2017 Annual Monitoring Report
RCRA Corrective Action
IND 980 700 801

2915 Dr. Martin Luther King Jr. Boulevard, Anderson, IN
Revitalizing Auto Communities Environmental Response Trust

Indiana Department of Environmental Management

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List of Acronyms/Short Forms

1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-dichloroethene
mg/L	milligrams per liter
AOC	Area of Concern
AOI	Areas of Interest
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene and xylenes
cis-1,2-DCE	cis-1,2-dichloroethene
CM	corrective measures
CMP	Corrective Measures Proposal
CRA	Conestoga-Rovers and Associates
DCE	dichloroethene
DO	dissolved oxygen
ENVIRON	ENVIRON International Corporation
EPA	United States Environmental Protection Agency
FEMA	Federal Emergency Management Agency
GMC	General Motors Corporation
HRC®	hydrogen release compound
ID	identification
IDEM	Indiana Department of Environmental Management
IDW	investigative derived waste
IM	interim measure
MCL	Maximum Contaminant Level
MLK	Martin Luther King Junior
NA	natural attenuation
NAVD	North American Vertical Datum
ORP	oxidation reduction potential

RACER	Revitalizing Auto Communities Environmental Response
RCGSL	Remediation Closure Guide Screening Levels
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RHHRA	Human Health Risk Assessment and Derivation of Site-Specific Risk-based Screening Levels Report
SWMU	Solid Waste Management Unit
TCE	trichloroethene
TCL	target compound list
TOC	total organic carbon
trans-1,2-DCE	trans-1,2-dichloroethene
U.S.	United States
VOC	volatile organic compound
WWTP	wastewater treatment plant

1. Introduction

GHD, on behalf of the Revitalizing Auto Communities Environmental Response (RACER) Trust, has prepared this 2017 Annual Monitoring Report (Report) for the RACER Trust facility located at 2915 Dr. Martin Luther King Junior (MLK) Boulevard in Anderson, Indiana (Site).

This Report has been prepared to summarize the results of groundwater and surface water monitoring conducted at and near the Site in 2017. This Report is submitted to the Indiana Department of Environmental Management (IDEM) in support of ongoing Resource Conservation and Recovery Act (RCRA) Corrective Action at the Site. The monitoring was conducted pursuant to:

- The Site-wide Groundwater Monitoring Plan (AECOM, October 28, 2010)
- Subsequent recommendations made in the 2010 Annual Groundwater Monitoring Report (AECOM, January 2011)
- Request for modifications to the Site-wide Groundwater Monitoring Plan (Conestoga-Rovers and Associates [CRA], April 2012)
- Conclusions presented in the 2013 Annual Groundwater Monitoring Report (CRA, February 2014)
- Recommendations made in the 2014 Annual Groundwater Monitoring Report (CRA, February 2015)
- Recommendations made in the 2016 Annual Groundwater Monitoring Report (GHD, January 31, 2017)
- Recommendations made by IDEM from 2015 through to 2017.

1.1 Objectives

The Site-wide groundwater monitoring program was intended to be implemented concurrent to the final corrective measures (CM) at the Site. As such, the primary objectives of the Site-wide groundwater monitoring are to:

1. Evaluate the effectiveness of the CM, if any, for groundwater
2. Monitor the stability of the two volatile organic compound (VOC) groundwater plumes

As final CM have not been formalized to date and are expected to include long-term monitoring of groundwater quality, this Report has been prepared to present a stability analysis of the VOC plumes as updated with 2017 data. As appropriate, this Report supplements findings of the Final RCRA Facility Investigation (RFI) Report (CRA, June 2014) and the previous annual groundwater monitoring reports (Earth Tech, Inc. and ENVIRON International Corporation [ENVIRON], January 31, 2007; Earth Tech, Inc., January 31, 2008; AECOM, February 27, 2009, April 26, 2010, January 31, 2011, and January 31, 2012; CRA February 2013, January 2014 and February 2015; GHD January 2016 and January 2017). It is noted that the historical information in this Report is largely cited from the 2011 Annual Groundwater Monitoring Report (AECOM, 2012), prepared by others.

2. Groundwater Monitoring Overview

2.1 Site Description

The Site is located in the northwest quarter of Section 23, T19N, R7E, on the southwest side of Anderson, Madison County, Indiana. Formerly the Site was comprised of approximately 3,000,000 square feet of manufacturing operations situated on 234 acres. MLK Boulevard divides the Site in a north-south direction. General Motors Corporation (GMC) previously conducted automotive parts manufacturing operations in plants on both sides of MLK Boulevard. The former east manufacturing areas (Plants 6 and 9) are bounded by MLK Boulevard on the west, by a railroad on the south, by 29th Street on the north, and by Madison Avenue on the east. The manufacturing facilities west of MLK Boulevard, referred to as the Main Plant, were bounded on the west, south and southeast by railroad tracks, and on the north by 25th Street. Facility parking areas were located west of the westernmost railroad, and north of 25th Street. Formerly developed areas of the property were largely covered with asphalt or concrete. Land use surrounding the Site varies from residential and commercial on the north and east, residential and recreational on the south, and residential and agricultural on the west. A small public-access park is located in the northwest part of the Site. The Meadowbrook Golf Course is located southeast of the Site. A Site location map is provided on Figure 1 and a Site plan is provided on Figure 2.

GMC began operations at the MLK Boulevard facility in 1929. Manufacturing plants were expanded several times, generally proceeding from the north end of the Main Plant southward and eastward. East of MLK Boulevard, Plant 9 construction commenced in 1969, and building additions were performed in 1973, 1977, 1981, 1985, 1986 and 1989. Manufacturing operations on the Site ceased in 2006. All facilities west of MLK Boulevard were demolished during the period of late 2007 to early 2009. The demolition included the removal of all concrete building slabs and many areas of pavement around the Main Plant. Following demolition, the area was regraded and covered with varying thicknesses of crushed concrete. A soil and vegetative cover were applied during the summer of 2009. The southern portion of the former Main Plant is now an open field. The northern portion of the former Main Plant building was divested and redeveloped as a plastic injection molding plant in 2015.

The former Plant 6 and 9 properties and a lot east of Madison Avenue were sold soon after related manufacturing operations ceased in 1997. The remaining portions of the property were held by GMC until its bankruptcy in June 2009. The RACER Trust was created in March 2011 by the United States (U.S.) Bankruptcy Court to clean up and position for redevelopment certain properties and other facilities owned by former GMC before the 2009 bankruptcy. With the exception of Tract B (North), the remaining portions of the Site that were held by GMC until its bankruptcy in June 2009 are currently owned by RACER Trust. The Site boundary, historical operational areas, and Areas of Interest (AOIs) / Areas of Concern (AOCs) are shown on Figure 3.

2.2 Hydrologic Setting

2.2.1 Physiography

The Site is situated in the New Castle Till Plains and Drainage ways Section of the Central Till Plain Region as described by Gray (2000). This area was affected by multiple continental glaciations that deposited a thick blanket of glacial sediments over the bedrock. The New Castle Till Plains and Drainage ways Section is primarily underlain by complexly stratified glacial diamict deposits, glaciofluvial sand and gravel deposits and glaciolacustrial silt and clay deposits. The area is characterized by broad plains of low relief crossed by relict glacial meltwater valleys (2011 Annual Groundwater Monitoring Report, AECOM, January 31, 2012).

2.2.2 Stormwater/Surface Water Drainage

The Site area is nearly level with elevations ranging from 860 to 880 feet North American Vertical Datum (NAVD) 88. East of MLK Boulevard the elevation is lowest, and the surface elevation descends into a relict glacial meltwater valley. Former Plant 9, Plant 6, and the Meadowbrook Golf Course are all located in the relict meltwater valley, the western border of which roughly follows the alignment of MLK Boulevard. This valley trends south-southwest from Anderson, Indiana several miles towards Pendleton, Indiana (Brown and others, 2003). A small channelized stream, Stanley Ditch, occupies the north end of the relict meltwater valley and drains westward along the south boundary of the Meadowbrook Golf Course. Stanley Ditch originally flowed to the north between former Plant 6 and Plant 9 but was diverted southward in 1963 to provide stormwater relief for the City of Anderson combined sewer system. As a result, Stanley Ditch is now tributary to Prairie Creek and flows to the south down the trend of the valley to Pendleton, Indiana where it joins Fall Creek, a tributary to the West Fork White River.

Stormwater run-off from paved areas of the property either infiltrates the ground surface or is directed to the combined sewer system that discharges north to the City of Anderson Publicly Owned Treatment Works on the West Fork White River. The combined sewer system flows northward across the Meadowbrook Golf Course property and beneath former Plant 9 up the trend of the relict meltwater channel. Stormwater on the northern portion of the Meadowbrook Golf course property is directed through piping, and discharges to ponds. Stormwater in the southern portion of the Meadowbrook property drains southward toward Stanley Ditch that flows along the southern and eastern property boundaries of the golf course.

A drainage divide between Stanley Ditch and Prairie Creek, draining to the south, and the combined sewer system, draining north to West Fork White River, appears to occur near the south side of former Plant 9, perhaps near and along the South Anderson Cutoff railroad embankment. Areas to the south of the railroad embankment, including most of the Meadowbrook Golf Course, are floodway and floodway fringe areas subject to flooding (Federal Emergency Management Agency [FEMA], February 18, 1994). (2011 Annual Groundwater Monitoring Report, AECOM, January 31, 2012).

2.2.3 Hydrogeology

Figure 4 presents a generalized, schematic east-west hydrogeologic cross-section of the unconsolidated materials at the Site showing monitoring well completion intervals. The unconsolidated deposits range from less than 20 feet to over 160 feet in thickness and overlie an irregular bedrock surface. Bedrock beneath the Site consists of carbonate rocks of Silurian age. The bedrock topography beneath the Site slopes to the northwest into a pre-glacial bedrock valley. The bedrock is high (above 840 foot elevation) in the southern portion of the former Plant 9 area and at the Meadowbrook Golf Course. Bedrock is generally only about 20 feet below ground surface (bgs) in this area as a result of both the high bedrock elevation and low ground surface elevation in the relict meltwater valley area east of MLK Boulevard. To the northwest, the bedrock elevation descends to below 730 foot elevation at former groundwater production well 11 and the bedrock in this area is in excess of 158 feet bgs.

Detailed hydrogeologic cross-sections are presented in both the Stage II RFI Data Report (Earth Tech, March 30, 2005) and the RFI Final Report (Earth Tech and ENVIRON, September 28, 2007). Five distinct geologic units are recognized in the unconsolidated surficial soil materials. These units are identified from top to bottom as Units 1 to 5.

Unit 1 is a heterogeneous fill material consisting of silty clay loam, silty clay, sandy clay, sandy clay loam, and loam texture soil intermixed, in places, with debris consisting of wood, brick, glass, brick, concrete, coal fragments, and cinders. The unit consists of fill material placed at various times during the developmental history of the property and is generally no more than a few feet in thickness. In places, the lower portion of the Unit 1 fill is saturated and a localized perched groundwater zone occurs. The clayey diamicts in the underlying Unit 2 confining unit cause this perched groundwater condition. Saturated conditions have been observed in the basal portion of Unit 1 in several shallow AOC 1 – South Court Area soil borings.

Unit 2 is a glacial diamict of silty clay loam, silty clay, and loam texture with occasional thin, interbedded sand and gravel deposits. Sand and gravel lithologies make up a small percentage of the unit. Unit 2 is thin in southern and eastern parts of the Site, but thickens to the north and west.

Unit 3 consists of stratified sand and gravel and forms the uppermost aquifer beneath the Site. In places, a diamict occurs within Unit 3 and is identified as the Unit 3 Confining Bed. At some locations the confining bed is represented by a distinctive silty texture and laminated structure. The confining bed is hydrologically significant because it separates the Unit 3 aquifer into an upper portion (Unit 3S) and lower portion (Unit 3D). Unit 3 is generally only 10 to 20 feet thick in the eastern part of the Site beneath the meltwater valley. The unit thickens appreciably in the western part of the area where it forms the major portion of the unconsolidated deposits.

Unit 3 is almost entirely within the phreatic zone and is the uppermost aquifer unit at the Site. Groundwater may exist in the unit under both confined and unconfined conditions. Where the base of Unit 2 is relatively high in elevation, the upper few feet of Unit 3 are unsaturated, and unconfined conditions occur. At locations where the base of Unit 2 is relatively low in elevation the top of Unit 3 is saturated, and confined conditions occur.

Conceptually, Unit 3 may be divided into an upper (Unit 3S) and lower (Unit 3D) part. In those places where there is no physical separation between the upper and lower parts of the unit provided

by the Unit 3 Confining Bed, the designations 3S and 3D merely provide a convenient way to refer to the upper and lower portions of the Unit 3 aquifer, and the monitoring wells completed therein. Where a physical separation occurs due to the presence of the Unit 3 Confining Bed, Unit 3S refers to that portion of the aquifer above the confining layer and Unit 3D refers to that portion below the confining layer. Locally, the Unit 3 Confining Bed induces a downward vertical gradient within the Unit 3 aquifer. Where the confining bed is absent, water levels in Units 3S and 3D are comparable.

The lateral groundwater gradient in Unit 3S is directed to the east-northeast in AOC 1 - South Court Area. Locally there are significant variations in the magnitude and direction of the gradient related, in part, to the presence or absence of the Unit 3 Confining Bed. An east-southeast oriented potentiometric trough in Unit 3S persistently occurs in the vicinity MW 40, MW 42, and MW 68 where the confining bed is absent. In this area groundwater flow in Unit 3S appears to be directed easterly into the relict meltwater valley.

The hydraulic gradient for Unit 3D is more consistent and the potentiometric surface for this unit suggests an eastward gradient in the South Court Area and along MLK Boulevard into the relict meltwater valley. The north-northeast / south-southwest oriented relict meltwater valley at former Plant 9 and the Meadowbrook Golf Course appears to induce a hydraulic gradient to the south along its axis. Contaminants in the lower portion of Unit 3 would be expected to move generally eastward and then southward near the former wastewater treatment plant (WWTP) area.

Unit 4 consists of hard diamict of loam or clay loam texture. The unit forms a confining bed between Unit 3 and Silurian carbonate bedrock. The unit is absent from the eastern part of the area at Plant 9 and portions of the adjacent Meadowbrook Golf Course.

Two deep bedrock borings at the north end of the Site (MW 62 and MW 71) encountered a bed of cobbles above the bedrock surface. This zone is referred to as Unit 5. The unit was encountered at no other locations. (2011 Annual Groundwater Monitoring Report, AECOM, January 31, 2012).

2.3 Previous Groundwater Investigations

The following sections summarize groundwater investigations that have been conducted at the Site. Monitoring wells on and adjacent to the Site have been installed at various times. The earliest Site wells (MW 1 to MW 17) were installed in 1992 and 1993 for the purposes of evaluating a suspected waste oil leak at Area 1 – Former Waste Oil Tank [Solid Waste Management Unit (SWMU) 16]. The longest monitoring history exists for these wells. Most of the 1992 / 1993 wells were installed in Unit 3S. No evidence of a significant waste oil leak was found at SWMU 16, but elevated concentrations of VOCs, primarily trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride were detected in several wells in this area. These wells are now known to be located in and around a source area for the Area 1 – South Court VOC plume (Section 2.4).

Work associated with RFI Stage I in 2000 to 2001 included installation of 20 new monitoring wells (MW 18 to MW 37) and collection of 85 groundwater samples from new and existing wells. The new wells were completed in Units 1, 3S, and 3D. The Stage I investigations partially delineated a groundwater VOC plume extending north and east from AOC 1 - South Court. This plume was found to lie underneath several previously-defined AOIs and was referred to as Area 1. The Stage I RFI investigations identified concentrations of TCE, cis-1,2-DCE, and vinyl chloride above screening criteria based on state and federal Maximum Contaminant Levels (MCLs). A Stage I RFI

report was completed in 2001, and this report included a work plan for additional groundwater delineation work in both on and off-Site areas (Earth Tech and ENVIRON, July 31, 2001).

In 2001 a Phase II Environmental Site Assessment was conducted in the north parking area and three monitoring wells (MW1-01 to MW3-01) were installed. Groundwater concentrations, where detected, were detected below IDEM's criteria. TCE, cis-1,2-DCE and vinyl chloride were not detected in groundwater samples collected.

Stage II RFI investigations began in late 2003. Work associated with the Stage II RFI in 2003 to 2005 included installation of 47 monitoring wells (MW 38 to MW 84) and collection of 182 groundwater samples from both new and existing wells. Area 1 was expanded to include Plant 9 as well as off-Site areas including Meadowbrook Golf Course. Seven wells (MW-1 to MW-7) were installed on the golf course by others in 2003. Sampling of MW-4 in October 2003 indicated that high concentrations of cis-1,2-DCE and vinyl chloride were present. Additional wells (MW 56, MW 57, MW 58, MW 77, and MW 85) were installed by GMC on the golf course in 2004 and 2007 to delineate the VOC plume southeast of MW-4. These and other RFI Stage II monitoring wells delineated the concentrations of TCE, cis-1,2-DCE, and vinyl chloride above MCLs both on and off-Site (Earth Tech and ENVIRON, September 28, 2007).

Three additional monitoring wells (MW 86, MW 87, and MW 88) were installed on the Plant 9 property in October 2010 to provide additional downgradient plume delineation. One well was installed downgradient of MW49 (MW89-11) in 2011 to provide additional downgradient plume delineation in proximity to nearby residential land use. In 2012 and 2013, three monitoring wells (MW90-12, MW91-12, and MW92-13) were installed near a recently identified AOI referred to as former Bay M26/M27 to assess groundwater quality in the vicinity of the AOI, not previously investigated. In 2013, four monitoring wells (MW 93-13 to MW 96-13) were installed to delineate the lateral extent of groundwater impacts at the perceived source area for the former WWTP Area plume.

In 2014, one monitoring well (MW97-14) was installed to delineate groundwater impacts beneath the Meadowbrook Golf Course. However, MW 97-14 was decommissioned and replaced in May 2016 (MW 97R-16) at a nearby location to facilitate easier lawn maintenance at the request of the property owner.

Seventeen monitoring wells (MW 1-01, MW2-01, MW3-01, MW 11, MW 24, MW 25, MW 34, MW35, MW 52, MW 53, MW 54, MW 55, MW 69, MW 70, MW 71, MW 72, and MW 73) north and west of the former main manufacturing areas, upgradient of the VOC plumes, and not a part of the IDEM approved GMP were abandoned in March and April 2014 following approval from IDEM (VFC # 69789483).

From October 2005 until October 2007 GMC conducted quarterly monitoring of a selected group of monitoring wells according to an interim Site-wide groundwater monitoring plan (CRA, September 20, 2005). This work was conducted for nine consecutive quarters ending in October 2007. Summary results from this monitoring were provided in the 2006 and 2007 Annual Groundwater Monitoring Reports (Earth Tech and ENVIRON, January 31, 2007, January 31, 2008) and an additional round of groundwater monitoring was conducted in February 2008.

The interim monitoring program was replaced by a Site-wide Groundwater Monitoring Plan associated with the draft Final Corrective Measures Proposal (CMP) for the Facility. This program consists of semiannual sampling at a modified well list with sampling of two surface water monitoring points on the Meadowbrook Golf Course conducted three times per year. The sampling plan for this program (AECOM, October 28, 2010) was approved by the IDEM on November 24, 2010. Sampling under this program has been conducted since June 2008. (2011 Annual Groundwater Monitoring Report, AECOM, January 31, 2012).

2.4 Area 1 – South Court And Related Areas

The groundwater contaminant plumes at the Site are associated with Area 1 – South Court and Related Areas. Previous isoconcentration maps for Unit 3 suggest there are two separate VOC plumes. One plume is associated with Area 1 – South Court. The AOC 1 – South Court plume extends in a northeast direction from the South Court beneath several SWMUs in the former Main Plant building area. The predominant VOC contaminants detected in this area are TCE, cis-1,2-DCE, and vinyl chloride. The highest reported concentrations of TCE in this plume are found in the South Court at MW 3 (Unit 3S) and MW 15 (Unit 3S). Perched groundwater in Unit 1 appears to serve as a source area for VOC contaminants in Unit 3. These VOC contaminants are present in both the 3S and 3D portions of Unit 3, but concentrations are generally higher in the upper portion of the unit.

A separate plume is located along and east of MLK Boulevard. Historically the primary evidence for separation of this plume from the AOC 1 – South Court plume comes from five Unit 3S wells located between the plumes where VOCs have not been detected, or detected at only very low levels (MW 17, MW 46, MW 59 and MW 84). The VOC plume east of MLK Boulevard extends from an apparent source near MW 68 and the former WWTP along MLK Boulevard eastward toward former Plant 9 and the Meadowbrook Golf Course. The plume has migrated to the south to at least MW 57 and MW 85 on the golf course. This plume is referred to as the former WWTP Area plume. The predominant VOC constituents detected in this area are cis-1,2-DCE and vinyl chloride. TCE is only a minor plume component.

2.5 Interim Measures

GMC implemented three interim measures (IMs) related to soil and groundwater at the Site. One interim measure included the removal of soil in the area of MW 31 associated with AOC 1 – South Court that contained TCE concentrations that were an order of magnitude greater than the soil concentrations in other portions of the area. In addition to removing the soil in this area, perched groundwater in Unit 1 fill was treated with hydrogen release compound (HRC®) as a source control measure for TCE, cis-1,2-DCE, and vinyl chloride in Unit 1 and the underlying Unit 3 groundwater. During the IM, monitoring well MW 31 completed in the fill soil was removed. Following the IM, a replacement well (MW 31R) was installed at the former MW 31 well location.

The second interim measure implemented by GMC included the abandonment of two potable wells at the Meadowbrook Golf Course and subsequent connection of the golf course to municipal water supply. In addition, GMC and the owners of the Meadowbrook Golf Course entered into an access agreement that prohibited the use of groundwater under the golf course property. The agreement allowed the use of surface water from a pond on the property for irrigation purposes. Samples from

this pond are regularly collected and analyzed for VOCs. As part of the CMs for the Site, RACER Trust will file an Environmental Restrictive Covenant with the owners of the Meadowbrook Golf Course restricting groundwater use under the golf course property.

The third interim measure implemented by GMC included the abandonment and plugging of five former groundwater production wells on Site. This work was completed during the period April 30 to September 4, 2007 in accordance with Indiana Department of Natural Resources well abandonment rules (312 IAC 13). Abandonment activities included electrical disconnect, pump motor and pump column removal, and well grouting. The work followed a written work plan for well abandonment (Earth Tech, July 27, 2006) and was conducted by a licensed State of Indiana water well drilling contractor. The work is summarized in an Earth Tech memorandum dated November 16, 2007. (2011 Annual Groundwater Monitoring Report, AECOM, January 31, 2012).

3. 2017 Activities

3.1 Groundwater and Surface Water Monitoring

Groundwater and surface water monitoring activities were conducted in 2017 in general accordance with the Site-wide Groundwater Monitoring Plan, as modified. The Site-wide groundwater monitoring program includes 40 monitoring wells sampled annually with a subset of these wells sampled semi-annually. The surface water monitoring program includes sampling the Meadowbrook Golf Course Irrigation Pond during the spring, summer, and fall seasons. A summary of the Site-wide groundwater monitoring program is provided in Table 1. Monitoring well construction details are provided in Table 2.

3.1.1 Hydraulic Monitoring

Water level measurements were collected during the April and October 2017 monitoring events. During the April 2017 event, water levels were generally collected from accessible monitoring wells included in the Site-wide groundwater monitoring program. During the October 2017 event, water levels were collected from all accessible monitoring wells and at the Pond North location. Some monitoring wells were not gauged during either event as they could not be located or were not accessible. The static groundwater elevations measured during the April and October 2017 monitoring events are summarized in Table 3, along with previous groundwater elevations measured in October 2016 for comparative reference.

3.1.2 Groundwater Quality Monitoring

There are currently 40 wells included in the Site-wide groundwater monitoring program as summarized in Table 1. Semi-annual groundwater monitoring was conducted by GHD between April 17 and 19, 2017. Annual groundwater monitoring was conducted by GHD between October 3 and 19, 2017. A sample key summarizing the groundwater samples collected during the April and October 2017 monitoring events is provided in Table 4.

In the 2016 Annual Groundwater Monitoring Report, GHD recommended that sampling for natural attenuation (NA) parameters continue on an annual basis to assist in evaluating remedial

alternatives for both VOC plumes. During the October 2017 sampling event, NA parameters were collected from 16 monitoring wells (MW-2, MW 3, MW-4, MW 8, MW 15, MW 21, MW 31R, MW 40, MW 57, MW 58, MW 64, MW 66, MW 68, MW 79, MW 85, and MW 89-11). The NA parameters included dissolved oxygen (DO), oxidation reduction potential (ORP), ferrous iron and pH measured in the field and laboratory analysis of alkalinity (bicarbonate and carbonate), chloride, dissolved gases (ethane, ethene, methane), dissolved manganese, dissolved organic carbon, hardness, nitrate, nitrite, sulfate, sulfide, and total organic carbon (TOC).

Prior to groundwater sample collection, the monitoring wells were purged using a submersible pump and low flow purge techniques to remove suspended solids, reduce turbidity, and allow visual observation of sample color. Field parameters including conductivity, DO, ORP, pH, temperature, and turbidity were recorded. No color consistent with electroplating operations was observed during purging activities. Groundwater samples were collected using a submersible pump and low flow sampling techniques. Groundwater samples, including field duplicate and matrix spike/matrix spike duplicate samples, were submitted to TestAmerica for chemical analysis of target compound list (TCL) VOCs using analytical method 8260B. Well stabilization parameters recorded by GHD are provided in Table 5.

3.1.3 Surface Water Sampling

Surface water samples were collected by GHD on April 18, July 12, and October 19, 2017 from the central irrigation pond located southeast of MW-85 on the Meadowbrook Golf Course. Samples were collected near the irrigation water intake (Pond Intake) and also from a location closest to MW-85 (Pond North). Surface water samples, were submitted to TestAmerica for chemical analysis of TCL VOCs using analytical method 8260B.

3.1.4 Sampling Protocol

Monitoring well and surface water samples collected were assigned a unique sample identification (ID) number. Sample ID numbers were recorded in a field book with the corresponding sample location.

All monitoring well samples were collected using low-flow submersible pumps that are dedicated to the project and well-specific dedicated Teflon-lined pump discharge tubing. All non-consumable equipment that contacted groundwater was decontaminated in accordance with the Field Method Guidelines contained in the Site-wide Groundwater Monitoring Plan. Consumable equipment (tubing) and personal protective equipment were appropriately disposed of off-Site.

Investigative derived waste (IDW) generated from purge and decontamination activities was containerized in an on-Site bulk polyethylene tank. A non-hazardous waste profile for the IDW was developed in October 2017. The IDW was removed from the Site for appropriate off-Site disposal on December 1, 2017 by Waste Management.

3.1.5 Deviations from the Site-wide Groundwater Monitoring Plan

All monitoring wells included in the Site-Wide Groundwater Monitoring Plan were gauged in accordance with the Site-Wide Groundwater Monitoring Plan. As in the past, GHD collected water

level data from approximately 30 monitoring wells not included in the Site-wide Groundwater Monitoring Plan to provide additional potentiometric details across the Site.

As detailed in Section 3.2, monitoring well MW 76 was replaced (MW 76R-17) and was sampled in October 2017.

MW 49 could not be sampled during the April or October 2017 sampling events as it was covered by a pile of rail ties. Down gradient monitoring wells MW 46 and MW 89-11 were sampled in 2017 and the results are consistent with historical results.

3.2 Monitoring Well Replacement Activities

As detailed in the 2016 Annual Groundwater Monitoring Report (GHD, January 31, 2017), monitoring wells MW 75 and MW 76 were covered with 1- to 2-feet of gravel during construction activities completed by others in 2015 during redevelopment of Tract B (North). In May 2016, MW 75 was located and repaired, however MW 76 could not be found despite multiple attempts to locate the well. As such, MW 76 was replaced (MW 76R-17) on October 5, 2017 and resurveyed on November 3, 2017. The stratigraphic log for MW 76R-17 is provided in Appendix A. Minor well repairs were also completed to on- and off-Site monitoring wells in October 2017. Monitoring wells that required riser repairs were re-surveyed on November 3, 2017 (i.e., MW 18, MW 19, MW 41, MW 42 and MW 75).

4. Potentiometric Surface Mapping

The groundwater elevations measured during the April and October 2017 monitoring events are summarized in Table 3, along with previous groundwater elevations measured in October 2016 for comparative reference. Water levels measured during the April event were generally higher than those measured in October.

Based on the October 2017 groundwater elevations, GHD developed potentiometric groundwater contours for Unit 3S, Unit 3D, and the bedrock units as shown on Figures 5 to 7, respectively.

The groundwater contours representative of the October 2017 Unit 3S data are provided on Figure 5. The groundwater elevation contour map indicates that there is a general northeasterly gradient beneath the central and northern portions of the former Main Plant building. Beneath the southern portion of the former Main Plant, groundwater flow is variable. Data from the October event again indicates the presence of a prominent groundwater mound, or ridge in Unit 3S that extends in a north-south arc from the MW 46 area on the south to about MW 29 on the north. As discussed in previous annual reports, this groundwater high appears to separate the AOC-1 South Court and WWTP Area plumes. The AOC-1 South Court plume extends beneath the former Main Plant building and affects several monitoring wells including, from south to north, MW 79, MW 60, and MW 51. In contrast, historically the Unit 3S monitoring wells along the arc including MW 46, MW 84, MW 59, and MW 29 have not shown any significant VOC contamination.

The groundwater contours representative of October 2017 Unit 3D data are provided on Figure 6. The groundwater elevation contour map indicates that there is a general easterly gradient across

the west portion of the Site and a predominantly western gradient across the east portion of the Site into the Meltwater Valley.

The groundwater contours representative of the October 2017 bedrock unit data are provided on Figure 7. The groundwater elevation contour map indicates that there is an easterly gradient in the bedrock unit across the Site.

5. Analytical Results

The sample key (Table 4) summarizes the groundwater and surface water monitoring conducted in 2017. The laboratory certificates of analysis are provided in Appendix B. The 2017 VOC laboratory analytical data generated from the groundwater and surface water sampling have been summarized in Table 6 and Table 7, respectively. Analytical data from all sampling events between 2013 and 2017 are presented on Figure 8 (on-Site) and Figure 9 (off-Site). Excluding chlorobenzene, styrene, and tetrachloroethene, the VOC parameter list shown on Figure 8 and Figure 9 includes any VOC that has exceeded conservative screening criteria at any well or surface water location during any sampling event. As noted in previous annual reports, chlorobenzene, styrene, and tetrachloroethene were detected in one June 2008 groundwater sample at MW 40 (WG-062608-JD-007) at concentrations over the drinking water criteria. Chlorobenzene and styrene have only been detected in this one sample, and the reported concentrations of 0.15 milligrams per liter (mg/L) (with qualifier J – estimated value below reporting limit) and 0.14 mg/L (also with qualifier J), respectively, are only slightly higher than the drinking water criteria of 0.1 mg/L. Both results were well below the sample reporting limit of 1.0 mg/L. Tetrachloroethene has been detected in only one groundwater sample at the Site since 2008. This detected concentration (0.43 mg/L with qualifier J in the June 2008 MW 40 sample) exceeded the drinking water criteria of 0.005 mg/L. Again the reported concentration of 0.43 mg/L was well below the sample reporting limit of 1.0 mg/L. Chlorobenzene, styrene, and tetrachloroethene were not detected in the subsequent events. For these reasons, chlorobenzene, styrene, and tetrachloroethene are not included in Figure 8 or Figure 9.

TCE, cis-1,2-DCE and vinyl chloride remain the primary constituents associated with the AOC 1 – South Court and WWTP Area VOC plumes. Isoconcentration maps for TCE, cis-1,2–DCE and vinyl chloride are presented on Figures 10 through 12, respectively.

Data verification and validation reports for the analytical data collected during the 2017 Site-wide Groundwater Monitoring Plan activities were completed by GHD and are provided in Appendix C. Based on the verification and validation reports, the 2017 data is acceptable for use with the qualifications noted. During the April monitoring event, cis-1,2-DCE was present at low concentration in one rinse blank sample. As such, an associated sample with a similar cis-1,2-DCE result was qualified as non-detect. During the October monitoring event, acetone and methylene chloride were present in laboratory method blanks at low concentrations. Associated sample results with concentrations similar to the blanks were qualified as estimated due to potential laboratory contamination. Also during the October monitoring event, acetone and methylene chloride were present at low concentrations in one rinse blank sample and one trip blank sample. As such, associated samples with similar acetone and methylene chloride results were qualified as non-detect. During the October monitoring event, a laboratory control sample analyses of chloroethane

showed very low recovery of less than ten percent. Associated sample results were non-detect and were rejected based on the analytical accuracy demonstrated.

5.1 Risk-Based Screening

A conservative risk-based screening was performed on the groundwater and surface water data collected during the Site-wide groundwater monitoring program in 2017. The data were compared to IDEM's Remediation Closure Guide Screening Levels (RCGSL) and conservative risk-based screening criteria based on potential exposure scenarios that were evaluated in CRA's Refined Human Health Risk Assessment and Derivation of Site-Specific Risk-based Screening Levels Report (October 2013) (RHHRA).

The groundwater monitoring data collected from areas where current and reasonably expected future land use is commercial/industrial were screened against the following: 1) IDEM RCGSLs - Vapor Exposure Commercial/Industrial Criteria and 2) Site-specific Commercial/Industrial Tap Water Use Criteria. Derivation of the Site-specific screening criteria is presented in RHHRA. Monitoring wells screened against these criteria are shown on Figure 8.

Groundwater data collected from areas where current and reasonably expected future land use is not commercial/industrial were screened against the following: 1) IDEM RCGSLs - Residential Tap Water Criteria; 2) IDEM RCGSLs - Vapor Exposure Residential Criteria; 3) IDEM RCGSLs - Vapor Exposure Commercial/Industrial Criteria; 4) Site-specific Recreator (Resident Swimming Pool) Criteria; 5) Site-specific Commercial/Industrial Tap Water Use Criteria. Sampling points screened against these criteria are shown on Figure 9.

5.2 AOC 1 – South Court Plume

The AOC 1 – South Court plume contains elevated concentrations of TCE and cis-1,2-DCE with the greatest TCE concentrations in monitoring wells near the AOC 1 - South Court source area (i.e., MW 3 and MW 15).

Historically, increasing trends have been identified at some wells in the South Court plume. Monitoring wells MW 49, MW 51 and MW 79 have exhibited historically increasing trends in the concentration of cis-1,2-DCE. MW 51 has also exhibited an increasing trend in vinyl chloride. As detailed in Section 3.1.5, MW 49 was not accessible during the 2017 sampling events. Downgradient of MW 49 (east-northeast and east), MW 46 and MW 89-11 were either free of detected VOC concentrations or exhibited only very low concentrations of VOCs, respectively. The concentration of cis-1,2-DCE at on-Site monitoring well MW 79 remained relatively unchanged when the 2016 and 2017 results were compared.

In October 2017, the extent of the AOC 1 – South Court plume remained defined on the east side, with the exception of MW 16, with non-detect results for all VOC constituents at monitoring wells MW 37, MW 46 and MW 84. For the first time cis-1,2-DCE and vinyl chloride were detected at east boundary monitoring well MW 16. At the north perimeter boundary of the AOC 1 – South Court plume MW 75 installed in the deep portion of the Unit 3 was free of detected VOC concentrations. Replacement monitoring well MW 76R-17, screened in the shallow portion of the Unit 3 aquifer and adjacent to MW 75, exhibited very low concentrations of cis-1,2-DCE.

5.3 Former WWTP Area Plume

Monitoring wells in the former WWTP Area plume area contain elevated concentrations of primarily cis-1,2-DCE and vinyl chloride.

Historically increasing trends have been identified in several monitoring wells in the former WWTP Area plume. Most of the increasing trends relate to cis-1,2-DCE and vinyl chloride however, a historically increasing trend in the concentration of TCE is also observed at the source area at MW 68 and downgradient monitoring wells MW-4 and MW 40.

Cis-1,2-DCE concentrations are increasing at perimeter monitoring wells MW 28, MW 66 and MW 85 and bedrock monitoring well MW 81. Vinyl chloride concentrations are increasing at monitoring well MW 41, northeast of the source area, perimeter monitoring wells MW 28, MW 58, MW 64, MW 66, MW 88 and bedrock monitoring wells MW 81 and MW 83.

In October 2017, the southern and northern extents of the WWTP plume remained defined with perimeter monitoring wells MW-2, MW 56, MW 61, MW 86, MW 88, and MW97R-16 that were free of detected concentrations of VOCs (MW 56, MW 61, MW 86 and MW 97R-16) or contained very low concentrations of VOCs (MW-2 and MW 88).

5.4 Extent of Groundwater Contamination

Figure 10 to Figure 12 show the isoconcentrations of the principal VOC constituents TCE, cis-1,2-DCE and vinyl chloride, respectively, in groundwater for hydrogeologic Unit 3. These isoconcentration maps are based on October 2017 data and update those contained in the 2016 Annual Groundwater Monitoring Report (GHD, January 31 2017). The October 2017 data for each well are shown on the maps with non-detect results presented as half of the reporting limit.

Since the Unit 3S confining unit is absent in the area of former Plant 9 and portions of the Meadowbrook Golf Course, and Unit 3 is relatively thin in these areas, the VOC data from wells in these areas may be shown on the Unit 3S isoconcentration maps. Combining data in this manner provides a useful portrayal of the former WWTP Area plume from its apparent source in the upper part of Unit 3 near MW 68 to its tail area occurrences at former Plant 9 and Meadowbrook Golf Course.

The isoconcentration maps continue to suggest that there are two separate VOC plumes. One plume is associated with AOC 1 – South Court and the second plume is derived from an apparent source area near MW 68. Historically the plumes have been separated by a series of Unit 3S wells where VOCs have not been detected, or have been detected only at very low levels (MW 17, MW 29, MW 37, MW 46, MW 59 and MW 84). This was confirmed in 2013 with the sampling of monitoring wells MW29, MW 37, MW 46, MW 59, and MW 84, the results of which were non-detect for VOCs. However, in October 2017 cis-1,2-DCE and vinyl chloride were detected at east boundary monitoring well MW 16. MW 16 will be sampled in 2018 to confirm that the 2017 result is not an anomaly. A persistent groundwater ridge in Unit 3S occurs along this line of wells, and this mound appears to serve as a hydraulic barrier separating the two plume areas.

The AOC 1 – South Court plume in Unit 3S extends in a northeast direction from AOC 1 – South Court. The eastward extent of the plume appears to be limited by the groundwater mound noted in

the preceding paragraph. The plume has historically been bounded to the north by MW 76 with marginal detections of cis-1,2-DCE and vinyl chloride below the reporting limit and at estimated quantities. In 2017, cis-1,2-DCE was detected at MW 76R-17 above but on the same order of magnitude as the reporting limit and three orders of magnitude below the screening level. Vinyl chloride was not detected at MW 76R-17.

In 2015 GHD completed a plume stability analysis (GHD, August 12, 2015) that indicated that the AOC 1- South Court plume has changed little in planar plume area, average concentration, and plume mass, despite the presence of degradation products, which is consentient with recent groundwater monitoring results and indicates that the plume is stable.

The former WWTP Area plume extends eastward from the apparent source area near MW 68 towards former Plant 9 and has migrated to the east to the vicinity of MW 64 and MW 66 and to the southeast to the vicinity of MW 57, MW 58 and MW 85. This VOC plume is composed primarily of cis-1,2-DCE and the highest reported concentrations occur in a series of monitoring wells from the source area (MW 68) southeast to the Meadowbrook Golf Course irrigation pond (MW 40, MW-4, and MW 85).

