0		ug/L		86	70 - 126
1,2,3-Trichlorobenzene	50.0	61.4		ug/L		123	70 - 133
1,2,3-Trichloropropane	50.0	40.2		ug/L		80	53 - 139
1,2,4-Trichlorobenzene	50.0	58.8		ug/L		118	70 - 125
1,2,4-Trimethylbenzene	50.0	41.7		ug/L		83	70 - 127
1,2-Dibromo-3-Chloropropane	50.0	34.8		ug/L		70	59 - 139
1,2-Dibromoethane	50.0	45.3		ug/L		91	70 - 124
1,2-Dichlorobenzene	50.0	48.2		ug/L		96	70 - 123
1,2-Dichloroethane	50.0	45.0		ug/L		90	66 - 132
1,2-Dichloropropane	50.0	51.6		ug/L		103	70 - 127
1,3,5-Trimethylbenzene	50.0	41.2		ug/L		82	70 - 129
1,3-Dichlorobenzene	50.0	46.7		ug/L		93	70 - 122
1,3-Dichloropropane	50.0	44.6		ug/L		89	70 - 127
1,4-Dichlorobenzene	50.0	46.3		ug/L		93	70 - 120
2,2-Dichloropropane	50.0	38.3		ug/L		77	68 - 120
2-Chlorotoluene	50.0	39.3		ug/L		79	70 - 128
4-Chlorotoluene	50.0	39.2		ug/L		78	70 - 127
Benzene	50.0	43.6		ug/L		87	70 - 120
Bromobenzene	50.0	44.5		ug/L		89	70 - 129

TestAmerica Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-309374/4
Matrix: Water
Analysis Batch: 309374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	50.0	49.9		ug/L		100	70 - 121
Bromodichloromethane	50.0	42.9		ug/L		86	70 - 127
Bromoform	50.0	44.1		ug/L		88	70 - 135
Bromomethane	50.0	42.3		ug/L		85	30 - 170
Carbon tetrachloride	50.0	43.6		ug/L		87	70 - 136
Chlorobenzene	50.0	46.9		ug/L		94	70 - 120
Chloroethane	50.0	43.5		ug/L		87	40 - 150
Chloroform	50.0	43.4		ug/L		87	70 - 120
Chloromethane	50.0	44.9		ug/L		90	45 - 140
cis-1,2-Dichloroethene	50.0	44.9		ug/L		90	70 - 120
cis-1,3-Dichloropropene	50.0	41.8		ug/L		84	70 - 122
Dibromochloromethane	50.0	46.1		ug/L		92	70 - 120
Dibromomethane	50.0	45.8		ug/L		92	70 - 120
Dichlorodifluoromethane	50.0	39.9		ug/L		80	30 - 150
Ethylbenzene	50.0	45.0		ug/L		90	70 - 125
Hexachlorobutadiene	50.0	57.0		ug/L		114	70 - 138
Isopropylbenzene	50.0	40.9		ug/L		82	70 - 132
Methyl tert-butyl ether	50.0	43.2		ug/L		86	65 - 120
Methylene Chloride	50.0	42.5		ug/L		85	70 - 120
Naphthalene	50.0	51.0		ug/L		102	59 - 143
n-Butylbenzene	50.0	41.0		ug/L		82	70 - 129
N-Propylbenzene	50.0	39.7		ug/L		79	70 - 132
p-Isopropyltoluene	50.0	44.6		ug/L		89	70 - 133
sec-Butylbenzene	50.0	42.2		ug/L		84	70 - 134
Styrene	50.0	45.4		ug/L		91	70 - 120
tert-Butylbenzene	50.0	43.4		ug/L		87	70 - 137
Tetrachloroethene	50.0	49.7		ug/L		99	70 - 129
Toluene	50.0	42.7		ug/L		85	70 - 120
trans-1,2-Dichloroethene	50.0	44.6		ug/L		89	70 - 120
trans-1,3-Dichloropropene	50.0	40.8		ug/L		82	70 - 123
Trichloroethene	50.0	49.2		ug/L		98	70 - 122
Trichlorofluoromethane	50.0	40.5		ug/L		81	65 - 134
Vinyl chloride	50.0	48.8		ug/L		98	63 - 127
Xylenes, Total	100	85.5		ug/L		85	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		75 - 125
4-Bromofluorobenzene (Surr)	83		75 - 120
Dibromofluoromethane	101		75 - 120
Toluene-d8 (Surr)	96		75 - 120

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-309055/1-A

Matrix: Water

Analysis Batch: 309089

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 309055

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.24		0.80	0.24	ug/L		10/21/15 09:05	10/21/15 17:28	1
2-Methylnaphthalene	<0.052		0.40	0.052	ug/L		10/21/15 09:05	10/21/15 17:28	1
Acenaphthene	<0.25		0.80	0.25	ug/L		10/21/15 09:05	10/21/15 17:28	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		10/21/15 09:05	10/21/15 17:28	1
Anthracene	<0.27		0.80	0.27	ug/L		10/21/15 09:05	10/21/15 17:28	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		10/21/15 09:05	10/21/15 17:28	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		10/21/15 09:05	10/21/15 17:28	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		10/21/15 09:05	10/21/15 17:28	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		10/21/15 09:05	10/21/15 17:28	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		10/21/15 09:05	10/21/15 17:28	1
Chrysene	<0.055		0.40	0.055	ug/L		10/21/15 09:05	10/21/15 17:28	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		10/21/15 09:05	10/21/15 17:28	1
Fluoranthene	<0.36		0.80	0.36	ug/L		10/21/15 09:05	10/21/15 17:28	1
Fluorene	<0.20		0.80	0.20	ug/L		10/21/15 09:05	10/21/15 17:28	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		10/21/15 09:05	10/21/15 17:28	1
Naphthalene	<0.25		0.80	0.25	ug/L		10/21/15 09:05	10/21/15 17:28	1
Phenanthrene	<0.24		0.80	0.24	ug/L		10/21/15 09:05	10/21/15 17:28	1
Pyrene	<0.34		0.80	0.34	ug/L		10/21/15 09:05	10/21/15 17:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		41 - 132	10/21/15 09:05	10/21/15 17:28	1
Nitrobenzene-d5 (Surr)	89		47 - 134	10/21/15 09:05	10/21/15 17:28	1
Terphenyl-d14 (Surr)	122		59 - 150	10/21/15 09:05	10/21/15 17:28	1

Lab Sample ID: LCS 500-309055/2-A

Matrix: Water

Analysis Batch: 309089

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 309055

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	32.0	22.7		ug/L		71	39 - 110
2-Methylnaphthalene	32.0	21.5		ug/L		67	37 - 110
Acenaphthene	32.0	26.0		ug/L		81	44 - 110
Acenaphthylene	32.0	25.5		ug/L		80	48 - 110
Anthracene	32.0	29.6		ug/L		93	60 - 115
Benzo[a]anthracene	32.0	30.9		ug/L		97	66 - 120
Benzo[a]pyrene	32.0	33.8		ug/L		106	63 - 125
Benzo[b]fluoranthene	32.0	33.4		ug/L		104	63 - 125
Benzo[g,h,i]perylene	32.0	30.6		ug/L		95	52 - 125
Benzo[k]fluoranthene	32.0	34.5		ug/L		108	58 - 125
Chrysene	32.0	32.4		ug/L		101	65 - 120
Dibenz(a,h)anthracene	32.0	35.3		ug/L		110	55 - 125
Fluoranthene	32.0	31.7		ug/L		99	64 - 120
Fluorene	32.0	26.6		ug/L		83	53 - 115
Indeno[1,2,3-cd]pyrene	32.0	33.5		ug/L		105	55 - 125
Naphthalene	32.0	21.5		ug/L		67	38 - 110
Phenanthrene	32.0	29.4		ug/L		92	60 - 115
Pyrene	32.0	29.9		ug/L		93	60 - 115

TestAmerica Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-309055/2-A
Matrix: Water
Analysis Batch: 309089

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 309055

Surrogate	LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	77		41 - 132
Nitrobenzene-d5 (Surr)	87		47 - 134
Terphenyl-d14 (Surr)	109		59 - 150

Lab Sample ID: LCSD 500-309055/3-A
Matrix: Water
Analysis Batch: 309089

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 309055

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
1-Methylnaphthalene	32.0	22.5		ug/L		70	39 - 110	1	20	
2-Methylnaphthalene	32.0	21.0		ug/L		66	37 - 110	2	20	
Acenaphthene	32.0	26.2		ug/L		82	44 - 110	1	20	
Acenaphthylene	32.0	25.2		ug/L		79	48 - 110	1	20	
Anthracene	32.0	29.8		ug/L		93	60 - 115	1	20	
Benzo[a]anthracene	32.0	31.2		ug/L		97	66 - 120	1	20	
Benzo[a]pyrene	32.0	34.6		ug/L		108	63 - 125	2	20	
Benzo[b]fluoranthene	32.0	34.0		ug/L		106	63 - 125	2	20	
Benzo[g,h,i]perylene	32.0	31.2		ug/L		97	52 - 125	2	20	
Benzo[k]fluoranthene	32.0	35.4		ug/L		111	58 - 125	3	20	
Chrysene	32.0	33.1		ug/L		104	65 - 120	2	20	
Dibenz(a,h)anthracene	32.0	36.0		ug/L		112	55 - 125	2	20	
Fluoranthene	32.0	32.0		ug/L		100	64 - 120	1	20	
Fluorene	32.0	27.2		ug/L		85	53 - 115	2	20	
Indeno[1,2,3-cd]pyrene	32.0	33.9		ug/L		106	55 - 125	1	20	
Naphthalene	32.0	21.1		ug/L		66	38 - 110	2	20	
Phenanthrene	32.0	29.5		ug/L		92	60 - 115	0	20	
Pyrene	32.0	30.4		ug/L		95	60 - 115	1	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	75		41 - 132
Nitrobenzene-d5 (Surr)	82		47 - 134
Terphenyl-d14 (Surr)	108		59 - 150

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: LCS 500-308797/2-A
Matrix: Water
Analysis Batch: 309052

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 308797

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	RPD
Arsenic	100	108		ug/L		108	80 - 120	
Selenium	100	115		ug/L		115	80 - 120	
Lead	100	101		ug/L		101	80 - 120	

TestAmerica Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-308581/1-B
Matrix: Water
Analysis Batch: 309052

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 308797

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.44		1.0	0.44	ug/L		10/19/15 18:00	10/20/15 15:42	1
Selenium	<0.83		2.5	0.83	ug/L		10/19/15 18:00	10/20/15 15:42	1
Lead	<0.14		0.50	0.14	ug/L		10/19/15 18:00	10/20/15 15:42	1

Lab Sample ID: 500-102685-2 MS
Matrix: Water
Analysis Batch: 309052

Client Sample ID: MW1600
Prep Type: Dissolved
Prep Batch: 308797

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	<0.44		100	111		ug/L		111	75 - 125

Lab Sample ID: 500-102685-2 MSD
Matrix: Water
Analysis Batch: 309052

Client Sample ID: MW1600
Prep Type: Dissolved
Prep Batch: 308797

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	<0.44		100	111		ug/L		111	75 - 125	1	20

Lab Sample ID: 500-102685-2 DU
Matrix: Water
Analysis Batch: 309052

Client Sample ID: MW1600
Prep Type: Dissolved
Prep Batch: 308797

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Arsenic	<0.44		<0.44		ug/L		NC	20

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Client Sample ID: MW1500

Date Collected: 10/14/15 12:23

Date Received: 10/16/15 09:50

Lab Sample ID: 500-102685-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309175	10/22/15 18:23	EMA	TAL CHI

Client Sample ID: MW1600

Date Collected: 10/14/15 12:20

Date Received: 10/16/15 09:50

Lab Sample ID: 500-102685-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			309055	10/21/15 09:05	SML	TAL CHI
Total/NA	Analysis	8270D		1	309089	10/21/15 18:55	GES	TAL CHI
Dissolved	Prep	3005A			308797	10/19/15 18:00	PJH	TAL CHI
Dissolved	Analysis	6020		1	309052	10/20/15 16:17	FXG	TAL CHI

Client Sample ID: MW1700

Date Collected: 10/14/15 12:45

Date Received: 10/16/15 09:50

Lab Sample ID: 500-102685-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309175	10/22/15 18:50	EMA	TAL CHI
Dissolved	Prep	3005A			308797	10/19/15 18:00	PJH	TAL CHI
Dissolved	Analysis	6020		1	309052	10/20/15 16:36	FXG	TAL CHI

Client Sample ID: MW1800

Date Collected: 10/14/15 13:07

Date Received: 10/16/15 09:50

Lab Sample ID: 500-102685-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			309055	10/21/15 09:05	SML	TAL CHI
Total/NA	Analysis	8270D		1	309089	10/21/15 19:25	GES	TAL CHI
Dissolved	Prep	3005A			308797	10/19/15 18:00	PJH	TAL CHI
Dissolved	Analysis	6020		1	309052	10/20/15 16:38	FXG	TAL CHI

Client Sample ID: MW1900

Date Collected: 10/14/15 13:23

Date Received: 10/16/15 09:50

Lab Sample ID: 500-102685-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			308797	10/19/15 18:00	PJH	TAL CHI
Dissolved	Analysis	6020		1	309052	10/20/15 16:41	FXG	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Client Sample ID: MW2000

Date Collected: 10/14/15 12:40

Date Received: 10/16/15 09:50

Lab Sample ID: 500-102685-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			309055	10/21/15 09:05	SML	TAL CHI
Total/NA	Analysis	8270D		1	309089	10/21/15 19:54	GES	TAL CHI

Client Sample ID: DUP

Date Collected: 10/14/15 00:00

Date Received: 10/16/15 09:50

Lab Sample ID: 500-102685-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309374	10/23/15 12:49	PMF	TAL CHI

Client Sample ID: Trip

Date Collected: 10/14/15 00:00

Date Received: 10/16/15 09:50

Lab Sample ID: 500-102685-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309374	10/23/15 12:22	PMF	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelop - 193703365

TestAmerica Job ID: 500-102685-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-16

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING


2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: Jeff Brand
Company: Stantec
Address: 1165 Scheuing Rd
DePue, WI 54115
Phone: 920-592-8400
Fax: 920-592-8444
E-Mail: Jeff.brand@stantec.com

Bill To (optional)
Contact: SAME
Company: _____
Address: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-102685
Chain of Custody Number: _____
Page 1 of 1
Temperature °C of Cooler: 3.3

Client		Client Project #		Preservative		HCL		HNO3		NN03		HNO3		HNO3		Preservative Key	
<u>Stantec</u>		<u>193703365</u>		-												 500-102685 COC to 4° 14° 14° 4°	
Project Name		Lab Project #		Parameter												Comments	
<u>MCABI-Tyco Redevelop</u>																	
Project Location/State		Lab Project #															
<u>Macinette, WI</u>																	
Sampler		Lab PM															
<u>Jeff Brand</u>																	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	PAH	VOC	Dis Arsenic	Dis Lead	Dis Selenium						
<u>1</u>		<u>mw1500</u>	<u>10-14-15</u>	<u>1223</u>	<u>3</u>	<u>W</u>		<u>X</u>									
<u>2</u>		<u>mw1600</u>	<u>↓</u>	<u>1220</u>	<u>3</u>	<u>W</u>	<u>X</u>		<u>X</u>								
<u>3</u>		<u>mw1700</u>	<u>↓</u>	<u>1245</u>	<u>4</u>	<u>W</u>		<u>X</u>	<u>X</u>	<u>X</u>							
<u>4</u>		<u>mw1800</u>	<u>↓</u>	<u>1307</u>	<u>3</u>	<u>W</u>	<u>X</u>		<u>X</u>								
<u>5</u>		<u>mw1900</u>	<u>↓</u>	<u>1323</u>	<u>1</u>	<u>W</u>			<u>X</u>		<u>X</u>						
<u>6</u>		<u>mw2000</u>	<u>↓</u>	<u>1240</u>	<u>2</u>	<u>W</u>	<u>X</u>										
<u>7</u>		<u>DUP</u>	<u>↓</u>		<u>3</u>	<u>W</u>		<u>X</u>									
<u>8</u>		<u>Trip</u>	<u>↓</u>		<u>1</u>	<u>W</u>		<u>X</u>									

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>[Signature]</u>	Company <u>Stantec</u>	Date <u>10-15-15</u>	Time <u>9:30</u>	Received By <u>[Signature]</u>	Company <u>TA-CHI</u>	Date <u>10/16/15</u>	Time <u>09:50</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
Shipped: Fed Ex
Hand Delivered: _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments: _____
Lab Comments: _____

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 500-102685-1

Login Number: 102685

List Source: TestAmerica Chicago

List Number: 1

Creator: Sanchez, Ariel M

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-115396-1

Client Project/Site: MCABI/Tyco Redevelopment - 193704595

For:
Stantec Consulting Corp.
1165 Scheuring Road
De Pere, Wisconsin 54115

Attn: Evan Weber



Authorized for release by:
8/16/2016 11:42:23 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	5
Sample Summary	6
Client Sample Results	7
Definitions	13
QC Association	14
Surrogate Summary	16
QC Sample Results	17
Chronicle	20
Certification Summary	22
Chain of Custody	23
Receipt Checklists	24

Case Narrative

Client: Stantec Consulting Corp.
Project/Site: MCABI/Tyco Redevelopment - 193704595

TestAmerica Job ID: 500-115396-1

Job ID: 500-115396-1

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-115396-1**

Comments

No additional comments.

Receipt

The samples were received on 8/6/2016 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8082A: The method blank for preparation batch 347022 contained PCB-1254 above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and re-analysis of samples were not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Field Service / Mobile Lab

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI/Tyco Redevelopment - 193704595

TestAmerica Job ID: 500-115396-1

Client Sample ID: MW1500

Lab Sample ID: 500-115396-1

No Detections.

Client Sample ID: MW1600

Lab Sample ID: 500-115396-2

No Detections.

Client Sample ID: MW1700

Lab Sample ID: 500-115396-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.74	J	1.0	0.44	ug/L	1		6020A	Dissolved

Client Sample ID: MW1800

Lab Sample ID: 500-115396-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.5		1.0	0.44	ug/L	1		6020A	Dissolved

Client Sample ID: MW1900

Lab Sample ID: 500-115396-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.0		1.0	0.44	ug/L	1		6020A	Dissolved

Client Sample ID: MW2000

Lab Sample ID: 500-115396-6

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI/Tyco Redevelopment - 193704595

TestAmerica Job ID: 500-115396-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI/Tyco Redevelopment - 193704595

TestAmerica Job ID: 500-115396-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-115396-1	MW1500	Water	08/04/16 11:30	08/06/16 09:10
500-115396-2	MW1600	Water	08/04/16 12:10	08/06/16 09:10
500-115396-3	MW1700	Water	08/04/16 12:25	08/06/16 09:10
500-115396-4	MW1800	Water	08/04/16 12:55	08/06/16 09:10
500-115396-5	MW1900	Water	08/04/16 14:30	08/06/16 09:10
500-115396-6	MW2000	Water	08/04/16 11:55	08/06/16 09:10

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI/Tyco Redevelopment - 193704595