Prior to July 2006, MW 68, located just west of MLK Boulevard generally had the highest cis-1,2-DCE concentration in this plume and is inferred to be closest to the VOC source area. From December 2006 until April 2009 the highest cis-1,2-DCE concentration was generally found downgradient at MW 40. From December 2009 until October 2015, the highest cis-1,2-DCE concentration has generally been found at MW-4 downgradient of MW 40. In 2016 and 2017 the highest cis-1,2-DCE concentration was found at MW 85 downgradient of MW-4, as indicated on the current isoconcentration map. This trend is consistent with the findings in the plume stability analysis completed as part of the Supplemental Analysis in Support of the CMP (GHD, August 12, 2015). The plume stability analysis concluded that TCE equivalent is decreasing in concentration and mass, while increasing in plume area advancing downgradient along the predominant flow direction.

The northeastern extent of the WWTP Area plume is established by MW 86 and MW 88 where VOCs are non-detect or, where detected, are detected at low concentrations below applicable screening levels and no recent increasing concentration trends are noted.

Vinyl chloride and TCE are subordinate components of the former WWTP Area plume. TCE is a relatively minor component even in the source area of this plume. The highest reported concentrations for vinyl chloride occur downgradient at MW-4, MW 40, and MW 85. The east edge of the former WWTP Area plume is marked by persistent occurrences of vinyl chloride in Unit 3D wells MW 58, MW 64, and MW 66. However, a westerly groundwater flow direction east of these wells prevents further vinyl chloride migration to the east.

The WWTP Area plume extends vertically to bedrock monitoring wells MW 81 and MW 83, the extents of which are not currently known.

5.5 Surface Water

Cis-1,2-DCE, trans-1,2-dichloroethene (trans-1,2-DCE), TCE and vinyl chloride were detected at surface water monitoring locations Pond North and Pond Intake during one or more surface water

sampling events conducted in 2017. The detected concentrations of vinyl chloride at the Pond North and Pond Intake sampling locations exceeded the relevant screening criteria (i.e., recreator). No other parameters were detected above relevant screening criteria at surface water monitors Pond North or Pond Intake. Historically increasing trends have been identified for the Pond North and Pond Intake locations for cis-1,2-DCE and vinyl chloride.

6. MNA Evaluation

During the October 2017 sampling event, groundwater samples were collected and analyzed for NA parameters at 16 monitoring wells including ten on-Site monitoring wells (MW 3, MW 8, MW 15, MW 21, MW 31R, MW 40, MW 64, MW 66, MW 68 and MW 79) and six off-Site monitoring wells (MW-2, MW-4, MW 57, MW 58, MW 85 and MW 89 11). These groundwater samples were analyzed for alkalinity, chloride, nitrate, sulfate, sulfide, TOC, DO, ORP, pH, ethane, ethene, and methane. NA data from 2013 to 2017 are presented on Figure 13.

The NA sample results were evaluated to determine if biodegradation of VOCs is occurring and if conditions at the Site are conducive for continued biodegradation to occur. A scoring system developed by the U.S. Environmental Protection Agency (EPA) in their "Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water" (Technical Protocol) (U.S. EPA, 1998) was used to evaluate the conditions relevant to the South Court Area and former WWTP Area plumes. The AOC 1 – South Court plume was assessed using the wells within and near the South Court area (MW 3, MW 8, MW 15, and MW 79). The former WWTP Area plume was assessed using results from wells associated with its extents (MW 68, MW 40, MW-4, MW 57, MW 58, MW 64, MW 66, and MW 85). The locations selected for the NA evaluation represent conditions at different locations within the plume and along the flow path.

6.1 Natural Attenuation Processes

Microorganisms in the subsurface can biodegrade chlorinated VOCs under reducing conditions via reductive dechlorination. If the natural aquifer condition is aerobic, an increase in reducing conditions in the source area relative to background conditions indicates more microbial activity, and therefore, biodegradation. For the most robust biodegradation of chlorinated VOCs to occur, conditions in the source zone should be sulfate-reducing or methanogenic.

A key indicator of biodegradation is the presence of daughter products at monitoring wells within the groundwater plume. Cis-1,2-DCE and vinyl chloride are the anaerobic biodegradation products of TCE. Vinyl chloride and chloride are the anaerobic biodegradation products of cis-1,2-DCE. Under anaerobic conditions, vinyl chloride can undergo further biodegradation to form ethene. Chloride, ethane, and ethene are the ultimate biodegradation products of all of the chlorinated ethenes under reducing conditions. 1,1,1-trichloroethane will biodegrade to 1,1-dichloroethane via the same processes under reducing conditions. An assessment of the degradation products observed at the Site is part of the score card evaluation.

In order to rank the evidence for biodegradation, the U.S. EPA score card assigns values for the redox conditions of the plume and the presence of daughter products. Points may also be gained or lost if conditions are especially favorable or unfavorable for microbial activity (i.e., pH and

temperature). The final score is given for the plume as a whole. In accordance with the Technical Protocol, the score for each NA parameter is determined by comparing the background condition for that parameter against the most favorable value measured in the plume. The most favorable reducing conditions typically occur in the most contaminated zone(s). For example, if a location in the source zone has concentrations of methane greater than 0.5 mg/L, then the plume would receive the associated score (3 points), even if other locations in the plume have lower methane concentrations. In accordance with the Technical Protocol, the individual scores for each NA parameter are summed to provide the total points awarded for each plume. Based on the total points awarded, the evidence for anaerobic biodegradation is defined as inadequate, limited, adequate, or strong.

The results of the screening process are provided in Table 8 and indicate that there is adequate evidence for anaerobic biodegradation of chlorinated organics at the former WWTP Area Plume and strong evidence for anaerobic biodegradation of chlorinated organics at the AOC 1 – South Court Plume.

6.2 Assessment Results

Historically, background conditions in geologic Units 3S and 3D range from aerobic to anoxic. Conditions at upgradient well MW 21 have historically been generally aerobic, with higher field readings of DO and ORP. In 2017, DO and ORP values at MW 21 were much lower than those measured in previous years, and are more indicative of anoxic or reducing conditions, which is consistent with conditions found throughout the rest of the wells within the Units.

Nitrate was not detected at MW 21 in 2017 but has been detected at low levels in both MW 21 and MW 89-11 historically, indicating only slightly reducing conditions may exist, as nitrate is the next electron acceptor to be utilized by bacteria after oxygen has been depleted.

Low concentrations of methane were detected in MW 21 in 2017 and in both background wells historically, indicating that reducing conditions are probably present upgradient from both background wells.

Because background conditions appear somewhat reducing, the evaluation of an increase in microbial activity within the source area (biodegradation of chlorinated compounds) will rely more on the presence of degradation products than on changes in redox conditions in the aquifer.

Daughter products of TCE, cis-1,2-DCE and vinyl chloride, were detected at various on-Site locations, and their concentrations were usually greater than other VOCs, particularly in the former WWTP Area plume. The elevated presence of cis-1,2-DCE and vinyl chloride within the groundwater plume provides direct evidence that TCE is being degraded via reductive dechlorination. The relative ratios of dichloroethene (DCE) isomers are also used to provide information regarding the origin of DCE in groundwater. There are three DCE isomers: 1,1-dichlorethene (1,1-DCE), cis-1,2-DCE, and trans-1,2-DCE. When DCE is released to the environment anthropogenically, the ratios of the three isomers are relatively equal. However, when DCE is produced through biodegradation of TCE, production of the cis-1,2-DCE isomer is favored over that of trans-1,2-DCE and 1,1-DCE (Wiedemeier et al., 1999; Wiedemeier et al., 1996). At the Site, the concentrations of cis-1,2-DCE are greater than those of the other DCE isomers, providing strong evidence that the DCE has been produced via biodegradation of TCE.

The highest ethene concentration (4.7 mg/L) was detected at monitoring well MW 31R. This provides evidence that the reductive dechlorination of TCE is occurring to completion in the Unit 1 (perched) groundwater, likely facilitated by the introduction of the HRC® around MW 31R in 2005. These compounds release lactic acid over time, which enhances biological degradation by maintaining reducing conditions. This location was not included in the screening of the AOC 1 – South Court plume due to the active remediation measures implemented to reduce concentrations in the source zone.

When there are readily available sources of carbon in the aquifer, biodegradation can proceed more intensively. Neither plume met criterion for concentrations of TOC (20 mg/L) or benzene, toluene, ethylbenzene and xylenes (BTEX) (0.1 mg/L) in the groundwater; however, the detection limits for the BTEX compounds were higher, in many cases, than the criteria for the scorecard, likely due to elevated concentrations of chlorinated compounds.

Background conditions were required for the relative assessment of alkalinity and chloride. When large amounts of chlorinated VOCs are degraded, chloride and alkalinity increase above background concentrations. Alkalinity can increase due to microbial activity, as the carbon dioxide produced interacts with rock in the subsurface, dissolving carbonate minerals. Chloride is a daughter product of biodegraded chlorinated VOCs. Data collected from wells unimpacted by VOCs (MW-2, MW 21, and MW 89-11) were used to calculate the mean background concentrations of alkalinity (357 mg/L) and chloride (31 mg/L). Concentrations of alkalinity have not exceeded double the mean background conditions, either on-Site or downgradient. Background concentrations are relatively high and may mask contributions to alkalinity from microbial activity. The concentration of chloride was more than double the background concentrations in the WWTP plume at MW 85.

When evaluating the monitoring wells in the AOC 1 – South Court plume on a well-by-well basis, monitoring well MW 8 in the source area demonstrated good evidence for anaerobic biodegradation. Higher concentrations of ethene and ethane were detected at MW 8, demonstrating the complete degradation of TCE. Concentrations of 1,1-dichloroethane (1,1-DCA) were also detected at MW 3 and MW 15, which is evidence of the biodegradation of 1,1,1 trichloroethane in the South Court plume source area. Monitoring well MW 49 was inaccessible in 2017, and therefore, no sample was collected.

The monitoring locations near the source area of the former WWTP plume (MW 40 and MW 68) and those immediately downgradient (MW-4 and MW 85) demonstrated good evidence of anaerobic biodegradation. Concentrations of cis-1,2-DCE, vinyl chloride, and ethene were present, as well as 1,1-DCA. Concentrations of chloride at MW 85 were two times the background value; an indication of upgradient biodegradation.

Ethene, ethane, and methane were detected at most sampled locations, including those near the source areas and closer to the edge of the plumes. This suggests that reductive dechlorination is proceeding to completion in at least some areas of both plumes.

In summary, results of the preliminary U.S. EPA score sheet screening shown in Table 8 indicate that there is adequate evidence that natural attenuation of VOCs is occurring via reductive biodegradation in the former WWTP Area plume and there is strong evidence that natural attenuation of VOCs is occurring via reductive biodegradation in the AOC 1 – South Court plume.

7. Statistical Analysis

The required statistical data evaluation is presented in Section 4 of the Site-Wide Groundwater Monitoring Plan (Monitoring Plan, AECOM, 2010) and includes the following required elements:

- The statistical evaluation is to be conducted to determine whether the contaminant plumes are stable (i.e., not increasing over time).
- The principal VOC compounds to be considered in the evaluation are TCE, cis-1,2-DCE and vinyl chloride.
- The evaluation of stability is to be carried out using the Mann-Kendall trend test following IDEM Risk Integrated System of Closure guidance (IDEM, February 15, 2001). Notably:
  - A minimum of 4 samples is required to perform the trend test.
  - A minimum detection frequency of 75 percent is required to perform the trend test.
  - Non-detects should be assigned a value below the lowest detected value in the data set.
  - Any field duplicate results should be averaged prior to carrying out statistical testing.
- Trend testing is to be carried out using a significance level of (α) 0.10 (i.e., 90 percent confidence).
- A one-tailed trend test is to be performed (i.e., testing for increases only), using the following statistical hypotheses:
  - Null (no effect) hypothesis (H0) = there is no trend or a decreasing trend in chemical concentrations over time.
  - Alternative hypothesis (HA) = there is an increasing trend over time in chemical concentrations.

The following subsections describe the specific approaches used in carrying out the statistical data evaluation. The data considered in the trend tests are presented in concentration vs. time graphs and tabular format in Appendix D.

7.1 Mann-Kendall Test

Methods for statistical trend testing of groundwater quality data are discussed in Section 4.3 of U.S. EPA (2006), Chapter 12 of Helsel & Hirsch (USGS, 2002) and other relevant guidance and reference texts. The evaluation of trends in environmental data is often complicated by factors such as seasonality in data, outlying (grossly atypical) data points, the presence of censored (non-detect) data, small data sets (due to the relatively high costs associated with sample collection and analysis, particularly for trace concentration analyses) and non-linearity in any patterns present through time. Different tests exist, which balance the statistical power of detecting trends against susceptibility to outliers, deviations from model assumptions (e.g., linearity) and the ability to incorporate non-detect data into the analyses.

The Mann-Kendall trend test is suitable for general application across a variety of environmental data applications. This test is non-parametric (rank-based) and, therefore, robust with respect to

outlying observations. The Mann-Kendall test neither assumes a particular data distribution (e.g., normal) nor data pattern tested (e.g., linear trend), but rather tests for a monotonic (single-direction) trend in the data over time. Although the test is not as powerful as parametric tests are under optimal conditions, its wide range of applicability makes it a good candidate for use when testing numerous data sets where the effort required for detailed characterization and selection of specific trend tests on a case-by-case basis is not appropriate.

As specified in the Groundwater Monitoring Plan, the Mann-Kendall trend test was used to evaluate the principal VOC monitoring data for the presence of temporal trends. Computational details for the test may be found in Section 4.3.4.1 of U.S. EPA (2006). The test was applied for data sets containing up to 25 percent non-detects using a one-tailed formulation and a significance level of 0.1, as described above.

Trend tests were carried out separately for each principal VOC at each monitoring well with sufficient temporal data to perform the Mann-Kendall test.

One assumption of the Mann Kendall trend test is that subsequent samples are reasonably equally spaced through time. In the VOC data sets considered, this assumption was generally well met, with regular monitoring having occurred on a consistent basis through time at most of the wells. However, it was noted that at wells MW 15 and MW 21, as well as in Pond Intake and Pond North locations, there was a change in sampling frequency in the monitoring record. Where sampling was more frequent, sampling events that did not correspond to the current monitoring program were excluded from the trend test. In addition, wells MW 15 and MW 21 had large temporal gaps in the monitoring record, therefore, additional testing was performed using group comparison tests (another method presented in Chapter 12 of USGS, 2002) to evaluate whether the presence of these gaps could be obscuring the detection of significant trends. Parametric Student's t-tests were carried out comparing recent (2013 – 2017) to historical (2005 – 2008) data.

It was noted in six cases, TCE at MW 31R and MW 68 and vinyl chloride at MW 3, MW 49, MW 51 and MW 65, non-detect results were present at somewhat-elevated detection limits above the majority of the detected values. In such cases, the comparison of non-detect and detected values is ambiguous (i.e., it cannot be assigned with certainty that the non-detect results are above or below the detected values). In these cases, trend testing was performed excluding the non-detect results, as noted in the table of results in Table 9. Current statistical guidance (e.g., U.S. EPA, 2013) would recommend that any detected values lower than the maximum detection limit for a non-detect be "censored" to that detection limit (i.e., all lower values be considered as non-detects). However, doing so would have reduced the detection frequency to much less than the 75 percent required in the Groundwater Monitoring Plan, and therefore carrying out the trend tests using detected values only permits an appropriate assessment with minimal information loss (i.e., removing a few ambiguous non-detects vs. censoring the majority of the data). In other cases, detection frequencies were close to 75 percent, and non-detects were observed in an earlier period. In order to provide a test result, non-detects were excluded from the evaluation, as noted in the table of results in Table 9. These cases are listed below:

- TCE at MW-4, MW 12, and MW 40
- Cis-1,2-DCE at MW 28, MW 66, MW 81, Pond Intake and Pond North

- Vinyl chloride at MW 83, Pond Intake and Pond North

7.2 Outlier Testing

Prior to carrying out trend tests, each data set was screened for the presence of statistical outliers. An outlier is an observation that differs substantially (atypically) from the rest of the population.

Outliers may be identified by graphical or statistical methods. U.S. EPA (2006, 2009) recommends The Extreme Value Test (Dixon's Test) for testing for outliers in data sets containing up to 25 points (the upper limit of this procedure), or Rosner's Test for data sets containing more than 25 points. Both outlier tests consider both extreme low values and extreme high values. An important element of assessing outliers is identifying the underlying data distribution of a particular data set prior to performing the test. The data may follow a normal (Gaussian) distribution, in which case the original (untransformed) data are subjected to the outlier test. However, if a data set follows another statistical distribution, (i.e., gamma or lognormal) the data must be transformed prior to using Dixon's or Rosner's tests. In testing data distributions for the principal VOC data sets considered, the Shapiro Wilk W Test (U.S. EPA, 2006, 2009) was applied using original, cube root-transformed [approximating the gamma distribution (USGS, 2002)], and log transformed data sets.

Consistent with the requirements of the Groundwater Monitoring Plan for trend testing, outlier tests were performed only for datasets of four or more points and having 75 percent or more detected values. Outlier testing was performed using a significance level (α) of 0.05 (i.e., 95 percent confidence).

The results of the data distribution and outlier tests are presented in Appendix D Table D-2. Statistical outliers were identified for cis 1,2 DCE at MW-4, MW 8, MW 14, MW 28, MW 31R, and MW 51; and for vinyl chloride at MW 8 and Pond North, as indicated in the Table D 2.

Where statistically significant outliers were identified, trend testing was carried out twice; first considering all data and second using outlier excluded data sets. In all cases, the results of the trend tests (i.e., increasing or no trend identified) were consistent both with and without the outliers. Therefore, the presence of statistical outliers in the principal VOC data sets has not impaired the ability of the present statistical evaluation to identify significant temporal trends, where present in the monitoring data.

7.3 Results

The results from the Mann-Kendall trend test are shown in Table 9. The data used in the trend tests are shown in Table D-1 and a summary of descriptive statistics are shown in Table D-2 of Appendix D, along with the data distribution and outlier testing results.

Of 126 data sets originally considered (three primary VOCs at each of 40 monitoring wells and 2 surface water locations) and evaluated, 65 did not require trend analysis due to high frequencies of non-detects (i.e., less than 75 percent detects) and six did not require trend analysis due to insufficient data (MW-7 and MW 97R-16). The remaining 55 data sets were subjected to the Mann-Kendall trend test. Of these, 32 had no statistically significant trend (i.e., groundwater VOC concentrations are stable or decreasing over time), and 23 datasets had significant increasing

trends (at a 90 percent confidence level). As noted previously, monitoring well MW 49 was not sampled during the 2017 monitoring events.

Comparing the results to those from the previous (2016) evaluation, two changes were observed in the results:

- cis-1,2-DCE concentrations at MW 51 were observed to have an increasing trend compared to no trend observed in 2016
- cis-1,2-DCE concentrations at MW 85 were observed to have an increasing trend in 2017, where no test was performed in 2016 due to low detection frequency

A number of new increasing trends were identified in 2017 due to testing using detected values only. By inspecting the graphs, non-detect results were observed earlier in the monitoring period, and were sometimes present at somewhat-elevated detection limits above the majority of the detected values. The fact that detected concentrations are recently observed, when before they were not detected, constitutes a change in VOC concentrations that it is noteworthy.

Current conditions in VOC concentrations were evaluated by considering a more recent period. For wells that are currently sampled annually, a 5-year period was considered and for wells that are currently sampled semi-annually, a 4-year period was used. Pond Intake and Pond North are currently sampled three times a year, therefore a recent 3-year period was considered. Of the 23 increasing trends observed during the entire monitoring period, 18 were observed to be stable (no statistically significant trend) or not detected during the recent period. The data used in the trend tests are shown in Table D-3 and a summary of descriptive statistics are shown in Table D-4 of Appendix D. The results from the Mann-Kendall trend test considering a more recent period are shown in Table 10. Five increasing trends persisted during the recent period (i.e., TCE at MW-4 and cis-1,2-DCE at MW 28, MW 51, MW 66 and Pond North). One new increasing trend was observed (i.e., vinyl chloride at MW-4).

Data from the last 3-5 years indicate that the majority of TCE, cis-1,2-DCE and vinyl chloride concentrations have no statistically significant trends and therefore have been stable.

Group comparison tests were carried out at well MW 15. Data distributions were assessed prior to the test and found that TCE and cis-1,2-DCE recent and historical concentrations were normally distributed, therefore the Student's t-test was used. Normality assumptions were violated for the recent vinyl chloride data due to the presence of non-detects, therefore the non-parameteric Wilcoxon Rank-Sum test was performed in conjunction with the parametric Student's t-test. The results of the group comparison tests confirm the Mann-Kendall trend test results.

8. Conclusions

Based on the 2017 Annual Groundwater Monitoring activities, including all field and laboratory analytical data generated therefrom, the following conclusions have been developed.

1. Unit 3S potentiometric mapping is consistent with previous mapping. The elevation contour map indicates that there is a general northeasterly gradient in Unit 3S beneath the central and north portions of the former Main Plant building. Beneath the southern portion of the former Main

Plant, groundwater flow is variable. Data from the October 2017 event again indicates the presence of a prominent groundwater mound, or ridge, in Unit 3S that extends in a north-south arc from the MW 46 area on the south to MW 29 on the north.

2. The Unit 3D potentiometric mapping is consistent with previous mapping. The elevation contour map indicates that there is a general easterly gradient across the west portion of the Site and a general westerly gradient across the east portion of the Site into the Meltwater Valley.
3. The bedrock aquifer potentiometric mapping is consistent with previous mapping. The elevation contour map indicates that there is a general easterly gradient across the Site.
4. In October 2017, the extent of the AOC 1 – South Court plume remained defined on the east side, with the exception of MW 16, with non-detect results for all VOC constituents at monitoring wells MW 37, MW 46 and MW 84. For the first time cis-1,2-DCE and vinyl chloride were detected at east boundary monitoring well MW 16. At the north perimeter boundary of the AOC 1 – South Court plume MW 75 installed in the deep portion of the Unit 3 was free of detected VOC concentrations. Replacement monitoring well MW 76R-17, screened in the shallow portion of the Unit 3 aquifer and adjacent to MW 75, exhibited a very low concentration of cis-1,2-DCE.
5. In October 2017, the southern and northern extents of the WWTP plume remained defined with perimeter monitoring wells MW-2, MW 56, MW 61, MW 86, MW 88, and MW97R-16 that were free of detected concentrations of VOCs or contained very low concentrations of VOCs.
6. When considering historical data and comparing 2017 results to those from the 2016 evaluation, cis-1,2-DCE concentrations at AOC 1 – South Court plume monitoring well MW 51 were observed to have an increasing trend compared to no trend observed in 2016. Also, cis-1,2-DCE concentrations at WWTP plume monitoring well MW 85 were observed to have an increasing trend in 2017, where no test was performed in 2016 due to low detection frequency. The other observed trends in the 2017 TCE, cis-1,2-DCE and vinyl chloride concentrations were consistent with the assessment conducted in 2016, with the exception of a number of new increasing trends identified due to testing using detected values only.
7. Groundwater plume stability was also assessed considering the most recent results (3 to 5 years). The results from the Mann-Kendall trend test considering the most recent results identified an increasing trend for TCE and vinyl chloride at WWTP plume monitoring well MW-4 and an increasing trend for cis-1,2-DCE at AOC 1 – South Court plume monitoring well MW 51, WWTP plume monitoring wells MW 28 and MW 66 and Pond North. Data from the last 3 to 5 years indicates that the majority of TCE, cis-1,2-DCE and vinyl chloride concentrations have no statistically significant increasing trends and therefore have been stable. The AOC 1 – South Court plume exhibits stable or decreasing concentrations at all monitored wells with the exception of cis-1,2-DCE at MW 51. The concentration of cis-1,2-DCE at MW 51 is 0.012 mg/L which is below all screening levels.
8. Results of the preliminary U.S. EPA score sheet screening and the presence of daughter products in the groundwater indicates that natural attenuation of VOCs is occurring at the Site in both the AOC 1 – South Court plume and the former WWTP Area plume.
9. Three surface water sampling events were conducted in 2017 (April, July, and October) at the Pond Intake and Pond North surface water monitoring locations at the Meadowbrook Golf

Course central irrigation pond. Cis-1,2-DCE, trans-1,2-DCE, TCE and vinyl chloride were detected at surface water monitoring locations Pond North and Pond Intake during one or more surface water sampling events conducted in 2017. The detected concentrations of vinyl chloride at the Pond North and Pond Intake sampling locations exceeded the relevant screening criteria (i.e., recreator). No other parameters were detected above relevant screening criteria at surface water monitors Pond North or Pond Intake.

10. Based on monitoring at adjacent monitoring well MW 85, the golf course irrigation pond appears to be within the former WWTP Area plume.
11. Based on the 2017 groundwater results from residential well MW 89-11, there is no current unacceptable risk to nearby residents due to groundwater volatilization to indoor air.

9. Recommendations

The following recommendations are provided with respect to ongoing monitoring:

1. It is recommended that sampling for NA parameters be continued in 2018
2. It is recommended that a bedrock investigation be completed to delineate bedrock groundwater impacts within the former WWTP plume

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All of Which is Respectfully Submitted,

GHD

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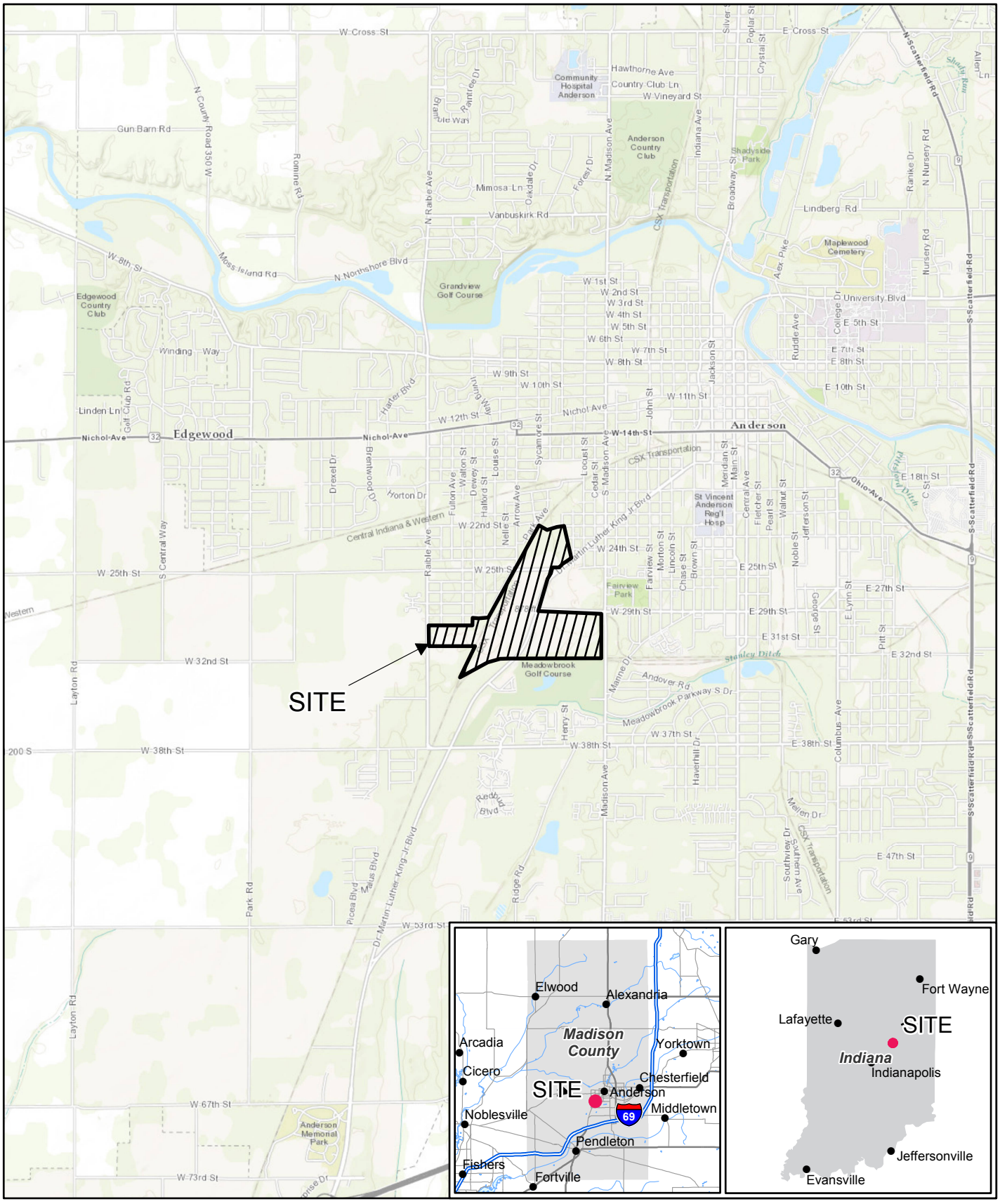
Shannon Richardson, B.Sc.

Figures



Source: ESRI Topographic Basemap, Accessed 2017, ESRI Base Data, 2008.

0 1,500 3,000 4,500
Feet

Coordinate System:
NAD 1983 StatePlane Indiana East
FIPS 1301 Feet

N

GHD

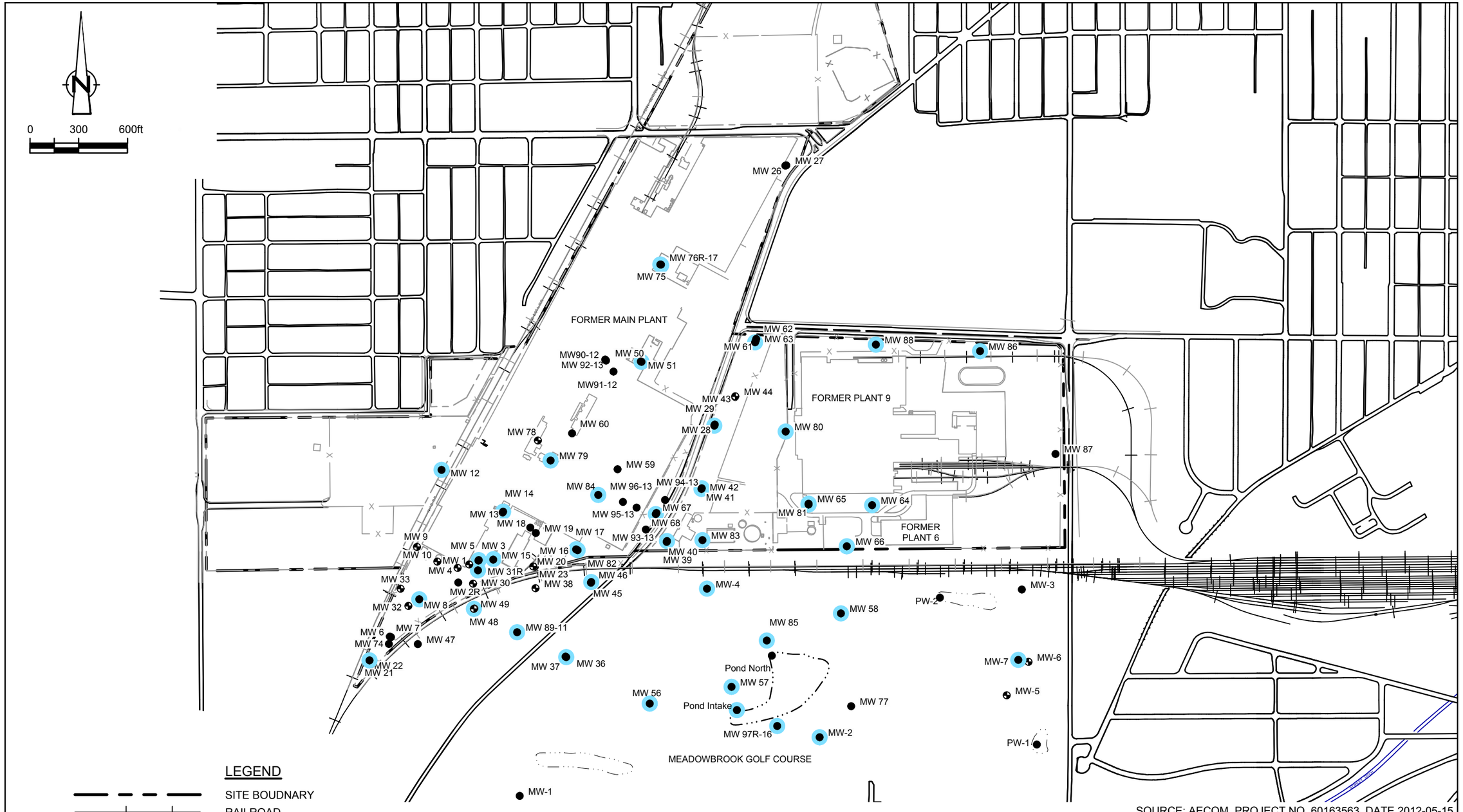
2915 DR. MARTIN LUTHER KING JR. BOULEVARD, ANDERSON, INDIANA
2017 ANNUAL MONITORING REPORT

017302-07
Dec 1, 2017

SITE LOCATION MAP

FIGURE 1

GIS File: Q:\GIS\PROJECTS\17000s\17302\Layouts\054\017302-07(054)GIS-OT001.mxd



LEGEND

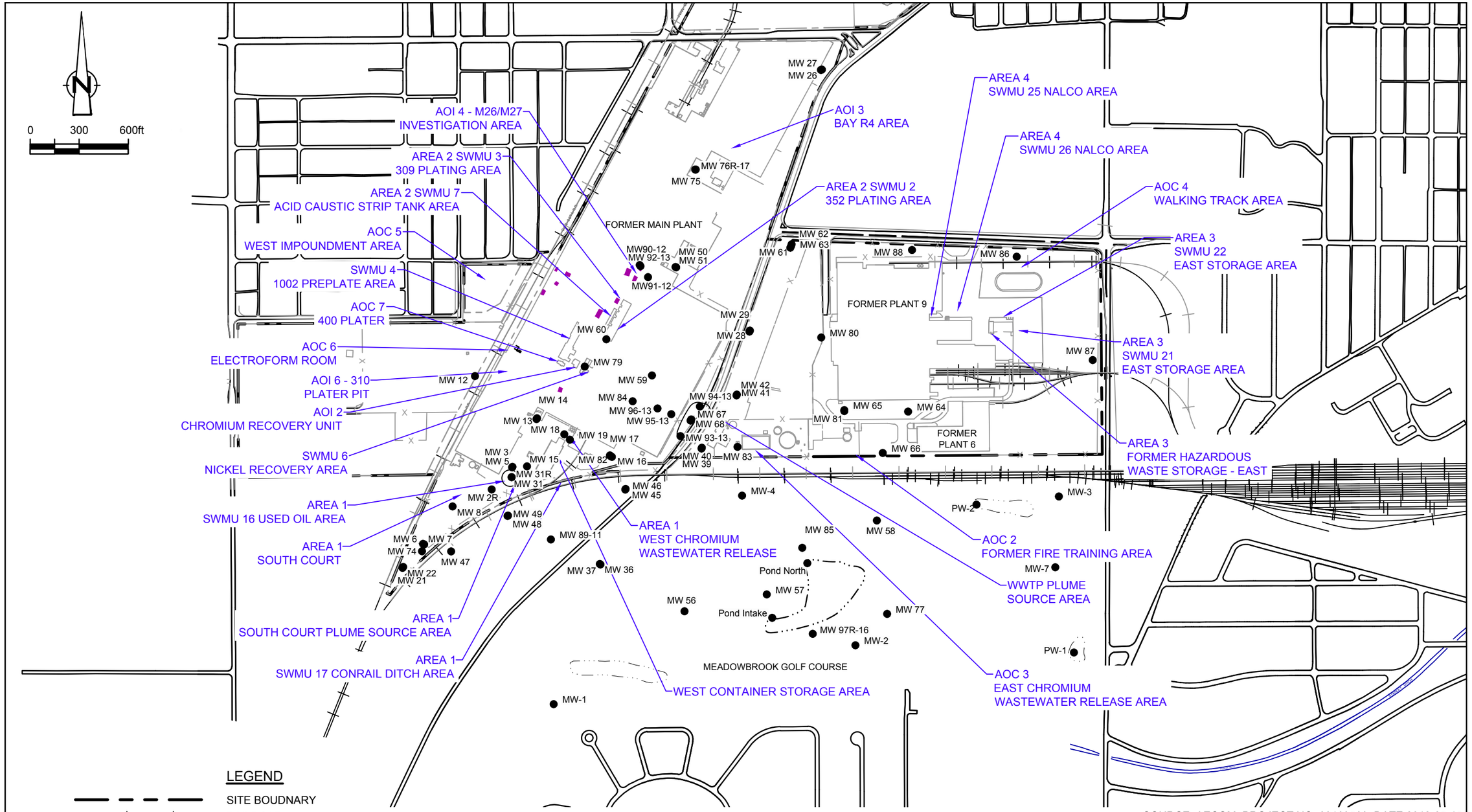
- SITE BOUDNARY
- RAILROAD
- FENCE LINE
- BUILDING
- MONITORING WELL LOCATION
- SAMPLING LOCATIONS INCLUDED IN GMP
- MONITORING WELL NOT CURRENTLY ACCESSIBLE

SOURCE: AECOM, PROJECT NO. 60163563, DATE 2012-05-15

figure 2

SITE PLAN
2017 ANNUAL MONITORING REPORT
2915 DR. MARTIN LUTHER KING JR. BLVD., ANDERSON, INDIANA
Revitalizing Auto Communities Environmental Response Trust

017302-T07(054)GN-SC001 JAN 23, 2018



SOURCE: AECOM, PROJECT NO. 60163563, DATE 2012-05-15

figure 3

AREAS OF INTEREST
2017 ANNUAL MONITORING REPORT
2915 DR. MARTIN LUTHER KING JR. BLVD., ANDERSON, INDIANA
Revitalizing Auto Communities Environmental Response Trust