TestAmerica Job ID: 500-115396-1

Client Sample ID: MW1500

Date Collected: 08/04/16 11:30

Date Received: 08/06/16 09:10

Lab Sample ID: 500-115396-1

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.23		1.5	0.23	ug/L		08/09/16 09:45	08/10/16 12:37	1
2-Methylnaphthalene	<0.050		1.5	0.050	ug/L		08/09/16 09:45	08/10/16 12:37	1
Acenaphthene	<0.24		0.77	0.24	ug/L		08/09/16 09:45	08/10/16 12:37	1
Acenaphthylene	<0.21		0.77	0.21	ug/L		08/09/16 09:45	08/10/16 12:37	1
Anthracene	<0.26		0.77	0.26	ug/L		08/09/16 09:45	08/10/16 12:37	1
Benzo[a]anthracene	<0.044		0.15	0.044	ug/L		08/09/16 09:45	08/10/16 12:37	1
Benzo[a]pyrene	<0.077		0.15	0.077	ug/L		08/09/16 09:45	08/10/16 12:37	1
Benzo[b]fluoranthene	<0.062		0.15	0.062	ug/L		08/09/16 09:45	08/10/16 12:37	1
Benzo[g,h,i]perylene	<0.29		0.77	0.29	ug/L		08/09/16 09:45	08/10/16 12:37	1
Benzo[k]fluoranthene	<0.050		0.15	0.050	ug/L		08/09/16 09:45	08/10/16 12:37	1
Chrysene	<0.053		0.39	0.053	ug/L		08/09/16 09:45	08/10/16 12:37	1
Dibenz(a,h)anthracene	<0.039		0.23	0.039	ug/L		08/09/16 09:45	08/10/16 12:37	1
Fluoranthene	<0.35		0.77	0.35	ug/L		08/09/16 09:45	08/10/16 12:37	1
Fluorene	<0.19		0.77	0.19	ug/L		08/09/16 09:45	08/10/16 12:37	1
Indeno[1,2,3-cd]pyrene	<0.058		0.15	0.058	ug/L		08/09/16 09:45	08/10/16 12:37	1
Naphthalene	<0.24		0.77	0.24	ug/L		08/09/16 09:45	08/10/16 12:37	1
Phenanthrene	<0.23		0.77	0.23	ug/L		08/09/16 09:45	08/10/16 12:37	1
Pyrene	<0.33		0.77	0.33	ug/L		08/09/16 09:45	08/10/16 12:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		30 - 123				08/09/16 09:45	08/10/16 12:37	1
Nitrobenzene-d5 (Surr)	90		33 - 139				08/09/16 09:45	08/10/16 12:37	1
Terphenyl-d14 (Surr)	93		42 - 150				08/09/16 09:45	08/10/16 12:37	1

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI/Tyco Redevelopment - 193704595

TestAmerica Job ID: 500-115396-1

Client Sample ID: MW1600

Date Collected: 08/04/16 12:10

Date Received: 08/06/16 09:10

Lab Sample ID: 500-115396-2

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.23		1.5	0.23	ug/L		08/09/16 09:45	08/10/16 13:05	1
2-Methylnaphthalene	<0.050		1.5	0.050	ug/L		08/09/16 09:45	08/10/16 13:05	1
Acenaphthene	<0.24		0.76	0.24	ug/L		08/09/16 09:45	08/10/16 13:05	1
Acenaphthylene	<0.20		0.76	0.20	ug/L		08/09/16 09:45	08/10/16 13:05	1
Anthracene	<0.25		0.76	0.25	ug/L		08/09/16 09:45	08/10/16 13:05	1
Benzo[a]anthracene	<0.043		0.15	0.043	ug/L		08/09/16 09:45	08/10/16 13:05	1
Benzo[a]pyrene	<0.075		0.15	0.075	ug/L		08/09/16 09:45	08/10/16 13:05	1
Benzo[b]fluoranthene	<0.061		0.15	0.061	ug/L		08/09/16 09:45	08/10/16 13:05	1
Benzo[g,h,i]perylene	<0.29		0.76	0.29	ug/L		08/09/16 09:45	08/10/16 13:05	1
Benzo[k]fluoranthene	<0.049		0.15	0.049	ug/L		08/09/16 09:45	08/10/16 13:05	1
Chrysene	<0.052		0.38	0.052	ug/L		08/09/16 09:45	08/10/16 13:05	1
Dibenz(a,h)anthracene	<0.039		0.23	0.039	ug/L		08/09/16 09:45	08/10/16 13:05	1
Fluoranthene	<0.35		0.76	0.35	ug/L		08/09/16 09:45	08/10/16 13:05	1
Fluorene	<0.19		0.76	0.19	ug/L		08/09/16 09:45	08/10/16 13:05	1
Indeno[1,2,3-cd]pyrene	<0.057		0.15	0.057	ug/L		08/09/16 09:45	08/10/16 13:05	1
Naphthalene	<0.24		0.76	0.24	ug/L		08/09/16 09:45	08/10/16 13:05	1
Phenanthrene	<0.23		0.76	0.23	ug/L		08/09/16 09:45	08/10/16 13:05	1
Pyrene	<0.32		0.76	0.32	ug/L		08/09/16 09:45	08/10/16 13:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		30 - 123				08/09/16 09:45	08/10/16 13:05	1
Nitrobenzene-d5 (Surr)	91		33 - 139				08/09/16 09:45	08/10/16 13:05	1
Terphenyl-d14 (Surr)	92		42 - 150				08/09/16 09:45	08/10/16 13:05	1

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI/Tyco Redevelopment - 193704595

TestAmerica Job ID: 500-115396-1

Client Sample ID: MW1700

Lab Sample ID: 500-115396-3

Date Collected: 08/04/16 12:25

Matrix: Water

Date Received: 08/06/16 09:10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.23		1.5	0.23	ug/L		08/09/16 09:45	08/10/16 13:32	1
2-Methylnaphthalene	<0.049		1.5	0.049	ug/L		08/09/16 09:45	08/10/16 13:32	1
Acenaphthene	<0.23		0.76	0.23	ug/L		08/09/16 09:45	08/10/16 13:32	1
Acenaphthylene	<0.20		0.76	0.20	ug/L		08/09/16 09:45	08/10/16 13:32	1
Anthracene	<0.25		0.76	0.25	ug/L		08/09/16 09:45	08/10/16 13:32	1
Benzo[a]anthracene	<0.043		0.15	0.043	ug/L		08/09/16 09:45	08/10/16 13:32	1
Benzo[a]pyrene	<0.075		0.15	0.075	ug/L		08/09/16 09:45	08/10/16 13:32	1
Benzo[b]fluoranthene	<0.061		0.15	0.061	ug/L		08/09/16 09:45	08/10/16 13:32	1
Benzo[g,h,i]perylene	<0.28		0.76	0.28	ug/L		08/09/16 09:45	08/10/16 13:32	1
Benzo[k]fluoranthene	<0.048		0.15	0.048	ug/L		08/09/16 09:45	08/10/16 13:32	1
Chrysene	<0.052		0.38	0.052	ug/L		08/09/16 09:45	08/10/16 13:32	1
Dibenz(a,h)anthracene	<0.038		0.23	0.038	ug/L		08/09/16 09:45	08/10/16 13:32	1
Fluoranthene	<0.34		0.76	0.34	ug/L		08/09/16 09:45	08/10/16 13:32	1
Fluorene	<0.18		0.76	0.18	ug/L		08/09/16 09:45	08/10/16 13:32	1
Indeno[1,2,3-cd]pyrene	<0.057		0.15	0.057	ug/L		08/09/16 09:45	08/10/16 13:32	1
Naphthalene	<0.23		0.76	0.23	ug/L		08/09/16 09:45	08/10/16 13:32	1
Phenanthrene	<0.23		0.76	0.23	ug/L		08/09/16 09:45	08/10/16 13:32	1
Pyrene	<0.32		0.76	0.32	ug/L		08/09/16 09:45	08/10/16 13:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		30 - 123	08/09/16 09:45	08/10/16 13:32	1
Nitrobenzene-d5 (Surr)	91		33 - 139	08/09/16 09:45	08/10/16 13:32	1
Terphenyl-d14 (Surr)	93		42 - 150	08/09/16 09:45	08/10/16 13:32	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.74	J	1.0	0.44	ug/L		08/09/16 08:46	08/09/16 18:20	1

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI/Tyco Redevelopment - 193704595

TestAmerica Job ID: 500-115396-1

Client Sample ID: MW1800

Lab Sample ID: 500-115396-4

Date Collected: 08/04/16 12:55

Matrix: Water

Date Received: 08/06/16 09:10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.25		1.6	0.25	ug/L		08/09/16 09:45	08/10/16 14:00	1
2-Methylnaphthalene	<0.053		1.6	0.053	ug/L		08/09/16 09:45	08/10/16 14:00	1
Acenaphthene	<0.25		0.82	0.25	ug/L		08/09/16 09:45	08/10/16 14:00	1
Acenaphthylene	<0.22		0.82	0.22	ug/L		08/09/16 09:45	08/10/16 14:00	1
Anthracene	<0.27		0.82	0.27	ug/L		08/09/16 09:45	08/10/16 14:00	1
Benzo[a]anthracene	<0.046		0.16	0.046	ug/L		08/09/16 09:45	08/10/16 14:00	1
Benzo[a]pyrene	<0.081		0.16	0.081	ug/L		08/09/16 09:45	08/10/16 14:00	1
Benzo[b]fluoranthene	<0.066		0.16	0.066	ug/L		08/09/16 09:45	08/10/16 14:00	1
Benzo[g,h,i]perylene	<0.31		0.82	0.31	ug/L		08/09/16 09:45	08/10/16 14:00	1
Benzo[k]fluoranthene	<0.052		0.16	0.052	ug/L		08/09/16 09:45	08/10/16 14:00	1
Chrysene	<0.056		0.41	0.056	ug/L		08/09/16 09:45	08/10/16 14:00	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		08/09/16 09:45	08/10/16 14:00	1
Fluoranthene	<0.37		0.82	0.37	ug/L		08/09/16 09:45	08/10/16 14:00	1
Fluorene	<0.20		0.82	0.20	ug/L		08/09/16 09:45	08/10/16 14:00	1
Indeno[1,2,3-cd]pyrene	<0.061		0.16	0.061	ug/L		08/09/16 09:45	08/10/16 14:00	1
Naphthalene	<0.25		0.82	0.25	ug/L		08/09/16 09:45	08/10/16 14:00	1
Phenanthrene	<0.25		0.82	0.25	ug/L		08/09/16 09:45	08/10/16 14:00	1
Pyrene	<0.35		0.82	0.35	ug/L		08/09/16 09:45	08/10/16 14:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		30 - 123	08/09/16 09:45	08/10/16 14:00	1
Nitrobenzene-d5 (Surr)	90		33 - 139	08/09/16 09:45	08/10/16 14:00	1
Terphenyl-d14 (Surr)	94		42 - 150	08/09/16 09:45	08/10/16 14:00	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.066		0.39	0.066	ug/L		08/08/16 16:25	08/09/16 01:59	1
PCB-1221	<0.20		0.39	0.20	ug/L		08/08/16 16:25	08/09/16 01:59	1
PCB-1232	<0.20		0.39	0.20	ug/L		08/08/16 16:25	08/09/16 01:59	1
PCB-1242	<0.20		0.39	0.20	ug/L		08/08/16 16:25	08/09/16 01:59	1
PCB-1248	<0.20		0.39	0.20	ug/L		08/08/16 16:25	08/09/16 01:59	1
PCB-1254	<0.20		0.39	0.20	ug/L		08/08/16 16:25	08/09/16 01:59	1
PCB-1260	<0.069		0.39	0.069	ug/L		08/08/16 16:25	08/09/16 01:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		30 - 127	08/08/16 16:25	08/09/16 01:59	1
DCB Decachlorobiphenyl	49		30 - 150	08/08/16 16:25	08/09/16 01:59	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.5		1.0	0.44	ug/L		08/09/16 08:46	08/09/16 18:23	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: MCABI/Tyco Redevelopment - 193704595

TestAmerica Job ID: 500-115396-1

Client Sample ID: MW1900

Date Collected: 08/04/16 14:30

Date Received: 08/06/16 09:10

Lab Sample ID: 500-115396-5

Matrix: Water

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0		1.0	0.44	ug/L		08/09/16 08:46	08/09/16 18:27	1

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI/Tyco Redevelopment - 193704595

TestAmerica Job ID: 500-115396-1

Client Sample ID: MW2000

Date Collected: 08/04/16 11:55

Date Received: 08/06/16 09:10

Lab Sample ID: 500-115396-6

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.23		1.5	0.23	ug/L		08/09/16 09:45	08/10/16 14:28	1
2-Methylnaphthalene	<0.050		1.5	0.050	ug/L		08/09/16 09:45	08/10/16 14:28	1
Acenaphthene	<0.24		0.77	0.24	ug/L		08/09/16 09:45	08/10/16 14:28	1
Acenaphthylene	<0.20		0.77	0.20	ug/L		08/09/16 09:45	08/10/16 14:28	1
Anthracene	<0.26		0.77	0.26	ug/L		08/09/16 09:45	08/10/16 14:28	1
Benzo[a]anthracene	<0.043		0.15	0.043	ug/L		08/09/16 09:45	08/10/16 14:28	1
Benzo[a]pyrene	<0.076		0.15	0.076	ug/L		08/09/16 09:45	08/10/16 14:28	1
Benzo[b]fluoranthene	<0.062		0.15	0.062	ug/L		08/09/16 09:45	08/10/16 14:28	1
Benzo[g,h,i]perylene	<0.29		0.77	0.29	ug/L		08/09/16 09:45	08/10/16 14:28	1
Benzo[k]fluoranthene	<0.049		0.15	0.049	ug/L		08/09/16 09:45	08/10/16 14:28	1
Chrysene	<0.052		0.38	0.052	ug/L		08/09/16 09:45	08/10/16 14:28	1
Dibenz(a,h)anthracene	<0.039		0.23	0.039	ug/L		08/09/16 09:45	08/10/16 14:28	1
Fluoranthene	<0.35		0.77	0.35	ug/L		08/09/16 09:45	08/10/16 14:28	1
Fluorene	<0.19		0.77	0.19	ug/L		08/09/16 09:45	08/10/16 14:28	1
Indeno[1,2,3-cd]pyrene	<0.057		0.15	0.057	ug/L		08/09/16 09:45	08/10/16 14:28	1
Naphthalene	<0.24		0.77	0.24	ug/L		08/09/16 09:45	08/10/16 14:28	1
Phenanthrene	<0.23		0.77	0.23	ug/L		08/09/16 09:45	08/10/16 14:28	1
Pyrene	<0.33		0.77	0.33	ug/L		08/09/16 09:45	08/10/16 14:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		30 - 123				08/09/16 09:45	08/10/16 14:28	1
Nitrobenzene-d5 (Surr)	81		33 - 139				08/09/16 09:45	08/10/16 14:28	1
Terphenyl-d14 (Surr)	86		42 - 150				08/09/16 09:45	08/10/16 14:28	1

Definitions/Glossary

Client: Stantec Consulting Corp.
Project/Site: MCABI/Tyco Redevelopment - 193704595

TestAmerica Job ID: 500-115396-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI/Tyco Redevelopment - 193704595

TestAmerica Job ID: 500-115396-1

GC/MS Semi VOA

Analysis Batch: 346993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-347105/1-A	Method Blank	Total/NA	Water	8270D	347105
LCS 500-347105/2-A	Lab Control Sample	Total/NA	Water	8270D	347105

Prep Batch: 347105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-115396-1	MW1500	Total/NA	Water	3510C	
500-115396-2	MW1600	Total/NA	Water	3510C	
500-115396-3	MW1700	Total/NA	Water	3510C	
500-115396-4	MW1800	Total/NA	Water	3510C	
500-115396-6	MW2000	Total/NA	Water	3510C	
MB 500-347105/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-347105/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 347244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-115396-1	MW1500	Total/NA	Water	8270D	347105
500-115396-2	MW1600	Total/NA	Water	8270D	347105
500-115396-3	MW1700	Total/NA	Water	8270D	347105
500-115396-4	MW1800	Total/NA	Water	8270D	347105
500-115396-6	MW2000	Total/NA	Water	8270D	347105

GC Semi VOA

Analysis Batch: 347017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-115396-4	MW1800	Total/NA	Water	8082A	347022
MB 500-347022/1-A	Method Blank	Total/NA	Water	8082A	347022
LCS 500-347022/2-A	Lab Control Sample	Total/NA	Water	8082A	347022
LCSD 500-347022/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	347022

Prep Batch: 347022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-115396-4	MW1800	Total/NA	Water	3510C	
MB 500-347022/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-347022/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-347022/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Metals

Prep Batch: 347091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-115396-3	MW1700	Dissolved	Water	3005A	
500-115396-4	MW1800	Dissolved	Water	3005A	
500-115396-5	MW1900	Dissolved	Water	3005A	
MB 500-347091/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-347091/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 347265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-115396-3	MW1700	Dissolved	Water	6020A	347091

TestAmerica Chicago

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI/Tyco Redevelopment - 193704595

TestAmerica Job ID: 500-115396-1

Metals (Continued)

Analysis Batch: 347265 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-115396-4	MW1800	Dissolved	Water	6020A	347091
500-115396-5	MW1900	Dissolved	Water	6020A	347091
MB 500-347091/1-A	Method Blank	Total Recoverable	Water	6020A	347091
LCS 500-347091/2-A	Lab Control Sample	Total Recoverable	Water	6020A	347091

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI/Tyco Redevelopment - 193704595

TestAmerica Job ID: 500-115396-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (30-123)	NBZ (33-139)	TPH (42-150)
500-115396-1	MW1500	69	90	93
500-115396-2	MW1600	70	91	92
500-115396-3	MW1700	72	91	93
500-115396-4	MW1800	71	90	94
500-115396-6	MW2000	63	81	86
LCS 500-347105/2-A	Lab Control Sample	74	89	99
MB 500-347105/1-A	Method Blank	76	88	93

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5 (Surr)

TPH = Terphenyl-d14 (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX2 (30-127)	DCB2 (30-150)
500-115396-4	MW1800	80	49
LCS 500-347022/2-A	Lab Control Sample	77	97
LCSD 500-347022/3-A	Lab Control Sample Dup	72	84
MB 500-347022/1-A	Method Blank	73	86

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI/Tyco Redevelopment - 193704595

TestAmerica Job ID: 500-115396-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-347105/1-A
Matrix: Water
Analysis Batch: 346993

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 347105

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		08/09/16 09:45	08/09/16 20:30	1
2-Methylnaphthalene	<0.052		1.6	0.052	ug/L		08/09/16 09:45	08/09/16 20:30	1
Acenaphthene	<0.25		0.80	0.25	ug/L		08/09/16 09:45	08/09/16 20:30	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		08/09/16 09:45	08/09/16 20:30	1
Anthracene	<0.27		0.80	0.27	ug/L		08/09/16 09:45	08/09/16 20:30	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		08/09/16 09:45	08/09/16 20:30	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		08/09/16 09:45	08/09/16 20:30	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		08/09/16 09:45	08/09/16 20:30	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		08/09/16 09:45	08/09/16 20:30	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		08/09/16 09:45	08/09/16 20:30	1
Chrysene	<0.055		0.40	0.055	ug/L		08/09/16 09:45	08/09/16 20:30	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		08/09/16 09:45	08/09/16 20:30	1
Fluoranthene	<0.36		0.80	0.36	ug/L		08/09/16 09:45	08/09/16 20:30	1
Fluorene	<0.20		0.80	0.20	ug/L		08/09/16 09:45	08/09/16 20:30	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		08/09/16 09:45	08/09/16 20:30	1
Naphthalene	<0.25		0.80	0.25	ug/L		08/09/16 09:45	08/09/16 20:30	1
Phenanthrene	<0.24		0.80	0.24	ug/L		08/09/16 09:45	08/09/16 20:30	1
Pyrene	<0.34		0.80	0.34	ug/L		08/09/16 09:45	08/09/16 20:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		30 - 123	08/09/16 09:45	08/09/16 20:30	1
Nitrobenzene-d5 (Surr)	88		33 - 139	08/09/16 09:45	08/09/16 20:30	1
Terphenyl-d14 (Surr)	93		42 - 150	08/09/16 09:45	08/09/16 20:30	1

Lab Sample ID: LCS 500-347105/2-A
Matrix: Water
Analysis Batch: 346993

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 347105

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	32.0	24.7		ug/L		77	32 - 110
Acenaphthene	32.0	24.6		ug/L		77	41 - 112
Acenaphthylene	32.0	24.4		ug/L		76	48 - 110
Anthracene	32.0	29.2		ug/L		91	65 - 118
Benzo[a]anthracene	32.0	30.2		ug/L		94	69 - 121
Benzo[a]pyrene	32.0	32.2		ug/L		101	69 - 130
Benzo[b]fluoranthene	32.0	34.0		ug/L		106	66 - 133
Benzo[g,h,i]perylene	32.0	31.9		ug/L		100	47 - 145
Benzo[k]fluoranthene	32.0	30.2		ug/L		94	64 - 134
Chrysene	32.0	30.5		ug/L		95	70 - 126
Dibenz(a,h)anthracene	32.0	33.5		ug/L		105	59 - 145
Fluoranthene	32.0	30.2		ug/L		94	68 - 127
Fluorene	32.0	25.4		ug/L		79	54 - 113
Indeno[1,2,3-cd]pyrene	32.0	33.4		ug/L		104	52 - 150
Naphthalene	32.0	24.0		ug/L		75	32 - 110
Phenanthrene	32.0	29.5		ug/L		92	63 - 121
Pyrene	32.0	30.5		ug/L		95	65 - 122