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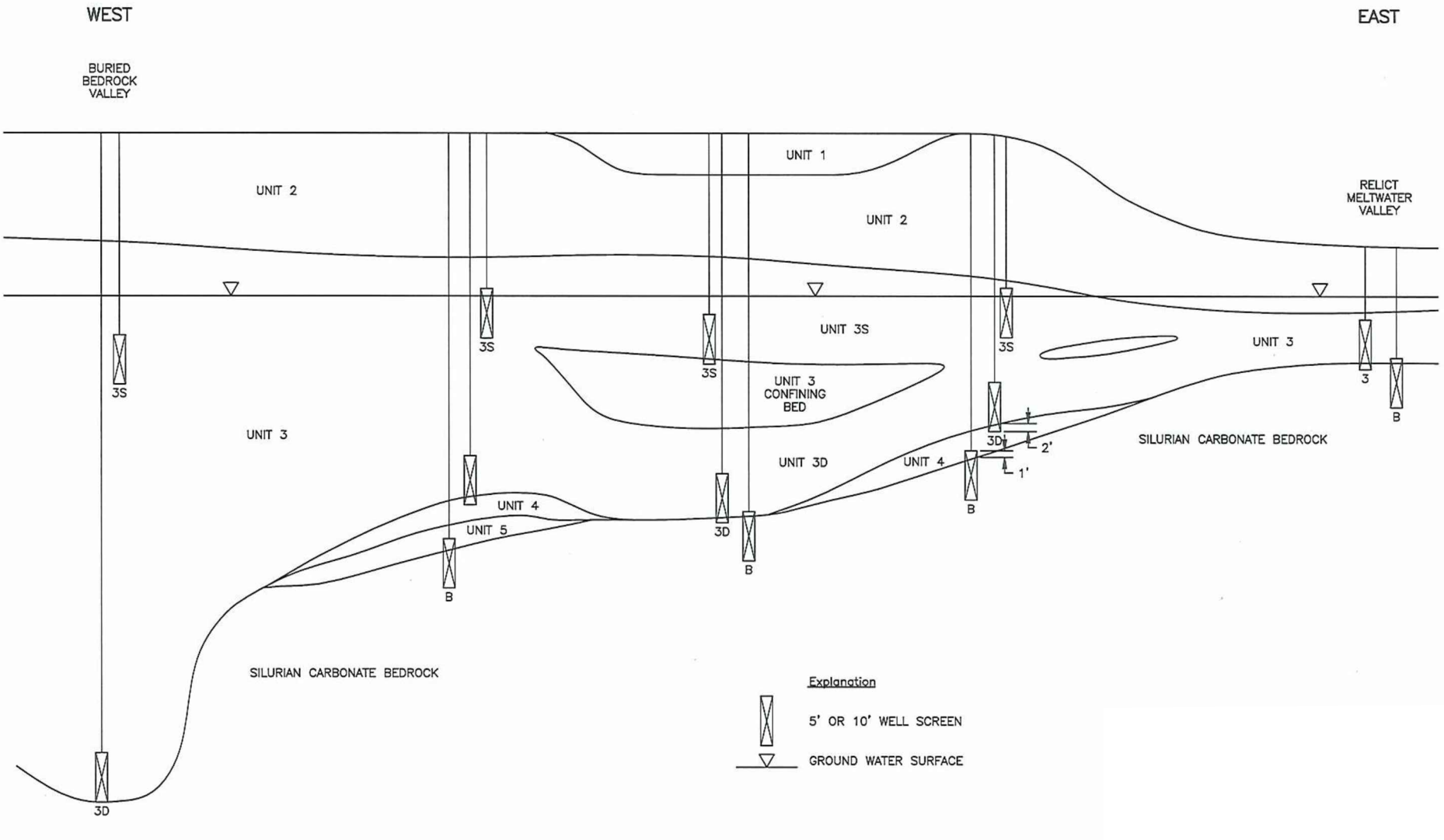
017302-T07(054)GN-SC013 JAN 24, 2018



SOURCE: AECOM PROJECT # 60135322, DATE 01-11, FIG 2-3

figure 4

GENERALIZED HYDROGEOLOGIC CROSS SECTION SHOWING WELL COMPLETION ZONES
2017 ANNUAL MONITORING REPORT
2915 DR. MARTIN LUTHER KING JR. BLVD., ANDERSON, INDIANA
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0 300 600ft

MW 76R-17 (860.59)
MW 63 (858.67)
MW 92-13 (861.64)
MW 51 (861.90)
MW 60 (861.86)
MW 29 (863.05)
MW 59 (863.32)
MW 96-13 (863.25)
MW 94-13 (858.13)
MW 84 (863.01)
MW 14 (862.58)
MW 68 (858.18)
MW 95-13 (862.50)
MW 40 (857.96)
MW 17 (863.14)
MW 93-13 (858.16)
MW 16 (863.13)
MW 5 (862.87)
MW 15 (862.57)
MW 3 (862.71)
MW 2R
MW 46 (862.97)
MW 8 (863.15)
MW 49
MW 6 (863.41)
MW 89-11 (862.24)
MW 22 (863.64)
MW 47 (862.67)
MW 37 (861.34)
MW 21 (863.59)

861.0 860.0 859.0 862.0 860.0 861.0 862.0 862.0 861.0 860.0 859.0 858.0 859.0 860.0 861.0 863.0 863.0 862.0 863.0

LEGEND

- SITE BOUDNARY
- RAILROAD
- FENCE LINE
- FORMER BUILDING
- BUILDING
- (857.96) MONITORING WELL USED TO DEVELOP CONTOURS GROUNDWATER ELEVATION
- 862 GROUNDWATER CONTOUR (FEET NAVD 88)
- INFERRED DIRECTION OF GROUNDWATER FLOW
- BOUNDARY OF AREA WHERE UNIT 3 CLAY CONFINING BED IS PRESENT

SOURCE: AECOM, PROJECT NO. 60163563, DATE 2012-05-15

figure 5

POTENTIOMETRIC GROUNDWATER ELEVATIONS - UNIT 3S, OCTOBER 2017
2017 ANNUAL MONITORING REPORT
2915 DR. MARTIN LUTHER KING JR. BLVD., ANDERSON, INDIANA
Revitalizing Auto Communities Environmental Response Trust

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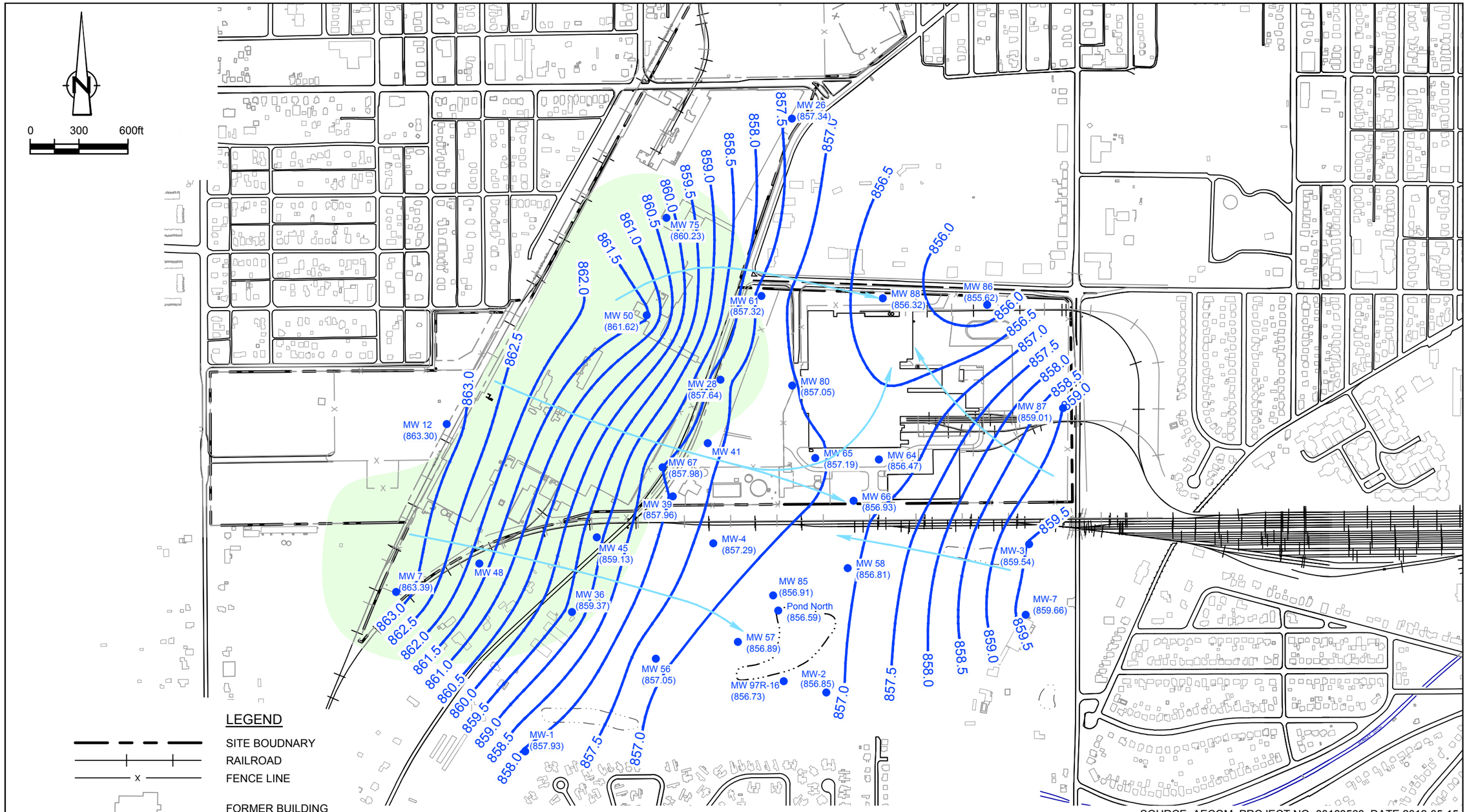
017302-T07(054)GN-SC004 JAN 31, 2018



LEGEND

- SITE BOUDNARY
- RAILROAD
- FENCE LINE
- FORMER BUILDING
- BUILDING
- MONITORING WELL USED TO DEVELOP CONTOURS
- 862 GROUNDWATER CONTOUR (FEET NAVD 88)
- INFERRED DIRECTION OF GROUNDWATER FLOW
- BOUNDARY OF AREA WHERE UNIT 3 CLAY CONFINING BED IS PRESENT

SOURCE: AECOM, PROJECT NO. 60163563, DATE 2012-05-15

figure 6

POTENTIOMETRIC GROUNDWATER ELEVATIONS - UNIT 3D, OCTOBER 2017
2017 ANNUAL MONITORING REPORT
2915 DR. MARTIN LUTHER KING JR. BLVD., ANDERSON, INDIANA
Revitalizing Auto Communities Environmental Response Trust

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017302-T07(054)GN-SC005 JAN 31, 2018

0 300 600ft

MW 62 (858.13)
MW 81 (857.13)
MW 83 (857.33)
MW 82 (863.32)
MW 74 (864.11)
MW 77 (856.75)

858.5 858.0 857.5 857.0 859.0 859.5 860.0 860.5 861.0 861.5 862.0 862.5 863.0 863.5 864.0

LEGEND

- SITE BOUDNARY
- RAILROAD
- FENCE LINE
- FORMER BUILDING
- BUILDING
- MONITORING WELL USED TO DEVELOP CONTOURS
- 862 GROUNDWATER CONTOUR (FEET NAVD 88)
- INFERRED DIRECTION OF GROUNDWATER FLOW

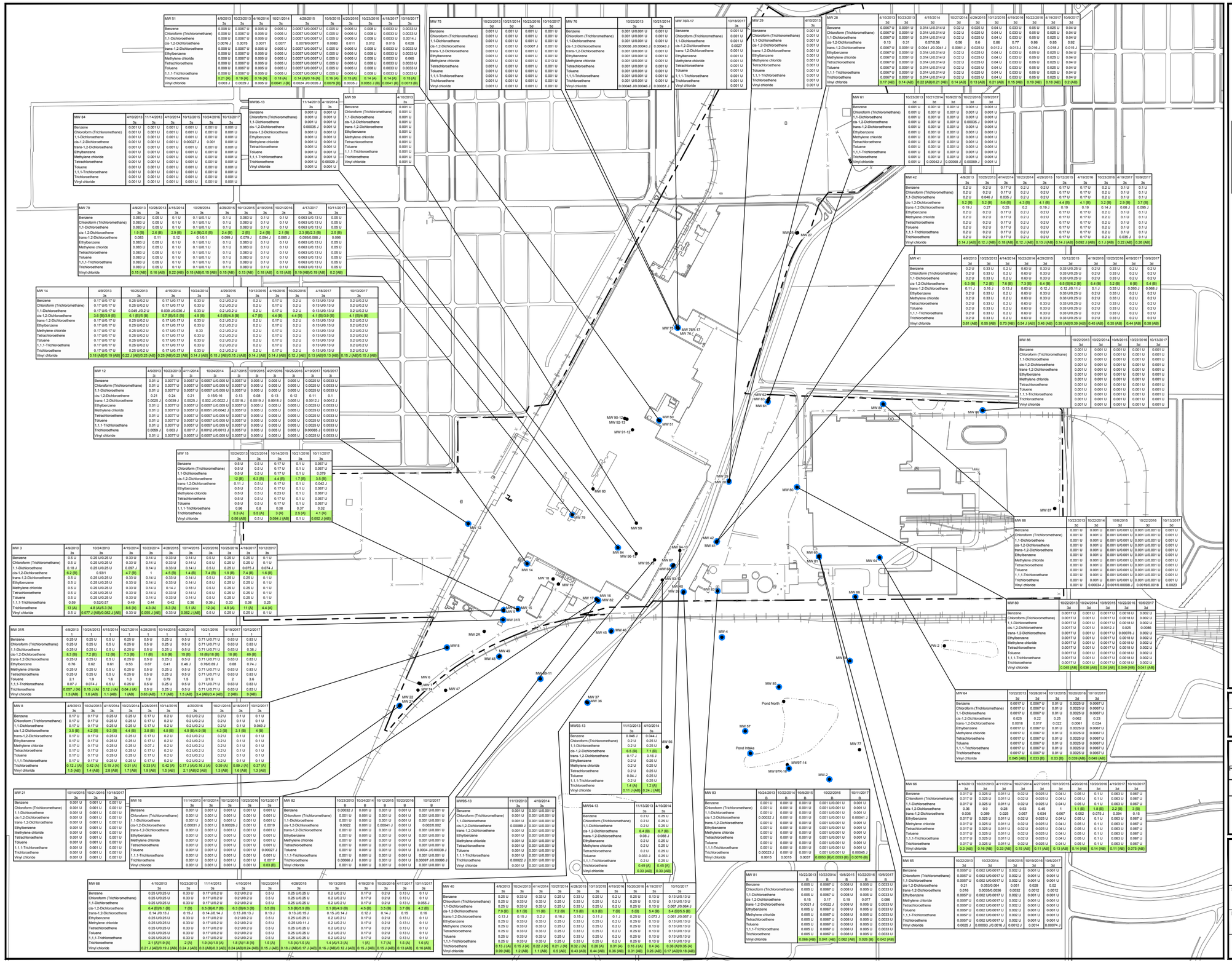
SOURCE: AECOM, PROJECT NO. 60163563, DATE 2012-05-15

figure 7

POTENTIOMETRIC GROUNDWATER ELEVATIONS - UNIT 3 BEDROCK, OCTOBER 2017
2017 ANNUAL MONITORING REPORT
2915 DR. MARTIN LUTHER KING JR. BLVD., ANDERSON, INDIANA
Revitalizing Auto Communities Environmental Response Trust

GHD

017302-T07(054)GN-SC006 DEC12, 2017


MW 51
MW 75
MW 76
MW 76R-17
MW 29
MW 28
MW 61
MW 84
MW96-13
MW 59
MW 42
MW 79
MW 41
MW 14
MW 86
MW 12
MW 15
MW 66
MW 65
MW 88
MW 3
MW 80
MW 31R
MW 64
MW 8
MW93-13
MW 83
MW95-13
MW94-13
MW 21
MW 16
MW 82
MW 68
MW 40
MW 81
Pond North
Pond Intake
MW97-14
MW 97R-17
MW 27
MW 26
MW 25
MW 24
MW 23
MW 22
MW 21
MW 20
MW 19
MW 18
MW 17
MW 16
MW 13
MW 11
MW 10
MW 9
MW 7
MW 6
MW 5
MW 4
MW 3
MW 2R
MW 2
MW 1
MW 90-12
MW 92-13
MW 91-12
MW 96-12
MW 93-12
MW 97-12
MW 94-12
MW 95-12
MW 92-12
MW 91-13
MW 90-13
MW 97-13
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MW 90-14
MW 97-15
MW 96-15
MW 95-15
MW 94-15
MW 93-15
MW 92-15
MW 91-15
MW 90-15
MW

MW 85	4/12/2013 3d	10/29/2013 3d	4/16/2014 3d	10/29/2014 3d	4/27/2015 3d	10/19/2015 3d	4/22/2016 3d	10/24/2016 3d	4/18/2017 3d	10/17/2017 3d
Benzene	0.067 U	0.067 U	0.25 U	0.25 U	0.5 U	0.33 U	0.5 U/0.5 U	0.56 U	0.33 U	0.2 U
Chloroform (Trichloromethane)	0.067 U	0.067 U	0.25 U	0.25 U	0.5 U	0.33 U	0.5 U/0.5 U	0.56 U	0.33 U	0.2 U
1,1-Dichloroethene	0.067 U	0.067 U	0.25 U	0.25 U	0.5 U	0.33 U	0.5 U/0.5 U	0.56 U	0.33 U	0.2 U
cis-1,2-Dichloroethene	1.9 (ADE)	4.6 (ADE)	7.4 (ADE)	7.5 (ADE)	9.5 (ADE)	10 (ADE)	9.9 (ADE)/10 (ADE)	8.4 (ADE)	8.4 (ADE)	8.6 (ADE)
trans-1,2-Dichloroethene	0.03 J	0.084	0.15 J (A)	0.16 J (A)	0.2 J (A)	0.22 J (A)	0.23 J (A)/0.26 J (A)	0.26 J (A)	0.28 J (A)	0.29 (A)
Ethylbenzene	0.067 U	0.067 U	0.25 U	0.25 U	0.5 U	0.33 U	0.5 U/0.5 U	0.56 U	0.33 U	0.2 U
Methylene chloride	0.067 U	0.067 U	0.25 U	0.41 U	0.5 U	0.33 U	0.5 U/0.5 U	0.56 U	0.33 U	4.3 (A)
Tetrachloroethene	0.067 U	0.067 U	0.25 U	0.25 U	0.5 U	0.33 U	0.5 U/0.5 U	0.56 U	0.33 U	0.2 U
Toluene	0.067 U	0.067 U	0.25 U	0.25 U	0.5 U	0.33 U	0.5 U/0.5 U	0.56 U	0.33 U	0.2 U
1,1,1-Trichloroethane	0.067 U	0.067 U	0.25 U	0.25 U	0.5 U	0.33 U	0.5 U/0.5 U	0.56 U	0.33 U	0.2 U
Trichloroethene	0.067 U	0.067 U	0.25 U	0.25 U	0.5 U	0.33 U	0.5 U/0.5 U	0.56 U	0.33 U	0.2 U
Vinyl chloride	0.69 (ABCDE)	0.64 (ABCDE)	0.84 (ABCDE)	0.6 (ABCDE)	0.37 J (ABCDE)	0.44 (ABCDE)	0.34 J (ABCDE)/0.35 J (ABCDE)	0.42 J (ABCDE)	0.42 (ABCDE)	0.45 (ABCDE)

MW-4	4/12/2013 3d	10/29/2013 3d	4/16/2014 3d	10/29/2014 3d	4/27/2015 3d	10/19/2015 3d	4/22/2016 3d	10/24/2016 3d	4/18/2017 3d	10/17/2017 3d
Benzene	0.33 U	0.17 U	0.5 U/0.5 U	0.5 U	0.5 U	0.33 U	0.5 U	0.56 U	0.33 U	0.17 U/0.17 U
Chloroform (Trichloromethane)	0.33 U	0.17 U	0.5 U/0.5 U	0.5 U	0.5 U	0.33 U	0.5 U	0.56 U	0.33 U	0.17 U/0.17 U
1,1-Dichloroethene	0.076 J (A)	0.098 J (A)	0.5 U/0.5 U	0.5 U	0.5 U	0.33 U	0.5 U	0.56 U	0.33 U	0.12 J (A)/0.12 J (A)
cis-1,2-Dichloroethene	12 (ADE)	14 (ADE)	13 (ADE)/13 (ADE)	12 (ADE)	10 (ADE)	12 (ADE)	9.4 (ADE)	7.9 (ADE)	8.6 (ADE)	8.6 (ADE)/8 (ADE)
trans-1,2-Dichloroethene	0.36 (A)	0.32 (A)	0.29 J (A)/0.31 J (A)	0.31 J (A)	0.25 J (A)	0.33 (A)	0.23 J (A)	0.2 J (A)	0.26 J (A)	0.2 (A)/0.19 (A)
Ethylbenzene	0.33 U	0.17 U	0.5 U/0.5 U	0.5 U	0.5 U	0.33 U	0.5 U	0.56 U	0.33 U	0.17 U/0.17 U
Methylene chloride	0.33 U	0.17 U	0.5 U/0.5 U	0.88 U	0.5 U	0.33 U	0.5 U	0.56 U	0.33 U	3.2 (A)/3.5 (A)
Tetrachloroethene	0.33 U	0.17 U	0.5 U/0.5 U	0.5 U	0.5 U	0.33 U	0.5 U	0.56 U	0.33 U	0.17 U/0.17 U
Toluene	0.33 U	0.17 U	0.5 U/0.5 U	0.5 U	0.5 U	0.33 U	0.5 U	0.56 U	0.33 U	0.17 U/0.17 U
1,1,1-Trichloroethane	0.086 J	0.14 J	0.5 U/0.5 U	0.13 J	0.5 U	0.33 U	0.5 U	0.56 U	0.33 U	0.16 J/0.17 U
Trichloroethene	0.74 (ABCD)	1.0 (ABCD)	0.47 J (ABCD)/0.52 (ABCD)	1.7 (ABCD)	0.5 (ABCD)	1 (ABCD)	0.8 (ABCD)	1.7 (ABCD)	1.1 (ABCD)	2.4 (ABCD)/2.1 (ABCD)
Vinyl chloride	0.44 (ABCDE)	0.43 (ABCDE)	0.57 (ABCDE)/0.58 (ABCDE)	0.41 J (ABCDE)	0.42 J (ABCDE)	0.47 (ABCDE)	0.53 (ABCDE)	0.63 (ABCDE)	0.84 (ABCDE)	0.73 (ABCDE)/0.66 (ABCDE)

MW 46	10/25/2013 3s	10/22/2014 3s	10/9/2015 3s	10/23/2016 3s	10/16/2017 3s
Benzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methylene chloride	0.001 U	0.001 U	0.001 U	0.001 U	0.012 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

MW 49	4/10/2013 3s	10/25/2013 3s	4/14/2014 3s	10/27/2014 3s	4/28/2015 3s	10/13/2015 3s	4/21/2016 3s
Benzene	0.033 U	0.033 U	0.001 U	0.033 U	0.033 U	0.04 U	0.033 U
Chloroform (Trichloromethane)	0.033 U	0.033 U	0.001 U	0.033 U	0.033 U	0.04 U	0.033 U
1,1-Dichloroethene	0.033 U	0.033 U	0.0014	0.033 U	0.033 U	0.04 U	0.033 U
cis-1,2-Dichloroethene	0.74 (A)	0.9 (A)	0.001 U	0.78 (A)	0.71 (A)	0.86 (A)	0.83 (A)
trans-1,2-Dichloroethene	0.016 J	0.032 J	0.019	0.02 J	0.019 J	0.024 J	0.02 J
Ethylbenzene	0.033 U	0.033 U	0.001 U	0.033 U	0.033 U	0.04 U	0.033 U
Methylene chloride	0.033 U	0.033 U	0.001 U	0.033 U	0.033 U	0.04 U	0.033 U
Tetrachloroethene	0.033 U	0.033 U	0.001 U	0.033 U	0.033 U	0.04 U	0.033 U
Toluene	0.033 U	0.033 U	0.001 U	0.033 U	0.033 U	0.04 U	0.033 U
1,1,1-Trichloroethane	0.033 U	0.033 U	0.00053 J	0.033 U	0.033 U	0.04 U	0.033 U
Trichloroethene	0.033 U	0.033 U	0.00085 J	0.033 U	0.033 U	0.04 U	0.033 U
Vinyl chloride	0.027 J (ABDE)	0.033 (ABDE)	0.013 (ABDE)	0.013 J (ABDE)	0.033 U	0.012 J (ABDE)	0.011 J (ABDE)

MW89-11	4/12/2013 3s	10/28/2013 3s	4/16/2014 3s	10/28/2014 3s	4/28/2015 3s	10/15/2015 3s	4/20/2016 3s	10/25/2016 3s	4/19/2017 3s	10/17/2017 3s
Benzene	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U	0.00089 J
cis-1,2-Dichloroethene	0.001 U/0.001 U	0.001 U	0.001 U	0.00055 J	0.0003 J	0.001 U	0.001 U/0.001 U	0.0003 J/0.001 U	0.0033 U	0.00059 J
trans-1,2-Dichloroethene	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U	0.001 U
Ethylbenzene	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.0039 J	0.001 U
Methylene chloride	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U	0.001 U
Tetrachloroethene	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U	0.001 U
Toluene	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.00084 J	0.001 U
1,1,1-Trichloroethane	0.001 U/0.001 U	0.001 U	0.00068 J	0.001 U	0.001 U	0.0011	0.001 U/0.001 U	0.00160/0.0019	0.00033 J	0.0026
Trichloroethene	0.001 U/0.001 U	0.001 U	0.00032 J	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.00036 J	0.001 U
Vinyl chloride	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U	0.001 U

MW 37	10/25/2013 3s	10/22/2014 3s	10/9/2015 3s	10/23/2016 3s	10/16/2017 3s
Benzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methylene chloride	0.001 U	0.001 U	0.001 U	0.001 U	0.013 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

MW 56	10/29/2013 3d	10/29/2014 3d	10/19/2015 3d	10/24/2016 3d	10/18/2017 3d
Benzene	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.0002 J/0.00021 J	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U
Methylene chloride	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U
Toluene	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U

MW 57	10/29/2013 3d	10/29/2014 3d	10/19/2015 3d	10/24/2016 3d	10/18/2017 3d
Benzene	0.001 U	0.001 U	0.001 U	0.002 U	0.0033 U
Chloroform (Trichloromethane)	0.001 U	0.001 U	0.001 U	0.002 U	0.0033 U
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.002 U	0.0033 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.0042	0.0033 U
trans-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.002 U	0.0033 U
Ethylbenzene	0.001 U	0.001 U	0.001 U	0.002 U	0.0033 U
Methylene chloride	0.001 U	0.001 U	0.001 U	0.002 U	0.0033 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.002 U	0.0033 U
Toluene	0.001 U	0.001 U	0.001 U	0.002 U	0.0033 U
1,1,1-Trichloroethane	0.001 U	0.001 U	0.001 U	0.002 U	0.0033 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.002 U	0.0033 U
Vinyl chloride	0.0062 (ABDE)	0.013 (ABDE)	0.0037 (ABD)	0.046 (ABCDE)	0.096 (ABCDE)

Pond North	4/12/2013 WS	7/17/2013 WS	10/29/2013 WS	4/16/2014 WS	7/17/2014 WS	10/29/2014 WS	4/27/2015 WS	7/10/2015 WS	10/20/2015 WS	4/22/2016 WS	7/19/2016 WS	10/24/2016 WS	4/18/2017 WS	7/12/2017 WS	10/19/2017 WS
Benzene	0.001 U	0.001 U/0.001 U	0.001 U	0.0033 U	0.01 U	0.008 U	0.008 U	0.0033 U	0.0014 U	0.005 U	0.0025 U/0.0025 U	0.033 U	0.0067 U/0.0067 U	0.0033 U/0.0033 U	0.01 U
Chloroform (Trichloromethane)	0.001 U	0.001 U/0.001 U	0.001 U	0.0033 U	0.01 U	0.008 U	0.008 U	0.0033 U	0.0014 U	0.005 U	0.0025 U/0.0025 U	0.033 U	0.0067 U/0.0067 U	0.0033 U/0.0033 U	0.01 U
1,1-Dichloroethene	0.001 U	0.001 U/0.001 U	0.001 U	0.0033 U	0.01 U	0.008 U	0.008 U	0.0033 U	0.0014 U	0.005 U	0.0025 U/0.0025 U	0.033 U	0.0067 U/0.0067 U	0.0033 U/0.0033 U	0.01 U
cis-1,2-Dichloroethene	0.013	0.032/0.032	0.0063 U	0.11 (A)	0.25 (A)	0.31 (A)	0.26 (A)	0.093 (A)	0.035	0.12 (A)	0.09 (A)/0.081 (A)	0.5 (A)	0.21 (A)/0.2 (A)	0.11 (A)/0.1 (A)	0.35 (A)
trans-1,2-Dichloroethene	0.00049 J	0.001/0.0011	0.00025 J	0.0028 J	0.005 J	0.015	0.014	0.0031 J	0.00083 J	0.0053	0.0035/0.0027	0.021 J	0.0092/0.0084	0.0041/0.004	0.014
Ethylbenzene	0.001 U	0.001 U/0.001 U	0.001 U	0.0033 U	0.01 U	0.008 U	0.008 U	0.0033 U	0.0014 U	0.005 U	0.0025 U/0.0025 U	0.033 U	0.0067 U/0.0067 U	0.0033 U/0.0033 U	0.01 U
Methylene chloride	0.001 U	0.001 U/0.001 U	0.001 U	0.0033 U	0.01 U	0.008 U	0.008 U	0.0033 U	0.0014 U	0.0053 U	0.0025 U/0.0025 U	0.033 U	0.0067 U/0.0067 U	0.0033 U/0.0033 U	0.01 U
Tetrachloroethene	0.001 U	0.001 U/0.001 U	0.001 U	0.0033 U	0.01 U	0.008 U	0.008 U	0.0033 U	0.0014 U	0.005 U	0.0025 U/0.0025 U	0.033 U	0.0067 U/0.0067 U	0.0033 U/0.0033 U	0.01 U
Toluene	0.001 U	0.001 U/0.001 U	0.001 U	0.0033 U	0.01 U	0.008 U	0.008 U	0.0033 U	0.0014 U	0.005 U	0.0025 U/0.0025 U	0.033 U	0.0067 U/0.0067 U	0.0033 U/0.0033 U	0.01 U
1,1,1-Trichloroethane	0.001 U	0.001 U/0.001 U	0.001 U	0.0033 U	0.01 U	0.008 U	0.008 U	0.0033 U	0.0014 U	0.005 U	0.0025 U/0.0025 U	0.033 U	0.0067 U/0.0067 U	0.00094 J/0.00095 J	0.01 U
Trichloroethene	0.001 U	0.001 U/0.001 U	0.001 U	0.0033 U	0.01 U	0.008 U	0.008 U	0.0033 U	0.0014 U	0.005 U	0.0025 U/0.0025 U	0.033 U	0.0067 U/0.0067 U	0.0071 J/0.0073 J (A)	0.01 U
Vinyl chloride	0.0081 (ABDE)	0.014 (ABDE)/0.014 (ABDE)	0.0033 (ABD)	0.089 (ABCDE)	0.041 (ABCDE)	0.019 (ABDE)	0.0091 (ABDE)	0.0077 (ABDE)	0.0047 (ABDE)	0.0078 (ABDE)	0.0064 (ABDE)/0.0062 (ABDE)	0.033 U	0.01 (ABDE)/0.011 (ABDE)	0.0053 (ABDE)/0.0052 (ABDE)	0.017 (ABDE)

MW 58	10/29/2013 3d	10/29/2014 3d	10/20/2015 3d	10/25/2016 3d	10/17/2017 3d
Benzene	0.002 U	0.0033 U	0.0057 U/0.005 U	0.05 U	0.05 U
Chloroform (Trichloromethane)	0.002 U	0.0033 U	0.0057 U/0.005 U	0.05 U	0.05 U
1,1-Dichloroethene	0.002 U	0.0033 U	0.0057 U/0.005 U	0.05 U	0.05 U
cis-1,2-Dichloroethene	0.002 U	0.0033 U	0.028/0.028	1.1 (ADE)	2.2 (ADE)
trans-1,2-Dichloroethene	0.002 U	0.0033 U	0.0057 U/0.005 U	0.025 J	0.081
Ethylbenzene	0.002 U	0.0033 U	0.0057 U/0.005 U	0.05 U	0.05 U
Methylene chloride	0.002 U	0.0042 U	0.0057 U/0.005 U	0.05 U	1.1 (A)
Tetrachloroethene	0.002 U	0.0033 U	0.0057 U/0.005 U	0.05 U	0.05 U
Toluene	0.002 U	0.0033 U	0.0057 U/0.005 U	0.05 U	0.05 U
1,1,1-Trichloroethane	0.002 U	0.0033 U	0.0057 U/0.005 U	0.05 U	0.05 U
Trichloroethene	0.002 U	0.0033 U	0.0057 U/0.005 U	0.05 U	0.05 U
Vinyl chloride	0.11 (ABCDE)	0.098 (ABCDE)	0.16 (ABCDE)/0.15 (ABCDE)	0.085 (ABCDE)	0.059 (ABCDE)

MW97-14	11/24/2014 3d	10/20/2015 3d
Benzene	0.001 U/0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U/0.001 U	0.001 U
1,1-Dichloroethene	0.001 U/0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U/0.001 U	0.001 U
trans-1,2-Dichloroethene	0.001 U/0.001 U	0.001 U
Ethylbenzene	0.001 U/0.001 U	0.001 U
Methylene chloride	0.001 U/0.001 U	0.001 U
Tetrachloroethene	0.001 U/0.001 U	0.001 U
Toluene	0.001 U/0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U/0.001 U	0.001 U
Trichloroethene	0.001 U/0.001 U	0.001 U
Vinyl chloride	0.001 U/0.001 U	0.001 U

MW97-7	10/29/2014 3d	10/18/2017 3d
Benzene	0.001 U	0.001 U/0.001 U
Chloroform (Trichloromethane)	0.001 U	0.001 U/0.001 U
1,1-Dichloroethene	0.001 U	0.001 U/0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U/0.001 U
trans-1,2-Dichloroethene	0.001 U	0.001 U/0.001 U
Ethylbenzene	0.001 U	0.001 U/0.001 U
Methylene chloride	0.001 U	0.001 U/0.001 U
Tetrachloroethene	0.001 U	0.001 U/0.001 U
Toluene	0.001 U	0.001 U/0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U/0.001 U
Trichloroethene	0.001 U	0.001 U/0.001 U
Vinyl chloride	0.001 U	0.001 U/0.001 U

MW97R-16	10/25/2016 3d	10/18/2017 3d
Benzene	0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U	0.001 U
1,1-Dichloroethene	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.0012	0.001 U
trans-1,2-Dichloroethene	0.001 U	0.001 U
Ethylbenzene	0.001 U	0.001 U
Methylene chloride	0.001 U	0.001 U
Tetrachloroethene	0.001 U	0.001 U
Toluene	0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U
Vinyl chloride	0.001 U	0.001 U

MW-2	10/29/2013 3d	10/29/2014 3d	10/19/2015 3d	10/24/2016 3d	10/17/2017 3d
Benzene	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.0014
trans-1,2-Dichloroethene	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methylene chloride	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

Pond Intake	4/12/2013 WS	7/17/2013 WS	10/29/2013 WS	4/16/2014 WS	7/17/2014 WS	10/29/2014 WS	4/27/2015 WS	7/10/2015 WS	10/20/2015 WS	4/22/2016 WS	7/19/2016 WS	10/24/2016 WS	4/18/2017 WS	7/12/2017 WS	10/19/2017 WS
Benzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.0033 U/0.004 U	0.001 U	0.0025 U	0.0017 U	0.0018 U/0.002 U	0.0017 U	0.004 U	0.002 U
Chloroform (Trichloromethane)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.0033 U/0.004 U	0.001 U	0.0025 U	0.0017 U	0.0018 U/0.002 U	0.0017 U	0.004 U	0.002 U
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.0013 U	0.0033 U/0.004 U	0.001 U	0.0025 U	0.0017 U	0.0018 U/0.002 U	0.0017 U	0.004 U	0.002 U
cis-1,2-Dichloroethene	0.0066	0.017	0.0068 U	0.018	0.0295/0.027	0.022	0.033	0.1 (A)/0.11 (A)	0.037	0.077 (A)	0.055	0.0360/0.034	0.039	0.11 (A)	0.052
trans-1,2-Dichloroethene	0.00023 J	0.00062 J	0.0002 J	0.00064 J	0.00073 J/0.00067 J	0.00096 J	0.0011 J	0.0034/0.0035 J	0.00085 J	0.003	0.0016 J	0.001 J/0.0009 J	0.0023	0.0043	0.0014 J
Ethylbenzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.0013 U	0.0033 U/0.004 U	0.001 U	0.0025 U	0.0017 U	0.0018 U/0.002 U	0.0017 U	0.004 U	0.002 U
Methylene chloride	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.0013 U	0.0033 U/0.004 U	0.001 U	0.0025 U	0.0017 U	0.0018 U/0.002 U	0.0017 U	0.004 U	0.002 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.0013 U	0.0033 U/0.004 U	0.001 U	0.0025 U	0.0017 U	0.0018 U/0.002 U	0.0017 U	0.004 U	0.002 U
Toluene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.0013 U	0.0033 U/0.004 U	0.001 U	0.0025 U	0.0017 U	0.0018 U/0.002 U	0.0017 U	0.004 U	0.002 U
1,1,1-Trichloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.0013 U	0.0033 U/0.004 U	0.001 U	0.0025 U	0.0017 U	0.0018 U/0.002 U	0.0017 U	0.00092 J	0.002 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.0013 U	0.0033 U/0.004 U	0.001 U	0.0025 U	0.0017 U	0.0018 U/0.002 U	0.0017 U	0.0073 (A)	0.002 U
Vinyl chloride	0.0046 (ABDE)	0.0048 (ABDE)	0.0022 (ABD)	0.0069 (ABDE)	0.0049 (ABDE)/0.0048 (ABDE)	0.0039 (ABDE)	0.0053 (ABDE)	0.008 (ABDE)/0.0079 (ABDE)	0.0065 (ABDE)	0.0044 (ABDE)	0.0049 (ABDE)	0.0031 (ABD)/0.0029 (ABD)	0.0063 (ABDE)	0.0051 (ABDE)	0.0048 (ABDE)

LEGEND

- SITE BOUNDARY
- LOT LINE
- RAILROAD
- FENCE LINE
- BUILDING
- MONITORING WELL LOCATION

0 100 300ft

MW 58	10/29/2010 3d
Benzene	0.001 U
Chloroform (Trichloromethane)	0.001 U
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.001 U
trans-1,2-Dichloroethene	0.001 U
Ethylbenzene	0.001 U
Methylene chloride	0.005 U
Tetrachloroethene	0.001 U
Toluene	0.001 U
1,1,1-Trichloroethane	0.001 U
Trichloroethene	0.001 U
Vinyl chloride	0.158 (ABCDE)

- SAMPLE LOCATION
- SAMPLE DATE
- GEOLOGIC UNIT
  - WS - SURFACE WATER
  - 1 - UNIT 1, PERCHED GROUNDWATER IN FILL
  - 3S - UNIT 3, SHALLOW GROUNDWATER IN UPPERMOST AQUIFER
  - 3I - UNIT 3, INTERMEDIATE GROUNDWATER IN UPPERMOST AQUIFER
  - 3D - UNIT 3, DEEP GROUNDWATER IN UPPERMOST AQUIFER
  - B - BEDROCK, GROUNDWATER IN BEDROCK AQUIFER
- CONCENTRATION (mg/L)
- PARAMETER

0.34 (A) EXCEEDANCE OF ONE OR MORE SCREENING CRITERIA

SAMPLE LOCATIONS INCLUDED IN GMP

SCREENING CRITERIA

CHEMICAL NAME	A	B	C	D	E
Benzene	5.00E-03	2.40E-02	1.20E-01	-	-
Chloroform (Trichloromethane)	8.00E-02	-	-	-	-
1,1-Dichloroethene	7.00E-03	3.00E-01	1.30E+00	2.41E+01	5.10E+00
cis-1,2-Dichloroethene	7.00E-02	-	-	1.00E+00	1.00E+00
trans-1,2-Dichloroethene	1.00E-01	-	-	1.00E+01	2.00E+00
Ethylbenzene	7.00E-01	-	-	-	-
Methylene chloride	5.00E-03	-	-	-	-
Tetrachloroethene	5.00E-03	1.10E-02	5.50E-02	-	-
Toluene	1.00E+00	-	-	-	-
1,1,1-Trichloroethane	2.00E-01	1.30E+01	5.40E+01	8.18E+02	2.90E+01
Trichloroethene	5.00E-03	9.10E-03	3.80E-02	1.27E-01	2.90E+01
Vinyl chloride	2.00E-03	2.00E-03	3.50E-02	8.48E-04	3.80E-03