TestAmerica Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI/Tyco Redevelopment - 193704595

TestAmerica Job ID: 500-115396-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-347105/2-A
Matrix: Water
Analysis Batch: 346993

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 347105

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	74		30 - 123
Nitrobenzene-d5 (Surr)	89		33 - 139
Terphenyl-d14 (Surr)	99		42 - 150

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-347022/1-A
Matrix: Water
Analysis Batch: 347017

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 347022

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<0.067		0.40	0.067	ug/L		08/08/16 16:25	08/09/16 00:11	1
PCB-1221	<0.20		0.40	0.20	ug/L		08/08/16 16:25	08/09/16 00:11	1
PCB-1232	<0.20		0.40	0.20	ug/L		08/08/16 16:25	08/09/16 00:11	1
PCB-1242	<0.20		0.40	0.20	ug/L		08/08/16 16:25	08/09/16 00:11	1
PCB-1248	<0.20		0.40	0.20	ug/L		08/08/16 16:25	08/09/16 00:11	1
PCB-1254	0.892		0.40	0.20	ug/L		08/08/16 16:25	08/09/16 00:11	1
PCB-1260	<0.070		0.40	0.070	ug/L		08/08/16 16:25	08/09/16 00:11	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	73		30 - 127	08/08/16 16:25	08/09/16 00:11	1
DCB Decachlorobiphenyl	86		30 - 150	08/08/16 16:25	08/09/16 00:11	1

Lab Sample ID: LCS 500-347022/2-A
Matrix: Water
Analysis Batch: 347017

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 347022

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
PCB-1016	4.00	3.78		ug/L		94	58 - 121
PCB-1260	4.00	3.95		ug/L		99	62 - 137

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	77		30 - 127
DCB Decachlorobiphenyl	97		30 - 150

Lab Sample ID: LCSD 500-347022/3-A
Matrix: Water
Analysis Batch: 347017

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 347022

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	Limits	RPD	
		Result	Qualifier					RPD	Limit
PCB-1016	4.00	3.26		ug/L		81	58 - 121	15	20
PCB-1260	4.00	3.27		ug/L		82	62 - 137	19	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	72		30 - 127
DCB Decachlorobiphenyl	84		30 - 150

TestAmerica Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI/Tyco Redevelopment - 193704595

TestAmerica Job ID: 500-115396-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-347091/1-A
Matrix: Water
Analysis Batch: 347265

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 347091

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.44		1.0	0.44	ug/L		08/09/16 08:46	08/09/16 16:38	1

Lab Sample ID: LCS 500-347091/2-A
Matrix: Water
Analysis Batch: 347265

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 347091

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	104		ug/L		104	80 - 120



Lab Chronicle

Client: Stantec Consulting Corp.
 Project/Site: MCABI/Tyco Redevelopment - 193704595

TestAmerica Job ID: 500-115396-1

Client Sample ID: MW1500

Date Collected: 08/04/16 11:30

Date Received: 08/06/16 09:10

Lab Sample ID: 500-115396-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			347105	08/09/16 09:45	DAK	TAL CHI
Total/NA	Analysis	8270D		1	347244	08/10/16 12:37	GES	TAL CHI

Client Sample ID: MW1600

Date Collected: 08/04/16 12:10

Date Received: 08/06/16 09:10

Lab Sample ID: 500-115396-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			347105	08/09/16 09:45	DAK	TAL CHI
Total/NA	Analysis	8270D		1	347244	08/10/16 13:05	GES	TAL CHI

Client Sample ID: MW1700

Date Collected: 08/04/16 12:25

Date Received: 08/06/16 09:10

Lab Sample ID: 500-115396-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			347105	08/09/16 09:45	DAK	TAL CHI
Total/NA	Analysis	8270D		1	347244	08/10/16 13:32	GES	TAL CHI
Dissolved	Prep	3005A			347091	08/09/16 08:46	JEF	TAL CHI
Dissolved	Analysis	6020A		1	347265	08/09/16 18:20	FXG	TAL CHI

Client Sample ID: MW1800

Date Collected: 08/04/16 12:55

Date Received: 08/06/16 09:10

Lab Sample ID: 500-115396-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			347105	08/09/16 09:45	DAK	TAL CHI
Total/NA	Analysis	8270D		1	347244	08/10/16 14:00	GES	TAL CHI
Total/NA	Prep	3510C			347022	08/08/16 16:25	JP1	TAL CHI
Total/NA	Analysis	8082A		1	347017	08/09/16 01:59	SAW	TAL CHI
Dissolved	Prep	3005A			347091	08/09/16 08:46	JEF	TAL CHI
Dissolved	Analysis	6020A		1	347265	08/09/16 18:23	FXG	TAL CHI

Client Sample ID: MW1900

Date Collected: 08/04/16 14:30

Date Received: 08/06/16 09:10

Lab Sample ID: 500-115396-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			347091	08/09/16 08:46	JEF	TAL CHI
Dissolved	Analysis	6020A		1	347265	08/09/16 18:27	FXG	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: MCABI/Tyco Redevelopment - 193704595

TestAmerica Job ID: 500-115396-1

Client Sample ID: MW2000

Date Collected: 08/04/16 11:55

Date Received: 08/06/16 09:10

Lab Sample ID: 500-115396-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			347105	08/09/16 09:45	DAK	TAL CHI
Total/NA	Analysis	8270D		1	347244	08/10/16 14:28	GES	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Certification Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI/Tyco Redevelopment - 193704595

TestAmerica Job ID: 500-115396-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-16 *

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To Contact: <u>Evan Weber</u> Company: <u>Stantec</u> Address: <u>1165 Scheuring Road</u> Address: <u>De Pere, WI 54115</u> Phone: <u>(920) 592-8400</u> Fax: <u>(920) 592-8444</u> E-Mail: <u>evan.weber@stantec.com</u>	(optional)	Bill To Contact: <u>← Same</u> Company: _____ Address: _____ Address: _____ Phone: _____ Fax: _____ PO#/Reference# _____	(optional)
---	------------	---	------------

Chain of Custody Record

Lab Job #: 500-115396
 Chain of Custody Number: _____
 Page 1 of 1
 Temperature °C of Cooler: 3.4

Client		Client Project #		Preservative		None		None		HNO ₃											
Project Name		Project Location/State		Lab Project #		Parameter															
Sampler		Lab PM																			
Lab ID	MS/MSD	Sample ID		Sampling		# of Containers	Matrix	PAH	PCB	Arsenic											
		Date	Time																		
1		MW1500	8/4/16	1130	2	W	X														
2		MW1600		1210	2	W	X														
3		MW1700*		1225	3	W	X			X											
4		MW1800*		1255	5	W	X	X	X	X											
5		MW1900*		1430	1	W				X											
6		MW2000		1155	2	W	X														



Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other

Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Evan J. Weber</u>	Company <u>Stantec</u>	Date <u>8/5/16</u>	Time <u>1645</u>	Received By <u>David Sew</u>	Company <u>TA MI</u>	Date <u>08/06/16</u>	Time <u>09:10</u>	Lab Courier
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Shipped <u>EX SATURDAY</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Hand Delivered

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments
* Arsenic samples have been filtered in the field.

Lab Comments:

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 500-115396-1

Login Number: 115396

List Source: TestAmerica Chicago

List Number: 1

Creator: Sanchez, Ariel M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-118334-1

Client Project/Site: MCABI - Tyco Redevelopment 193704595

For:
Stantec Consulting Corp.
1165 Scheuring Road
De Pere, Wisconsin 54115

Attn: Evan Weber



Authorized for release by:
10/13/2016 3:46:33 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	5
Sample Summary	6
Client Sample Results	7
Definitions	9
QC Association	10
Surrogate Summary	11
QC Sample Results	12
Chronicle	14
Certification Summary	15
Chain of Custody	16
Receipt Checklists	18

Case Narrative

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelopment 193704595

TestAmerica Job ID: 500-118334-1

Job ID: 500-118334-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-118334-1

Comments

No additional comments.

Receipt

The samples were received on 10/8/2016 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Field Service / Mobile Lab

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelopment 193704595

TestAmerica Job ID: 500-118334-1

Client Sample ID: MW1800

Lab Sample ID: 500-118334-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	38		1.0	0.44	ug/L	1		6020A	Dissolved

Client Sample ID: MW2000

Lab Sample ID: 500-118334-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.087	J	1.6	0.051	ug/L	1		8270D	Total/NA
Naphthalene	0.28	J	0.78	0.24	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelopment 193704595

TestAmerica Job ID: 500-118334-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelopment 193704595

TestAmerica Job ID: 500-118334-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-118334-1	MW1800	Water	10/06/16 12:30	10/08/16 09:50
500-118334-2	MW2000	Water	10/06/16 11:30	10/08/16 09:50

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelopment 193704595

TestAmerica Job ID: 500-118334-1

Client Sample ID: MW1800

Date Collected: 10/06/16 12:30

Date Received: 10/08/16 09:50

Lab Sample ID: 500-118334-1

Matrix: Water

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	38		1.0	0.44	ug/L		10/11/16 08:53	10/11/16 17:09	1

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Redevelopment 193704595

TestAmerica Job ID: 500-118334-1

Client Sample ID: MW2000

Date Collected: 10/06/16 11:30

Date Received: 10/08/16 09:50

Lab Sample ID: 500-118334-2

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		10/10/16 07:41	10/10/16 21:48	1
2-Methylnaphthalene	0.087	J	1.6	0.051	ug/L		10/10/16 07:41	10/10/16 21:48	1
Acenaphthene	<0.24		0.78	0.24	ug/L		10/10/16 07:41	10/10/16 21:48	1
Acenaphthylene	<0.21		0.78	0.21	ug/L		10/10/16 07:41	10/10/16 21:48	1
Anthracene	<0.26		0.78	0.26	ug/L		10/10/16 07:41	10/10/16 21:48	1
Benzo[a]anthracene	<0.044		0.16	0.044	ug/L		10/10/16 07:41	10/10/16 21:48	1
Benzo[a]pyrene	<0.078		0.16	0.078	ug/L		10/10/16 07:41	10/10/16 21:48	1
Benzo[b]fluoranthene	<0.063		0.16	0.063	ug/L		10/10/16 07:41	10/10/16 21:48	1
Benzo[g,h,i]perylene	<0.29		0.78	0.29	ug/L		10/10/16 07:41	10/10/16 21:48	1
Benzo[k]fluoranthene	<0.050		0.16	0.050	ug/L		10/10/16 07:41	10/10/16 21:48	1
Chrysene	<0.053		0.39	0.053	ug/L		10/10/16 07:41	10/10/16 21:48	1
Dibenz(a,h)anthracene	<0.040		0.24	0.040	ug/L		10/10/16 07:41	10/10/16 21:48	1
Fluoranthene	<0.36		0.78	0.36	ug/L		10/10/16 07:41	10/10/16 21:48	1
Fluorene	<0.19		0.78	0.19	ug/L		10/10/16 07:41	10/10/16 21:48	1
Indeno[1,2,3-cd]pyrene	<0.059		0.16	0.059	ug/L		10/10/16 07:41	10/10/16 21:48	1
Naphthalene	0.28	J	0.78	0.24	ug/L		10/10/16 07:41	10/10/16 21:48	1
Phenanthrene	<0.24		0.78	0.24	ug/L		10/10/16 07:41	10/10/16 21:48	1
Pyrene	<0.33		0.78	0.33	ug/L		10/10/16 07:41	10/10/16 21:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		30 - 123				10/10/16 07:41	10/10/16 21:48	1
Nitrobenzene-d5 (Surr)	80		33 - 139				10/10/16 07:41	10/10/16 21:48	1
Terphenyl-d14 (Surr)	105		42 - 150				10/10/16 07:41	10/10/16 21:48	1

Definitions/Glossary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelopment 193704595

TestAmerica Job ID: 500-118334-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelopment 193704595

TestAmerica Job ID: 500-118334-1

GC/MS Semi VOA

Prep Batch: 355322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118334-2	MW2000	Total/NA	Water	3510C	
MB 500-355322/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-355322/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 355418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118334-2	MW2000	Total/NA	Water	8270D	355322
MB 500-355322/1-A	Method Blank	Total/NA	Water	8270D	355322
LCS 500-355322/2-A	Lab Control Sample	Total/NA	Water	8270D	355322

Metals

Prep Batch: 355523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118334-1	MW1800	Dissolved	Water	3005A	
MB 500-355523/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-355523/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-118334-1 MS	MW1800	Dissolved	Water	3005A	
500-118334-1 MSD	MW1800	Dissolved	Water	3005A	
500-118334-1 DU	MW1800	Dissolved	Water	3005A	

Analysis Batch: 355732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-118334-1	MW1800	Dissolved	Water	6020A	355523
MB 500-355523/1-A	Method Blank	Total Recoverable	Water	6020A	355523
LCS 500-355523/2-A	Lab Control Sample	Total Recoverable	Water	6020A	355523
500-118334-1 MS	MW1800	Dissolved	Water	6020A	355523
500-118334-1 MSD	MW1800	Dissolved	Water	6020A	355523
500-118334-1 DU	MW1800	Dissolved	Water	6020A	355523

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelopment 193704595

TestAmerica Job ID: 500-118334-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (30-123)	NBZ (33-139)	TPH (42-150)
500-118334-2	MW2000	80	80	105
LCS 500-355322/2-A	Lab Control Sample	77	87	104
MB 500-355322/1-A	Method Blank	79	82	105

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5 (Surr)

TPH = Terphenyl-d14 (Surr)

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Redevelopment 193704595

TestAmerica Job ID: 500-118334-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-355322/1-A
Matrix: Water
Analysis Batch: 355418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 355322

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		10/10/16 07:41	10/10/16 21:18	1
2-Methylnaphthalene	<0.052		1.6	0.052	ug/L		10/10/16 07:41	10/10/16 21:18	1
Acenaphthene	<0.25		0.80	0.25	ug/L		10/10/16 07:41	10/10/16 21:18	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		10/10/16 07:41	10/10/16 21:18	1
Anthracene	<0.27		0.80	0.27	ug/L		10/10/16 07:41	10/10/16 21:18	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		10/10/16 07:41	10/10/16 21:18	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		10/10/16 07:41	10/10/16 21:18	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		10/10/16 07:41	10/10/16 21:18	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		10/10/16 07:41	10/10/16 21:18	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		10/10/16 07:41	10/10/16 21:18	1
Chrysene	<0.055		0.40	0.055	ug/L		10/10/16 07:41	10/10/16 21:18	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		10/10/16 07:41	10/10/16 21:18	1
Fluoranthene	<0.36		0.80	0.36	ug/L		10/10/16 07:41	10/10/16 21:18	1
Fluorene	<0.20		0.80	0.20	ug/L		10/10/16 07:41	10/10/16 21:18	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		10/10/16 07:41	10/10/16 21:18	1
Naphthalene	<0.25		0.80	0.25	ug/L		10/10/16 07:41	10/10/16 21:18	1
Phenanthrene	<0.24		0.80	0.24	ug/L		10/10/16 07:41	10/10/16 21:18	1
Pyrene	<0.34		0.80	0.34	ug/L		10/10/16 07:41	10/10/16 21:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		30 - 123	10/10/16 07:41	10/10/16 21:18	1
Nitrobenzene-d5 (Surr)	82		33 - 139	10/10/16 07:41	10/10/16 21:18	1
Terphenyl-d14 (Surr)	105		42 - 150	10/10/16 07:41	10/10/16 21:18	1

Lab Sample ID: LCS 500-355322/2-A
Matrix: Water
Analysis Batch: 355418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355322

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	32.0	22.6		ug/L		71	32 - 110
Acenaphthene	32.0	28.4		ug/L		89	41 - 112
Acenaphthylene	32.0	26.7		ug/L		83	48 - 110
Anthracene	32.0	30.2		ug/L		94	65 - 118
Benzo[a]anthracene	32.0	32.4		ug/L		101	69 - 121
Benzo[a]pyrene	32.0	33.0		ug/L		103	69 - 130
Benzo[b]fluoranthene	32.0	36.0		ug/L		113	66 - 133
Benzo[g,h,i]perylene	32.0	35.3		ug/L		110	47 - 145
Benzo[k]fluoranthene	32.0	32.2		ug/L		101	64 - 134
Chrysene	32.0	30.9		ug/L		97	70 - 126
Dibenz(a,h)anthracene	32.0	33.9		ug/L		106	59 - 145
Fluoranthene	32.0	32.1		ug/L		100	68 - 127
Fluorene	32.0	29.0		ug/L		91	54 - 113
Indeno[1,2,3-cd]pyrene	32.0	34.1		ug/L		107	52 - 150
Naphthalene	32.0	22.3		ug/L		70	32 - 110
Phenanthrene	32.0	30.2		ug/L		94	63 - 121
Pyrene	32.0	30.6		ug/L		96	65 - 122

TestAmerica Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Redevelopment 193704595

TestAmerica Job ID: 500-118334-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-355322/2-A
Matrix: Water
Analysis Batch: 355418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355322

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	77		30 - 123
Nitrobenzene-d5 (Surr)	87		33 - 139
Terphenyl-d14 (Surr)	104		42 - 150

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-355523/1-A
Matrix: Water
Analysis Batch: 355732

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 355523

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.44		1.0	0.44	ug/L		10/11/16 08:53	10/11/16 16:12	1

Lab Sample ID: LCS 500-355523/2-A
Matrix: Water
Analysis Batch: 355732

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 355523

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	103		ug/L		103	80 - 120

Lab Sample ID: 500-118334-1 MS
Matrix: Water
Analysis Batch: 355732

Client Sample ID: MW1800
Prep Type: Dissolved
Prep Batch: 355523

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	38		100	140		ug/L		103	75 - 125

Lab Sample ID: 500-118334-1 MSD
Matrix: Water
Analysis Batch: 355732

Client Sample ID: MW1800
Prep Type: Dissolved
Prep Batch: 355523

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	38		100	146		ug/L		108	75 - 125	4	20

Lab Sample ID: 500-118334-1 DU
Matrix: Water
Analysis Batch: 355732

Client Sample ID: MW1800
Prep Type: Dissolved
Prep Batch: 355523

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	38		37.0		ug/L		2	20

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelopment 193704595

TestAmerica Job ID: 500-118334-1

Client Sample ID: MW1800

Date Collected: 10/06/16 12:30

Date Received: 10/08/16 09:50

Lab Sample ID: 500-118334-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			355523	10/11/16 08:53	JEF	TAL CHI
Dissolved	Analysis	6020A		1	355732	10/11/16 17:09	PFK	TAL CHI

Client Sample ID: MW2000

Date Collected: 10/06/16 11:30

Date Received: 10/08/16 09:50

Lab Sample ID: 500-118334-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			355322	10/10/16 07:41	JJH	TAL CHI
Total/NA	Analysis	8270D		1	355418	10/10/16 21:48	GES	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Redevelopment 193704595

TestAmerica Job ID: 500-118334-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-17

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING


2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: Evan Weber
Company: Stantec
Address: 1165 Scheuring Road
De Pere, WI 54115
Phone: 920-592-8400
Fax: 920-592-8444
E-Mail: evan.weber@stantec.com

Bill To (optional)
Contact: ← Same
Company: _____
Address: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-118334
Chain of Custody Number: _____
Page 1 of 1
Temperature °C of Cooler: 27

Client		Client Project #		Preservative		Parameter		Matrix		 Preservative Key Cool to 4° Cool to 4° Cool to 4° Cool to 4° 500-118334 COC	Comments
Project Name		Lab Project #		Date		Time		PAH	Arsenic		
Project Location/State		Sampler		# of Containers		Matrix					
<u>Stantec</u>		<u>193704595</u>									
<u>MCABI-Tyco Redevelopment</u>											
<u>Marinette, Wisconsin</u>											
<u>Evan Weber</u>											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	PAH	Arsenic			
<u>1</u>		<u>MW1800</u>	<u>10/6/16</u>	<u>1230</u>	<u>1</u>	<u>W</u>		<u>X</u>			<u>Field filtered</u>
<u>2</u>		<u>MW2000</u>	<u>10/6/16</u>	<u>1130</u>	<u>2</u>	<u>W</u>	<u>X</u>				

Turnaround Time Required (Business Days)
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months
 (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Evan J. Weber</u>	Company <u>Stantec</u>	Date <u>10/7/16</u>	Time	Received By <u>Cheryl Saunby</u>	Company <u>TA</u>	Date <u>10/8/16</u>	Time <u>09:50</u>	Lab Counter
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Shipped <u>FX SATURDAY</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Hand Delivered

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Sol
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments:
Fastest turn with no cost increase.