A IDEM Residential Tap Water

B IDEM Vapor Exp Residential Criteria

C IDEM Vapor Exp Comm/Ind Criteria

D RCR Site-Specific Closure Level (SSCLRCR)

E CITW Site-Specific Closure Level (SSCLCITW)

NOTES:
1. Parameters that do not appear in the databox for a particular

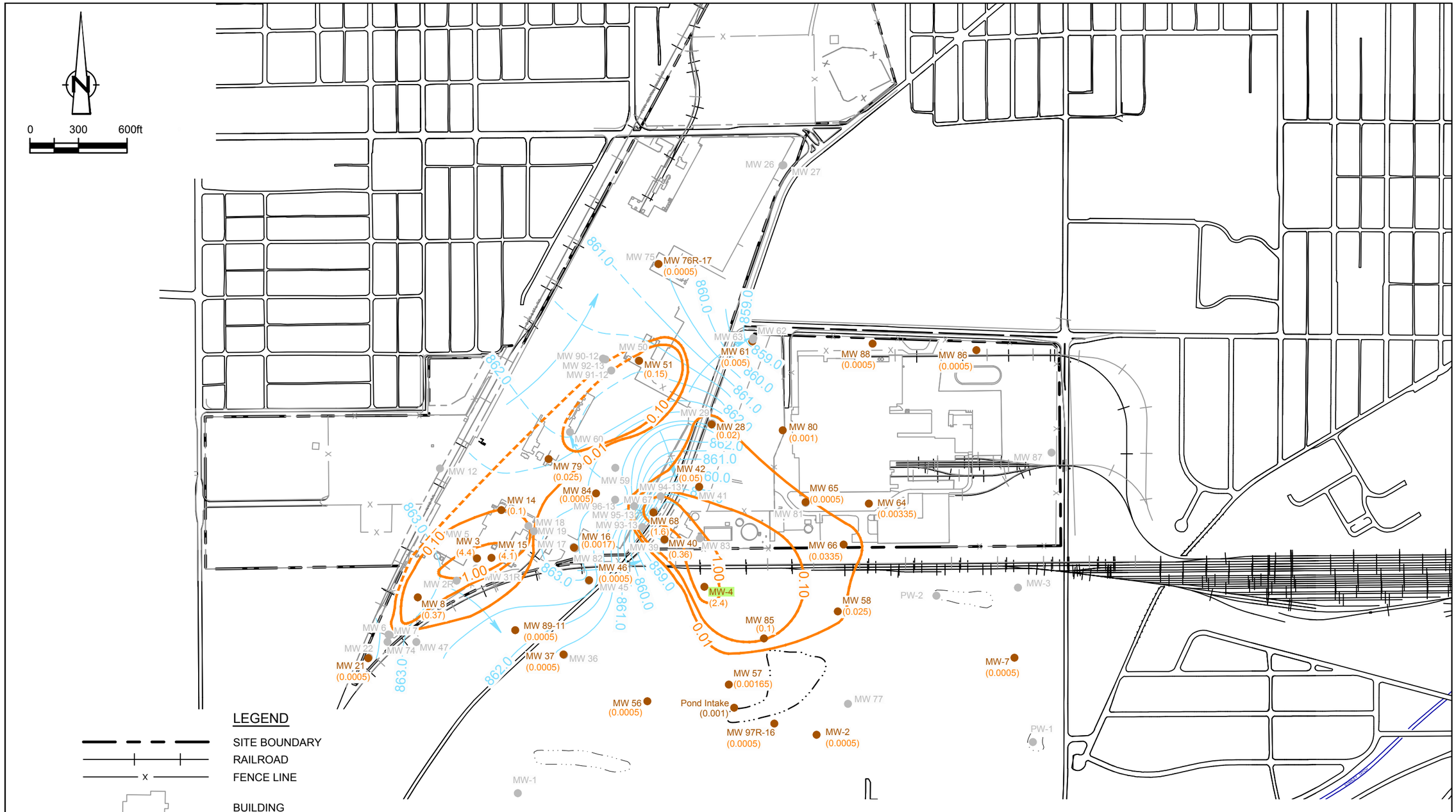


figure 10

CONCENTRATION OF TRICHLOROETHENE IN GROUNDWATER - UNIT 3
2017 ANNUAL MONITORING REPORT
2915 DR. MARTIN LUTHER KING JR. BLVD., ANDERSON, INDIANA
Revitalizing Auto Communities Environmental Response Trust

0 300 600ft

LEGEND

SITE BOUNDARY

RAILROAD

FENCE LINE

BUILDING

MONITORING WELL LOCATION

MONITORING WELL EXHIBITS A RECENT INCREASING CONCENTRATION TREND

1.00 ISOCONCENTRATION CONTOUR (mg/L)

862 GROUNDWATER CONTOUR (FEET NAVD 88)

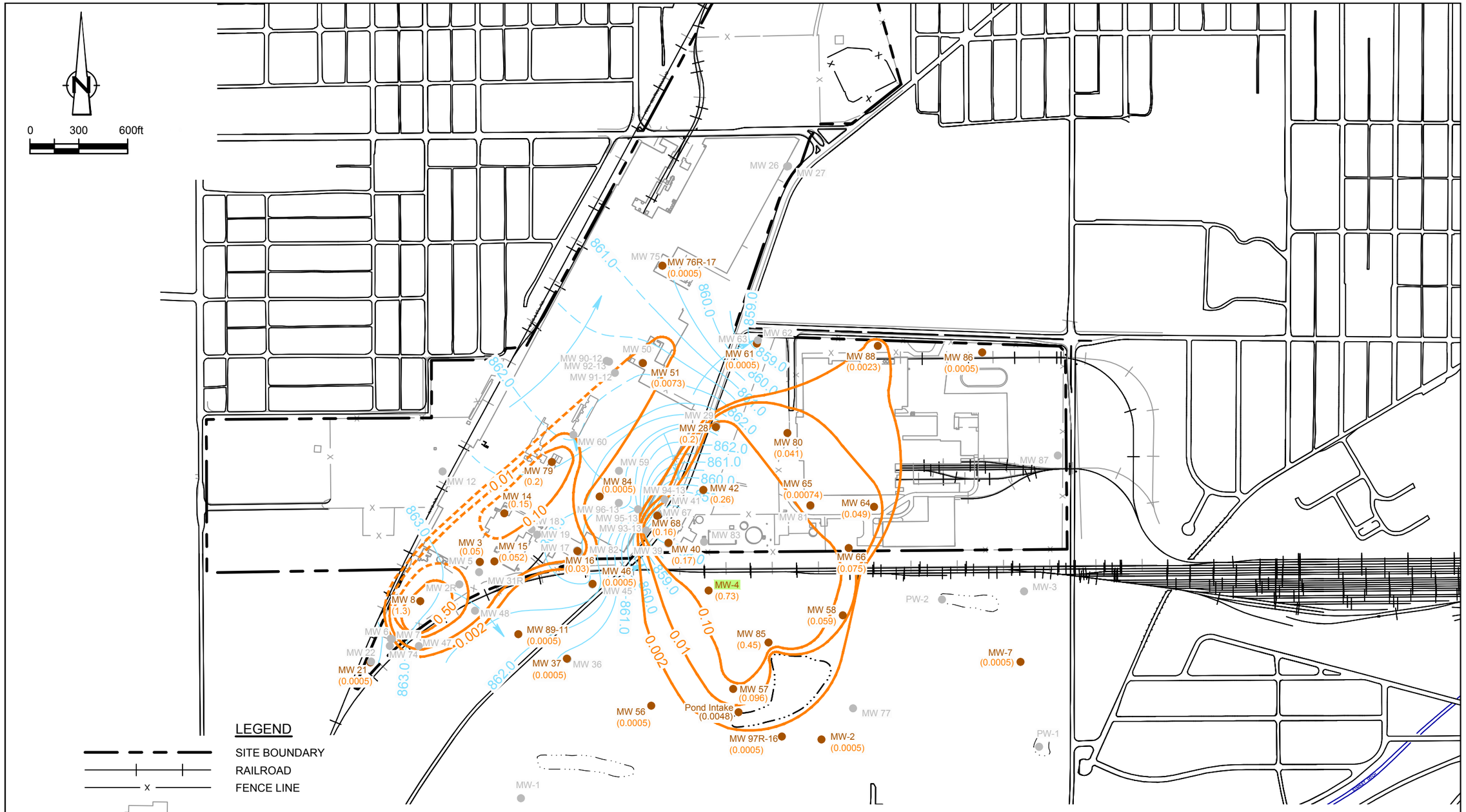
INFERRED DIRECTION OF GROUNDWATER FLOW

NOTES: NON DETECT RESULTS ARE SHOWN AS HALF THE ASSOCIATED REPORT LIMIT

figure 11

CONCENTRATION OF CIS-1,2-DICHLOROETHENE IN GROUNDWATER - UNIT 3
2017 ANNUAL MONITORING REPORT
2915 DR. MARTIN LUTHER KING JR. BLVD., ANDERSON, INDIANA
Revitalizing Auto Communities Environmental Response Trust

017302-T07(054)GN-SC010 JAN 31, 2018



NOTES: NON DETECT RESULTS ARE SHOWN AS HALF THE ASSOCIATED REPORT LIMIT

figure 12

CONCENTRATION OF VINYL CHLORIDE IN GROUNDWATER - UNIT 3
2017 ANNUAL MONITORING REPORT
2915 DR. MARTIN LUTHER KING JR. BLVD., ANDERSON, INDIANA
Revitalizing Auto Communities Environmental Response Trust

MW 15	10/24/2013 3s	10/23/2014 3s	10/14/2015 3s	10/21/2016 3s	10/11/2017 3s
FPARAM					
Dissolved oxygen (DO), field	0.05	0.14	0.09	0.70	0.20
Ferrous iron	0.0	0	0.5	-	0.5
Oxidation reduction potential (ORP), field	-27	95	22.2	280.0	-13
pH, field	7.14	6.74	7.06	7.31	6.81
Gas					
Ethane	0.0068	0.0097	0.0074	0.0018	0.0038
Ethene	0.013	0.011	0.0019	0.00048 J	0.0013
Methane	0.026	0.019	0.013	0.0026	0.0018
Wet					
Alkalinity, bicarbonate	390	350 B	390	250	230 B
Alkalinity, carbonate	5.0 U	5.0 U	4.2 J	5.0 U	5.0 U
Chloride	42	30	15	7.9	19
Dissolved organic carbon (DOC)	4.3	2.8	5.5	6.4	4.0
Hardness	430	440	400	320	390
Nitrate (as N)	0.10 UJ	0.10 U	0.10 U	0.091 J	0.32
Nitrite (as N)	0.10 UJ	0.10 U	0.10 U	0.10 U	0.018 J
Sulfate	100 J	90	76	100	92
Sulfide	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Total organic carbon (TOC)	4.4	2.2	2.5	6.3	4.2

MW 3	10/24/2013 3s	10/23/2014 3s	10/14/2015 3s	10/25/2016 3s	10/12/2017 3s
FPARAM					
Dissolved oxygen (DO), field	0.33	0.47	0.12	-	0.14
Ferrous iron	0.0	0	0.0	-	0.5
Oxidation reduction potential (ORP), field	79	162	-22.5	-	43
pH, field	7.13	7.15	7.10	-	6.80
Gas					
Ethane	0.0019/0.0018	0.0022	0.0016	0.0006	0.0019
Ethene	0.004305/.0041	0.0046	0.0024	0.00077	0.0026
Methane	0.018/0.018	0.023	0.018	0.0064	0.0094
Wet					
Alkalinity, bicarbonate	330/320	310 B	370	310	310 B
Alkalinity, carbonate	5.0 UI/5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloride	20/20	12	8.8	7.7	7.7
Dissolved organic carbon (DOC)	5.1/5.3	3.7	4.0	4.2	3.5
Hardness	400/400	350	390	330	380
Nitrate (as N)	3.6 J/3.5 J	2.6	1.7	2.1	2.2
Nitrite (as N)	0.38 J/0.38 J	0.17	0.24	0.16	0.11
Sulfate	100/100	73	67	59	59
Sulfide	3.0 U/3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Total organic carbon (TOC)	5.1/5.0	3.8	4.0	4.3	3.3

MW 31R	10/24/2013 1	10/27/2014 1	10/14/2015 1	10/21/2016 1	10/12/2017 1
FPARAM					
Dissolved oxygen (DO), field	0.12	0.11	0.05	0.00	0.10
Ferrous iron	3.0	0	4.0	-	2.5
Oxidation reduction potential (ORP), field	-125	-23	-135.7	-124.0	-142
pH, field	7.25	6.45	7.05	7.01	6.59
Gas					
Ethane	0.025	0.065	0.059	0.068/0.065	0.19
Ethene	0.61	2.1	1.4	2/2.1	4.7
Methane	0.4	0.97	0.86	0.940.98	2.4
Wet					
Alkalinity, bicarbonate	420	460	620	480/480	450 B
Alkalinity, carbonate	5.0 U	5.0 U	5.0 U	5.0 UI/5.0 U	5.0 U
Chloride	67	69	90	120/120	120
Dissolved organic carbon (DOC)	14	15	10	16/17	18
Hardness	530	540	600	660/650	640
Nitrate (as N)	0.20 J	0.11 H	0.045 J	0.32/0.32	0.10 U
Nitrite (as N)	0.10 UJ	0.10 UH	0.10 U	0.10 UI/0.10 U	0.10 U
Sulfate	140	30	11	65/67	11
Sulfide	3.0 U	3.0 U	3.0 U	3.0 UI/3.0 U	3.0 U
Total organic carbon (TOC)	14	14	11	18/17	19

MW 8	10/24/2013 3s	10/23/2014 3s	10/14/2015 3s	10/21/2016 3s	10/12/2017 3s
FPARAM					
Dissolved oxygen (DO), field	0.19	0.17	0.10	0.00	0.05
Ferrous iron	1.5	1.5	1.5	-	2.5
Oxidation reduction potential (ORP), field	-82	-7	-81.1	-81.0	-75
pH, field	7.09	7.2	7.04	6.99	6.70
Gas					
Ethane	0.016	0.029	0.03	0.018	0.027
Ethene	0.049	0.09	0.085	0.083	0.11
Methane	0.057	0.085	0.16	0.096	0.15
Wet					
Alkalinity, bicarbonate	420	400 B	450	420	410 B
Alkalinity, carbonate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloride	27	17	18	22	19
Dissolved organic carbon (DOC)	3.4	1.9	2.5	2.4	1.7
Hardness	560	520	580	560	570
Nitrate (as N)	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
Nitrite (as N)	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
Sulfate	120	110	210	130	170
Sulfide	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Total organic carbon (TOC)	3.4	2.0	2.3	2.3	1.6

MW 21	10/14/2015 3s	10/21/2016 3s	10/18/2017 3s
FPARAM			
Dissolved oxygen (DO), field	0.20	2.78	0.26
Ferrous iron	2.0	-	2
Oxidation reduction potential (ORP), field	-32.5	81.0	-54
pH, field	7.10	7.02	7.21
Gas			
Ethane	0.0005 U	0.0005 U	0.001 U
Ethene	0.0005 U	0.0005 U	0.001 U
Methane	0.0027	0.0034	0.0021
Wet			
Alkalinity, bicarbonate	350	320	330
Alkalinity, carbonate	5.0 U	5.0 U	5.0 U
Chloride	47	41	41
Dissolved organic carbon (DOC)	7.1	3.9	5.0
Hardness	430	430	410
Nitrate (as N)	0.10 U	0.10 U	0.10 U
Nitrite (as N)	0.10 U	0.10 U	0.10 U
Sulfate	56	54	51
Sulfide	3.0 U	3.0 U	3.0 U
Total organic carbon (TOC)	7.5	4.7	3.5

MW89-11	10/28/2014 3s	10/15/2015 3s	10/25/2016 3s	10/17/2017 3s
FPARAM				
Dissolved oxygen (DO), field	1.59	3.41	0.00	2.59
Ferrous iron	0	0.0	-	1.5
Oxidation reduction potential (ORP), field	173	53.3	316.0	105
pH, field	7.83	6.94	6.81	7.19
Gas				
Ethane	0.0005 U	0.0005 U	0.0005 U/0.0005 U	0.001 U
Ethene	0.0005 U	0.0005 U	0.0005 U/0.0005 U	0.001 U
Methane	0.000681 J	0.00058	0.0023/0.0024	0.001 U
Wet				
Alkalinity, bicarbonate	390 B	400	410/410	390 B
Alkalinity, carbonate	5.0 U	5.0 U	5.0 U/5.0 U	5.0 U
Chloride	43	33	39/38	34
Dissolved organic carbon (DOC)	3.2	1.7	1.3/1.3	2.1
Hardness	470	490	500/500	420
Nitrate (as N)	3.8	7.5	2.9/2.9	4.1
Nitrite (as N)	0.10 UH	0.10 U	0.10 UI/0.10 U	0.10 U
Sulfate	43	46	56/57	55
Sulfide	3.0 U	3.0 U	3.0 UI/3.0 U	3.0 U
Total organic carbon (TOC)	0.96 J	1.3	1.3/1.3	1.3

MW 40	10/24/2013 3s	10/27/2014 3s	10/13/2015 3s	10/20/2016 3s	10/10/2017 3s
FPARAM					
Dissolved oxygen (DO), field	0.17	0.16	0.05	2.49	0.00
Ferrous iron	2.0	0.5	2.5	-	2.5
Oxidation reduction potential (ORP), field	-92	-8	-88.6	10.0	-82
pH, field	7.22	7.14	7.06	7.15	7.47
Gas					
Ethane	0.00086	0.00068	0.00032 J	0.00042 J	0.00034 J/0.00033 J
Ethene	0.0084	0.0059	0.0028	0.0048	0.0039/0.0042
Methane	0.029	0.025	0.017	0.028	0.036/0.03
Wet					
Alkalinity, bicarbonate	320	330	360	340	320 B/320 B
Alkalinity, carbonate	5.0 U	5.0 U	5.0 U	5.0 U	11/8.3
Chloride	20	32	28	35	42/43
Dissolved organic carbon (DOC)	4.5	2.4	2.4	3.3	1.3/1.3
Hardness	490	460	410	430	460/470
Nitrate (as N)	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 UI/0.10 U
Nitrite (as N)	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 UI/0.10 U
Sulfate	140 J	100	120	96	94
Sulfide	3.0 U	3.0 U	3.0 U	3.0 U	70/70
Total organic carbon (TOC)	2.5	2.6	2.7	3.7	3.0 UI/3.0 U 1.3/1.3

MW 57	10/29/2013 3d	10/29/2014 3d	10/19/2015 3d	10/24/2016 3d	10/18/2017 3d
FPARAM					
Dissolved oxygen (DO), field	0.11	0.01	0.11	2.29	0.12
Ferrous iron	0.5	1.5	2.0	-	-
Oxidation reduction potential (ORP), field	-59	0	-59.4	-44.0	-61
pH, field	7.09	7.51	6.89	6.85	7.14
Gas					
Ethane	0.0005 U	0.00043 J	0.00083	0.0017	0.0052
Ethene	0.00093	0.0028	0.00093	0.0042	0.0072
Methane	0.0044	0.033	0.057	0.034	0.057
Wet					
Alkalinity, bicarbonate	370	360	440	370	380
Alkalinity, carbonate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloride	28	35	28	35	32
Dissolved organic carbon (DOC)	3.3	3.7	3.3	3.7	490
Hardness	520	500	510	490	0.10 U
Nitrate (as N)	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Nitrite (as N)	0.10 U	0.10 U	0.10 U	0.10 U	94
Sulfate	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Sulfide	4.5	2.6	2.7	3.7	3.9
Total organic carbon (TOC)					

MW 2	10/29/2014 3d	10/19/2015 3d	10/24/2016 3d	10/17/2017 3d
FPARAM				
Dissolved oxygen (DO), field	0.24	0.15	0.00	0.03
Ferrous iron	0.5	2.0	-	1.5
Oxidation reduction potential (ORP), field	78	-60.7	-23.0	-34
pH, field	6.53	6.93	6.88	7.19
Gas				
Ethane	0.0005 U	0.0005 U	0.0005 U	0.001 U
Ethene	0.0005 U	0.0005 U	0.0005 U	0.001 U
Methane	0.0042	0.015	0.0032	0.0043
Wet				
Alkalinity, bicarbonate	350	430	370	350 B
Alkalinity, carbonate	5.0 U	5.0 U	5.0 U	5.0 U
Chloride	16	25	17	19
Dissolved organic carbon (DOC)	2.3	2.4	2.7	2.8
Hardness	460	490	450	460
Nitrate (as N)	0.069 J	0.10 U	0.88	1.7
Nitrite (as N)	0.10 U	0.10 U	0.10 U	0.029 J
Sulfate	59	76	47	50
Sulfide	3.0 U	3.0 U	3.0 U	3.0 U
Total organic carbon (TOC)	2.9	2.7	2.5	2.7

MW 85	10/29/2014 3d	10/19/2015 3d	10/24/2016 3d	10/17/2017 3d
FPARAM				
Dissolved oxygen (DO), field	0.17	0.37	0.00	0.09
Ferrous iron	2	2.5	-	3
Oxidation reduction potential (ORP), field	-110	-71.8	-80.0	-85
pH, field	9.51	7.00	6.92	7.27
Gas				
Ethane	0.0044	0.0018	0.00079	0.00084 J
Ethene	0.011	0.0061	0.0043	0.0026
Methane	0.023	0.02	0.011	0.016
Wet				
Alkalinity, bicarbonate	340	410	340	340
Alkalinity, carbonate	5.0 U	5.0 U	5.0 U	5.0 U
Chloride	150	120	120	93
Dissolved organic carbon (DOC)	1.5	1.8	1.5	1.6
Hardness	460	430	460	430
Nitrate (as N)	0.10 U	0.10 U	0.10 U	0.10 U
Nitrite (as N)	0.10 U	0.10 U	0.10 U	0.10 U
Sulfate	74	74	69	70
Sulfide	3.0 U	3.0 U	3.0 U	3.0 U
Total organic carbon (TOC)	1.4	1.8	1.5	1.6

MW 68	11/14/2013 3s	4/10/2014 3s	10/23/2014 3s	10/13/2015 3s	10/20/2016 3s	10/11/2017 3s
FPARAM						
Dissolved oxygen (DO), field	0.16	3.8	0.96	0.07	0.00	0.09
Ferrous iron	-	1	1	2.0	-	1
Oxidation reduction potential (ORP), field	-99	-49	153	-77.1	20.0	-77
pH, field	7.38	6.57	4.83	7.07	7.17	6.71
Gas						
Ethane	0.00022 J/0.0005 U	0.0005 U	0.0005 U	0.0005 UI/0.0005 U	0.0005 U	0.001 U
Ethene	0.0044/0.0046	0.0056	0.0015	0.001/0.00099	0.00054	0.0013
Methane	0.026/0.025	0.027	0.017	0.011/0.011	0.00063	0.0053
Wet						
Alkalinity, bicarbonate	270/280	340	330 B	370/370	330	250 B
Alkalinity, carbonate	5.0 UI/5.0 U	5.0 U	5.0 U	5.0 UI/5.0 U	5.0 U	5.5
Chloride	51/51	49	43	34/34	34	29
Dissolved organic carbon (DOC)	2.0/2.1	2.3	1.2	1.9/1.9	1.3	1.6
Hardness	430/430	410	400	400/400	380	400
Nitrate (as N)	0.10 UI/0.10 U	0.10 U	0.10 U	0.10 UI/0.10 U	0.10 U	0.10 U
Nitrite (as N)	0.10 UI/0.10 UH	0.10 U	0.10 U	0.10 UI/0.10 U	0.10 U	0.10 U
Sulfate	74/74	100	68	67	62	72
Sulfide	3.0 UI/3.0 U	3.0 U	3.0 U	3.0 UI/3.0 U	3.0 U	3.0 U
Total organic carbon (TOC)	0.76 J/0.82 J	1.4	1.0	1.0	1.3	1.0

MW-4	10/29/2013 3d	10/29/2014 3d	10/19/2015 3d	10/24/2016 3d	10/17/2017 3d
FPARAM					
Dissolved oxygen (DO), field	0.07	0.12	0.18	0.00	0.06
Ferrous iron	0.5	1.5	1.0	-	2.5
Oxidation reduction potential (ORP), field	-22	-24	-69.2	-52.0	-74
pH, field	7.15	8.41	6.98	6.90	7.29
Gas					
Ethane	0.0024	0.0042	0.002	0.00067	0.001/0.00086 J
Ethene	0.0068	0.011	0.031	0.015	0.010.011
Methane	0.026	0.026	0.022	0.011	0.011/0.012
Wet					
Alkalinity, bicarbonate	400	350	410	350	310/310
Alkalinity, carbonate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U/5.0 U
Chloride	78	80	62	56	51/51
Dissolved organic carbon (DOC)	3.1	1.6	2.0	1.6	1.6/1.7
Hardness	490	450	430	480	410/400
Nitrate (as N)	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U/0.10 U
Nitrite (as N)	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U/0.10 U
Sulfate	110 J	76	77	72	71/71
Sulfide	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U/3.0 U
Total organic carbon (TOC)	3.2	1.5	1.8	1.6	1.7/1.8

MW 64	10/28/2014 3d	10/13/2015 3d	10/20/2016 3d	10/10/2017 3d
FPARAM				
Dissolved oxygen (DO), field	0.3	0.12	3.09	1.00
Ferrous iron	0	0.5	-	0.5
Oxidation reduction potential (ORP), field	4	-28.3	217.0	8
pH, field	8.12	7.07	7.19	7.51
Gas				
Ethane	0.00055	0.00031 J	0.00023 J	0.0005 U
Ethene	0.00045 J	0.00025 J	0.00027 J	0.00026 J
Methane	0.002	0.00078	0.00039 J	0.00043 J
Wet				
Alkalinity, bicarbonate	280 B	310	190	270
Alkalinity, carbonate	5.0 U	5.0 U	5.0 U	5.0 U
Chloride	48	52	36	48
Dissolved organic carbon (DOC)	1.2	1.7	3.4	2.0
Hardness	410	390	300	400
Nitrate (as N)	0.10 U	0.10 U	0.13	0.10 U
Nitrite (as N)	0.10 UH	0.10 U	0.10 U	0.10 U
Sulfate	81	75	82	79
Sulfide	3.0 U	3.0 U	3.0 U	3.0 U
Total organic carbon (TOC)	1.0	1.5	3.2	1.9

MW 66	10/24/2014 3d	10/27/2014 3d	10/13/2015 3d	10/20/2016 3d	10/10/2017 3d
FPARAM					
Dissolved oxygen (DO), field	0.14	-	0.05	0.00	0.07
Ferrous iron	0.5	-	1.0	-	1
Oxidation reduction potential (ORP), field	59	-	-51.4	66.0	-52
pH, field	6.28	-	7.04	7.15	7.49
Gas					
Ethane	-	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Ethene	-	0.00044 J	0.00034 J	0.0005 U	0.0005 U
Methane	-	0.0064	0.0048	0.0025	0.0065
Wet					
Alkalinity, bicarbonate	-	320	330	300	250
Alkalinity, carbonate	-	5.0 U	5.0 U	5.0 U	5.0 U
Chloride	-	35	47	46	47
Dissolved organic carbon (DOC)	-	1.2	1.4	1.2	1.1
Hardness	-	400	390	360	390
Nitrate (as N)	-	0.10 U	0.10 U	0.10 U	0.10 U
Nitrite (as N)	-	0.10 U	0.10 U	0.10 U	0.10 U
Sulfate	-	68	69	71	71
Sulfide	-	3.0 U	3.0 U	3.0 U	3.0 U
Total organic carbon (TOC)	-	1.1	1.4	1.1	1.1

MW 58	10/29/2014 3d	10/20/2015 3d	10/25/2016 3d	10/17/2017 3d
FPARAM				
Dissolved oxygen (DO), field	0.27	0.12	0.00	0.20
Ferrous iron	0.5	1.0	-	3
Oxidation reduction potential (ORP), field	-24	-38.0	6.0	-36
pH, field	8.53	6.92	6.85	7.14
Gas				
Ethane	0.00062	0.00058/0.00055	0.00029 J	0.00029 J
Ethene	0.00073	0.00072/0.00072	0.00025 J	0.00041 J
Methane	0.018	0.016/0.0094	0.0067	0.0082
Wet				
Alkalinity, bicarbonate	330	440/440	380	390
Alkalinity, carbonate	5.0 U	5.0 UI/5.0 U	5.0 U	5.0 U
Chloride	50	42/43	35	31
Dissolved organic carbon (DOC)	1.7	1.7/1.8	2.1	2.1
Hardness	420	510/510	520	470
Nitrate (as N)	0.10 U	0.10 UI/0.10 U	0.036 J	0.10 U
Nitrite (as N)	0.10 U	0.10 UI/0.10 U	0.10 U	0.10 U
Sulfate	59	110/110	100	95
Sulfide	3.0 U	3.0 UI/3.0 U	3.0 U	3.0 U
Total organic carbon (TOC)	1.7	2.3/2.2	2.2	2.1

LEGEND

- SITE BOUNDARY
- LOT LINE
- RAILROAD
- FENCE LINE
- BUILDING
- MONITORING WELL LOCATION

0 100 300ft

MW-4	10/29/2013 3d
FPARAM	
Dissolved oxygen (DO), field	0.07
Ferrous iron	0.5
Oxidation reduction potential (ORP), field	-22
pH, field	7.15
Gas	
Ethane	0.0024
Ethene	0.0068
Methane	0.026
Wet	
Alkalinity, bicarbonate	400
Alkalinity, carbonate	5.0 U
Chloride	78
Dissolved organic carbon (DOC)	3.1
Hardness	490
Nitrate (as N)	0.10 U
Nitrite (as N)	0.10 U
Sulfate	110 J
Sulfide	3.0 U
Total organic carbon (TOC)	3.2

- SAMPLE LOCATION
- SAMPLE DATE GEOLOGIC UNIT
- CONCENTRATION (mg/L)
- PARAMETER

WS - SURFACE WATER
1 - UNIT 1, PERCHED GROUNDWATER IN FILL
3S - UNIT 3, SHALLOW GROUNDWATER IN UPPERMOST AQUIFER
3I - UNIT 3, INTERMEDIATE GROUNDWATER IN UPPERMOST AQUIFER
3D - UNIT 3, DEEP GROUNDWATER IN UPPERMOST AQUIFER
B - BEDROCK, GROUNDWATER IN BEDROCK AQUIFER

SAMPLE LOCATIONS INCLUDED IN GMP

NOTES:
1. Results are shown in mg/L, except for pH (Field) (s.u.), and ORP (millivolts).
2. Parameters that do not appear in the databox for a particular sample were not analyzed.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

2915 DR. MARTIN LUTHER KING JR. BLVD., ANDERSON, IN

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

2017 ANNUAL MONITORING REPORT

GROUNDWATER RESULTS
MNA PARAMETERS (2013 - 2017)

GHD

Source Reference:

Project Manager:	Reviewed By:	Date:	
R. CATALLO	R. CATALLO	DECEMBER 2017	
Scale: 1"=300'	Project №: 017302-T07	Report №: 054	Drawing №: 13

017302-T07(054)GN-SC012 DEC 20, 2017

Tables

Table 1

Site-Wide Groundwater Monitoring Program
2017 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Monitoring Well Location	*Hydro-Geologic Unit*	*Year Installed*	*Plume Position* [6]	*Monitored 3 x Per Year* [7]	*Semiannual Monitoring*	*Annual Monitoring*
MW-2	3d	2003	WWTP, Margin			X [8,9]
MW 3	3s	1992	AOC 1, Source		X [8,9]	
MW-4	3d	2003	WWTP, Tail		X [8,9]	
MW-7 [5]	3d	2003	WWTP, Margin			X [8]
MW 8	3s	1993	AOC 1, Source		X [8,9]	
MW 12	3i	1993	AOC 1, Tail		X [8]	
MW 14	3s	1993	AOC 1, Tail		X [8]	
MW 15 [3]	3s	1993	AOC 1, Source			X [8,9]
MW 16 [4]	3s	1993	AOC 1, Margin			X [8]
MW 21 [3]	3s	2000	AOC 1, Margin			X [8,9]
MW 28	3d	2000	WWTP, Tail		X [8]	
MW 31R [1]	1	2000	AOC 1, Source		X [8,9]	
MW 37 [1]	3s	2001	AOC 1, Margin			X [8]
MW 40	3s	2003	WWTP, Source		X [8,9]	
MW 41	3d	2003	WWTP, Source		X [8]	
MW 42	3s	2003	WWTP, Source		X [8]	
MW 46 [1]	3s	2003	AOC 1, Margin			X [8]
MW 49	3s	2003	AOC 1, Tail		X [8,9]	
MW 51	3s	2003	AOC 1, Tail		X [8]	
MW 56	3d	2004	WWTP, Margin			X [8]
MW 57	3d	2004	WWTP, Margin			X [8,9]
MW 58	3d	2004	WWTP, Margin			X [8,9]
MW 61	3d	2004	WWTP, Margin			X [8]
MW 64	3d	2004	WWTP, Margin			X [8,9]
MW 65	3d	2004	WWTP, Margin			X [8]
MW 66	3d	2004	WWTP, Tail		X [8,9]	
MW 68	3s	2004	WWTP, Source		X [8,9]	
MW 75	3d	2004	AOC 1, Margin			X [8]
MW 76R-17	3s	2017	AOC 1, Margin			X [8]
MW 79	3s	2004	AOC 1, Tail		X [8,9]	
MW 80	3d	2005	WWTP, Margin			X [8]
MW 81	B	2005	WWTP, Margin			X [8]
MW 82	B	2005	AOC 1, Margin			X [8]
MW 83	B	2005	WWTP, Margin			X [8]
MW 84 [4]	3S	2005	WWTP, Margin			X [8]
MW 85	3d	2007	WWTP, Tail		X [8,9]	
MW 86	3d	2010	WWTP, Tail			X [8]
MW 88	3d	2010	WWTP, Tail			X [8]
MW 89-11 [2]	3s	2011	AOC 1, Tail		X [8,9]	
MW 97R-16 [3]	3d	2015	WWTP, Margin			X [8]
Pond (Intake)	Surface Water	N/A	Surface Water	X [8]		
Pond (North)	Surface Water	N/A	Surface Water	X [8]		

Notes:

(1) Well added to the monitoring program based on IDEM review comments 5/2/2008
(2) Well added to the monitoring program based on recommendation letter dated 4/18/2012 and approved by IDEM on 5/11/2012
(3) Well added to the monitoring program based on recommendation from the 2014 Annual Monitoring Report (2/2/2015) and approved by IDEM on 6/1/2015
(4) Well added to the monitoring program based on IDEM review comments 5/7/2015
(5) Well added to the monitoring program based on recommendation from the 2016 Annual Monitoring Report (1/31/2017) and approved by IDEM on 8/10/2017
(6) AOC 1 = VOC plume originating at AOC 1 - South Court
WWTP = VOC plume originating from former WWTP Area
Source = VOC source area well
(7) Locations to be sampled Spring, Summer, and Fall
(8) TCL VOCs: Target Compound List Volatile Organic Compounds
(9) MNA - Monitored Natural Attenuation Parameters collected during the Fall Event (Dissolved Gases, Sulfide, Alkalinity, Hardness, Dissolved Organic Carbon (DOC), Total Organic Carbon (TOC), Chloride, Sulfate, Nitrate, Nitrite, Manganese)

Table 2

Monitoring Well Construction and Surface Water Benchmark Details
2017 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Monitoring Well Location	*Hydro-Geologic Unit*	*Northing* [1]	*Easting* [1]	*Datum El.* [2,3]	*Revised Datum El.* [2,3]	*Screen Top* [2]	*Screen Bottom* [2]
MW 1	3s	1761110.3	317311.1	880.86(4)	880.86[4]	864.50	860.21
MW 2	3s	1761003.2	317244.7	879.70		864.75	860.47
MW2 R	3s	1760999.3	317243.9	879.68	879.25[4]	864.46	860.18
MW 3	3s	1761137.6	317370.2	880.51	880.41[4]	864.53	860.25
MW 4	3s	1761089.4	317240.2	880.78		865.97	861.48
MW 5	3s	1761134.5	317368.7	880.54		852.93	843.53
MW 6	3s	1760666.3	316823.5	878.22		864.80	855.18
MW 7	3d	1760663.6	316830.5	878.18		835.40	830.82
MW 8	3s	1760896.0	317004.4	878.41		863.33	853.74
MW 9	3s	1761218.5	316990.4	881.65		866.31	856.70
MW 10	3s	1761128.0	317115.5	880.88		866.30	856.67
MW 11	3s	1761699.0	317145.5	882.68		861.51	851.88
MW 12	3i	1761692.8	317141.2	882.78		833.84	829.26
MW 13	3s	1761430.2	317517.7	881.25		866.13	856.50
MW 14	3s	1761435.2	317520.1	881.36		852.63	848.06
MW 15	3s	1761140.7	317459.5	879.67		864.76	855.13
MW 16	3s	1761203.4	317969.5	878.65	879.83[4]	864.01	854.40
MW 17	3s	1761207.9	317966.4	878.30	879.86[4]	853.30	848.72
MW 18	3s	1761337.0	317687.7	878.88	881.08[5]	858.88	854.15
MW 19	3s	1761304.0	317721.7	878.54	880.75[5]	858.75	854.04
MW 20	3s	1761098.7	317705.5	877.70		852.50	847.76
MW 21	3s	1760520.1	316698.0	878.74		850.92	846.20
MW 22	3s	1760525.5	316702.1	879.11		861.67	856.92
MW 23	3s	1761096.0	317715.2	877.68		860.71	855.97
MW 24	3d	1762007.5	317041.2	882.77		803.78	794.03
MW 25	3s	1762008.7	317047.0	882.85		853.75	844.00
MW 26	3d	1763564.6	319256.7	883.09		840.65	830.82
MW 27	1	1763566.5	319262.7	883.04		853.15	848.42
MW 28	3d	1761964.9	318819.0	877.44		834.40	824.66
MW 29	3s	1761971.1	318822.0	877.53		862.21	852.49
MW 30	1	1760992.0	317335.2	878.50		868.64	863.95
MW 31	1	1761074.5	317365.6	879.22		872.17	867.91
MW 31R	1	1761074.5	317365.6	879.71		871.58	866.90
MW 32	1	1760855.5	316937.0	878.88		871.99	867.71
MW 33	1	1760961.5	316889.2	880.01		873.05	868.76
MW 34	1	1761281.2	316498.1	883.67		858.38	849.03
MW 35	3d	1761273.9	316512.3	883.96		828.90	819.56
MW 36	3d	1760540.9	317908.8	870.09		850.97	846.24
MW 37	3s	1760543.9	317904.2	869.95		860.74	856.00
MW 38	3d	1760964.00	317719.32	877.65		846.42	836.74
MW 39	3d	1761249.83	318526.24	879.51		836.29	826.56
MW 40	3s	1761254.51	318528.40	879.51		851.37	841.64
MW 41	3d	1761575.05	318740.73	878.58	878.26[5]	839.63	834.92
MW 42	3s	1761579.24	318742.21	878.54	878.19[5]	854.93	845.20
MW 43	3d	1762141.24	318947.24	876.00		818.86	814.13
MW 44	3s	1762145.28	318948.82	876.02		853.74	844.02
MW 45	3d	1760998.51	318060.78	873.72		833.77	824.04
MW 46	3s	1761002.51	318062.71	873.64		859.63	854.92
MW 47	3s	1760620.47	316995.56	880.27		856.99	852.27
MW 48	3d	1760837.68	317340.18	877.96		838.96	834.25
MW 49	3s	1760839.93	317343.16	877.93		855.69	845.98
MW 50	3d	1762359.73	318367.08	878.27		839.92	835.20
MW 51	3s	1762357.18	318371.66	878.19		855.93	851.20
MW 52	3d	1761696.65	317137.65	882.69		797.11	787.39
MW 53	3d	1761894.20	317087.64	881.43		758.27	748.62
MW 54	3d	1761482.29	316871.62	880.37		820.55	810.82
MW 55	3s	1761482.41	316867.16	880.28		851.42	841.69
MW 56	3d	1760254.76	318422.25	859.32		847.93	838.27
MW 57	3d	1760357.35	318925.21	862.52		842.68	833.38
MW 58	3d	1760809.76	319598.52	861.46		854.35	849.69
MW 59	3s	1761696.70	318223.89	882.00		852.77	848.03