Lab Comments:

10194

10500

FedEx Package
Express US Airbill

FedEx Tracking Number 8108 1333 1150

Form ID No. 0215

MUR 1

1 From

Date 10/7/16

Sender's Name Evan Weber Phone 920 397-8400

Company Startec Consulting Services, Inc.

Address 1165 Schenning Road Dept./Floor/Suite/Room

City De Pere State WI ZIP 54115

2 Your Internal Billing Reference

3 To

Recipient's Name SAMPLE RECEIPT Phone 708 534-5200

Company TESTAMERICA CHICAGO LAB

Address 2417 BOND ST Dept./Floor/Suite/Room

Address UNIVERSITY PARK State IL ZIP 60484-3101

0124628627



8108 1333 1150



4 Express Package Service *To most locations. Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day	2 or 3 Business Days
<input type="checkbox"/> FedEx First Overnight Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.	<input type="checkbox"/> FedEx 2Day Second business day Saturday Delivery
<input checked="" type="checkbox"/> FedEx Priority Overnight Next business morning. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.	<input type="checkbox"/> FedEx 2Day Second business day. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
<input type="checkbox"/> FedEx Standard Overnight Next business afternoon. Saturday Delivery NOT available.	<input type="checkbox"/> FedEx Express Saver Third business day. Saturday Delivery NOT available.

5 Packaging *Declared value limit \$500.

FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

Saturday Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day AM, or FedEx Express Saver.

No Signature Required
Package may be left without obtaining a signature for delivery.

Direct Signature
Someone at recipient's address may sign for delivery.

Indirect Signature
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?
One box must be checked.

No Yes As per attached Shipper's Declaration Yes Shipper's Declaration not required Dry Ice Dry Ice, UN 1845 x kg

Restrictions apply for dangerous goods — see the current FedEx Service Guide. Cargo Aircraft Only

7 Payment Bill to:

Enter Fed Ex Acct. No. or Credit Card No. below. Obtain recip. Acct. No.

Sender Acct. No. in Section 1 will be billed. Recipient Third Party Credit Card Cash/Check

Total Packages 142 Total Weight [REDACTED] Credit Card Auth. [REDACTED]

lbs. [REDACTED]

or liability is limited to US\$100 unless you declare a higher value. See the current FedEx Service Guide for details.

© 2015 FedEx. Form ID No. 0215. Printed in U.S.A. SRM

500-118334 Waybil

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 500-118334-1

Login Number: 118334

List Source: TestAmerica Chicago

List Number: 1

Creator: Sanchez, Ariel M

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

EVAN WEBER
STANTEC
1165 SCHEURING ROAD
DE PERE WI 54115

Report Date 26-Apr-17

Project Name MCABI
Project # 193704595

Invoice # E32778

Lab Code 5032778A
Sample ID MW1800
Sample Matrix Water
Sample Date 4/13/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Arsenic, Dissolved	38.9	ug/L	3.5	11.5	5	7060A		4/17/2017	CWT	1 49
Organic										
PAH SIM										
Acenaphthene	< 0.016	ug/l	0.016	0.05	1	M8270C	4/19/2017	4/26/2017	NJC	1
Acenaphthylene	< 0.019	ug/l	0.019	0.061	1	M8270C	4/19/2017	4/26/2017	NJC	1
Anthracene	< 0.019	ug/l	0.019	0.062	1	M8270C	4/19/2017	4/26/2017	NJC	1
Benzo(a)anthracene	< 0.017	ug/l	0.017	0.054	1	M8270C	4/19/2017	4/26/2017	NJC	1
Benzo(a)pyrene	< 0.02	ug/l	0.02	0.065	1	M8270C	4/19/2017	4/26/2017	NJC	1
Benzo(b)fluoranthene	< 0.018	ug/l	0.018	0.058	1	M8270C	4/19/2017	4/26/2017	NJC	1
Benzo(g,h,i)perylene	< 0.025	ug/l	0.025	0.081	1	M8270C	4/19/2017	4/26/2017	NJC	1
Benzo(k)fluoranthene	< 0.016	ug/l	0.016	0.05	1	M8270C	4/19/2017	4/26/2017	NJC	1
Chrysene	< 0.02	ug/l	0.02	0.065	1	M8270C	4/19/2017	4/26/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.025	ug/l	0.025	0.078	1	M8270C	4/19/2017	4/26/2017	NJC	1
Fluoranthene	< 0.017	ug/l	0.017	0.053	1	M8270C	4/19/2017	4/26/2017	NJC	1
Fluorene	< 0.021	ug/l	0.021	0.066	1	M8270C	4/19/2017	4/26/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.023	ug/l	0.023	0.074	1	M8270C	4/19/2017	4/26/2017	NJC	1
1-Methyl naphthalene	0.0275 "J"	ug/l	0.024	0.076	1	M8270C	4/19/2017	4/26/2017	NJC	1
2-Methyl naphthalene	0.067 "J"	ug/l	0.024	0.075	1	M8270C	4/19/2017	4/26/2017	NJC	1
Naphthalene	0.062 "J"	ug/l	0.025	0.081	1	M8270C	4/19/2017	4/26/2017	NJC	1
Phenanthrene	< 0.025	ug/l	0.025	0.081	1	M8270C	4/19/2017	4/26/2017	NJC	1
Pyrene	< 0.02	ug/l	0.02	0.063	1	M8270C	4/19/2017	4/26/2017	NJC	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code ***Comment***

- 1 Laboratory QC within limits.
- 49 Sample diluted to compensate for matrix interference.
 CWT denotes sub contract lab - Certification #445126660

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature



A handwritten signature in blue ink, appearing to read "Michael J. Paul", is written over a horizontal line.

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

JEFF BRAND
STANTEC
1165 SCHEURING ROAD
DE PERE WI 54115

Report Date 06-Jul-17

Project Name MARINETTE
Project # 193704595

Invoice # E33201

Lab Code 5033201A
Sample ID MW 1800
Sample Matrix Water
Sample Date 6/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic Metals										
Arsenic, Dissolved	48.3	ug/L	3.5	11.5	5	7060A		7/3/2017	CWT	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code **Comment**

1 Laboratory QC within limits.

CWT denotes sub contract lab - Certification #445126660

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature



CHAIN OF CUSTODY RECORD REQUEST FOR ANALYSIS

Check office originating request

954 Circle Drive
 Green Bay, WI 54304
 920-592-8400
 FAX 920-592-8444

330 South 4th Avenue
 Park Falls, WI 54552
 715-762-1544
 Fax 715-762-1844

85 Revere Drive, Suite H
 Northbrook, IL 60062
 847-562-8577
 FAX 847-562-8552

3349 Southgate Court SW #102
 Cedar Rapids, IA 52404
 319-365-0466
 FAX 319-365-0464

210 South Highway 141, Suite D
 Crivitz, WI 54114
 715-854-3360
 FAX 715-854-3361

12075 Corporate Pkwy, Suite 210
 Mequon, WI 53092
 262-241-3133
 FAX 262-241-8222

1203 Storbeck Drive
 Waupun, WI 53963
 920-324-8600
 FAX 920-324-3023

815 Sheldon Avenue
 Houghton, MI 49931
 906-483-2100
 FAX 906-483-2104

1213 Center St., Suite A
 Lansing, MI 48906
 517-702-0470
 FAX 517-702-0477

315 Sanborn Avenue, Suite 200
 Ashland, WI 54806
 715-682-1116
 Fax 715-682-1118

1165 Scheuring Rd
 De Pere, WI 54115

Project No: <u>193704595</u> Task No: _____		Laboratory: <u>Synergy</u>		Sample Integrity - To be completed by receiving lab											
Project Location: (city) <u>Marinette</u>		Wisconsin DNR Certification #: <u>445037560</u>		Seal intact upon receipt <input checked="" type="checkbox"/> yes <input type="checkbox"/> no											
Project Manager: <u>Lynelle Caine</u>		Laboratory Contact: <u>Mike Ricker</u>		Method of shipment <u>ICE</u>											
Sampler: (name) <u>Jeff Brand</u>		Price Quote: _____		Contents Temperature _____ °C Refrigerator No. _____											
Sampler: (Signature) <u>Jeff Brand</u>		TURNAROUND TIME REQUIRED <input type="checkbox"/> Normal <input checked="" type="checkbox"/> Rush		ANALYSES REQUESTED DRO (WI Modified Method) _____ GRO (WI Modified Method) _____ BETX (EPA Method 8020) _____ PVOC (EPA Method 8020) _____ VOC (EPA Method 8021) _____ PAH (EPA Method _____) _____ Pb (EPA Method _____) _____ <u>X Dis Arsenic</u>											
Sampling Date(s): <u>6-30-17</u>															
Reports to be Sent to: <u>Jeff.brand@stantec.com</u>		Date Needed: <u>7-5-17</u>													
Lab ID No.	Sample No.	Collection		No. of Containers, Size & Type	Description			Preservative	DRO (WI Modified Method)	GRO (WI Modified Method)	BETX (EPA Method 8020)	PVOC (EPA Method 8020)	VOC (EPA Method 8021)	PAH (EPA Method _____)	Pb (EPA Method _____)
		Date	Time		Water	Soil	Other								
<u>50320</u>	<u>HW1800</u>	<u>6-30-17</u>	<u>1400</u>	<u>1-500ml</u>	<u>X</u>			<u>HNO3</u>							
Packed for Shipping by: <u>Jeff Brand</u>		Comments: <u>* Fastest Turn</u>													
Shipment Date: <u>6-30-17</u>															
Relinquished By: <u>Jeff Brand</u>		Date: <u>6-30-17</u>		Relinquished By: _____			Date: _____			Relinquished By: _____			Date: _____		
Company: <u>Stantec</u>		Time: <u>15:25</u>		Company: _____			Time: _____			Company: _____			Time: _____		
Received By: <u>[Signature]</u>		Date: <u>6/30/17</u>		Received By: _____			Date: _____			Received By: _____			Date: _____		
Company: <u>SEL</u>		Time: <u>6/30/17</u>		Company: _____			Time: _____			Company: _____			Time: _____		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-136517-1
Client Project/Site: MCABI - Tyco Property - 193704595

For:
Stantec Consulting Corp.
1165 Scheuring Road
De Pere, Wisconsin 54115

Attn: Mr. Jeff Brand



Authorized for release by:
11/14/2017 10:21:04 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	5
Sample Summary	6
Client Sample Results	7
Definitions	9
QC Association	10
QC Sample Results	11
Chronicle	12
Certification Summary	13
Chain of Custody	14
Receipt Checklists	16

Case Narrative

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Property - 193704595

TestAmerica Job ID: 500-136517-1

Job ID: 500-136517-1

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-136517-1**

Comments

Sample 3 cancelled at the request of the client.

Receipt

The samples were received on 10/31/2017 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.8° C.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Field Service / Mobile Lab

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Property - 193704595

TestAmerica Job ID: 500-136517-1

Client Sample ID: MW1800

Lab Sample ID: 500-136517-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.5		1.0	0.23	ug/L	1		6020A	Dissolved

Client Sample ID: TW2100

Lab Sample ID: 500-136517-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	66		1.0	0.23	ug/L	1		6020A	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



Method Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Property - 193704595

TestAmerica Job ID: 500-136517-1

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Property - 193704595

TestAmerica Job ID: 500-136517-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-136517-1	MW1800	Water	10/27/17 11:43	10/31/17 08:45
500-136517-2	TW2100	Water	10/27/17 10:50	10/31/17 08:45

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Property - 193704595

TestAmerica Job ID: 500-136517-1

Client Sample ID: MW1800

Date Collected: 10/27/17 11:43

Date Received: 10/31/17 08:45

Lab Sample ID: 500-136517-1

Matrix: Water

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.5		1.0	0.23	ug/L		10/31/17 16:00	11/01/17 12:19	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Property - 193704595

TestAmerica Job ID: 500-136517-1

Client Sample ID: TW2100

Date Collected: 10/27/17 10:50

Date Received: 10/31/17 08:45

Lab Sample ID: 500-136517-2

Matrix: Water

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	66		1.0	0.23	ug/L		10/31/17 16:00	11/01/17 12:29	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Property - 193704595

TestAmerica Job ID: 500-136517-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Property - 193704595

TestAmerica Job ID: 500-136517-1

Metals

Prep Batch: 407849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136517-1	MW1800	Dissolved	Water	3005A	
500-136517-2	TW2100	Dissolved	Water	3005A	
MB 500-407849/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-407849/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-136517-1 MS	MW1800	Dissolved	Water	3005A	
500-136517-1 MSD	MW1800	Dissolved	Water	3005A	
500-136517-1 DU	MW1800	Dissolved	Water	3005A	

Analysis Batch: 407977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136517-1	MW1800	Dissolved	Water	6020A	407849
500-136517-2	TW2100	Dissolved	Water	6020A	407849
MB 500-407849/1-A	Method Blank	Total Recoverable	Water	6020A	407849
LCS 500-407849/2-A	Lab Control Sample	Total Recoverable	Water	6020A	407849
500-136517-1 MS	MW1800	Dissolved	Water	6020A	407849
500-136517-1 MSD	MW1800	Dissolved	Water	6020A	407849
500-136517-1 DU	MW1800	Dissolved	Water	6020A	407849

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: MCABI - Tyco Property - 193704595

TestAmerica Job ID: 500-136517-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-407849/1-A
Matrix: Water
Analysis Batch: 407977

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 407849

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		10/31/17 16:00	11/01/17 12:15	1

Lab Sample ID: LCS 500-407849/2-A
Matrix: Water
Analysis Batch: 407977

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 407849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	105		ug/L		105	80 - 120

Lab Sample ID: 500-136517-1 MS
Matrix: Water
Analysis Batch: 407977

Client Sample ID: MW1800
Prep Type: Dissolved
Prep Batch: 407849

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	6.5		100	116		ug/L		110	75 - 125

Lab Sample ID: 500-136517-1 MSD
Matrix: Water
Analysis Batch: 407977

Client Sample ID: MW1800
Prep Type: Dissolved
Prep Batch: 407849

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	6.5		100	116		ug/L		109	75 - 125	0	20

Lab Sample ID: 500-136517-1 DU
Matrix: Water
Analysis Batch: 407977

Client Sample ID: MW1800
Prep Type: Dissolved
Prep Batch: 407849

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	6.5		6.27		ug/L		4	20

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Property - 193704595

TestAmerica Job ID: 500-136517-1

Client Sample ID: MW1800

Date Collected: 10/27/17 11:43

Date Received: 10/31/17 08:45

Lab Sample ID: 500-136517-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			407849	10/31/17 16:00	BDE	TAL CHI
Dissolved	Analysis	6020A		1	407977	11/01/17 12:19	FXG	TAL CHI

Client Sample ID: TW2100

Date Collected: 10/27/17 10:50

Date Received: 10/31/17 08:45

Lab Sample ID: 500-136517-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			407849	10/31/17 16:00	BDE	TAL CHI
Dissolved	Analysis	6020A		1	407977	11/01/17 12:29	FXG	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: MCABI - Tyco Property - 193704595

TestAmerica Job ID: 500-136517-1

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-18

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: Jeff Brand
Company: Stantec
Address: 1165 Schreving Rd
Address: DePue Wc 54115
Phone: 920-592-8400
Fax: 920-592-8444
E-Mail: Jeff.brand@stantec.com

Bill To (optional)
Contact: SAME
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-136517
Chain of Custody Number: _____
Page 1 of 1
Temperature °C of Cooler: 1.8



Client		Client Project #		Preservative		Parameter													
mCABI				HNO ₃															
Project Name		mCABI - Tyco Property		Parameter															
Project Location/State		Marinette WI		Lab Project #															
Sampler		Jeff Brand		Lab PM															
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	Arsenic												Comments
			Date	Time															
1		MW1800	10-27-17	1143	1	W	X												Sample Filtered
2		TW2100	↓	1050	1	W	X												Sample Filtered
3		SA104	↓	953	1	S	X												* Hold Sample *

- Preservative Key
1. HCL, Cool to 4°
 2. H2SO4, Cool to 4°
 3. HNO3, Cool to 4°
 4. NaOH, Cool to 4°
 5. NaOH/Zn, Cool to 4°
 6. NaHSO4
 7. Cool to 4°
 8. None
 9. Other

Turnaround Time Required (Business Days)
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>Jeff Brand</u>	Company: <u>Stantec</u>	Date: <u>10/30/17</u>	Time: <u>10:00</u>	Received By: <u>Jim K</u>	Company: <u>TA</u>	Date: <u>10/31/17</u>	Time: <u>0845</u>	Lab Courier	<input type="checkbox"/>
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Shipped	<input checked="" type="checkbox"/>
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Hand Delivered	<input type="checkbox"/>

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments
 * Hold Sample for analysis until notified to proceed.

Lab Comments:

1070
7076

FedEx Package
Express **US Airbill**

FedEx Tracking Number **8066 0692 8561**

0215 Recipient's Copy

1 From

Date _____

Sender's Name _____ Phone **708 534-5200**

Company _____

Address _____ Dept./Floor/Suite/Room _____

City _____ State **IL** ZIP **60484**

2 Your Internal Billing Reference

3 To

Recipient's Name **SAMPLE RECEIPT** Phone **708 534-5200**

Company **TESTAMERICA CHICAGO**

Address **2417 BOND ST** Dept./Floor/Suite/Room _____
We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address _____
Use this line for the HOLD location address or for continuation of your shipping address.

City **UNIVERSITY PARK** State **IL** ZIP **60484-3101**

HOLD Weekday
FedEx location address
REQUIRED. NOT available for
FedEx First Overnight.

HOLD Saturday
FedEx location address
REQUIRED. Available ONLY for
FedEx Priority Overnight and
FedEx 2Day to select locations.

4 Express Package Service *Declared value limit \$500.
*Service not available in some areas. Please select carefully.

Next Business Day

FedEx First Overnight
Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx Priority Overnight
Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx Standard Overnight
Saturday Delivery NOT available.

2 or 3 Business Days

FedEx 2Day AM
Second business morning.* Saturday Delivery NOT available.

FedEx 2Day
Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx Express Saver
Saturday Delivery NOT available.

5 Packaging *Declared value limit \$500.

FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options

SATURDAY Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

No Signature Required
Packages may be left without attaching a signature for delivery.

Direct Signature
Someone at recipient's address may sign for delivery. *Fee applies.*

Indirect Signature
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. *For residential deliveries only. Fee applies.*

Does this shipment contain dangerous goods?

No **Yes** as per attached Shipper's Declaration. **Yes** Shipper's Declaration not required.

Dry Ice Dry Ice, # UN 1845 _____ x _____ kg

Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No.

Sender Acct. No. in Section (will be billed) Recipient Third Party Credit Card Cash/Check

Total Packages _____ Total Weight _____ lbs. Credit Card Auth. _____

TDN: _____

Net. Date 7-17-2017 163134 • ©1994-2017 FedEx • PRINTED IN U.S.A. SNS



500-136517 Waybill

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 500-136517-1

Login Number: 136517

List Source: TestAmerica Chicago

List Number: 1

Creator: Kelsey, Shawn M

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	