Table 2

Monitoring Well Construction and Surface Water Benchmark Details
2017 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Monitoring Well Location	*Hydro-Geologic Unit*	*Northing* [1]	*Easting* [1]	*Datum El.* [2,3]	*Revised Datum El.* [2,3]	*Screen Top* [2]	*Screen Bottom* [2]
MW 60	3s	1761917.38	317944.64	881.77		847.95	843.24
MW 61	3d	1762477.48	319069.90	876.57		823.11	813.40
MW 62	B	1762498.26	319076.96	876.70		783.65	773.95
MW 63	3s	1762488.77	319074.19	876.53		846.17	841.45
MW 64	3d	1761475.47	319789.86	863.97		853.22	843.56
MW 65	3d	1761484.84	319399.81	864.22		853.47	843.80
MW 66	3d	1761222.31	319634.36	861.67		853.73	844.02
MW 67	3d	1761427.43	318463.83	877.03		835.69	831.02
MW 68	3s	1761420.80	318459.32	876.98		846.75	842.09
MW 69	3d	1760874.10	316649.68	882.08		833.90	829.23
MW 70	3s	1760874.50	316644.87	881.82		849.98	840.32
MW 71	B	1762665.14	317640.98	878.16		761.95	752.31
MW 72	3s	1762672.70	317638.05	877.74		847.86	838.06
MW 73	3d	1762677.33	317644.90	877.96		797.57	787.91
MW 74	B	1760621.78	316817.18	881.10		818.81	809.07
MW 75	3d	1762950.00	318486.45	881.42	882.39[5]	801.31	791.63
MW 76	3s	1762951.84	318492.81	881.11		831.97	822.34
MW 76R-17	3s	1762955.72	318491.34	882.54		832.65	822.65
MW 77	B	1760238.33	319661.11	862.77		851.67	842.04
MW 78	3s	1761873.71	317734.00	882.25		855.48	850.75
MW 79	3s	1761750.49	317811.99	881.92		841.69	836.96
MW 80	3d	1761928.33	319258.30	865.49		841.54	836.84
MW 81	B	1761479.01	319399.60	864.38		839.58	829.88
MW 82	B	1761198.31	317978.59	878.55	879.70[4]	782.27	772.54
MW 83	B	1761260.12	318746.50	876.23		801.58	791.93
MW 84	3s	1761539.65	318105.07	881.95		848.97	844.25
MW 85	3d	1760642.54	319141.95	866.11		851.62	842.11
MW 86	3d	1762422.91	320453.85	859.12		841.15	836.67
MW 87	3d	1761790.75	320918.50	861.51		848.40	843.91
MW 88	3d	1762463.35	319813.49	859.59		829.41	819.91
MW 89-11	3s	1760693.90	317605.91	875.39		865.74	855.74
MW 90-12	1	1762368.16	318146.02	884.31		878.01	873.01
MW91-12	1	1762277.18	318106.74	884.50		877.30	872.30
MW 92-13	3s	1762364.98	318152.94	884.31		853.21	848.21
MW 93-13	3s	1761325.52	318397.91	880.71		848.09	843.09
MW 94-13	3s	1761506.98	318516.06	880.77		843.09	838.09
MW 95-13	3s	1761465.96	318360.70	884.13		856.53	851.53
MW 96-13	3s	1761495.10	318257.10	884.18		854.14	849.14
MW 97-14	3d	1760141.03	319196.24	860.14		849.35	844.35
MW 97R-16	3d	1760065.02	319224.15	864.87		852.54	847.54
ER-1	1	1761864.90	317412.04	881.93		868.16	858.16
ER-2	1	1761856.43	317394.55	881.96		872.19	862.19
ER-3	1	1761856.37	317361.47	882.09		872.28	862.28
Meadowbrook Golf Course Wells							
MW-1	3d	1759686.91	317622.12	859.18		855.67	847.67
MW-2	3d	1760047.06	319467.27	860.08		857.31	851.31
MW-3	3d	1760956.57	320710.96	862.68		860.06	851.36
MW-4	3d	1760961.86	318774.81	861.67		859.08	839.08
MW-5	3d	1760305.51	320618.11	871.01		866.49	853.49
MW-6	3d	1760511.36	320752.07	868.92		862.30	844.30
MW-7	3d	1760523.65	320689.67	869.69		864.01	844.01
Surface Water							
TBM-1	3d	1759953.34	320818.16	862.50		NA	NA
TBM-2	3d	1760924.00	320538.74	860.41		NA	NA
TBM-3	3d	1760214.40	318958.42	858.97		NA	NA
TBM-4	3d	1759888.87	318295.42	860.51		NA	NA
TBM-5	3d	1759672.93	318693.89	857.49		NA	NA
TBM-6	3d	1759806.90	319657.43	857.82		NA	NA
Culvert 1	3d	1760552.00	319168.00	857.79		NA	NA

Notes:
(1) Coordinates are Indiana State Plane Coordinate System, 1301 East, NAD 83, US Survey Feet.
(2) Elevation based on level survey relative to USGS Monument PID LA1429 = 882.61 NAVD88.
(3) Datum for elevation and depth is marked on top of PVC riser pipe.
(4) Survey revised in 2010
(5) Survey revised in 2017
NM - Not Measured
NA - Not Applicable

Table 3

Groundwater Elevation Data 2017
2017 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

			18-Oct-16		17-Apr-17		3-Oct-17	
Monitoring Well Location	Hydro-Geologic Unit	Riser Elevation (f NAVD 88)	Depth to Water (f btor)	Groundwater Elevation (f NAVD 88)	Depth to Water (f btor)	Groundwater Elevation (f NAVD 88)	Depth to Water (f btor)	Groundwater Elevation (f NAVD 88)
MW2 R	3s	879.25	16.44	862.81	-	-	-	-
MW 3	3s	880.41	17.78	862.63	15.58	864.83	17.70	862.71
MW 5	3s	880.54	17.75	862.79	-	-	17.67	862.87
MW 6	3s	878.22	14.70	863.52	-	-	14.81	863.41
MW 7	3d	878.18	14.70	863.48	-	-	14.79	863.39
MW 8	3s	878.41	15.22	863.19	12.73	865.68	15.26	863.15
MW 12	3i	882.78	19.62	863.16	17.32	865.46	19.48	863.30
MW 14	3s	881.36	18.96	862.40	16.80	864.56	18.78	862.58
MW 15	3s	879.67	17.19	862.48	15.06	864.61	17.10	862.57
MW 16	3s	879.83	16.86	862.97	15.42	864.41	16.70	863.13
MW 17	3s	879.86	16.86	863.00	-	-	16.72	863.14
MW 18	3s	881.08	22.01	859.07	-	-	21.92	859.16
MW 19	3s	880.75	5.09	875.66	-	-	5.08	875.67
MW 21	3s	878.74	14.90	863.84	12.08	866.66	15.15	863.59
MW 22	3s	879.11	15.29	863.82	-	-	15.47	863.64
MW 26	3d	883.09	25.82	857.27	-	-	25.75	857.34
MW 27	1	883.04	22.54	860.50	-	-	23.02	860.02
MW 28	3d	877.44	19.69	857.75	18.86	858.58	19.80	857.64
MW 29	3s	877.53	15.06	862.47	14.30	863.23	14.48	863.05
MW 31R	1	879.71	7.74	871.97	7.09	872.62	8.46	871.25
MW 36	3d	870.09	10.89	859.20	-	-	10.72	859.37
MW 37	3s	869.95	8.43	861.52	7.02	862.93	8.61	861.34
MW 39	3d	879.51	21.39	858.12	-	-	21.55	857.96
MW 40	3s	879.51	21.42	858.09	20.67	858.84	21.55	857.96
MW 41	3d	878.26	25.49	852.77	24.15	854.11	25.12	853.14
MW 42	3s	878.19	25.07	853.12	24.28	853.91	25.18	853.01
MW 45	3d	873.72	15.52	858.20	-	-	14.59	859.13
MW 46	3s	873.64	10.79	862.85	9.35	864.29	10.67	862.97
MW 47	3s	880.27	17.03	863.24	-	-	17.60	862.67
MW 48	3d	877.96	-	-	43.70	834.26	-	-
MW 49	3s	877.93	-	-	-	-	-	-
MW 50	3d	878.27	17.00	861.27	-	-	16.65	861.62
MW 51	3s	878.19	16.67	861.52	15.42	862.77	16.29	861.90
MW 56	3d	859.32	2.10	857.22	1.84	857.48	2.27	857.05
MW 57	3d	862.52	5.35	857.17	5.18	857.34	5.63	856.89
MW 58	3d	861.46	5.15	856.31	4.23	857.23	4.65	856.81
MW 59	3s	882.00	26.12	855.88	18.07	863.93	18.68	863.32
MW 60	3s	881.77	20.11	861.66	-	-	19.91	861.86
MW 61	3d	876.57	19.13	857.44	18.31	858.26	19.25	857.32
MW 62	B	876.70	18.60	858.10	-	-	18.57	858.13
MW 63	3s	876.53	17.95	858.58	-	-	17.86	858.67
MW 64	3d	863.97	6.86	857.11	6.27	857.70	7.50	856.47
MW 65	3d	864.22	8.86	855.36	6.27	857.95	7.03	857.19
MW 66	3d	861.67	4.53	857.14	4.04	857.63	4.74	856.93
MW 67	3d	877.03	18.93	858.10	-	-	19.05	857.98
MW 68	3s	876.98	18.67	858.31	17.85	859.13	18.80	858.18
MW 74	B	881.10	16.64	864.46	-	-	16.99	864.11
MW 75	3d	882.23	22.24	859.99	20.83	861.40	22.00	860.23
MW 76R-17	3s	882.54	-	-	-	-	21.95	860.59
MW 77	B	862.77	5.81	856.96	-	-	6.02	856.75
MW 79	3s	881.92	19.91	862.01	17.98	863.94	20.83	861.09
MW 80	3d	865.49	8.23	857.26	7.61	857.88	8.44	857.05
MW 81	B	864.38	7.12	857.26	6.46	857.92	7.25	857.13
MW 82	B	879.70	16.31	863.39	13.81	865.89	16.38	863.32
MW 83	B	876.23	18.70	857.53	17.55	858.68	18.90	857.33
MW 84	3s	881.95	19.03	862.92	18.04	863.91	18.94	863.01
MW 85	3d	866.11	9.02	857.09	8.73	857.38	9.20	856.91
MW 86	3d	859.12	3.15	855.97	2.40	856.72	3.50	855.62
MW 87	3d	861.51	2.07	859.44	-	-	2.50	859.01
MW 88	3d	859.59	3.02	856.57	2.30	857.29	3.27	856.32
MW 89-11	3s	875.39	13.12	862.27	11.09	864.30	13.15	862.24
MW 90-12	1	884.31	8.79	875.52	-	-	9.98	874.33
MW91-12	1	884.50	8.63	875.87	-	-	9.78	874.72
MW 92-13	3s	884.31	23.00	861.31	-	-	22.67	861.64
MW 93-13	3s	880.71	22.41	858.30	-	-	22.55	858.16
MW 94-13	3s	880.77	22.51	858.26	-	-	22.64	858.13
MW 95-13	3s	884.13	21.78	862.35	-	-	21.63	862.50

Table 3

Groundwater Elevation Data 2017
2017 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

			18-Oct-16		*17-Apr-17*		*3-Oct-17*	
Monitoring Well Location	***Hydro-Geologic Unit***	***Riser Elevation (f NAVD 88)***	***Depth to Water (f btor)***	***Groundwater Elevation (f NAVD 88)***	***Depth to Water (f btor)***	***Groundwater Elevation (f NAVD 88)***	***Depth to Water (f btor)***	***Groundwater Elevation (f NAVD 88)***
MW 96-13	3s	884.18	21.23	862.95	-	-	20.93	863.25
MW 97R-16	3d	864.87	7.87	857.00	7.71	857.16	8.14	856.73
Meadowbrook Golf Course Wells								
MW-1	3d	859.18	1.15	858.03	-	-	1.25	857.93
MW-2	3d	860.08	3.02	857.06	2.76	857.32	3.23	856.85
MW-3	3d	862.68	2.72	859.96	-	-	3.14	859.54
MW-4	3d	861.67	4.20	857.47	3.74	857.93	4.38	857.29
MW-7	3d	869.69	9.48	860.21	-	-	10.03	859.66
Pond (North)	Surface Water	857.79	0.72	857.07	0.56	857.23	1.20	856.59

Notes:
(1) btor - below top of riser (i.e., reference elevation).
(2) Elevation based on level survey relative to USGS Monument PID LA1429 = 882.61 NAVD88.
(3) Datum for elevation and depth is marked on top of PVC riser pipe.
(4) Blank table entries indicate that reference location was not installed at the time measurements were taken. A dash (-) indicates that the location was not measured.

Table 4

Sample Key
2017 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location	*Sample Identification*	*Sample Date*	*Time*	*Matrix*	*Sample Type*	*Parent Sample*	*TCL VOCs*	*MNA Parameters*
MW-2	GW-101717-BE-036	10/17/17	16:08	GW	N	--	X	X
MW 3	GW-17302-041817-TW-10	04/18/17	18:15	GW	N		X	
MW 3	GW-101217-BE-018	10/12/17	11:23	GW	N	--	X	X
MW-4	GW-17302-041817-TW-04	04/18/17	10:50	GW	N		X	
MW-4	GW-101717-BE-032	10/17/17	10:43	GW	N	--	X	X
MW-4	GW-101717-BE-033	10/17/17	10:47	GW	FD	GW-101717-BE-032	X	X
MW-7	GW-101817-BE-040	10/18/17	13:23	GW	N	--	X	
MW-7	GW-101817-BE-041	10/18/17	13:26	GW	FD	GW-101817-BE-040	X	
MW 8	GW-17302-041817-TW-09	04/18/17	17:10	GW	N		X	
MW 8	GW-101217-BE-019	10/12/17	13:43	GW	N	--	X	X
MW 12	GW-17302-041917-TW-11	04/19/17	9:35	GW	N		X	
MW 12	GW-100617-BE-004	10/06/17	16:03	GW	N	--	X	
MW 14	GW-17302-041817-TW-07	04/18/17	15:55	GW	N		X	
MW 14	GW-17302-041817-TW-08	04/18/17	16:00	GW	FD	GW-17302-041819-TW-07	X	
MW 14	GW-101317-BE-026	10/13/17	15:03	GW	N	--	X	
MW 14	GW-101317-BE-027	10/13/17	15:06	GW	FD	GW-101317-BE-026	X	
MW 15	GW-101117-BE-016	10/11/17	16:21	GW	N	--	X	X
MW 16	GW-101217-BE-022	10/12/17	15:56	GW	N	--	X	
MW 21	GW-101817-BE-039	10/18/17	11:00	GW	N	--	X	X
MW 28	GW-17302-041917-TW-18	04/19/17	17:30	GW	N		X	
MW 28	GW-100917-BE-006	10/09/17	12:27	GW	N	--	X	
MW 31R	GW-17302-041917-TW-12	04/19/17	10:55	GW	N		X	
MW 31R	GW-101217-BE-017	10/12/17	9:52	GW	N	--	X	X
MW 37	GW-101617-BE-028	10/16/17	11:43	GW	N	--	X	
MW 40	GW-17302-041917-TW-15	04/19/17	14:40	GW	N		X	
MW 40	GW-101017-BE-010	10/10/17	15:20	GW	N	--	X	X
MW 40	GW-101017-BE-011	10/10/17	15:24	GW	FD	GW-101017-BE-010	X	X
MW 41	GW-17302-041917-TW-16	04/19/17	15:40	GW	N		X	
MW 41	GW-100917-BE-008	10/09/17	15:52	GW	N	--	X	
MW 42	GW-17302-041917-TW-17	04/19/17	16:25	GW	N		X	
MW 42	GW-100917-BE-007	10/09/17	14:50	GW	N	--	X	
MW 46	GW-101617-BE-029	10/16/17	13:23	GW	N	--	X	
MW 51	GW-17302-041817-TW-06	04/18/17	14:40	GW	N		X	
MW 51	GW-101617-BE-031	10/16/17	17:33	GW	N	--	X	
MW 56	GW-101817-BE-044	10/18/17	16:52	GW	N	--	X	
MW 57	GW-101817-BE-043	10/18/17	15:48	GW	N	--	X	X
MW 58	GW-101717-BE-035	10/17/17	14:33	GW	N	--	X	X
MW 61	GW-100917-BE-005	10/09/17	11:27	GW	N	--	X	
MW 64	GW-101017-BE-009	10/10/17	12:55	GW	N	--	X	X
MW 65	GW-100617-BE-001	10/06/17	10:53	GW	N	--	X	
MW 66	GW-17302-041917-TW-14	04/19/17	13:05	GW	N		X	
MW 66	GW-101017-BE-012	10/10/17	17:07	GW	N	--	X	X
MW 68	GW-17302-041717-TW-01	04/17/17	16:00	GW	N		X	
MW 68	GW-101117-BE-013	10/11/17	10:32	GW	N	--	X	X
MW 75	GW-101617-BE-030	10/16/17	16:38	GW	N	--	X	
MW 76R-17	GW-101817-BE-038	10/18/17	10:07	GW	N	--	X	
MW 79	GW-17302-041717-TW-02	04/17/17	17:30	GW	N		X	
MW 79	GW-17302-041717-TW-03	04/17/17	17:35	GW	FD	GW-17302-041719-TW-02	X	
MW 79	GW-101117-BE-015	10/11/17	14:26	GW	N	--	X	X
MW 80	GW-100617-BE-003	10/06/17	14:37	GW	N	--	X	
MW 81	GW-100617-BE-002	10/06/17	12:14	GW	N	--	X	
MW 82	GW-101217-BE-020	10/12/17	14:53	GW	N	--	X	
MW 82	GW-101217-BE-021	10/12/17	14:57	GW	FD	GW-101217-BE-020	X	
MW 83	GW-101117-BE-014	10/11/17	12:13	GW	N	--	X	
MW 84	GW-101317-BE-025	10/13/17	13:08	GW	N	--	X	
MW 85	GW-17302-041817-TW-05	04/18/17	12:20	GW	N		X	
MW 85	GW-101717-BE-034	10/17/17	13:18	GW	N	--	X	X
MW 86	GW-101317-BE-024	10/13/17	11:28	GW	N	--	X	
MW 88	GW-101317-BE-023	10/13/17	10:13	GW	N	--	X	
MW 89-11	GW-17302-041917-TW-13	04/19/17	11:55	GW	N		X	
MW 89-11	GW-101717-BE-037	10/17/17	18:03	GW	N	--	X	X
MW 97R-16	GW-101817-BE-042	10/18/17	15:08	GW	N	--	X	
Pond (Intake)	SW-17302-041817-TW-03	04/18/17	12:40	SW	N		X	
Pond (Intake)	SW-071217-TP-001	07/12/17	10:15	SW	N	--	X	

Table 4

Sample Key
2017 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location	*Sample Identification*	*Sample Date*	*Time*	*Matrix*	*Sample Type*	*Parent Sample*	*TCL VOCs*	*MNA Parameters*
Pond (Intake)	SW-101917-BE-001	10/19/17	12:20	SW	N	--	X	
Pond (North)	SW-17302-041817-TW-01	04/18/17	12:10	SW	N		X	
Pond (North)	SW-17302-041817-TW-02	04/18/17	12:15	SW	N		X	
Pond (North)	SW-071217-TP-002	07/12/17	10:27	SW	N	--	X	
Pond (North)	SW-071217-TP-003	07/12/17	10:29	SW	FD	SW-071217-TP-002	X	
Pond (North)	SW-101917-BE-002	10/19/17	12:30	SW	N	--	X	
Equipment Blank	EB-17320-041917-TW-01	04/19/16	17:50	EB	EB		X	
Equipment Blank	EB-101117-BE-001	10/11/17	11:15	EB	EB	--	X	
Equipment Blank	EB-101317-BE-002	10/13/17	10:26	EB	EB	--	X	
Equipment Blank	EB-101617-BE-003	10/16/17	12:00	EB	EB	--	X	
Equipment Blank	EB-101717-BE-004	10/17/17	15:21	EB	EB	--	X	
Equipment Blank	EB-101917-BE-005	10/19/17	13:10	EB	EB	--	X	
Trip Blank	TB-17302-041717-TW-01	04/17/17	-	TB	TB		X	
Trip Blank	TB-071217-TP-001	07/12/17	10:31	TB	TB	--	X	
Trip Blank	TB-101017-BE-001	10/10/17	10:31	TB	TB	--	X	
Trip Blank	TB-101117-BE-002	10/11/17	17:30	TB	TB	--	X	
Trip Blank	TB-101217-BE-003	10/12/17	16:00	TB	TB	--	X	
Trip Blank	TB-101717-BE-004	10/17/17	18:30	TB	TB	--	X	
Trip Blank	TB-101817-BE-005	10/18/17	17:30	TB	TB	--	X	
Trip Blank	TB-101917-BE-006	10/19/17	15:03	TB	TB	--	X	

Notes:
X - Sample collected and analyzed at the laboratory for the noted parameters
GW - Groundwater
SW - Surface Water
TB - Trip Blank
EB - Equipment Blank
N - Normal
FD - Field Duplicate
N/A - Not Applicable
MNA - Monitored Natural Attenuation (Dissolved Gases, Sulfide, Alkalinity, Hardness, Dissolved Organic Carbon (DOC), Total Organic Carbon (TOC), Chloride, Sulfate, Nitrate, Nitrite, Manganese)
TCL VOCs - Target Compound List Volatile Organic Compounds

Table 5

Well Stabilization Parameters - April and October 2017
2017 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Location	*Date*	*Time (24 hr)*	*Temperature (^{O}C)*	*Conductivity (mS/cm)*	*DO mg/L*	*Turbidity (NTU)*	*pH (s.u.)*	*ORP (mV)*
MW-2	10/17/2017	15:40	--	--	--	--	--	--
		15:55	19.76	0.850	0.05	11.4	7.19	-34
		16:00	19.74	0.840	0.04	6.0	7.19	-34
		16:05	19.77	0.850	0.03	4.7	7.19	-34
MW-4	4/18/2017	10:00	--	--	--	--	--	--
		10:25	13.37	0.990	6.53	206.0	6.92	-47
		10:30	12.79	0.920	5.77	132.1	6.75	-40
		10:35	13.00	0.920	5.28	101.0	6.73	-38
		10:40	13.02	0.920	5.09	53.1	6.75	-38
		10:45	12.97	0.920	4.92	49.3	6.76	-39
MW-4	10/17/2017	10:15	--	--	--	--	--	--
		10:30	16.29	0.910	0.06	13.9	7.30	-86
		10:35	16.37	0.910	0.05	10.5	7.29	-79
		10:40	16.38	0.910	0.06	7.7	7.29	-74
MW-7	10/18/2017	12:25	--	--	--	--	--	--
		12:50	15.80	1.390	0.23	98.1	7.16	-102
		13:00	15.76	1.400	0.22	37.8	7.16	-101
		13:10	15.74	1.400	0.21	24.3	7.16	-100
		13:15	15.93	1.400	0.20	18.9	7.16	-100
		13:20	15.79	1.410	0.20	10.1	7.16	-100
MW 3	4/18/2017	17:44	--	--	--	--	--	--
		17:55	14.21	0.825	6.28	73.9	7.35	29
		18:00	14.66	0.769	5.55	37.3	7.31	28
		18:05	14.18	0.769	5.37	33.3	7.26	33
		18:10	13.99	0.768	5.21	15.2	7.24	36
MW 3	10/12/2017	10:50	--	--	--	--	--	--
		11:05	15.08	0.770	0.18	2.1	6.81	38
		11:10	15.21	0.770	0.14	1.2	6.80	43
		11:15	15.31	0.770	0.14	1.0	6.80	43
MW 8	4/18/2017	16:35	--	--	--	--	--	--
		16:50	13.92	1.110	6.47	64.2	7.38	-93
		16:55	13.99	1.090	5.94	51.7	7.33	-87
		17:00	13.54	1.100	5.68	52.4	7.21	-80
		17:05	13.48	1.090	5.36	47.3	7.18	-78
MW 8	10/12/2017	12:55	--	--	--	--	--	--
		13:15	14.45	1.130	0.04	30.2	6.69	-75
		13:25	14.54	1.130	0.04	3.7	6.69	-75
		13:30	14.67	1.130	0.05	3.9	6.69	-75
		13:35	14.73	1.130	0.05	5.9	6.70	-75

Table 5

Well Stabilization Parameters - April and October 2017
2017 Annual Monitoring Report
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Anderson, Indiana

Location	*Date*	*Time (24 hr)*	*Temperature (^{O}C)*	*Conductivity (mS/cm)*	*DO mg/L*	*Turbidity (NTU)*	*pH (s.u.)*	*ORP (mV)*
MW 12	4/19/2017	8:49	--	--	--	--	--	--
		9:05	16.56	0.900	4.62	351.0	6.88	-83
		9:10	16.10	0.968	4.51	184.0	6.77	-88
		9:15	16.12	0.944	4.32	121.1	6.75	-86
		9:20	16.27	0.933	4.10	68.8	6.75	-87
		9:25	16.13	0.929	4.04	30.1	6.77	-88
		9:30	16.20	0.929	3.96	15.20	6.74	-89
MW 12	10/6/2017	15:30	--	--	--	--	--	--
		15:50	16.04	0.910	0.11	9.28	7.45	-88
		15:55	16.43	0.910	0.12	5.49	7.43	-92
		16:00	17.59	0.910	0.14	3.54	7.43	-96
MW 14	4/18/2017	15:15	--	--	--	--	--	--
		15:30	16.31	0.966	5.64	146.0	7.17	-27
		15:35	15.92	0.952	5.31	83.4	7.04	-24
		15:40	15.94	0.958	4.94	46.3	6.97	-23
		15:45	15.84	0.952	4.77	30.3	7.00	-25
		15:50	15.74	0.953	4.71	19.3	7.03	-28
MW 14	10/13/2017	13:30	--	--	--	--	--	--
		13:45	20.70	0.900	2.17	>1000	6.86	-87
		14:10	15.53	0.920	0.01	184.0	6.78	-54
		14:30	16.31	0.910	0.03	42.3	6.78	-17
		14:45	16.54	0.920	0.04	9.1	6.78	12
		14:50	16.25	0.910	0.02	4.4	6.78	31
		14:55	16.41	0.910	0.02	4.1	6.78	38
MW 15	10/11/2017	15:20	--	--	--	--	--	--
		15:35	14.67	0.860	0.50	53.8	6.84	-19
		15:50	14.63	0.850	0.31	25.0	6.82	-15
		16:00	14.51	0.840	0.24	15.0	6.81	-14
		16:05	14.49	0.850	0.26	14.2	6.81	-14
		16:10	14.44	0.840	0.21	10.4	6.81	-13
		16:15	14.45	0.840	0.20	8.7	6.81	-13
MW 16	10/12/2017	15:05	--	--	--	--	--	--
		15:20	14.55	0.970	0.08	35.9	6.99	18
		15:30	14.40	0.970	0.04	19.8	6.99	33
		15:40	14.19	0.970	0.30	9.2	7.02	47
		15:45	14.30	0.970	0.02	6.9	7.00	48
		15:50	14.33	0.970	0.03	5.1	7.00	49

Table 5

Well Stabilization Parameters - April and October 2017
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2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Location	*Date*	*Time (24 hr)*	*Temperature (^{O}C)*	*Conductivity (mS/cm)*	*DO mg/L*	*Turbidity (NTU)*	*pH (s.u.)*	*ORP (mV)*
MW 21	10/18/2017	10:30	--	--	--	--	--	--
		10:45	12.91	0.730	0.25	144.0	7.20	-50
		10:50	13.05	0.730	0.24	22.1	7.20	-56
		10:55	13.10	0.740	0.26	10.0	7.21	-54
MW 28	4/19/2017	16:50	--	--	--	--	--	--
		17:10	17.67	--	5.93	287.0	7.13	-93
		17:15	17.59	--	5.42	203.0	7.00	-90
		17:20	17.58	--	5.35	91.0	6.92	-86
		17:25	17.42	--	4.89	47.2	6.91	-83
MW 28	10/9/2017	12:00	--	--	--	--	--	--
		12:15	16.97	1.010	0.26	9.2	7.39	-77
		12:20	17.10	1.010	0.25	4.8	7.39	-79
		12:25	17.17	1.010	0.23	5.0	7.39	-80
MW 31R	4/19/2017	10:19	--	--	--	--	--	--
		10:30	15.82	1.370	6.24	97.5	6.93	-133
		10:35	14.03	1.320	5.90	71.9	6.82	-129
		10:40	14.20	1.320	5.49	60.3	6.72	-125
		10:45	14.71	1.320	5.04	46.4	6.63	-121
		10:50	15.04	1.310	4.74	38.7	6.61	-120
MW 31R	10/12/2017	9:05	--	--	--	--	--	--
		9:20	16.07	1.490	0.15	31.4	6.55	-137
		9:30	16.09	1.460	0.10	7.7	6.58	-142
		9:35	16.11	1.450	0.09	3.9	6.58	-142
		9:40	16.05	1.450	0.10	1.8	6.59	-142
MW 37	10/16/2017	10:55	--	--	--	--	--	--
		11:10	17.72	1.340	0.72	29.5	6.60	378
		11:20	18.01	1.312	0.79	24.9	6.60	431
		11:30	17.77	1.300	0.97	18.5	6.61	351
		11:35	17.93	1.290	1.02	13.0	6.61	379
		11:40	17.50	1.280	1.10	10.2	6.61	377
MW 40	4/19/2017	14:00	--	--	--	--	--	--
		14:10	17.20	0.988	6.09	202.0	7.00	-89
		14:15	17.00	0.983	5.33	174.0	6.97	-90
		14:20	16.67	0.983	5.03	111.0	6.88	-85
		14:25	16.71	0.975	4.80	96.7	6.82	-82
		14:30	16.86	0.971	4.60	97.8	6.77	-78
		14:35	16.99	0.968	4.64	61.4	6.76	-79

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Location	*Date*	*Time (24 hr)*	*Temperature (^{O}C)*	*Conductivity (mS/cm)*	*DO mg/L*	*Turbidity (NTU)*	*pH (s.u.)*	*ORP (mV)*
MW 40	10/10/2017	14:25	--	--	--	--	--	--
		14:40	15.12	0.940	0.06	60.5	7.47	-84
		14:50	15.03	0.920	0.04	24.1	7.47	-81
		15:00	14.78	0.910	0.01	6.5	7.47	-82
		15:05	14.78	0.910	0.01	3.3	7.47	-81
		15:10	14.74	0.910	0.00	1.5	7.47	-82
MW 41	4/19/2017	15:10	--	--	--	--	--	--
		15:20	18.60	0.920	6.53	63.7	6.96	-94
		15:25	17.10	0.910	5.59	33.8	6.89	-93
		15:30	16.83	0.910	5.09	24.0	6.83	-89
		15:35	16.63	0.910	4.74	9.4	6.81	-87
MW 41	10/9/2017	15:05	--	--	--	--	--	--
		15:20	17.92	0.990	0.68	38.6	7.41	-92
		15:30	17.27	1.000	0.33	25.0	7.40	-100
		15:40	17.25	1.000	0.27	11.0	7.40	-99
		15:45	17.35	1.000	0.26	9.4	7.40	-99
MW 42	4/19/2017	15:50	--	--	--	--	--	--
		16:05	18.36	0.980	6.67	18.5	6.99	-86
		16:10	16.39	0.882	6.10	2.1	6.89	-93
		16:15	16.45	0.892	5.62	0.0	6.73	-90
		16:20	16.69	0.896	5.21	0.0	6.77	-95
MW 42	10/9/2017	14:05	--	--	--	--	--	--
		14:20	15.63	1.130	0.02	5.3	7.43	
		14:25	16.38	1.140	0.19	5.5	7.41	
		14:30	17.59	1.140	0.29	18.8	7.39	
		14:35	16.45	1.120	0.06	5.2	7.40	
		14:40	16.37	1.120	0.05	2.9	7.39	
		14:45	16.43	1.120	0.05	2.5	7.39	
MW 46	10/16/2017	12:15	--	--	--	--	--	--
		12:35	16.84	0.850	0.12	55.8	6.69	118
		12:45	17.23	0.850	0.12	35.2	6.70	93
		12:55	17.11	0.870	0.14	20.0	6.70	101
		13:05	17.38	0.860	0.14	12.9	6.69	81
		13:10	17.37	0.860	0.11	11.2	6.69	78
		13:15	17.45	0.870	0.10	7.4	6.69	74
		13:20	17.41	0.870	0.10	6.2	6.70	70

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Location	*Date*	*Time (24 hr)*	*Temperature (^{O}C)*	*Conductivity (mS/cm)*	*DO mg/L*	*Turbidity (NTU)*	*pH (s.u.)*	*ORP (mV)*
MW 51	4/18/2017	13:56	--	--	--	--	--	--
		14:15	17.11	0.900	6.36	92.4	7.15	51
		14:20	16.55	0.978	5.98	74.1	6.99	56
		14:25	16.49	0.981	5.42	42.6	6.81	64
		14:30	16.43	0.973	5.24	67.1	6.83	58
		14:35	16.53	0.982	4.90	60.3	6.85	56
MW 51	4/18/2017	17:05	--	--	--	--	--	--
		17:20	14.96	0.990	0.10	4.5	6.81	-22
		17:25	15.09	0.990	0.13	5.7	6.81	-19
		17:30	14.99	0.990	0.08	--	6.80	-16
MW 56	10/18/2017	16:10	--	--	--	--	--	--
		16:25	15.80	0.850	0.06	119.0	7.33	-83
		16:35	16.40	0.870	0.22	70.7	7.31	-87
		16:40	17.46	0.860	0.22	115.0	7.31	-90
		16:45	16.34	0.860	0.10	76.7	7.33	-89
		16:50	16.65	0.860	0.15	126.0	7.32	-85
MW 57	4/18/2017	15:25	--	--	--	--	--	--
		15:35	18.61	1.000	0.17	8.0	7.14	-58
		15:40	18.61	1.000	0.15	3.1	7.14	-59
		15:45	18.62	1.000	0.12	1.7	7.14	-61
MW 58	10/17/2017	13:45	--	--	--	--	--	--
		14:00	18.91	1.020	0.68	153.0	7.15	-39
		14:15	18.62	1.000	0.29	29.5	7.14	-38
		14:20	18.61	1.000	0.24	18.5	7.14	-37
		14:25	18.69	1.000	0.21	13.0	7.14	-37
		14:30	18.56	0.990	0.20	10.8	7.14	-36
MW 61	10/9/2017	11:00	--	--	--	--	--	--
		11:15	16.11	1.050	0.29	19.6	7.34	-66
		11:20	16.11	1.050	0.23	7.2	7.35	-69
		11:25	16.16	1.050	0.18	5.1	7.36	-72

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Location	*Date*	*Time (24 hr)*	*Temperature (^{O}C)*	*Conductivity (mS/cm)*	*DO mg/L*	*Turbidity (NTU)*	*pH (s.u.)*	*ORP (mV)*
MW 64	10/10/2017	11:20	--	--	--	--	--	--
		11:35	18.97	0.860	1.37	17.9	7.49	23
		11:45	18.66	0.860	0.10	14.4	7.49	23
		11:50	18.52	0.866	0.15	22.6	7.49	29
		11:55	18.72	0.850	0.30	32.1	7.49	23
		12:05	18.98	0.840	0.43	54.4	7.49	23
		12:20	18.94	0.820	0.59	41.4	7.49	19
		12:35	19.33	0.820	0.81	49.7	7.48	15
		12:40	18.45	0.720	1.75	27.0	7.49	22
		12:45	18.32	0.820	1.25	10.6	7.51	12
		12:50	18.28	0.830	1.00	6.2	7.51	8
MW 65	10/6/2017	9:45	--	--	--	--	--	--
		10:05	19.19	0.840	0.40	25.1	7.56	48.1
		10:15	18.43	0.850	0.12	9.6	7.55	-1.1
		10:25	18.74	0.850	0.16	10.0	7.56	18.9
		10:35	18.70	0.860	0.09	5.4	7.55	-11.8
		10:40	18.20	0.860	0.04	3.4	7.56	-20.1
		10:45	18.09	0.860	0.03	2.5	7.56	-24.5
		10:50	18.07	0.860	0.02	1.1	7.56	-27.3
MW 66	4/19/2017	12:18	--	--	--	--	--	--
		12:35	13.44	0.929	7.08	135.0	7.11	-62
		12:40	13.19	0.893	6.21	118.0	6.96	-61
		12:45	13.13	0.890	5.49	109.0	6.82	-55
		12:50	13.74	0.888	5.06	87.6	6.77	-53
		12:55	13.78	0.895	4.91	51.9	6.75	-52
		13:00	13.47	0.895	4.86	48.8	6.73	-51
MW 66	10/10/2017	16:30	--	--	--	--	--	--
		16:50	16.92	0.850	0.07	13.2	7.49	-52
		16:55	17.01	0.850	0.07	7.6	7.49	-54
		17:00	17.01	0.850	0.07	5.8	7.49	-52
MW 68	4/17/2017	15:10	--	--	--	--	--	--
		15:30	15.86	0.919	6.00	73.8	6.94	-37
		15:35	15.80	0.916	5.36	19.9	7.03	-49
		15:40	15.80	0.908	5.13	18.3	7.10	-52
		15:45	16.00	0.899	4.96	22.1	7.16	-54
		15:50	15.73	0.897	4.99	21.3	7.19	-55
		15:55	15.62	0.896	4.95	21.1	7.21	-56

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Location	*Date*	*Time (24 hr)*	*Temperature (^{O}C)*	*Conductivity (mS/cm)*	*DO mg/L*	*Turbidity (NTU)*	*pH (s.u.)*	*ORP (mV)*
MW 68	10/11/2017	9:40	--	--	--	--	--	--
		10:00	15.10	0.870	0.43	21.6	6.07	-44
		10:10	14.81	0.870	0.25	7.5	6.60	-73
		10:15	14.81	0.870	0.15	4.7	6.66	-75
		10:20	14.77	0.870	0.09	2.4	6.70	-77
		10:25	14.76	0.870	0.09	2.0	6.71	-77
MW 75	10/16/2017	16:05	--	--	--	--	--	--
		16:20	16.50	0.610	0.37	2.1	7.08	-94
		16:25	16.33	0.720	0.22	3.0	6.98	-122
		16:30	16.41	0.920	0.17	1.9	6.98	-142
		16:35	16.37	0.940	0.15	1.9	6.91	-140
MW 76R-17	10/18/2017	8:50	--	--	--	--	--	--
		9:10	14.48	0.980	0.01	200.0	7.28	-86
		9:15	14.40	0.980	0.00	181.0	7.28	-86
		9:30	14.40	0.980	0.01	141.0	7.29	-86
		9:45	14.49	0.980	0.00	55.4	7.29	-87
		10:00	14.82	0.980	0.01	61.1	7.29	-87
		10:05	14.72	0.980	0.00	49.0	7.29	-87
MW 79	4/17/2017	16:38	--	--	--	--	--	--
		17:00	15.94	0.911	6.11	102.1	7.20	-83
		17:05	16.22	0.903	5.58	89.3	7.20	-83
		17:10	16.15	0.902	5.38	73.1	7.21	-84
		17:15	16.17	0.899	5.25	42.1	7.22	-82
		17:20	16.16	0.898	5.11	24.3	7.21	-79
		17:25	15.99	0.898	5.08	21.4	7.19	-79
MW 79	10/11/2017	13:45	--	--	--	--	--	--
		14:00	13.99	0.930	0.10	23.3	6.76	-79
		14:10	14.00	0.930	0.09	11.0	6.75	-81
		14:15	14.04	0.930	0.08	8.6	6.75	-82
		14:20	14.04	0.930	0.07	7.2	6.75	-82
MW 80	10/6/2017	14:00	--	--	--	--	--	--
		14:20	18.69	1.040	0.14	5.6	7.39	-29
		14:25	19.10	1.040	0.16	7.1	7.39	-33
		14:30	19.41	1.040	0.18	6.1	7.39	-35

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Location	*Date*	*Time (24 hr)*	*Temperature (^{O}C)*	*Conductivity (mS/cm)*	*DO mg/L*	*Turbidity (NTU)*	*pH (s.u.)*	*ORP (mV)*
MW 81	10/6/2017	11:10	--	--	--	--	--	--
		11:35	17.69	0.660	0.55	10.4	7.53	66
		11:40	16.60	0.780	0.33	6.0	7.48	33
		11:45	16.73	0.810	0.28	3.2	7.47	24
		11:50	15.75	0.860	0.11	2.3	7.47	11
		11:55	15.75	0.880	0.07	1.8	7.46	6
		12:00	15.69	0.890	0.05	1.2	7.46	4
		12:05	15.71	0.900	0.04	0.7	7.46	1
		12:10	15.78	0.910	0.03	0.7	7.46	-1
MW 82	10/12/2017	14:15	--	--	--	--	--	--
		14:30	14.61	0.800	0.53	3.7	6.93	-17
		14:35	14.50	0.810	0.46	3.6	6.92	-40
		14:40	14.17	0.830	0.41	3.6	6.89	-90
		14:45	14.28	0.870	0.30	1.2	6.86	-86
		14:50	14.34	0.870	0.29	1.1	6.86	-86
MW 83	10/11/2017	11:45	--	--	--	--	--	--
		12:00	14.54	0.960	0.38	12.0	6.75	-82
		12:05	14.58	0.960	0.34	7.8	6.75	-87
		12:10	14.63	0.960	0.35	4.4	6.75	-84
MW 84	10/13/2017	12:40	--	--	--	--	--	--
		12:55	15.17	1.130	0.19	4.7	6.86	-21
		13:00	15.05	1.140	0.14	4.3	6.86	-21
		13:05	14.94	1.150	0.12	4.0	6.86	-24
MW 85	4/18/2017	11:15	--	--	--	--	--	--
		11:40	15.30	1.010	6.67	301.0	7.13	-74
		11:45	15.31	1.000	5.78	226.0	6.98	-71
		11:50	15.31	1.000	5.47	201.0	6.92	-69
		11:55	15.20	1.000	5.16	176.0	6.84	-67
		12:00	15.12	1.000	5.00	146.0	6.81	-68
		12:05	15.13	1.000	4.83	109.0	6.80	-68
		12:10	15.12	1.000	4.77	105.0	6.82	-69
		12:15	15.17	1.000	4.66	99.6	6.85	-70
MW 85	10/17/2017	11:50	--	--	--	--	--	--
		12:15	16.56	1.080	0.43	324.0	7.26	-60
		12:25	16.52	1.090	0.35	156.0	7.26	-71
		12:35	16.60	1.080	0.21	82.4	7.26	-81
		12:45	16.68	1.080	0.16	54.5	7.27	-83
		12:55	16.73	1.080	0.12	27.3	7.27	-84
		13:05	16.96	1.080	0.10	24.1	7.27	-85
		13:10	17.00	1.080	0.09	15.6	7.27	-85
		13:15	16.96	1.080	0.09	10.4	7.27	-85

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Well Stabilization Parameters - April and October 2017
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Location	*Date*	*Time (24 hr)*	*Temperature (^{O}C)*	*Conductivity (mS/cm)*	*DO mg/L*	*Turbidity (NTU)*	*pH (s.u.)*	*ORP (mV)*
MW 86	10/13/2017	10:45	--	--	--	--	--	--
		11:00	15.26	0.930	1.54	3.5	6.69	-64
		11:05	16.26	1.050	0.05	1.0	6.67	-60
		11:10	15.30	0.990	0.95	1.0	6.68	-55
		11:15	15.95	1.050	0.02	1.0	6.67	-51
		11;20	15.85	1.050	0.01	1.1	6.66	-50
		11:25	16.11	1.050	0.01	1.0	6.66	-45
MW 88	10/13/2017	9:45	--	--	--	--	--	--
		10:00	16.78	1.220	0.10	72.2	6.69	26
		10:05	16.78	1.220	0.10	55.7	6.53	39
		10:10	16.70	1.220	0.19	26.6	6.44	49
MW 89-11	4/19/2017	11:16	--	--	--	--	--	--
		11:30	15.35	1.130	5.45	72.2	6.69	26
		11:35	14.47	1.130	5.12	55.7	6.53	39
		11:40	14.20	1.110	4.88	26.6	6.44	49
		11:45	14.07	1.100	4.73	24.3	6.41	55
		11:50	13.93	1.100	4.58	7.5	6.39	57
MW 89-11	10/17/2017	17:05	--	--	--	--	--	--
		17:20	16.20	1.000	66.80	416.0	7.18	2
		17:40	15.73	0.980	2.53	52.3	7.18	86
		17:50	16.02	0.970	2.63	22.8	7.19	90
		17:55	15.89	0.970	2.62	10.2	7.19	101
		18:00	15.84	0.970	2.59	7.3	7.19	105
MW 97R-16	10/18/2017	14:00	--	--	--	--	--	--
		14:30	17.82	1.220	0.02	367.0	7.05	-67
		14:40	18.39	1.220	0.03	168.0	7.04	-70
		14:50	19.24	1.220	0.04	137.0	7.02	-70
		14:55	18.76	1.210	0.01	100.0	7.04	-69
		15:00	18.79	1.210	0.01	84.4	7.04	-68
		15:05	18.80	1.210	0.02	80.2	7.03	-66

Notes:

mg/L	milligram per litre
mS/cm	millisiemens per centimetre
mV	millivolts
s.u.	Standard Units
^{o}C	degrees Celsius
NTU	Nephelometric Turbidity Units

Table 6

Summary of Groundwater Analytical Data - VOCs
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Sample Location:		***MW-2***	***MW 3***	***MW 3***	***MW-4***
Sample ID:		***GW-101717-BE-036***	***GW-17302-041817-TW-10***	***GW-101217-BE-018***	***GW-17302-041817-TW-04***
Sample Date:		***10/17/2017***	***4/18/2017***	***10/12/2017***	***4/18/2017***
Geologic Unit:		***3d***	***3s***	***3s***	***3d***
Parameters	***Units***				
Volatile Organic Compounds					
Acetone	mg/L	0.01 U	2.5 U	1 U	3.3 U
Benzene	mg/L	0.001 U	0.25 U	0.1 U	0.33 U
Bromodichloromethane	mg/L	0.001 U	0.25 U	0.1 U	0.33 U
Bromoform	mg/L	0.001 U	0.25 U	0.1 U	0.33 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.25 U	0.1 U	0.33 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.01 U	2.5 U	1 U	3.3 U
Carbon disulfide	mg/L	0.001 U	0.25 U	0.1 U	0.33 U
Carbon tetrachloride	mg/L	0.001 U	0.25 U	0.1 U	0.33 U
Chlorobenzene	mg/L	0.001 U	0.25 U	0.1 U	0.33 U
Chloroethane	mg/L	0.001 U	0.25 U	0.1 U	0.33 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.25 U	0.1 U	0.33 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.25 U	0.1 U	0.33 U
Dibromochloromethane	mg/L	0.001 U	0.25 U	0.1 U	0.33 U
1,1-Dichloroethane	mg/L	0.001 U	0.27	0.099 J	0.34
1,2-Dichloroethane	mg/L	0.001 U	0.25 U	0.1 U	0.33 U
1,1-Dichloroethene	mg/L	0.001 U	0.075 J	0.074 J	0.33 U
cis-1,2-Dichloroethene	mg/L	0.0014	7.4	1.6	8.6
trans-1,2-Dichloroethene	mg/L	0.001 U	0.25 U	0.1 U	0.26 J
1,2-Dichloropropane	mg/L	0.001 U	0.25 U	0.1 U	0.33 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.25 U	0.1 U	0.33 U
trans-1,3-Dichloropropene	mg/L	0.001 U	0.25 U	0.1 U	0.33 U
Ethylbenzene	mg/L	0.001 U	0.25 U	0.1 U	0.33 U
2-Hexanone	mg/L	0.01 U	2.5 U	1 U	3.3 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U	2.5 U	1 U	3.3 U
Methylene chloride	mg/L	0.001 U	0.25 U	0.1 U	0.33 U
Styrene	mg/L	0.001 U	0.25 U	0.1 U	0.33 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.25 U	0.1 U	0.33 U
Tetrachloroethene	mg/L	0.001 U	0.25 U	0.1 U	0.33 U
Toluene	mg/L	0.001 U	0.25 U	0.1 U	0.33 U
1,1,1-Trichloroethane	mg/L	0.001 U	0.38	0.25	0.33 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.25 U	0.1 U	0.33 U
Trichloroethene	mg/L	0.001 U	11	4.4	1.1
Vinyl chloride	mg/L	0.001 U	0.25 U	0.1 U	0.84
Xylenes (total)	mg/L	0.002 U	0.5 U	0.2 U	0.67 U

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not detected at the associated reporting limit.

Table 6

Summary of Groundwater Analytical Data - VOCs
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2915 Dr. Martin Luther King Jr. Boulevard,
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Sample Location:		***MW-4***	***MW-4***	***MW-7***	***MW-7***
Sample ID:		***GW-101717-BE-032***	***GW-101717-BE-033***	***GW-101817-BE-040***	***GW-101817-BE-041***
Sample Date:		***10/17/2017***	***10/17/2017***	***10/18/2017***	***10/18/2017***
Geologic Unit:		***3d***	***3d***	***3d***	***3d***
Parameters	***Units***		***(Duplicate)***		***(Duplicate)***
Volatile Organic Compounds					
Acetone	mg/L	1.7 U	1.7 U	0.01 U	0.01 U
Benzene	mg/L	0.17 U	0.17 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.17 U	0.17 U	0.001 U	0.001 U
Bromoform	mg/L	0.17 U	0.17 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.17 U	0.17 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	1.7 U	1.7 U	0.01 U	0.01 U
Carbon disulfide	mg/L	0.17 U	0.17 U	0.001 U	0.001 U
Carbon tetrachloride	mg/L	0.17 U	0.17 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.17 U	0.17 U	0.001 U	0.001 U
Chloroethane	mg/L	0.17 U	0.17 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.17 U	0.17 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.17 U	0.17 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.17 U	0.17 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.37	0.33	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.17 U	0.17 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.12 J	0.12 J	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	8.6	8	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.2	0.19	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.17 U	0.17 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.17 U	0.17 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.17 U	0.17 U	0.001 U	0.001 U
Ethylbenzene	mg/L	0.17 U	0.17 U	0.001 U	0.001 U
2-Hexanone	mg/L	1.7 U	1.7 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	1.7 U	1.7 U	0.01 U	0.01 U
Methylene chloride	mg/L	3.2	3.5	0.001 U	0.001 U
Styrene	mg/L	0.17 U	0.17 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.17 U	0.17 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	0.17 U	0.17 U	0.001 U	0.001 U
Toluene	mg/L	0.17 U	0.17 U	0.001 U	0.001 U
1,1,1-Trichloroethane	mg/L	0.16 J	0.17 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.17 U	0.17 U	0.001 U	0.001 U
Trichloroethene	mg/L	2.4	2.1	0.001 U	0.001 U
Vinyl chloride	mg/L	0.73	0.66	0.001 U	0.001 U
Xylenes (total)	mg/L	0.33 U	0.33 U	0.002 U	0.002 U

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not detected at the associated reporting limit.

Table 6

Summary of Groundwater Analytical Data - VOCs
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Sample Location:		***MW 8***	***MW 8***	***MW 12***	***MW 12***
Sample ID:		***GW-17302-041817-TW-09***	***GW-101217-BE-019***	***GW-17302-041917-TW-11***	***GW-100617-BE-004***
Sample Date:		***4/18/2017***	***10/12/2017***	***4/19/2017***	***10/6/2017***
Geologic Unit:		***3s***	***3s***	***3i***	***3i***
Parameters	***Units***				
Volatile Organic Compounds					
Acetone	mg/L	1 U	1 U	0.025 U	0.033 U
Benzene	mg/L	0.1 U	0.1 U	0.0025 U	0.0033 U
Bromodichloromethane	mg/L	0.1 U	0.1 U	0.0025 U	0.0033 U
Bromoform	mg/L	0.1 U	0.1 U	0.0025 U	0.0033 U
Bromomethane (Methyl bromide)	mg/L	0.1 U	0.1 U	0.0025 U	0.0033 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	1 U	1 U	0.025 U	0.033 U
Carbon disulfide	mg/L	0.1 U	0.1 U	0.0025 U	0.0033 U
Carbon tetrachloride	mg/L	0.1 U	0.1 U	0.0025 U	0.0033 U
Chlorobenzene	mg/L	0.1 U	0.1 U	0.0025 U	0.0033 U
Chloroethane	mg/L	0.1 U	0.1 U	0.0025 U	0.0033 U
Chloroform (Trichloromethane)	mg/L	0.1 U	0.1 U	0.0025 U	0.0033 U
Chloromethane (Methyl chloride)	mg/L	0.1 U	0.1 U	0.0025 U	0.0033 U
Dibromochloromethane	mg/L	0.1 U	0.1 U	0.0025 U	0.0033 U
1,1-Dichloroethane	mg/L	0.036 J	0.047 J	0.00094 J	0.0009 J
1,2-Dichloroethane	mg/L	0.1 U	0.1 U	0.0025 U	0.0033 U
1,1-Dichloroethene	mg/L	0.1 U	0.049 J	0.0025 U	0.0033 U
cis-1,2-Dichloroethene	mg/L	3.1	4	0.11	0.1
trans-1,2-Dichloroethene	mg/L	0.1 U	0.1 U	0.0012 J	0.0012 J
1,2-Dichloropropane	mg/L	0.1 U	0.1 U	0.0025 U	0.0033 U
cis-1,3-Dichloropropene	mg/L	0.1 U	0.1 U	0.0025 U	0.0033 U
trans-1,3-Dichloropropene	mg/L	0.1 U	0.1 U	0.0025 U	0.0033 U
Ethylbenzene	mg/L	0.1 U	0.1 U	0.0025 U	0.0033 U
2-Hexanone	mg/L	1 U	1 U	0.025 U	0.033 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	1 U	1 U	0.025 U	0.033 U
Methylene chloride	mg/L	0.1 U	0.1 U	0.0025 U	0.0033 U
Styrene	mg/L	0.1 U	0.1 U	0.0025 U	0.0033 U
1,1,2,2-Tetrachloroethane	mg/L	0.1 U	0.1 U	0.0025 U	0.0033 U
Tetrachloroethene	mg/L	0.1 U	0.1 U	0.0025 U	0.0033 U
Toluene	mg/L	0.1 U	0.1 U	0.0025 U	0.0033 U
1,1,1-Trichloroethane	mg/L	0.1 U	0.1 U	0.0025 U	0.0033 U
1,1,2-Trichloroethane	mg/L	0.1 U	0.1 U	0.0025 U	0.0033 U
Trichloroethene	mg/L	0.09 J	0.37	0.00085 J	0.0033 U
Vinyl chloride	mg/L	1.6	1.3	0.0025 U	0.0033 U
Xylenes (total)	mg/L	0.2 U	0.2 U	0.005 U	0.0067 U

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not detected at the associated reporting limit.

Table 6

Summary of Groundwater Analytical Data - VOCs
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Sample Location:		***MW 14***	***MW 14***	***MW 14***	***MW 14***
Sample ID:		***GW-17302-041817-TW-07***	***GW-17302-041817-TW-08***	***GW-101317-BE-026***	***GW-101317-BE-027***
Sample Date:		***4/18/2017***	***4/18/2017***	***10/13/2017***	***10/13/2017***
Geologic Unit:		***3s***	***3s***	***3s***	***3s***
Parameters	***Units***		***(Duplicate)***		***(Duplicate)***
Volatile Organic Compounds					
Acetone	mg/L	1.3 U	1.3 U	2 U	2 U
Benzene	mg/L	0.13 U	0.13 U	0.2 U	0.2 U
Bromodichloromethane	mg/L	0.13 U	0.13 U	0.2 U	0.2 U
Bromoform	mg/L	0.13 U	0.13 U	0.2 U	0.2 U
Bromomethane (Methyl bromide)	mg/L	0.13 U	0.13 U	0.2 U	0.2 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	1.3 U	1.3 U	2 U	2 U
Carbon disulfide	mg/L	0.13 U	0.13 U	0.2 U	0.2 U
Carbon tetrachloride	mg/L	0.13 U	0.13 U	0.2 U	0.2 U
Chlorobenzene	mg/L	0.13 U	0.13 U	0.2 U	0.2 U
Chloroethane	mg/L	0.13 U	0.13 U	0.2 U	0.2 U
Chloroform (Trichloromethane)	mg/L	0.13 U	0.13 U	0.2 U	0.2 U
Chloromethane (Methyl chloride)	mg/L	0.13 U	0.13 U	0.2 U	0.2 U
Dibromochloromethane	mg/L	0.13 U	0.13 U	0.2 U	0.2 U
1,1-Dichloroethane	mg/L	0.038 J	0.033 J	0.2 U	0.2 U
1,2-Dichloroethane	mg/L	0.13 U	0.13 U	0.2 U	0.2 U
1,1-Dichloroethene	mg/L	0.13 U	0.13 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	mg/L	4.1	3.9	4.1	4
trans-1,2-Dichloroethene	mg/L	0.13 U	0.13 U	0.2 U	0.2 U
1,2-Dichloropropane	mg/L	0.13 U	0.13 U	0.2 U	0.2 U
cis-1,3-Dichloropropene	mg/L	0.13 U	0.13 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	mg/L	0.13 U	0.13 U	0.2 U	0.2 U
Ethylbenzene	mg/L	0.13 U	0.13 U	0.2 U	0.2 U
2-Hexanone	mg/L	1.3 U	1.3 U	2 U	2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	1.3 U	1.3 U	2 U	2 U
Methylene chloride	mg/L	0.13 U	0.13 U	0.2 U	0.2 U
Styrene	mg/L	0.13 U	0.13 U	0.2 U	0.2 U
1,1,2,2-Tetrachloroethane	mg/L	0.13 U	0.13 U	0.2 U	0.2 U
Tetrachloroethene	mg/L	0.13 U	0.13 U	0.2 U	0.2 U
Toluene	mg/L	0.13 U	0.13 U	0.2 U	0.2 U
1,1,1-Trichloroethane	mg/L	0.13 U	0.13 U	0.2 U	0.2 U
1,1,2-Trichloroethane	mg/L	0.13 U	0.13 U	0.2 U	0.2 U
Trichloroethene	mg/L	0.13 U	0.13 U	0.2 U	0.2 U
Vinyl chloride	mg/L	0.13	0.13	0.15 J	0.15 J
Xylenes (total)	mg/L	0.25 U	0.25 U	0.4 U	0.4 U

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not detected at the associated reporting limit.

Table 6

Summary of Groundwater Analytical Data - VOCs
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2915 Dr. Martin Luther King Jr. Boulevard,
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Sample Location:		***MW 15***	***MW 16***	***MW 21***	***MW 28***
Sample ID:		***GW-101117-BE-016***	***GW-101217-BE-022***	***GW-101817-BE-039***	***GW-17302-041917-TW-18***
Sample Date:		***10/11/2017***	***10/12/2017***	***10/18/2017***	***4/19/2017***
Geologic Unit:		***3s***	***3s***	***3s***	***3d***
Parameters	***Units***				
Volatile Organic Compounds					
Acetone	mg/L	0.67 U	0.01 U	0.01 U	0.25 U
Benzene	mg/L	0.067 U	0.001 U	0.001 U	0.025 U
Bromodichloromethane	mg/L	0.067 U	0.001 U	0.001 U	0.025 U
Bromoform	mg/L	0.067 U	0.001 U	0.001 U	0.025 U
Bromomethane (Methyl bromide)	mg/L	0.067 U	0.001 U	0.001 U	0.025 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.67 U	0.01 U	0.01 U	0.25 U
Carbon disulfide	mg/L	0.067 U	0.001 U	0.001 U	0.025 U
Carbon tetrachloride	mg/L	0.067 U	0.001 U	0.001 U	0.025 U
Chlorobenzene	mg/L	0.067 U	0.001 U	0.001 U	0.025 U
Chloroethane	mg/L	0.067 U	0.001 U	0.001 U	0.025 U
Chloroform (Trichloromethane)	mg/L	0.067 U	0.001 U	0.001 U	0.025 U
Chloromethane (Methyl chloride)	mg/L	0.067 U	0.001 U	0.001 U	0.025 U
Dibromochloromethane	mg/L	0.067 U	0.001 U	0.001 U	0.025 U
1,1-Dichloroethane	mg/L	0.099	0.001 U	0.001 U	0.025 U
1,2-Dichloroethane	mg/L	0.067 U	0.001 U	0.001 U	0.025 U
1,1-Dichloroethene	mg/L	0.079	0.001 U	0.001 U	0.025 U
cis-1,2-Dichloroethene	mg/L	3.5	0.0019	0.001 U	0.85
trans-1,2-Dichloroethene	mg/L	0.042 J	0.001 U	0.001 U	0.018 J
1,2-Dichloropropane	mg/L	0.067 U	0.001 U	0.001 U	0.025 U
cis-1,3-Dichloropropene	mg/L	0.067 U	0.001 U	0.001 U	0.025 U
trans-1,3-Dichloropropene	mg/L	0.067 U	0.001 U	0.001 U	0.025 U
Ethylbenzene	mg/L	0.067 U	0.001 U	0.001 U	0.025 U
2-Hexanone	mg/L	0.67 U	0.01 U	0.01 U	0.25 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.67 U	0.01 U	0.01 U	0.25 U
Methylene chloride	mg/L	0.067 U	0.001 U	0.001 U	0.025 U
Styrene	mg/L	0.067 U	0.001 U	0.001 U	0.025 U
1,1,2,2-Tetrachloroethane	mg/L	0.067 U	0.001 U	0.001 U	0.025 U
Tetrachloroethene	mg/L	0.067 U	0.001 U	0.001 U	0.025 U
Toluene	mg/L	0.067 U	0.00027 J	0.001 U	0.025 U
1,1,1-Trichloroethane	mg/L	0.32	0.001 U	0.001 U	0.025 U
1,1,2-Trichloroethane	mg/L	0.067 U	0.001 U	0.001 U	0.025 U
Trichloroethene	mg/L	4.1	0.0017	0.001 U	0.025 U
Vinyl chloride	mg/L	0.052 J	0.03	0.001 U	0.18
Xylenes (total)	mg/L	0.13 U	0.002 U	0.002 U	0.05 U

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not detected at the associated reporting limit.

Table 6

Summary of Groundwater Analytical Data - VOCs
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Sample Location:		***MW 28***	***MW 31R***	***MW 31R***	***MW 37***
Sample ID:		***GW-100917-BE-006***	***GW-17302-041917-TW-12***	***GW-101217-BE-017***	***GW-101617-BE-028***
Sample Date:		***10/9/2017***	***4/19/2017***	***10/12/2017***	***10/16/2017***
Geologic Unit:		***3d***	***1***	***1***	***3s***
Parameters	***Units***				
Volatile Organic Compounds					
Acetone	mg/L	0.4 U	6.3 U	8.3 U	0.01 U
Benzene	mg/L	0.04 U	0.63 U	0.83 U	0.001 U
Bromodichloromethane	mg/L	0.04 U	0.63 U	0.83 U	0.001 U
Bromoform	mg/L	0.04 U	0.63 U	0.83 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.04 U	0.63 U	0.83 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.4 U	6.3 U	8.3 U	0.01 U
Carbon disulfide	mg/L	0.04 U	0.63 U	0.83 U	0.001 U
Carbon tetrachloride	mg/L	0.04 U	0.63 U	0.83 U	0.001 U
Chlorobenzene	mg/L	0.04 U	0.63 U	0.83 U	0.001 U
Chloroethane	mg/L	0.04 U	0.63 U	0.83 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.04 U	0.63 U	0.83 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.04 U	0.63 U	0.83 U	0.001 U
Dibromochloromethane	mg/L	0.04 U	0.63 U	0.83 U	0.001 U
1,1-Dichloroethane	mg/L	0.04 U	0.4 J	1.2	0.001 U
1,2-Dichloroethane	mg/L	0.04 U	0.63 U	0.83 U	0.001 U
1,1-Dichloroethene	mg/L	0.04 U	0.63 U	0.38 J	0.001 U
cis-1,2-Dichloroethene	mg/L	0.92	18	69	0.001 U
trans-1,2-Dichloroethene	mg/L	0.015 J	0.63 U	0.83 U	0.001 U
1,2-Dichloropropane	mg/L	0.04 U	0.63 U	0.83 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.04 U	0.63 U	0.83 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.04 U	0.63 U	0.83 U	0.001 U
Ethylbenzene	mg/L	0.04 U	0.68	0.74 J	0.001 U
2-Hexanone	mg/L	0.4 U	6.3 U	8.3 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.4 U	6.3 U	8.3 U	0.01 U
Methylene chloride	mg/L	0.04 U	0.63 U	0.83 U	0.013 U
Styrene	mg/L	0.04 U	0.63 U	0.83 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.04 U	0.63 U	0.83 U	0.001 U
Tetrachloroethene	mg/L	0.04 U	0.63 U	0.83 U	0.001 U
Toluene	mg/L	0.04 U	2	3.6	0.001 U
1,1,1-Trichloroethane	mg/L	0.04 U	0.63 U	0.83 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.04 U	0.63 U	0.83 U	0.001 U
Trichloroethene	mg/L	0.04 U	0.63 U	0.83 U	0.001 U
Vinyl chloride	mg/L	0.2	2	9	0.001 U
Xylenes (total)	mg/L	0.08 U	1.8	2.1	0.002 U

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not detected at the associated reporting limit.

Table 6

Summary of Groundwater Analytical Data - VOCs
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Sample Location:		***MW 40***	***MW 40***	***MW 40***	***MW 41***
Sample ID:		***GW-17302-041917-TW-15***	***GW-101017-BE-010***	***GW-101017-BE-011***	***GW-17302-041917-TW-16***
Sample Date:		***4/19/2017***	***10/10/2017***	***10/10/2017***	***4/19/2017***
Geologic Unit:		***3s***	***3s***	***3s***	***3d***
Parameters	***Units***			***(Duplicate)***	
Volatile Organic Compounds					
Acetone	mg/L	1.3 U	1.3 U	1.3 U	2 U
Benzene	mg/L	0.13 U	0.13 U	0.13 U	0.2 U
Bromodichloromethane	mg/L	0.13 U	0.13 U	0.13 U	0.2 U
Bromoform	mg/L	0.13 U	0.13 U	0.13 U	0.2 U
Bromomethane (Methyl bromide)	mg/L	0.13 U	0.13 U	0.13 U	0.2 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	1.3 U	1.3 U	1.3 U	2 U
Carbon disulfide	mg/L	0.13 U	0.13 U	0.13 U	0.2 U
Carbon tetrachloride	mg/L	0.13 U	0.13 U	0.13 U	0.2 U
Chlorobenzene	mg/L	0.13 U	0.13 U	0.13 U	0.2 U
Chloroethane	mg/L	0.13 U	0.13 U	0.13 U	0.2 U
Chloroform (Trichloromethane)	mg/L	0.13 U	0.13 U	0.13 U	0.2 U
Chloromethane (Methyl chloride)	mg/L	0.13 U	0.13 U	0.13 U	0.2 U
Dibromochloromethane	mg/L	0.13 U	0.13 U	0.13 U	0.2 U
1,1-Dichloroethane	mg/L	0.17	0.17	0.16	0.2 U
1,2-Dichloroethane	mg/L	0.13 U	0.13 U	0.13 U	0.2 U
1,1-Dichloroethene	mg/L	0.13 U	0.067 J	0.064 J	0.2 U
cis-1,2-Dichloroethene	mg/L	5.4	5.4	5.5	6
trans-1,2-Dichloroethene	mg/L	0.073 J	0.061 J	0.057 J	0.093 J
1,2-Dichloropropane	mg/L	0.13 U	0.13 U	0.13 U	0.2 U
cis-1,3-Dichloropropene	mg/L	0.13 U	0.13 U	0.13 U	0.2 U
trans-1,3-Dichloropropene	mg/L	0.13 U	0.13 U	0.13 U	0.2 U
Ethylbenzene	mg/L	0.13 U	0.13 U	0.13 U	0.2 U
2-Hexanone	mg/L	1.3 U	1.3 U	1.3 U	2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	1.3 U	1.3 U	1.3 U	2 U
Methylene chloride	mg/L	0.13 U	0.13 U	0.13 U	0.2 U
Styrene	mg/L	0.13 U	0.13 U	0.13 U	0.2 U
1,1,2,2-Tetrachloroethane	mg/L	0.13 U	0.13 U	0.13 U	0.2 U
Tetrachloroethene	mg/L	0.13 U	0.13 U	0.13 U	0.2 U
Toluene	mg/L	0.13 U	0.13 U	0.13 U	0.2 U
1,1,1-Trichloroethane	mg/L	0.13 U	0.13 U	0.13 U	0.2 U
1,1,2-Trichloroethane	mg/L	0.13 U	0.13 U	0.13 U	0.2 U
Trichloroethene	mg/L	0.4	0.36	0.35	0.2 U
Vinyl chloride	mg/L	0.26	0.17	0.18	0.44
Xylenes (total)	mg/L	0.25 U	0.27 U	0.27 U	0.4 U

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not detected at the associated reporting limit.

Table 6

Summary of Groundwater Analytical Data - VOCs
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Sample Location:		***MW 41***	***MW 42***	***MW 42***	***MW 46***
Sample ID:		***GW-100917-BE-008***	***GW-17302-041917-TW-17***	***GW-100917-BE-007***	***GW-101617-BE-029***
Sample Date:		***10/9/2017***	***4/19/2017***	***10/9/2017***	***10/16/2017***
Geologic Unit:		***3d***	***3s***	***3s***	***3s***
Parameters	***Units***				
Volatile Organic Compounds					
Acetone	mg/L	2 U	1 U	1 U	0.01 U
Benzene	mg/L	0.2 U	0.1 U	0.1 U	0.001 U
Bromodichloromethane	mg/L	0.2 U	0.1 U	0.1 U	0.001 U
Bromoform	mg/L	0.2 U	0.1 U	0.1 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.2 U	0.1 U	0.1 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	2 U	1 U	1 U	0.01 U
Carbon disulfide	mg/L	0.2 U	0.1 U	0.1 U	0.001 U
Carbon tetrachloride	mg/L	0.2 U	0.1 U	0.1 U	0.001 U
Chlorobenzene	mg/L	0.2 U	0.1 U	0.1 U	0.001 U
Chloroethane	mg/L	0.2 U	0.1 U	0.1 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.2 U	0.1 U	0.1 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.2 U	0.1 U	0.1 U	0.001 U
Dibromochloromethane	mg/L	0.2 U	0.1 U	0.1 U	0.001 U
1,1-Dichloroethane	mg/L	0.2 U	0.1 U	0.1 U	0.001 U
1,2-Dichloroethane	mg/L	0.2 U	0.1 U	0.1 U	0.001 U
1,1-Dichloroethene	mg/L	0.2 U	0.1 U	0.1 U	0.001 U
cis-1,2-Dichloroethene	mg/L	5.4	2.9	3.7	0.001 U
trans-1,2-Dichloroethene	mg/L	0.068 J	0.08 J	0.095 J	0.001 U
1,2-Dichloropropane	mg/L	0.2 U	0.1 U	0.1 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.2 U	0.1 U	0.1 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.2 U	0.1 U	0.1 U	0.001 U
Ethylbenzene	mg/L	0.2 U	0.1 U	0.1 U	0.001 U
2-Hexanone	mg/L	2 U	1 U	1 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	2 U	1 U	1 U	0.01 U
Methylene chloride	mg/L	0.2 U	0.1 U	0.1 U	0.012 U
Styrene	mg/L	0.2 U	0.1 U	0.1 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.2 U	0.1 U	0.1 U	0.001 U
Tetrachloroethene	mg/L	0.2 U	0.1 U	0.1 U	0.001 U
Toluene	mg/L	0.2 U	0.1 U	0.1 U	0.001 U
1,1,1-Trichloroethane	mg/L	0.2 U	0.1 U	0.1 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.2 U	0.1 U	0.1 U	0.001 U
Trichloroethene	mg/L	0.2 U	0.035 J	0.1 U	0.001 U
Vinyl chloride	mg/L	0.38	0.22	0.26	0.001 U
Xylenes (total)	mg/L	0.4 U	0.2 U	0.2 U	0.002 U

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not detected at the associated reporting limit.

Table 6

Summary of Groundwater Analytical Data - VOCs
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Sample Location:		***MW 51***	***MW 51***	***MW 56***	***MW 57***
Sample ID:		***GW-17302-041817-TW-06***	***GW-101617-BE-031***	***GW-101817-BE-044***	***GW-101817-BE-043***
Sample Date:		***4/18/2017***	***10/16/2017***	***10/18/2017***	***10/18/2017***
Geologic Unit:		***3s***	***3s***	***3d***	***3d***
Parameters	***Units***				
Volatile Organic Compounds					
Acetone	mg/L	0.033 U	0.033 U	0.01 U	0.033 U
Benzene	mg/L	0.0033 U	0.0033 U	0.001 U	0.0033 U
Bromodichloromethane	mg/L	0.0033 U	0.0033 U	0.001 U	0.0033 U
Bromoform	mg/L	0.0033 U	0.0033 U	0.001 U	0.0033 U
Bromomethane (Methyl bromide)	mg/L	0.0033 U	0.0033 U	0.001 U	0.0033 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.033 U	0.033 U	0.01 U	0.033 U
Carbon disulfide	mg/L	0.0033 U	0.0033 U	0.001 U	0.0033 U
Carbon tetrachloride	mg/L	0.0033 U	0.0033 U	0.001 U	0.0033 U
Chlorobenzene	mg/L	0.0033 U	0.0033 U	0.001 U	0.0033 U
Chloroethane	mg/L	0.0033 U	0.0033 U	0.001 U	0.0033 U
Chloroform (Trichloromethane)	mg/L	0.0033 U	0.0033 U	0.001 U	0.0033 U
Chloromethane (Methyl chloride)	mg/L	0.0033 U	0.0033 U	0.001 U	0.0033 U
Dibromochloromethane	mg/L	0.0033 U	0.0033 U	0.001 U	0.0033 U
1,1-Dichloroethane	mg/L	0.0033 U	0.0033 U	0.001 U	0.0033 U
1,2-Dichloroethane	mg/L	0.0033 U	0.0033 U	0.001 U	0.0033 U
1,1-Dichloroethene	mg/L	0.0033 U	0.0014 J	0.001 U	0.0033 U
cis-1,2-Dichloroethene	mg/L	0.015	0.028	0.001 U	0.0033 U
trans-1,2-Dichloroethene	mg/L	0.0033 U	0.0033 U	0.001 U	0.0033 U
1,2-Dichloropropane	mg/L	0.0033 U	0.0033 U	0.001 U	0.0033 U
cis-1,3-Dichloropropene	mg/L	0.0033 U	0.0033 U	0.001 U	0.0033 U
trans-1,3-Dichloropropene	mg/L	0.0033 U	0.0033 U	0.001 U	0.0033 U
Ethylbenzene	mg/L	0.0033 U	0.0033 U	0.001 U	0.0033 U
2-Hexanone	mg/L	0.033 U	0.033 U	0.01 U	0.033 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.033 U	0.033 U	0.01 U	0.033 U
Methylene chloride	mg/L	0.0033 U	0.065	0.001 U	0.0037 U
Styrene	mg/L	0.0033 U	0.0033 U	0.001 U	0.0033 U
1,1,2,2-Tetrachloroethane	mg/L	0.0033 U	0.0033 U	0.001 U	0.0033 U
Tetrachloroethene	mg/L	0.0033 U	0.0033 U	0.001 U	0.0033 U
Toluene	mg/L	0.0033 U	0.0033 U	0.001 U	0.0033 U
1,1,1-Trichloroethane	mg/L	0.0033 U	0.0033 U	0.001 U	0.0033 U
1,1,2-Trichloroethane	mg/L	0.0033 U	0.0033 U	0.001 U	0.0033 U
Trichloroethene	mg/L	0.14	0.15	0.001 U	0.0033 U
Vinyl chloride	mg/L	0.0041	0.0073	0.001 U	0.096
Xylenes (total)	mg/L	0.0067 U	0.0067 U	0.002 U	0.0067 U

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not detected at the associated reporting limit.

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Summary of Groundwater Analytical Data - VOCs
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Sample Location:		***MW 58***	***MW 61***	***MW 64***	***MW 65***
Sample ID:		***GW-101717-BE-035***	***GW-100917-BE-005***	***GW-101017-BE-009***	***GW-100617-BE-001***
Sample Date:		***10/17/2017***	***10/9/2017***	***10/10/2017***	***10/6/2017***
Geologic Unit:		***3d***	***3d***	***3d***	***3d***
Parameters	***Units***				
Volatile Organic Compounds					
Acetone	mg/L	0.5 U	0.0021 J	0.067 U	0.01 U
Benzene	mg/L	0.05 U	0.001 U	0.0067 U	0.001 U
Bromodichloromethane	mg/L	0.05 U	0.001 U	0.0067 U	0.001 U
Bromoform	mg/L	0.05 U	0.001 U	0.0067 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.05 U	0.001 U	0.0067 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.5 U	0.01 U	0.067 U	0.01 U
Carbon disulfide	mg/L	0.05 U	0.001 U	0.0067 U	0.001 U
Carbon tetrachloride	mg/L	0.05 U	0.001 U	0.0067 U	0.001 U
Chlorobenzene	mg/L	0.05 U	0.001 U	0.0067 U	0.001 U
Chloroethane	mg/L	0.05 U	0.001 U	0.0067 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.05 U	0.001 U	0.0067 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.05 U	0.001 U	0.0067 U	0.001 U
Dibromochloromethane	mg/L	0.05 U	0.001 U	0.0067 U	0.001 U
1,1-Dichloroethane	mg/L	0.077	0.001 U	0.017	0.0013
1,2-Dichloroethane	mg/L	0.05 U	0.001 U	0.0067 U	0.001 U
1,1-Dichloroethene	mg/L	0.05 U	0.001 U	0.0067 U	0.001 U
cis-1,2-Dichloroethene	mg/L	2.2	0.001 U	0.23	0.02
trans-1,2-Dichloroethene	mg/L	0.081	0.001 U	0.024	0.0012
1,2-Dichloropropane	mg/L	0.05 U	0.001 U	0.0067 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.05 U	0.001 U	0.0067 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.05 U	0.001 U	0.0067 U	0.001 U
Ethylbenzene	mg/L	0.05 U	0.001 U	0.0067 U	0.001 U
2-Hexanone	mg/L	0.5 U	0.01 U	0.067 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.5 U	0.01 U	0.067 U	0.01 U
Methylene chloride	mg/L	1.1	0.001 U	0.0067 U	0.001 U
Styrene	mg/L	0.05 U	0.001 U	0.0067 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.05 U	0.001 U	0.0067 U	0.001 U
Tetrachloroethene	mg/L	0.05 U	0.001 U	0.0067 U	0.001 U
Toluene	mg/L	0.05 U	0.001 U	0.0067 U	0.001 U
1,1,1-Trichloroethane	mg/L	0.05 U	0.001 U	0.0067 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.05 U	0.001 U	0.0067 U	0.001 U
Trichloroethene	mg/L	0.05 U	0.001 U	0.0067 U	0.001 U
Vinyl chloride	mg/L	0.059	0.001 U	0.049	0.00074 J
Xylenes (total)	mg/L	0.1 U	0.002 U	0.013 U	0.002 U

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not detected at the associated reporting limit.

Table 6

Summary of Groundwater Analytical Data - VOCs
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Sample Location:		***MW 66***	***MW 66***	***MW 68***	***MW 68***
Sample ID:		***GW-17302-041917-TW-14***	***GW-101017-BE-012***	***GW-17302-041717-TW-01***	***GW-101117-BE-013***
Sample Date:		***4/19/2017***	***10/10/2017***	***4/17/2017***	***10/11/2017***
Geologic Unit:		***3d***	***3d***	***3s***	***3s***
Parameters	***Units***				
Volatile Organic Compounds					
Acetone	mg/L	0.63 U	0.67 U	1.3 U	1 U
Benzene	mg/L	0.063 U	0.067 U	0.13 U	0.1 U
Bromodichloromethane	mg/L	0.063 U	0.067 U	0.13 U	0.1 U
Bromoform	mg/L	0.063 U	0.067 U	0.13 U	0.1 U
Bromomethane (Methyl bromide)	mg/L	0.063 U	0.067 U	0.13 U	0.1 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.63 U	0.67 U	1.3 U	1 U
Carbon disulfide	mg/L	0.063 U	0.067 U	0.13 U	0.1 U
Carbon tetrachloride	mg/L	0.063 U	0.067 U	0.13 U	0.1 U
Chlorobenzene	mg/L	0.063 U	0.067 U	0.13 U	0.1 U
Chloroethane	mg/L	0.063 U	0.067 U	0.13 U	0.1 U
Chloroform (Trichloromethane)	mg/L	0.063 U	0.067 U	0.13 U	0.1 U
Chloromethane (Methyl chloride)	mg/L	0.063 U	0.067 U	0.13 U	0.1 U
Dibromochloromethane	mg/L	0.063 U	0.067 U	0.13 U	0.1 U
1,1-Dichloroethane	mg/L	0.092	0.15	0.16	0.18
1,2-Dichloroethane	mg/L	0.063 U	0.067 U	0.13 U	0.1 U
1,1-Dichloroethene	mg/L	0.063 U	0.067 U	0.13 U	0.055 J
cis-1,2-Dichloroethene	mg/L	2.2	3	3.7	4.2
trans-1,2-Dichloroethene	mg/L	0.094	0.15	0.15	0.16
1,2-Dichloropropane	mg/L	0.063 U	0.067 U	0.13 U	0.1 U
cis-1,3-Dichloropropene	mg/L	0.063 U	0.067 U	0.13 U	0.1 U
trans-1,3-Dichloropropene	mg/L	0.063 U	0.067 U	0.13 U	0.1 U
Ethylbenzene	mg/L	0.063 U	0.067 U	0.13 U	0.1 U
2-Hexanone	mg/L	0.63 U	0.67 U	1.3 U	1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.63 U	0.67 U	1.3 U	1 U
Methylene chloride	mg/L	0.063 U	0.067 U	0.13 U	0.1 U
Styrene	mg/L	0.063 U	0.067 U	0.13 U	0.1 U
1,1,2,2-Tetrachloroethane	mg/L	0.063 U	0.067 U	0.13 U	0.1 U
Tetrachloroethene	mg/L	0.063 U	0.067 U	0.13 U	0.1 U
Toluene	mg/L	0.063 U	0.067 U	0.13 U	0.1 U
1,1,1-Trichloroethane	mg/L	0.063 U	0.067 U	0.13 U	0.1 U
1,1,2-Trichloroethane	mg/L	0.063 U	0.067 U	0.13 U	0.1 U
Trichloroethene	mg/L	0.063 U	0.067 U	1.5	1.6
Vinyl chloride	mg/L	0.11	0.075	0.13	0.16
Xylenes (total)	mg/L	0.13 U	0.13 U	0.25 U	0.2 U

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not detected at the associated reporting limit.

Table 6

Summary of Groundwater Analytical Data - VOCs
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Sample Location:		***MW 75***	***MW 76R-17***	***MW 79***	***MW 79***
Sample ID:		***GW-101617-BE-030***	***GW-101817-BE-038***	***GW-17302-041717-TW-02***	***GW-17302-041717-TW-03***
Sample Date:		***10/16/2017***	***10/18/2017***	***4/17/2017***	***4/17/2017***
Geologic Unit:		***3d***	***3s***	***3s***	***3s***
Parameters	***Units***				***(Duplicate)***
Volatile Organic Compounds					
Acetone	mg/L	0.01 U	0.01 U	0.63 U	1.3 U
Benzene	mg/L	0.001 U	0.001 U	0.063 U	0.13 U
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.063 U	0.13 U
Bromoform	mg/L	0.001 U	0.001 U	0.063 U	0.13 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 U	0.063 U	0.13 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.01 U	0.01 U	0.63 U	1.3 U
Carbon disulfide	mg/L	0.001 U	0.001 U	0.063 U	0.13 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.063 U	0.13 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.063 U	0.13 U
Chloroethane	mg/L	0.001 U	0.001 U	0.063 U	0.13 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.063 U	0.13 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.063 U	0.13 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.063 U	0.13 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.063 U	0.13 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.063 U	0.13 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.063 U	0.13 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.0027	2.3	2.3
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.095	0.088 J
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.063 U	0.13 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.063 U	0.13 U
trans-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.063 U	0.13 U
Ethylbenzene	mg/L	0.001 U	0.001 U	0.063 U	0.13 U
2-Hexanone	mg/L	0.01 U	0.01 U	0.63 U	1.3 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U	0.01 U	0.63 U	1.3 U
Methylene chloride	mg/L	0.013 U	0.001 U	0.063 U	0.13 U
Styrene	mg/L	0.001 U	0.001 U	0.063 U	0.13 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U	0.063 U	0.13 U
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.063 U	0.13 U
Toluene	mg/L	0.001 U	0.001 U	0.063 U	0.13 U
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.063 U	0.13 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.063 U	0.13 U
Trichloroethene	mg/L	0.001 U	0.001 U	0.063 U	0.13 U
Vinyl chloride	mg/L	0.001 U	0.001 U	0.19	0.19
Xylenes (total)	mg/L	0.002 U	0.002 U	0.13 U	0.25 U

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not detected at the associated reporting limit.

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Summary of Groundwater Analytical Data - VOCs
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Sample Location:		***MW 79***	***MW 80***	***MW 81***	***MW 82***
Sample ID:		***GW-101117-BE-015***	***GW-100617-BE-003***	***GW-100617-BE-002***	***GW-101217-BE-020***
Sample Date:		***10/11/2017***	***10/6/2017***	***10/6/2017***	***10/12/2017***
Geologic Unit:		***3s***	***3d***	***B***	***B***
Parameters	***Units***				
Volatile Organic Compounds					
Acetone	mg/L	0.5 U	0.02 U	0.033 U	0.01 U
Benzene	mg/L	0.05 U	0.002 U	0.0033 U	0.001 U
Bromodichloromethane	mg/L	0.05 U	0.002 U	0.0033 U	0.001 U
Bromoform	mg/L	0.05 U	0.002 U	0.0033 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.05 U	0.002 U	0.0033 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.5 U	0.02 U	0.033 U	0.01 U
Carbon disulfide	mg/L	0.05 U	0.002 U	0.0033 U	0.001 U
Carbon tetrachloride	mg/L	0.05 U	0.002 U	0.0033 U	0.001 U
Chlorobenzene	mg/L	0.05 U	0.002 U	0.0033 U	0.001 U
Chloroethane	mg/L	0.05 U	0.002 U	0.0033 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.05 U	0.002 U	0.0033 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.05 U	0.002 U	0.0033 U	0.001 U
Dibromochloromethane	mg/L	0.05 U	0.002 U	0.0033 U	0.001 U
1,1-Dichloroethane	mg/L	0.05 U	0.002 U	0.0014 J	0.001 U
1,2-Dichloroethane	mg/L	0.05 U	0.002 U	0.0033 U	0.001 U
1,1-Dichloroethene	mg/L	0.05 U	0.002 U	0.0033 U	0.001 U
cis-1,2-Dichloroethene	mg/L	2.5	0.0086	0.096	0.002
trans-1,2-Dichloroethene	mg/L	0.096	0.002 U	0.0033 U	0.001 U
1,2-Dichloropropane	mg/L	0.05 U	0.002 U	0.0033 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.05 U	0.002 U	0.0033 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.05 U	0.002 U	0.0033 U	0.001 U
Ethylbenzene	mg/L	0.05 U	0.002 U	0.0033 U	0.001 U
2-Hexanone	mg/L	0.5 U	0.02 U	0.033 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.5 U	0.02 U	0.033 U	0.01 U
Methylene chloride	mg/L	0.05 U	0.002 U	0.0033 U	0.001 U
Styrene	mg/L	0.05 U	0.002 U	0.0033 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.05 U	0.002 U	0.0033 U	0.001 U
Tetrachloroethene	mg/L	0.05 U	0.002 U	0.0033 U	0.001 U
Toluene	mg/L	0.05 U	0.002 U	0.0033 U	0.0004 J
1,1,1-Trichloroethane	mg/L	0.05 U	0.002 U	0.0033 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.05 U	0.002 U	0.0033 U	0.001 U
Trichloroethene	mg/L	0.05 U	0.002 U	0.0033 U	0.00097 J
Vinyl chloride	mg/L	0.2	0.041	0.042	0.001 U
Xylenes (total)	mg/L	0.1 U	0.004 U	0.0067 U	0.00027 J

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not detected at the associated reporting limit.

Table 6

Summary of Groundwater Analytical Data - VOCs
2017 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location:		***MW 82***	***MW 83***	***MW 84***	***MW 85***
Sample ID:		***GW-101217-BE-021***	***GW-101117-BE-014***	***GW-101317-BE-025***	***GW-17302-041817-TW-05***
Sample Date:		***10/12/2017***	***10/11/2017***	***10/13/2017***	***4/18/2017***
Geologic Unit:		***B***	***B***	***3s***	***3d***
Parameters	***Units***	***(Duplicate)***			
Volatile Organic Compounds					
Acetone	mg/L	0.01 U	0.01 U	0.01 U	3.3 U
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.33 U
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.33 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.33 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 U	0.001 U	0.33 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.01 U	0.01 U	0.01 U	3.3 U
Carbon disulfide	mg/L	0.001 U	0.001 U	0.001 U	0.33 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.33 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.33 U
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.33 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	0.33 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.33 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.33 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.32 J
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.33 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.33 U
cis-1,2-Dichloroethene	mg/L	0.002	0.00041 J	0.001 U	8.4
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.28 J
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.33 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.001 U	0.33 U
trans-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.001 U	0.33 U
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.33 U
2-Hexanone	mg/L	0.01 U	0.01 U	0.01 U	3.3 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U	0.01 U	0.01 U	3.3 U
Methylene chloride	mg/L	0.001 U	0.001 U	0.001 U	0.33 U
Styrene	mg/L	0.001 U	0.001 U	0.001 U	0.33 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.33 U
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.33 U
Toluene	mg/L	0.00038 J	0.001 U	0.001 U	0.33 U
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.33 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.33 U
Trichloroethene	mg/L	0.00096 J	0.00045 J	0.001 U	0.33 U
Vinyl chloride	mg/L	0.001 U	0.0076	0.001 U	0.42
Xylenes (total)	mg/L	0.00028 J	0.002 U	0.002 U	0.67 U

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not detected at the associated reporting limit.

Table 6

Summary of Groundwater Analytical Data - VOCs
2017 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location:		***MW 85***	***MW 86***	***MW 88***	***MW89-11***
Sample ID:		***GW-101717-BE-034***	***GW-101317-BE-024***	***GW-101317-BE-023***	***GW-17302-041917-TW-13***
Sample Date:		***10/17/2017***	***10/13/2017***	***10/13/2017***	***4/19/2017***
Geologic Unit:		***3d***	***3d***	***3d***	***3s***
Parameters	***Units***				
Volatile Organic Compounds					
Acetone	mg/L	2 U	0.0023 J	0.01 U	0.01 U
Benzene	mg/L	0.2 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.2 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.2 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.2 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	2 U	0.01 U	0.01 U	0.01 U
Carbon disulfide	mg/L	0.2 U	0.001 U	0.001 U	0.001 U
Carbon tetrachloride	mg/L	0.2 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.2 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.2 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.2 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.2 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.2 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.31	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.2 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.2 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	8.6	0.001 U	0.001 U	0.0033 U
trans-1,2-Dichloroethene	mg/L	0.29	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.2 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.2 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.2 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	mg/L	0.2 U	0.001 U	0.001 U	0.00039 J
2-Hexanone	mg/L	2 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	2 U	0.01 U	0.01 U	0.01 U
Methylene chloride	mg/L	4.3	0.001 U	0.001 U	0.001 U
Styrene	mg/L	0.2 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.2 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	0.2 U	0.001 U	0.001 U	0.001 U
Toluene	mg/L	0.2 U	0.001 U	0.001 U	0.00084 J
1,1,1-Trichloroethane	mg/L	0.2 U	0.001 U	0.001 U	0.00033 J
1,1,2-Trichloroethane	mg/L	0.2 U	0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	0.2 U	0.001 U	0.001 U	0.00036 J
Vinyl chloride	mg/L	0.45	0.001 U	0.0023	0.001 U
Xylenes (total)	mg/L	0.4 U	0.002 U	0.002 U	0.0014 J

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not detected at the associated reporting limit.

Table 6

Summary of Groundwater Analytical Data - VOCs
2017 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location:		***MW89-11***	***MW97R-16***
Sample ID:		***GW-101717-BE-037***	***GW-101817-BE-042***
Sample Date:		***10/17/2017***	***10/18/2017***
Geologic Unit:		***3s***	***3d***
Parameters	***Units***		
Volatile Organic Compounds			
Acetone	mg/L	0.01 U	0.01 U
Benzene	mg/L	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.01 U	0.01 U
Carbon disulfide	mg/L	0.001 U	0.001 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U
Chloroethane	mg/L	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.00059 J	0.001 U
cis-1,2-Dichloroethene	mg/L	0.00059 J	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.001 U	0.001 U
Ethylbenzene	mg/L	0.001 U	0.001 U
2-Hexanone	mg/L	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U	0.01 U
Methylene chloride	mg/L	0.001 U	0.001 U
Styrene	mg/L	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U
Tetrachloroethene	mg/L	0.001 U	0.001 U
Toluene	mg/L	0.001 U	0.001 U
1,1,1-Trichloroethane	mg/L	0.0026	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U
Trichloroethene	mg/L	0.001 U	0.001 U
Vinyl chloride	mg/L	0.001 U	0.001 U
Xylenes (total)	mg/L	0.002 U	0.002 U

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not detected at the associated reporting limit.

Table 7

Summary of Surface Water Analytical Data - VOCs
2017 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location:		***Pond Intake***	***Pond Intake***	***Pond Intake***	***Pond North***
Sample ID:		***SW-17302-041817-TW-03***	***SW-071217-TP-001***	***SW-101917-BE-001***	***SW-17302-041817-TW-01***
Sample Date:		***4/18/2017***	***7/12/2017***	***10/19/2017***	***4/18/2017***
Parameters	***Units***				
Volatile Organic Compounds					
Acetone	mg/L	0.017 U	0.04 U	0.02 U	0.067 U
Benzene	mg/L	0.0017 U	0.004 U	0.002 U	0.0067 U
Bromodichloromethane	mg/L	0.0017 U	0.004 U	0.002 U	0.0067 U
Bromoform	mg/L	0.0017 U	0.004 U	0.002 U	0.0067 U
Bromomethane (Methyl bromide)	mg/L	0.0017 U	0.004 U	0.002 U	0.0067 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.017 U	0.04 U	0.02 U	0.067 U
Carbon disulfide	mg/L	0.0017 U	0.004 U	0.002 U	0.0067 U
Carbon tetrachloride	mg/L	0.0017 U	0.004 U	0.002 U	0.0067 U
Chlorobenzene	mg/L	0.0017 U	0.004 U	0.002 U	0.0067 U
Chloroethane	mg/L	0.0017 U	0.004 U	R	0.0067 U
Chloroform (Trichloromethane)	mg/L	0.0017 U	0.004 U	0.002 U	0.0067 U
Chloromethane (Methyl chloride)	mg/L	0.0017 U	0.004 U	0.002 U	0.0067 U
Dibromochloromethane	mg/L	0.0017 U	0.004 U	0.002 U	0.0067 U
1,1-Dichloroethane	mg/L	0.0028	0.0059	0.0029	0.0098
1,2-Dichloroethane	mg/L	0.0017 U	0.004 U	0.002 U	0.0067 U
1,1-Dichloroethene	mg/L	0.0017 U	0.004 U	0.002 U	0.0067 U
cis-1,2-Dichloroethene	mg/L	0.059	0.11	0.052	0.21
trans-1,2-Dichloroethene	mg/L	0.0023	0.0043	0.0014 J	0.0092
1,2-Dichloropropane	mg/L	0.0017 U	0.004 U	0.002 U	0.0067 U
cis-1,3-Dichloropropene	mg/L	0.0017 U	0.004 U	0.002 U	0.0067 U
trans-1,3-Dichloropropene	mg/L	0.0017 U	0.004 U	0.002 U	0.0067 U
Ethylbenzene	mg/L	0.0017 U	0.004 U	0.002 U	0.0067 U
2-Hexanone	mg/L	0.017 U	0.04 U	0.02 U	0.067 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.017 U	0.04 U	0.02 U	0.067 U
Methylene chloride	mg/L	0.0017 U	0.004 U	0.002 U	0.0067 U
Styrene	mg/L	0.0017 U	0.004 U	0.002 U	0.0067 U
1,1,2,2-Tetrachloroethane	mg/L	0.0017 U	0.004 U	0.002 U	0.0067 U
Tetrachloroethene	mg/L	0.0017 U	0.004 U	0.002 U	0.0067 U
Toluene	mg/L	0.0017 U	0.004 U	0.002 U	0.0067 U
1,1,1-Trichloroethane	mg/L	0.0017 U	0.00092 J	0.002 U	0.0067 U
1,1,2-Trichloroethane	mg/L	0.0017 U	0.004 U	0.002 U	0.0067 U
Trichloroethene	mg/L	0.0017 U	0.0073	0.002 U	0.0067 U
Vinyl chloride	mg/L	0.0063	0.0051	0.0048	0.011
Xylenes (total)	mg/L	0.0033 U	0.008 U	0.004 U	0.013 U

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not detected at the associated reporting limit.
R - Rejected

Table 7

Summary of Surface Water Analytical Data - VOCs
2017 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location:		***Pond North***	***Pond North***	***Pond North***	***Pond North***
Sample ID:		***SW-17302-041817-TW-02***	***SW-071217-TP-002***	***SW-071217-TP-003***	***SW-101917-BE-002***
Sample Date:		***4/18/2017***	***7/12/2017***	***7/12/2017***	***10/19/2017***
Parameters	***Units***			***(Duplicate)***	
Volatile Organic Compounds					
Acetone	mg/L	0.067 U	0.033 U	0.033 U	0.1 U
Benzene	mg/L	0.0067 U	0.0033 U	0.0033 U	0.01 U
Bromodichloromethane	mg/L	0.0067 U	0.0033 U	0.0033 U	0.01 U
Bromoform	mg/L	0.0067 U	0.0033 U	0.0033 U	0.01 U
Bromomethane (Methyl bromide)	mg/L	0.0067 U	0.0033 U	0.0033 U	0.01 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.067 U	0.033 U	0.033 U	0.1 U
Carbon disulfide	mg/L	0.0067 U	0.0033 U	0.0033 U	0.01 U
Carbon tetrachloride	mg/L	0.0067 U	0.0033 U	0.0033 U	0.01 U
Chlorobenzene	mg/L	0.0067 U	0.0033 U	0.0033 U	0.01 U
Chloroethane	mg/L	0.0067 U	0.0033 U	0.0033 U	R
Chloroform (Trichloromethane)	mg/L	0.0067 U	0.0033 U	0.0033 U	0.01 U
Chloromethane (Methyl chloride)	mg/L	0.0067 U	0.0033 U	0.0033 U	0.01 U
Dibromochloromethane	mg/L	0.0067 U	0.0033 U	0.0033 U	0.01 U
1,1-Dichloroethane	mg/L	0.0097	0.0059	0.0057	0.017
1,2-Dichloroethane	mg/L	0.0067 U	0.0033 U	0.0033 U	0.01 U
1,1-Dichloroethene	mg/L	0.0067 U	0.0033 U	0.0033 U	0.01 U
cis-1,2-Dichloroethene	mg/L	0.2	0.11	0.1	0.35
trans-1,2-Dichloroethene	mg/L	0.0084	0.0041	0.004	0.014
1,2-Dichloropropane	mg/L	0.0067 U	0.0033 U	0.0033 U	0.01 U
cis-1,3-Dichloropropene	mg/L	0.0067 U	0.0033 U	0.0033 U	0.01 U
trans-1,3-Dichloropropene	mg/L	0.0067 U	0.0033 U	0.0033 U	0.01 U
Ethylbenzene	mg/L	0.0067 U	0.0033 U	0.0033 U	0.01 U
2-Hexanone	mg/L	0.067 U	0.033 U	0.033 U	0.1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.067 U	0.033 U	0.033 U	0.1 U
Methylene chloride	mg/L	0.0067 U	0.0033 U	0.0033 U	0.01 U
Styrene	mg/L	0.0067 U	0.0033 U	0.0033 U	0.01 U
1,1,2,2-Tetrachloroethane	mg/L	0.0067 U	0.0033 U	0.0033 U	0.01 U
Tetrachloroethene	mg/L	0.0067 U	0.0033 U	0.0033 U	0.01 U
Toluene	mg/L	0.0067 U	0.0033 U	0.0033 U	0.01 U
1,1,1-Trichloroethane	mg/L	0.0067 U	0.00094 J	0.00095 J	0.01 U
1,1,2-Trichloroethane	mg/L	0.0067 U	0.0033 U	0.0033 U	0.01 U
Trichloroethene	mg/L	0.0067 U	0.0071	0.0073	0.01 U
Vinyl chloride	mg/L	0.01	0.0053	0.0052	0.017
Xylenes (total)	mg/L	0.013 U	0.0067 U	0.0067 U	0.02 U

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not detected at the associated reporting limit.
R - Rejected

Table 8

Preliminary Screening for Anaerobic Biodegradation Process
2016 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Analysis	*Concentration in Most Contaminated Zone*	*Value*	*AOC 1- South Court Plume*	*Former WWTP Plume*
Oxygen*	<0.5 mg/L >5mg/L	3 -3	3	3
Nitrate*	< 1 mg/L	2	2	2
Ferrous Iron*	> 1 mg/L	3	3	3
Sulfate*	<20 mg/L	2	2	0
Sulfide*	>1mg/L	3	0	0
Methane*	<0.5 mg/L >0.5mg/L	0 3	3	0
ORP*	<50 mV <-100mV	1 2	2	1
pH*	5 < pH < 9 5 > pH >9	0 -2	0	0
TOC	> 20 mg/L	2	0	0
Temperature*	>20°C	1	0	0
Alkalinity	>2x background	1	0	0
Chloride*	>2x background	2	2	2
BTEX*	>0.1 mg/L	2	0	0
TCE*	Material released Daughter product of PCE	0 2	0	0
DCE*	Material released Daughter product of TCE/TCA	0 2	2	2
VC*	Material released Daughter product of DCE	0 2	2	2
1,1,1-TCA*	Material released	0	0	0
DCA	Daughter product of TCA	2	2	2
Chloroethane*	Daughter product of DCA or VC	2	0	0
Ethene/Ethane	>0.01mg/L >0.1 mg/L	2 3	3	2
Total Points Awarded:			**26**	**19**

Notes:
* required
Score interpretation:
Score 0 to 5 means there is inadequate evidence for anaerobic biodegradation
Score 6 to 14 means there is limited evidence for anaerobic biodegradation
Score 15 to 20 means there is adequate evidence for anaerobic biodegradation
Score > 20 means there is strong evidence for anaerobic biodegradation (U.S. EPA, 1998)

Reference:
U.S. EPA. 1998. Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water, Office of Research and Development, Washington, DC. EPA/600/R-98/128. September, 1998.

Table 9

Trend Test Summary
2017 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Location	Hydro-Geologic Unit	Plume Position	Date Range	Analyte		
				TCE	cis-1,2-DCE	Vinyl chloride
MW-2	3d	WWTP, Margin	2007 -- 2017	--	--	--
MW 3	3s	AOC 1, Source	2005 -- 2017	NT or Decreasing	NT or Decreasing	NT or Decreasing (1)
MW-4	3d	WWTP, Tail	2005 -- 2017	**Increasing (1)**	NT or Decreasing	NT or Decreasing
MW-7	3d	WWTP, Margin	2012 -- 2017	--	--	--
MW 8	3s	AOC 1, Source	2005 -- 2017	NT or Decreasing	NT or Decreasing	NT or Decreasing
MW 12	3i	AOC 1, Tail	2005 -- 2017	NT or Decreasing (1)	NT or Decreasing	--
MW 14	3s	AOC 1, Tail	2005 -- 2017	--	NT or Decreasing	NT or Decreasing
MW 15 (2)(3)	3s	AOC 1, Source	2005 -- 2017	NT or Decreasing	NT or Decreasing	NT or Decreasing
MW 16	3s	AOC 1, Margin	2005 -- 2017	--	--	--
MW 21 (2)(3)	3s	AOC 1, Margin	2005 -- 2017	--	--	--
MW 28	3d	WWTP, Tail	2005 -- 2017	--	**Increasing (1)**	**Increasing**
MW 31R	1	AOC 1, Source	2005 -- 2017	NT or Decreasing (1)	NT or Decreasing	NT or Decreasing
MW 37	3s	AOC 1, Margin	2005 -- 2017	--	--	--
MW 40	3s	WWTP, Source	2005 -- 2017	**Increasing (1)**	NT or Decreasing	NT or Decreasing
MW 41	3d	WWTP, Source	2005 -- 2017	--	NT or Decreasing	**Increasing**
MW 42	3s	WWTP, Source	2005 -- 2017	--	NT or Decreasing	NT or Decreasing
MW 46	3s	AOC 1, Margin	2005 -- 2017	--	--	--
MW 49	3s	AOC 1, Tail	2005 -- 2016	--	**Increasing**	NT or Decreasing
MW 51	3s	AOC 1, Tail	2008 -- 2017	NT or Decreasing	**Increasing**	**Increasing (1)**
MW 56	3d	WWTP, Margin	2005 -- 2017	--	--	--
MW 57	3d	WWTP, Margin	2005 -- 2017	--	--	--
MW 58	3d	WWTP, Margin	2005 -- 2017	--	--	**Increasing**
MW 61	3d	WWTP, Margin	2005 -- 2017	--	--	--
MW 64	3d	WWTP, Margin	2005 -- 2017	--	--	**Increasing**
MW 65	3d	WWTP, Margin	2005 -- 2017	--	NT or Decreasing	NT or Decreasing (1)
MW 66	3d	WWTP, Tail	2005 -- 2017	--	**Increasing (1)**	**Increasing**
MW 68	3s	WWTP, Source	2005 -- 2017	**Increasing**	NT or Decreasing	NT or Decreasing
MW 75	3d	AOC 1, Margin	2005 -- 2017	--	--	--
MW 76/MW 76R-17	3s	AOC 1, Margin	2005 -- 2017	--	--	--
MW 79	3s	AOC 1, Tail	2005 -- 2017	--	**Increasing**	NT or Decreasing
MW 80	3d	WWTP, Margin	2005 -- 2017	--	--	NT or Decreasing
MW 81	B	WWTP, Margin	2005 -- 2017	--	**Increasing (1)**	**Increasing**
MW 82	B	AOC 1, Margin	2005 -- 2017	--	--	--
MW 83	B	WWTP, Margin	2005 -- 2017	--	--	**Increasing (1)**
MW 84	3S	WWTP, Margin	2005 -- 2017	--	--	--
MW 85	3d	WWTP, Tail	2008 -- 2017	--	**Increasing**	NT or Decreasing
MW 86	3d	WWTP, Tail	2010 -- 2017	--	--	--
MW 88	3d	WWTP, Tail	2010 -- 2017	--	--	**Increasing (1)**
MW 89-11	3s	AOC 1, Tail	2011 -- 2017	--	--	--
MW97R-16	3d	WWTP, Margin	2016 -- 2017	--	--	--
Pond Intake (2)	Surface Water	Surface Water	2005 -- 2017	--	**Increasing (1)**	**Increasing (1)**
Pond North (2)	Surface Water	Surface Water	2005 -- 2017	--	**Increasing (1)**	**Increasing (1)**

Notes:

(1) Tend test was calculated using detected values only, due to elevated detection limits for non-detects or due to detection frequency close to 75 percent.

(2) Due to changes in sampling frequency, earlier sampling events were excluded from the Mann-Kendall trend test to provide a consistent sampling interval corresponding to current program.

(3) Due a gap in the montirong record, the assumption of data equally spaced through time was not met. Therefore supplementary tests were performed (see text for details).

-- Trend test not performed due to infrequent detections (i.e., fewer than 75 percent detects).

NT or Decreasing - A statistically-significant (90 percent confidence) increasing trend was not found. Analyte concentrations may be stable or decreasing over time. (Per approved Monitoring Plan, a 1-sided test is performed).

AOC 1 = VOC plume originating at AOC 1 - South Court

WWTP = VOC plume originating from former WWTP Area

Source = VOC source area well

Well MW 49 was not sampled during the 2017 monitoring event.

Table 10

Trend Test Summary (Recent Period)
2017 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Location	Hydro-Geologic Unit	Plume Position	Date Range	Analyte		
				TCE	cis-1,2-DCE	Vinyl chloride
MW-2	3d	WWTP, Margin	2013 -- 2017	--	--	--
MW 3	3s	AOC 1, Source	2014 -- 2017	NT or Decreasing	NT or Decreasing	--
MW-4	3d	WWTP, Tail	2014 -- 2017	**Increasing**	NT or Decreasing	**Increasing**
MW-7	3d	WWTP, Margin	2014 -- 2017	--	--	--
MW 8	3s	AOC 1, Source	2014 -- 2017	NT or Decreasing	NT or Decreasing	NT or Decreasing
MW 12	3i	AOC 1, Tail	2014 -- 2017	--	NT or Decreasing	--
MW 14	3s	AOC 1, Tail	2014 -- 2017	--	NT or Decreasing	NT or Decreasing
MW 15	3s	AOC 1, Source	2013 -- 2017	NT or Decreasing	NT or Decreasing	--
MW 16	3s	AOC 1, Margin	2013 -- 2017	--	--	--
MW 21	3s	AOC 1, Margin	2015 -- 2017	--	--	--
MW 28	3d	WWTP, Tail	2014 -- 2017	--	**Increasing**	NT or Decreasing
MW 31R	1	AOC 1, Source	2014 -- 2017	--	**Increasing**	NT or Decreasing
MW 37	3s	AOC 1, Margin	2013 -- 2017	--	--	--
MW 40	3s	WWTP, Source	2014 -- 2017	NT or Decreasing	NT or Decreasing	NT or Decreasing
MW 41	3d	WWTP, Source	2014 -- 2017	--	NT or Decreasing	NT or Decreasing
MW 42	3s	WWTP, Source	2014 -- 2017	--	NT or Decreasing	NT or Decreasing
MW 46	3s	AOC 1, Margin	2013 -- 2017	--	--	--
MW 49	3s	AOC 1, Tail	2014 -- 2016	--	NT or Decreasing	NT or Decreasing
MW 51	3s	AOC 1, Tail	2014 -- 2017	NT or Decreasing	**Increasing**	NT or Decreasing
MW 56	3d	WWTP, Margin	2013 -- 2017	--	--	--
MW 57	3d	WWTP, Margin	2013 -- 2017	--	--	NT or Decreasing
MW 58	3d	WWTP, Margin	2013 -- 2017	--	--	NT or Decreasing
MW 61	3d	WWTP, Margin	2013 -- 2017	--	--	--
MW 64	3d	WWTP, Margin	2013 -- 2017	--	NT or Decreasing	NT or Decreasing
MW 65	3d	WWTP, Margin	2013 -- 2017	--	NT or Decreasing	NT or Decreasing
MW 66	3d	WWTP, Tail	2014 -- 2017	--	**Increasing**	NT or Decreasing
MW 68	3s	WWTP, Source	2014 -- 2017	NT or Decreasing	NT or Decreasing	NT or Decreasing
MW 75	3d	AOC 1, Margin	2013 -- 2017	--	--	--
MW 76/MW 76R-17	3s	AOC 1, Margin	2013 -- 2017	--	--	--
MW 79	3s	AOC 1, Tail	2014 -- 2017	--	NT or Decreasing	NT or Decreasing
MW 80	3d	WWTP, Margin	2013 -- 2017	--	--	NT or Decreasing
MW 81	B	WWTP, Margin	2013 -- 2017	--	NT or Decreasing	NT or Decreasing
MW 82	B	AOC 1, Margin	2013 -- 2017	--	--	--
MW 83	B	WWTP, Margin	2013 -- 2017	--	--	NT or Decreasing
MW 84	3S	WWTP, Margin	2013 -- 2017	--	--	--
MW 85	3d	WWTP, Tail	2014 -- 2017	--	NT or Decreasing	NT or Decreasing
MW 86	3d	WWTP, Tail	2013 -- 2017	--	--	--
MW 88	3d	WWTP, Tail	2013 -- 2017	--	--	NT or Decreasing
MW 89-11	3s	AOC 1, Tail	2014 -- 2017	--	--	--
MW97R-16	3d	WWTP, Margin	2016 -- 2017	--	--	--
Pond Intake	Surface Water	Surface Water	2015 -- 2017	--	NT or Decreasing	NT or Decreasing
Pond North	Surface Water	Surface Water	2015 -- 2017	--	**Increasing**	NT or Decreasing

Notes:

-- Trend test not performed due to infrequent detections (i.e., fewer than 75 percent detects).

NT or Decreasing - A statistically-significant (90 percent confidence) increasing trend was not found. Analyte concentrations may be stable or decreasing over time. (Per approved Monitoring Plan, a 1-sided test is performed).

AOC 1 = VOC plume originating at AOC 1 - South Court

WWTP = VOC plume originating from former WWTP Area

Source = VOC source area well

Well MW 49 was not sampled during the 2016 monitoring event.

Appendices

Appendix A
MW 97R-16 Stratigraphic and Instrumentation Log

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: MLK BLVD
PROJECT NUMBER: 17302
CLIENT: RACER TRUST
LOCATION: FORMER ANDERSON GUIDE FACILITY

HOLE DESIGNATION: MW 76R-17
DATE COMPLETED: October 5, 2017
DRILLING METHOD: Geoprobe/HSA
FIELD PERSONNEL: T. Pranger

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE
	GROUND SURFACE TOP OF RISER	882.65 882.54					
0	SAND AND GRAVEL		FLUSHMOUNT CASING CONCRETE				
	SILT LOAM, very dark gray, dry, soft, slightly calcareous, contains organic material throughout, gradual contact @ 2.0ft	881.65 880.65					
2	SILTY CLAY LOAM, grayish brown, dry, slightly hard, slightly calcareous, iron staining throughout	879.65					
4	SILTY CLAY LOAM, mixed grayish brown and dark grayish brown, moist, slightly firm, slightly calcareous, contains loam laminations - slight petroleum odor and staining from 5.0 to 5.9ft BGS		2" PVC WELL				
6	LOAM, slightly pebbly, grayish brown, dry to moist, slightly hard to slightly friable, calcareous	876.75 875.65					
8	LOAM, pebbly, yellowish brown, dry, hard, slightly calcareous, contains occasional silt filled fractures						
10	LOAM, pebbly, grayish brown, dry, hard, slightly calcareous, contains occasional stones, silt skins, iron staining and trace dendrites	873.65					
12	LOAM, pebbly, gray, dry, hard, calcareous, massive, contains occasional stones	871.65					
14							
16							
18	- contains silty loam laminations and occasional silt skins at 17.0ft BGS						
20							
22	SILTY CLAY LOAM, slightly pebbly, gray, dry, hard to slightly hard, calcareous, massive, contains occasional stones	861.65					
24	- slightly most to dry at 23.0ft BGS						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: MLK BLVD
PROJECT NUMBER: 17302
CLIENT: RACER TRUST
LOCATION: FORMER ANDERSON GUIDE FACILITY

HOLE DESIGNATION: MW 76R-17
DATE COMPLETED: October 5, 2017
DRILLING METHOD: Geoprobe/HSA
FIELD PERSONNEL: T. Pranger

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE
26	- contains occasional granules, slightly hard at 25.0ft BGS						
28	- contains silt and very fine sand laminations, becoming moist from 27.5 to 29.0ft BGS						
	SILT LOAM, gray, moist to wet, friable, calcareous, very fine wet sand laminations throughout	853.65					
30	LOAM, grayish brown, moist, firm, calcareous, massive, contains occasional granules	851.65					
32	LOAM, pebbly, grayish brown, moist-dry, firm-hard, calcareous, massive, abrupt contact @ 44.0'	849.65					
34							
36							
38							
40							
42							
44	LOAMY SAND, dark gray, saturated, abrupt contact @ 44.5'	838.65					
	SAND, coarse, pebbly	838.15					
46	SAND, medium-coarse, trace pebbles, very dark grayish brown, saturated, poorly washed and sorted	837.65					
48							
	CLAY LOAM, dark gray, moist-wet, slightly hard, few pebbles, abrupt contact @ 60.7'	833.65					

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: MLK BLVD
PROJECT NUMBER: 17302
CLIENT: RACER TRUST
LOCATION: FORMER ANDERSON GUIDE FACILITY

HOLE DESIGNATION: MW 76R-17
DATE COMPLETED: October 5, 2017
DRILLING METHOD: Geoprobe/HSA
FIELD PERSONNEL: T. Pranger

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE
52							
54			No. 2 SAND; 2" PVC WELL SCREEN				
56							
58							
	CLAY LOAM, dark gray, moist-wet, slightly hard, few pebbles	823.85					
60	- NOTE: Stratigraphy noted above from SB271/MW75/76 Installed by Earth Exploration PRJ#62806, 10/19/2004 at 60.0ft BGS	822.65	WELL DETAILS Screened interval: 832.65 to 822.65ft 50.00 to 60.00ft BGS Length: 10ft Diameter: 2in Slot Size: 10 Material: PVC Seal: 881.65 to 834.65ft 1.00 to 48.00ft BGS Sand Pack: 834.65 to 822.65ft 48.00 to 60.00ft BGS Material: No. 2 SAND				
62	END OF BOREHOLE @ 60.0ft BGS						
64							
66							
68							
70							
72							
74							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

Appendix B
Laboratory Analytical Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-78395-1
Client Project/Site: 17302-T07, RACER Delphi Anderson

For:
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko

Denise D Heckler

Authorized for release by:
5/1/2017 9:09:33 AM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.

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)

Job ID: 240-78395-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-78395-1

Comments
No additional comments.

Receipt
The samples were received on 4/20/2017 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.5º C.

GC/MS VOA
Method(s) 8260B: Batch 240-276605 is reported without a matrix spike/matrix spike duplicate (MS/MSD). The batch MS/MSD was canceled because the parent sample had to be re-run at a different dilution. The MS/MSD result does not have immediate bearing on any samples except for the actual sample spiked. The associated laboratory control sample (LCS) met acceptance criteria and provides long-term precision and accuracy for this batch.

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

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

Method Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-78395-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN

Protocol References:

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

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-78395-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-78395-1	GW-17302-041717-TW-01	Water	04/17/17 16:00	04/20/17 09:20
240-78395-2	GW-17302-041717-TW-02	Water	04/17/17 17:30	04/20/17 09:20
240-78395-3	GW-17302-041717-TW-03	Water	04/17/17 17:35	04/20/17 09:20
240-78395-4	GW-17302-041817-TW-04	Water	04/18/17 10:50	04/20/17 09:20
240-78395-5	SW-17302-041817-TW-01	Water	04/18/17 12:10	04/20/17 09:20
240-78395-6	SW-17302-041817-TW-02	Water	04/18/17 12:15	04/20/17 09:20
240-78395-7	GW-17302-041817-TW-05	Water	04/18/17 12:20	04/20/17 09:20
240-78395-8	SW-17302-041817-TW-03	Water	04/18/17 12:40	04/20/17 09:20
240-78395-9	GW-17302-041817-TW-06	Water	04/18/17 14:40	04/20/17 09:20
240-78395-10	GW-17302-041817-TW-07	Water	04/18/17 15:55	04/20/17 09:20
240-78395-11	GW-17302-041817-TW-08	Water	04/18/17 16:00	04/20/17 09:20
240-78395-12	GW-17302-041817-TW-09	Water	04/18/17 17:10	04/20/17 09:20
240-78395-13	GW-17302-041817-TW-10	Water	04/18/17 18:15	04/20/17 09:20
240-78395-14	GW-17302-041917-TW-11	Water	04/19/17 09:35	04/20/17 09:20
240-78395-15	GW-17302-041917-TW-12	Water	04/19/17 10:55	04/20/17 09:20
240-78395-16	GW-17302-041917-TW-13	Water	04/19/17 11:55	04/20/17 09:20
240-78395-17	GW-17302-041917-TW-14	Water	04/19/17 13:05	04/20/17 09:20
240-78395-18	GW-17302-041917-TW-15	Water	04/19/17 14:40	04/20/17 09:20
240-78395-19	GW-17302-041917-TW-16	Water	04/19/17 15:40	04/20/17 09:20
240-78395-20	GW-17302-041917-TW-17	Water	04/19/17 16:25	04/20/17 09:20
240-78395-21	GW-17302-041917-TW-18	Water	04/19/17 17:30	04/20/17 09:20
240-78395-22	EB-17302-041917-TW-01	Water	04/19/17 17:50	04/20/17 09:20
240-78395-23	TB-17302-041717-TW-01	Water	04/17/17 00:00	04/20/17 09:20

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-78395-1

Client Sample ID: GW-17302-041717-TW-01 — Lab Sample ID: 240-78395-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	160		130	31	ug/L	125		8260B	Total/NA
cis-1,2-Dichloroethene	3700		130	38	ug/L	125		8260B	Total/NA
trans-1,2-Dichloroethene	150		130	36	ug/L	125		8260B	Total/NA
Trichloroethene	1500		130	41	ug/L	125		8260B	Total/NA
Vinyl chloride	130		130	56	ug/L	125		8260B	Total/NA

Client Sample ID: GW-17302-041717-TW-02 — Lab Sample ID: 240-78395-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2300		63	19	ug/L	62.5		8260B	Total/NA
trans-1,2-Dichloroethene	95		63	18	ug/L	62.5		8260B	Total/NA
Vinyl chloride	190		63	28	ug/L	62.5		8260B	Total/NA

Client Sample ID: GW-17302-041717-TW-03 — Lab Sample ID: 240-78395-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2300		130	38	ug/L	125		8260B	Total/NA
trans-1,2-Dichloroethene	88	J	130	36	ug/L	125		8260B	Total/NA
Vinyl chloride	190		130	56	ug/L	125		8260B	Total/NA

Client Sample ID: GW-17302-041817-TW-04 — Lab Sample ID: 240-78395-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	340		330	83	ug/L	333.333		8260B	Total/NA
cis-1,2-Dichloroethene	8600		330	100	ug/L	333.333		8260B	Total/NA
trans-1,2-Dichloroethene	260	J	330	97	ug/L	333.333		8260B	Total/NA
Trichloroethene	1100		330	110	ug/L	333.333		8260B	Total/NA
Vinyl chloride	840		330	150	ug/L	333.333		8260B	Total/NA

Client Sample ID: SW-17302-041817-TW-01 — Lab Sample ID: 240-78395-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	9.8		6.7	1.7	ug/L	6.67		8260B	Total/NA
cis-1,2-Dichloroethene	210		6.7	2.0	ug/L	6.67		8260B	Total/NA
trans-1,2-Dichloroethene	9.2		6.7	1.9	ug/L	6.67		8260B	Total/NA
Vinyl chloride	11		6.7	3.0	ug/L	6.67		8260B	Total/NA

Client Sample ID: SW-17302-041817-TW-02 — Lab Sample ID: 240-78395-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	9.7		6.7	1.7	ug/L	6.67		8260B	Total/NA
cis-1,2-Dichloroethene	200		6.7	2.0	ug/L	6.67		8260B	Total/NA
trans-1,2-Dichloroethene	8.4		6.7	1.9	ug/L	6.67		8260B	Total/NA
Vinyl chloride	10		6.7	3.0	ug/L	6.67		8260B	Total/NA

Client Sample ID: GW-17302-041817-TW-05 — Lab Sample ID: 240-78395-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	320	J	330	83	ug/L	333.333		8260B	Total/NA
cis-1,2-Dichloroethene	8400		330	100	ug/L	333.333		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: GW-17302-041817-TW-05 (Continued) — Lab Sample ID: 240-78395-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	280	J	330	97	ug/L	333.333		8260B	Total/NA
Vinyl chloride	420		330	150	ug/L	333.333		8260B	Total/NA

Client Sample ID: SW-17302-041817-TW-03 — Lab Sample ID: 240-78395-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.8		1.7	0.42	ug/L	1.67		8260B	Total/NA
cis-1,2-Dichloroethene	59		1.7	0.50	ug/L	1.67		8260B	Total/NA
trans-1,2-Dichloroethene	2.3		1.7	0.48	ug/L	1.67		8260B	Total/NA
Vinyl chloride	6.3		1.7	0.75	ug/L	1.67		8260B	Total/NA

Client Sample ID: GW-17302-041817-TW-06 — Lab Sample ID: 240-78395-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	15		3.3	1.0	ug/L	3.333		8260B	Total/NA
Trichloroethene	140		3.3	1.1	ug/L	3.333		8260B	Total/NA
Vinyl chloride	4.1		3.3	1.5	ug/L	3.333		8260B	Total/NA

Client Sample ID: GW-17302-041817-TW-07 — Lab Sample ID: 240-78395-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	38	J	130	31	ug/L	125		8260B	Total/NA
cis-1,2-Dichloroethene	4100		130	38	ug/L	125		8260B	Total/NA
Vinyl chloride	130		130	56	ug/L	125		8260B	Total/NA

Client Sample ID: GW-17302-041817-TW-08 — Lab Sample ID: 240-78395-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	33	J	130	31	ug/L	125		8260B	Total/NA
cis-1,2-Dichloroethene	3900		130	38	ug/L	125		8260B	Total/NA
Vinyl chloride	130		130	56	ug/L	125		8260B	Total/NA

Client Sample ID: GW-17302-041817-TW-09 — Lab Sample ID: 240-78395-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	36	J	100	25	ug/L	100		8260B	Total/NA
cis-1,2-Dichloroethene	3100		100	30	ug/L	100		8260B	Total/NA
Trichloroethene	90	J	100	33	ug/L	100		8260B	Total/NA
Vinyl chloride	1600		100	45	ug/L	100		8260B	Total/NA

Client Sample ID: GW-17302-041817-TW-10 — Lab Sample ID: 240-78395-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	380		250	58	ug/L	250		8260B	Total/NA
1,1-Dichloroethane	270		250	63	ug/L	250		8260B	Total/NA
1,1-Dichloroethene	75	J	250	68	ug/L	250		8260B	Total/NA
cis-1,2-Dichloroethene	7400		250	75	ug/L	250		8260B	Total/NA
Trichloroethene	11000		250	83	ug/L	250		8260B	Total/NA

Client Sample ID: GW-17302-041917-TW-11 — Lab Sample ID: 240-78395-14

This Detection Summary does not include radiochemical test results.

Client Sample ID: GW-17302-041917-TW-11 (Continued) — Lab Sample ID: 240-78395-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.94	J	2.5	0.63	ug/L	2.5		8260B	Total/NA
cis-1,2-Dichloroethene	110		2.5	0.75	ug/L	2.5		8260B	Total/NA
trans-1,2-Dichloroethene	1.2	J	2.5	0.73	ug/L	2.5		8260B	Total/NA
Trichloroethene	0.85	J	2.5	0.83	ug/L	2.5		8260B	Total/NA

Client Sample ID: GW-17302-041917-TW-12 — Lab Sample ID: 240-78395-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	400	J	630	160	ug/L	625		8260B	Total/NA
cis-1,2-Dichloroethene	18000		630	190	ug/L	625		8260B	Total/NA
Ethylbenzene	680		630	160	ug/L	625		8260B	Total/NA
Toluene	2000		630	140	ug/L	625		8260B	Total/NA
Vinyl chloride	2000		630	280	ug/L	625		8260B	Total/NA
Xylenes, Total	1800		1300	150	ug/L	625		8260B	Total/NA

Client Sample ID: GW-17302-041917-TW-13 — Lab Sample ID: 240-78395-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.33	J	1.0	0.23	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	3.3		1.0	0.30	ug/L	1		8260B	Total/NA
Ethylbenzene	0.39	J	1.0	0.26	ug/L	1		8260B	Total/NA
Toluene	0.84	J	1.0	0.23	ug/L	1		8260B	Total/NA
Trichloroethene	0.36	J	1.0	0.33	ug/L	1		8260B	Total/NA
Xylenes, Total	1.4	J	2.0	0.24	ug/L	1		8260B	Total/NA

Client Sample ID: GW-17302-041917-TW-14 — Lab Sample ID: 240-78395-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	92		63	16	ug/L	62.5		8260B	Total/NA
cis-1,2-Dichloroethene	2200		63	19	ug/L	62.5		8260B	Total/NA
trans-1,2-Dichloroethene	94		63	18	ug/L	62.5		8260B	Total/NA
Vinyl chloride	110		63	28	ug/L	62.5		8260B	Total/NA

Client Sample ID: GW-17302-041917-TW-15 — Lab Sample ID: 240-78395-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	170		130	31	ug/L	125		8260B	Total/NA
cis-1,2-Dichloroethene	5400		130	38	ug/L	125		8260B	Total/NA
trans-1,2-Dichloroethene	73	J	130	36	ug/L	125		8260B	Total/NA
Trichloroethene	400		130	41	ug/L	125		8260B	Total/NA
Vinyl chloride	260		130	56	ug/L	125		8260B	Total/NA

Client Sample ID: GW-17302-041917-TW-16 — Lab Sample ID: 240-78395-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6000		200	60	ug/L	200		8260B	Total/NA
trans-1,2-Dichloroethene	93	J	200	58	ug/L	200		8260B	Total/NA
Vinyl chloride	440		200	90	ug/L	200		8260B	Total/NA

Client Sample ID: GW-17302-041917-TW-17 — Lab Sample ID: 240-78395-20

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-78395-1

Client Sample ID: GW-17302-041917-TW-17 (Continued) — Lab Sample ID: 240-78395-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2900		100	30	ug/L	100		8260B	Total/NA
trans-1,2-Dichloroethene	80	J	100	29	ug/L	100		8260B	Total/NA
Trichloroethene	35	J	100	33	ug/L	100		8260B	Total/NA
Vinyl chloride	220		100	45	ug/L	100		8260B	Total/NA

Client Sample ID: GW-17302-041917-TW-18 — Lab Sample ID: 240-78395-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	850		25	7.5	ug/L	25		8260B	Total/NA
trans-1,2-Dichloroethene	18	J	25	7.3	ug/L	25		8260B	Total/NA
Vinyl chloride	180		25	11	ug/L	25		8260B	Total/NA

Client Sample ID: EB-17302-041917-TW-01 — Lab Sample ID: 240-78395-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.2		1.0	0.30	ug/L	1		8260B	Total/NA

Client Sample ID: TB-17302-041717-TW-01 — Lab Sample ID: 240-78395-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.52	J B	1.0	0.28	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: GW-17302-041717-TW-01
Date Collected: 04/17/17 16:00
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	130	U	130	29	ug/L			04/25/17 19:17	125
1,1,2,2-Tetrachloroethane	130	U	130	40	ug/L			04/25/17 19:17	125
1,1,2-Trichloroethane	130	U	130	43	ug/L			04/25/17 19:17	125
1,1-Dichloroethane	**160**		130	31	ug/L			04/25/17 19:17	125
1,1-Dichloroethene	130	U	130	34	ug/L			04/25/17 19:17	125
1,2-Dichloroethane	130	U	130	38	ug/L			04/25/17 19:17	125
1,2-Dichloropropane	130	U	130	38	ug/L			04/25/17 19:17	125
2-Hexanone	1300	U	1300	150	ug/L			04/25/17 19:17	125
Acetone	1300	U	1300	220	ug/L			04/25/17 19:17	125
Benzene	130	U	130	35	ug/L			04/25/17 19:17	125
Bromoform	130	U	130	54	ug/L			04/25/17 19:17	125
Bromomethane	130	U	130	53	ug/L			04/25/17 19:17	125
Carbon disulfide	130	U	130	43	ug/L			04/25/17 19:17	125
Carbon tetrachloride	130	U	130	44	ug/L			04/25/17 19:17	125
Chlorobenzene	130	U	130	40	ug/L			04/25/17 19:17	125
Chloroethane	130	U	130	51	ug/L			04/25/17 19:17	125
Chloroform	130	U	130	39	ug/L			04/25/17 19:17	125
Chloromethane	130	U	130	54	ug/L			04/25/17 19:17	125
cis-1,2-Dichloroethene	**3700**		130	38	ug/L			04/25/17 19:17	125
cis-1,3-Dichloropropene	130	U	130	33	ug/L			04/25/17 19:17	125
Dichlorobromomethane	130	U	130	38	ug/L			04/25/17 19:17	125
Ethylbenzene	130	U	130	33	ug/L			04/25/17 19:17	125
2-Butanone (MEK)	1300	U	1300	130	ug/L			04/25/17 19:17	125
4-Methyl-2-pentanone (MIBK)	1300	U	1300	89	ug/L			04/25/17 19:17	125
Methylene Chloride	130	U	130	66	ug/L			04/25/17 19:17	125
Styrene	130	U	130	29	ug/L			04/25/17 19:17	125
Tetrachloroethene	130	U	130	38	ug/L			04/25/17 19:17	125
Toluene	130	U	130	29	ug/L			04/25/17 19:17	125
trans-1,2-Dichloroethene	**150**		130	36	ug/L			04/25/17 19:17	125
trans-1,3-Dichloropropene	130	U	130	39	ug/L			04/25/17 19:17	125
Trichloroethene	**1500**		130	41	ug/L			04/25/17 19:17	125
Vinyl chloride	**130**		130	56	ug/L			04/25/17 19:17	125
Xylenes, Total	250	U	250	30	ug/L			04/25/17 19:17	125
Chlorodibromomethane	130	U	130	31	ug/L			04/25/17 19:17	125

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*61 - 138*		*04/25/17 19:17*	*125*
4-Bromofluorobenzene (Surr)	*99*		*69 - 120*		*04/25/17 19:17*	*125*
Toluene-d8 (Surr)	*98*		*73 - 120*		*04/25/17 19:17*	*125*
Dibromofluoromethane (Surr)	*92*		*69 - 124*		*04/25/17 19:17*	*125*

Client Sample ID: GW-17302-041717-TW-02
Date Collected: 04/17/17 17:30
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	63	U	63	14	ug/L			04/25/17 19:42	62.5
1,1,2,2-Tetrachloroethane	63	U	63	20	ug/L			04/25/17 19:42	62.5
1,1,2-Trichloroethane	63	U	63	21	ug/L			04/25/17 19:42	62.5
1,1-Dichloroethane	63	U	63	16	ug/L			04/25/17 19:42	62.5
1,1-Dichloroethene	63	U	63	17	ug/L			04/25/17 19:42	62.5

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

Client Sample ID: GW-17302-041717-TW-02
Date Collected: 04/17/17 17:30
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	63	U	63	19	ug/L			04/25/17 19:42	62.5
1,2-Dichloropropane	63	U	63	19	ug/L			04/25/17 19:42	62.5
2-Hexanone	630	U	630	77	ug/L			04/25/17 19:42	62.5
Acetone	630	U	630	110	ug/L			04/25/17 19:42	62.5
Benzene	63	U	63	18	ug/L			04/25/17 19:42	62.5
Bromoform	63	U	63	27	ug/L			04/25/17 19:42	62.5
Bromomethane	63	U	63	26	ug/L			04/25/17 19:42	62.5
Carbon disulfide	63	U	63	21	ug/L			04/25/17 19:42	62.5
Carbon tetrachloride	63	U	63	22	ug/L			04/25/17 19:42	62.5
Chlorobenzene	63	U	63	20	ug/L			04/25/17 19:42	62.5
Chloroethane	63	U	63	26	ug/L			04/25/17 19:42	62.5
Chloroform	63	U	63	19	ug/L			04/25/17 19:42	62.5
Chloromethane	63	U	63	27	ug/L			04/25/17 19:42	62.5
cis-1,2-Dichloroethene	**2300**		63	19	ug/L			04/25/17 19:42	62.5
cis-1,3-Dichloropropene	63	U	63	16	ug/L			04/25/17 19:42	62.5
Dichlorobromomethane	63	U	63	19	ug/L			04/25/17 19:42	62.5
Ethylbenzene	63	U	63	16	ug/L			04/25/17 19:42	62.5
2-Butanone (MEK)	630	U	630	64	ug/L			04/25/17 19:42	62.5
4-Methyl-2-pentanone (MIBK)	630	U	630	44	ug/L			04/25/17 19:42	62.5
Methylene Chloride	63	U	63	33	ug/L			04/25/17 19:42	62.5
Styrene	63	U	63	14	ug/L			04/25/17 19:42	62.5
Tetrachloroethene	63	U	63	19	ug/L			04/25/17 19:42	62.5
Toluene	63	U	63	14	ug/L			04/25/17 19:42	62.5
trans-1,2-Dichloroethene	**95**		63	18	ug/L			04/25/17 19:42	62.5
trans-1,3-Dichloropropene	63	U	63	19	ug/L			04/25/17 19:42	62.5
Trichloroethene	63	U	63	21	ug/L			04/25/17 19:42	62.5
Vinyl chloride	**190**		63	28	ug/L			04/25/17 19:42	62.5
Xylenes, Total	130	U	130	15	ug/L			04/25/17 19:42	62.5
Chlorodibromomethane	63	U	63	16	ug/L			04/25/17 19:42	62.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*61 - 138*		*04/25/17 19:42*	*62.5*
4-Bromofluorobenzene (Surr)	*97*		*69 - 120*		*04/25/17 19:42*	*62.5*
Toluene-d8 (Surr)	*96*		*73 - 120*		*04/25/17 19:42*	*62.5*
Dibromofluoromethane (Surr)	*92*		*69 - 124*		*04/25/17 19:42*	*62.5*

Client Sample ID: GW-17302-041717-TW-03
Date Collected: 04/17/17 17:35
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	130	U	130	29	ug/L			04/25/17 20:07	125
1,1,2,2-Tetrachloroethane	130	U	130	40	ug/L			04/25/17 20:07	125
1,1,2-Trichloroethane	130	U	130	43	ug/L			04/25/17 20:07	125
1,1-Dichloroethane	130	U	130	31	ug/L			04/25/17 20:07	125
1,1-Dichloroethene	130	U	130	34	ug/L			04/25/17 20:07	125
1,2-Dichloroethane	130	U	130	38	ug/L			04/25/17 20:07	125
1,2-Dichloropropane	130	U	130	38	ug/L			04/25/17 20:07	125
2-Hexanone	1300	U	1300	150	ug/L			04/25/17 20:07	125
Acetone	1300	U	1300	220	ug/L			04/25/17 20:07	125
Benzene	130	U	130	35	ug/L			04/25/17 20:07	125

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

Client Sample ID: GW-17302-041717-TW-03
Date Collected: 04/17/17 17:35
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	130	U	130	54	ug/L			04/25/17 20:07	125
Bromomethane	130	U	130	53	ug/L			04/25/17 20:07	125
Carbon disulfide	130	U	130	43	ug/L			04/25/17 20:07	125
Carbon tetrachloride	130	U	130	44	ug/L			04/25/17 20:07	125
Chlorobenzene	130	U	130	40	ug/L			04/25/17 20:07	125
Chloroethane	130	U	130	51	ug/L			04/25/17 20:07	125
Chloroform	130	U	130	39	ug/L			04/25/17 20:07	125
Chloromethane	130	U	130	54	ug/L			04/25/17 20:07	125
cis-1,2-Dichloroethene	**2300**		130	38	ug/L			04/25/17 20:07	125
cis-1,3-Dichloropropene	130	U	130	33	ug/L			04/25/17 20:07	125
Dichlorobromomethane	130	U	130	38	ug/L			04/25/17 20:07	125
Ethylbenzene	130	U	130	33	ug/L			04/25/17 20:07	125
2-Butanone (MEK)	1300	U	1300	130	ug/L			04/25/17 20:07	125
4-Methyl-2-pentanone (MIBK)	1300	U	1300	89	ug/L			04/25/17 20:07	125
Methylene Chloride	130	U	130	66	ug/L			04/25/17 20:07	125
Styrene	130	U	130	29	ug/L			04/25/17 20:07	125
Tetrachloroethene	130	U	130	38	ug/L			04/25/17 20:07	125
Toluene	130	U	130	29	ug/L			04/25/17 20:07	125
trans-1,2-Dichloroethene	**88**	**J**	130	36	ug/L			04/25/17 20:07	125
trans-1,3-Dichloropropene	130	U	130	39	ug/L			04/25/17 20:07	125
Trichloroethene	130	U	130	41	ug/L			04/25/17 20:07	125
Vinyl chloride	**190**		130	56	ug/L			04/25/17 20:07	125
Xylenes, Total	250	U	250	30	ug/L			04/25/17 20:07	125
Chlorodibromomethane	130	U	130	31	ug/L			04/25/17 20:07	125

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*61 - 138*		*04/25/17 20:07*	*125*
4-Bromofluorobenzene (Surr)	*95*		*69 - 120*		*04/25/17 20:07*	*125*
Toluene-d8 (Surr)	*93*		*73 - 120*		*04/25/17 20:07*	*125*
Dibromofluoromethane (Surr)	*91*		*69 - 124*		*04/25/17 20:07*	*125*

Client Sample ID: GW-17302-041817-TW-04
Date Collected: 04/18/17 10:50
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	330	U	330	77	ug/L			04/25/17 20:31	333.333
1,1,2,2-Tetrachloroethane	330	U	330	110	ug/L			04/25/17 20:31	333.333
1,1,2-Trichloroethane	330	U	330	110	ug/L			04/25/17 20:31	333.333
1,1-Dichloroethane	**340**		330	83	ug/L			04/25/17 20:31	333.333
1,1-Dichloroethene	330	U	330	90	ug/L			04/25/17 20:31	333.333
1,2-Dichloroethane	330	U	330	100	ug/L			04/25/17 20:31	333.333
1,2-Dichloropropane	330	U	330	100	ug/L			04/25/17 20:31	333.333
2-Hexanone	3300	U	3300	410	ug/L			04/25/17 20:31	333.333
Acetone	3300	U	3300	590	ug/L			04/25/17 20:31	333.333
Benzene	330	U	330	93	ug/L			04/25/17 20:31	333.333
Bromoform	330	U	330	140	ug/L			04/25/17 20:31	333.333
Bromomethane	330	U	330	140	ug/L			04/25/17 20:31	333.333
Carbon disulfide	330	U	330	110	ug/L			04/25/17 20:31	333.333
Carbon tetrachloride	330	U	330	120	ug/L			04/25/17 20:31	333.333
Chlorobenzene	330	U	330	110	ug/L			04/25/17 20:31	333.333

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

Client Sample ID: GW-17302-041817-TW-04
Date Collected: 04/18/17 10:50
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	330	U	330	140	ug/L			04/25/17 20:31	333.333
Chloroform	330	U	330	100	ug/L			04/25/17 20:31	333.333
Chloromethane	330	U	330	140	ug/L			04/25/17 20:31	333.333
cis-1,2-Dichloroethene	**8600**		330	100	ug/L			04/25/17 20:31	333.333
cis-1,3-Dichloropropene	330	U	330	87	ug/L			04/25/17 20:31	333.333
Dichlorobromomethane	330	U	330	100	ug/L			04/25/17 20:31	333.333
Ethylbenzene	330	U	330	87	ug/L			04/25/17 20:31	333.333
2-Butanone (MEK)	3300	U	3300	340	ug/L			04/25/17 20:31	333.333
4-Methyl-2-pentanone (MIBK)	3300	U	3300	240	ug/L			04/25/17 20:31	333.333
Methylene Chloride	330	U	330	180	ug/L			04/25/17 20:31	333.333
Styrene	330	U	330	77	ug/L			04/25/17 20:31	333.333
Tetrachloroethene	330	U	330	100	ug/L			04/25/17 20:31	333.333
Toluene	330	U	330	77	ug/L			04/25/17 20:31	333.333
trans-1,2-Dichloroethene	**260**	**J**	330	97	ug/L			04/25/17 20:31	333.333
trans-1,3-Dichloropropene	330	U	330	100	ug/L			04/25/17 20:31	333.333
Trichloroethene	**1100**		330	110	ug/L			04/25/17 20:31	333.333
Vinyl chloride	**840**		330	150	ug/L			04/25/17 20:31	333.333
Xylenes, Total	670	U	670	80	ug/L			04/25/17 20:31	333.333
Chlorodibromomethane	330	U	330	83	ug/L			04/25/17 20:31	333.333

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*61 - 138*		*04/25/17 20:31*	*333.333*
4-Bromofluorobenzene (Surr)	*96*		*69 - 120*		*04/25/17 20:31*	*333.333*
Toluene-d8 (Surr)	*95*		*73 - 120*		*04/25/17 20:31*	*333.333*
Dibromofluoromethane (Surr)	*92*		*69 - 124*		*04/25/17 20:31*	*333.333*

Client Sample ID: SW-17302-041817-TW-01
Date Collected: 04/18/17 12:10
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	6.7	U	6.7	1.5	ug/L			04/25/17 20:55	6.67
1,1,2,2-Tetrachloroethane	6.7	U	6.7	2.1	ug/L			04/25/17 20:55	6.67
1,1,2-Trichloroethane	6.7	U	6.7	2.3	ug/L			04/25/17 20:55	6.67
1,1-Dichloroethane	**9.8**		6.7	1.7	ug/L			04/25/17 20:55	6.67
1,1-Dichloroethene	6.7	U	6.7	1.8	ug/L			04/25/17 20:55	6.67
1,2-Dichloroethane	6.7	U	6.7	2.0	ug/L			04/25/17 20:55	6.67
1,2-Dichloropropane	6.7	U	6.7	2.0	ug/L			04/25/17 20:55	6.67
2-Hexanone	67	U	67	8.2	ug/L			04/25/17 20:55	6.67
Acetone	67	U	67	12	ug/L			04/25/17 20:55	6.67
Benzene	6.7	U	6.7	1.9	ug/L			04/25/17 20:55	6.67
Bromoform	6.7	U	6.7	2.9	ug/L			04/25/17 20:55	6.67
Bromomethane	6.7	U	6.7	2.8	ug/L			04/25/17 20:55	6.67
Carbon disulfide	6.7	U	6.7	2.3	ug/L			04/25/17 20:55	6.67
Carbon tetrachloride	6.7	U	6.7	2.3	ug/L			04/25/17 20:55	6.67
Chlorobenzene	6.7	U	6.7	2.1	ug/L			04/25/17 20:55	6.67
Chloroethane	6.7	U	6.7	2.7	ug/L			04/25/17 20:55	6.67
Chloroform	6.7	U	6.7	2.1	ug/L			04/25/17 20:55	6.67
Chloromethane	6.7	U	6.7	2.9	ug/L			04/25/17 20:55	6.67
cis-1,2-Dichloroethene	**210**		6.7	2.0	ug/L			04/25/17 20:55	6.67
cis-1,3-Dichloropropene	6.7	U	6.7	1.7	ug/L			04/25/17 20:55	6.67

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

Client Sample ID: SW-17302-041817-TW-01
Date Collected: 04/18/17 12:10
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	6.7	U	6.7	2.0	ug/L			04/25/17 20:55	6.67
Ethylbenzene	6.7	U	6.7	1.7	ug/L			04/25/17 20:55	6.67
2-Butanone (MEK)	67	U	67	6.8	ug/L			04/25/17 20:55	6.67
4-Methyl-2-pentanone (MIBK)	67	U	67	4.7	ug/L			04/25/17 20:55	6.67
Methylene Chloride	6.7	U	6.7	3.5	ug/L			04/25/17 20:55	6.67
Styrene	6.7	U	6.7	1.5	ug/L			04/25/17 20:55	6.67
Tetrachloroethene	6.7	U	6.7	2.0	ug/L			04/25/17 20:55	6.67
Toluene	6.7	U	6.7	1.5	ug/L			04/25/17 20:55	6.67
trans-1,2-Dichloroethene	**9.2**		6.7	1.9	ug/L			04/25/17 20:55	6.67
trans-1,3-Dichloropropene	6.7	U	6.7	2.1	ug/L			04/25/17 20:55	6.67
Trichloroethene	6.7	U	6.7	2.2	ug/L			04/25/17 20:55	6.67
Vinyl chloride	**11**		6.7	3.0	ug/L			04/25/17 20:55	6.67
Xylenes, Total	13	U	13	1.6	ug/L			04/25/17 20:55	6.67
Chlorodibromomethane	6.7	U	6.7	1.7	ug/L			04/25/17 20:55	6.67

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*61 - 138*		*04/25/17 20:55*	*6.67*
4-Bromofluorobenzene (Surr)	*100*		*69 - 120*		*04/25/17 20:55*	*6.67*
Toluene-d8 (Surr)	*97*		*73 - 120*		*04/25/17 20:55*	*6.67*
Dibromofluoromethane (Surr)	*93*		*69 - 124*		*04/25/17 20:55*	*6.67*

Client Sample ID: SW-17302-041817-TW-02
Date Collected: 04/18/17 12:15
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	6.7	U	6.7	1.5	ug/L			04/25/17 21:19	6.67
1,1,2,2-Tetrachloroethane	6.7	U	6.7	2.1	ug/L			04/25/17 21:19	6.67
1,1,2-Trichloroethane	6.7	U	6.7	2.3	ug/L			04/25/17 21:19	6.67
1,1-Dichloroethane	**9.7**		6.7	1.7	ug/L			04/25/17 21:19	6.67
1,1-Dichloroethene	6.7	U	6.7	1.8	ug/L			04/25/17 21:19	6.67
1,2-Dichloroethane	6.7	U	6.7	2.0	ug/L			04/25/17 21:19	6.67
1,2-Dichloropropane	6.7	U	6.7	2.0	ug/L			04/25/17 21:19	6.67
2-Hexanone	67	U	67	8.2	ug/L			04/25/17 21:19	6.67
Acetone	67	U	67	12	ug/L			04/25/17 21:19	6.67
Benzene	6.7	U	6.7	1.9	ug/L			04/25/17 21:19	6.67
Bromoform	6.7	U	6.7	2.9	ug/L			04/25/17 21:19	6.67
Bromomethane	6.7	U	6.7	2.8	ug/L			04/25/17 21:19	6.67
Carbon disulfide	6.7	U	6.7	2.3	ug/L			04/25/17 21:19	6.67
Carbon tetrachloride	6.7	U	6.7	2.3	ug/L			04/25/17 21:19	6.67
Chlorobenzene	6.7	U	6.7	2.1	ug/L			04/25/17 21:19	6.67
Chloroethane	6.7	U	6.7	2.7	ug/L			04/25/17 21:19	6.67
Chloroform	6.7	U	6.7	2.1	ug/L			04/25/17 21:19	6.67
Chloromethane	6.7	U	6.7	2.9	ug/L			04/25/17 21:19	6.67
cis-1,2-Dichloroethene	**200**		6.7	2.0	ug/L			04/25/17 21:19	6.67
cis-1,3-Dichloropropene	6.7	U	6.7	1.7	ug/L			04/25/17 21:19	6.67
Dichlorobromomethane	6.7	U	6.7	2.0	ug/L			04/25/17 21:19	6.67
Ethylbenzene	6.7	U	6.7	1.7	ug/L			04/25/17 21:19	6.67
2-Butanone (MEK)	67	U	67	6.8	ug/L			04/25/17 21:19	6.67
4-Methyl-2-pentanone (MIBK)	67	U	67	4.7	ug/L			04/25/17 21:19	6.67
Methylene Chloride	6.7	U	6.7	3.5	ug/L			04/25/17 21:19	6.67

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

Client Sample ID: SW-17302-041817-TW-02
Date Collected: 04/18/17 12:15
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	6.7	U	6.7	1.5	ug/L			04/25/17 21:19	6.67
Tetrachloroethene	6.7	U	6.7	2.0	ug/L			04/25/17 21:19	6.67
Toluene	6.7	U	6.7	1.5	ug/L			04/25/17 21:19	6.67
trans-1,2-Dichloroethene	**8.4**		6.7	1.9	ug/L			04/25/17 21:19	6.67
trans-1,3-Dichloropropene	6.7	U	6.7	2.1	ug/L			04/25/17 21:19	6.67
Trichloroethene	6.7	U	6.7	2.2	ug/L			04/25/17 21:19	6.67
Vinyl chloride	**10**		6.7	3.0	ug/L			04/25/17 21:19	6.67
Xylenes, Total	13	U	13	1.6	ug/L			04/25/17 21:19	6.67
Chlorodibromomethane	6.7	U	6.7	1.7	ug/L			04/25/17 21:19	6.67

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*61 - 138*		*04/25/17 21:19*	*6.67*
4-Bromofluorobenzene (Surr)	*96*		*69 - 120*		*04/25/17 21:19*	*6.67*
Toluene-d8 (Surr)	*95*		*73 - 120*		*04/25/17 21:19*	*6.67*
Dibromofluoromethane (Surr)	*89*		*69 - 124*		*04/25/17 21:19*	*6.67*

Client Sample ID: GW-17302-041817-TW-05
Date Collected: 04/18/17 12:20
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	330	U	330	77	ug/L			04/25/17 21:42	333.333
1,1,2,2-Tetrachloroethane	330	U	330	110	ug/L			04/25/17 21:42	333.333
1,1,2-Trichloroethane	330	U	330	110	ug/L			04/25/17 21:42	333.333
1,1-Dichloroethane	**320**	**J**	330	83	ug/L			04/25/17 21:42	333.333
1,1-Dichloroethene	330	U	330	90	ug/L			04/25/17 21:42	333.333
1,2-Dichloroethane	330	U	330	100	ug/L			04/25/17 21:42	333.333
1,2-Dichloropropane	330	U	330	100	ug/L			04/25/17 21:42	333.333
2-Hexanone	3300	U	3300	410	ug/L			04/25/17 21:42	333.333
Acetone	3300	U	3300	590	ug/L			04/25/17 21:42	333.333
Benzene	330	U	330	93	ug/L			04/25/17 21:42	333.333
Bromoform	330	U	330	140	ug/L			04/25/17 21:42	333.333
Bromomethane	330	U	330	140	ug/L			04/25/17 21:42	333.333
Carbon disulfide	330	U	330	110	ug/L			04/25/17 21:42	333.333
Carbon tetrachloride	330	U	330	120	ug/L			04/25/17 21:42	333.333
Chlorobenzene	330	U	330	110	ug/L			04/25/17 21:42	333.333
Chloroethane	330	U	330	140	ug/L			04/25/17 21:42	333.333
Chloroform	330	U	330	100	ug/L			04/25/17 21:42	333.333
Chloromethane	330	U	330	140	ug/L			04/25/17 21:42	333.333
cis-1,2-Dichloroethene	**8400**		330	100	ug/L			04/25/17 21:42	333.333
cis-1,3-Dichloropropene	330	U	330	87	ug/L			04/25/17 21:42	333.333
Dichlorobromomethane	330	U	330	100	ug/L			04/25/17 21:42	333.333
Ethylbenzene	330	U	330	87	ug/L			04/25/17 21:42	333.333
2-Butanone (MEK)	3300	U	3300	340	ug/L			04/25/17 21:42	333.333
4-Methyl-2-pentanone (MIBK)	3300	U	3300	240	ug/L			04/25/17 21:42	333.333
Methylene Chloride	330	U	330	180	ug/L			04/25/17 21:42	333.333
Styrene	330	U	330	77	ug/L			04/25/17 21:42	333.333
Tetrachloroethene	330	U	330	100	ug/L			04/25/17 21:42	333.333
Toluene	330	U	330	77	ug/L			04/25/17 21:42	333.333
trans-1,2-Dichloroethene	**280**	**J**	330	97	ug/L			04/25/17 21:42	333.333
trans-1,3-Dichloropropene	330	U	330	100	ug/L			04/25/17 21:42	333.333

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

Client Sample ID: GW-17302-041817-TW-05
Date Collected: 04/18/17 12:20
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	330	U	330	110	ug/L			04/25/17 21:42	333.333
Vinyl chloride	**420**		330	150	ug/L			04/25/17 21:42	333.333
Xylenes, Total	670	U	670	80	ug/L			04/25/17 21:42	333.333
Chlorodibromomethane	330	U	330	83	ug/L			04/25/17 21:42	333.333

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*61 - 138*		*04/25/17 21:42*	*333.333*
4-Bromofluorobenzene (Surr)	*95*		*69 - 120*		*04/25/17 21:42*	*333.333*
Toluene-d8 (Surr)	*95*		*73 - 120*		*04/25/17 21:42*	*333.333*
Dibromofluoromethane (Surr)	*90*		*69 - 124*		*04/25/17 21:42*	*333.333*

Client Sample ID: SW-17302-041817-TW-03
Date Collected: 04/18/17 12:40
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.7	U	1.7	0.38	ug/L			04/25/17 22:07	1.67
1,1,2,2-Tetrachloroethane	1.7	U	1.7	0.53	ug/L			04/25/17 22:07	1.67
1,1,2-Trichloroethane	1.7	U	1.7	0.57	ug/L			04/25/17 22:07	1.67
1,1-Dichloroethane	**2.8**		1.7	0.42	ug/L			04/25/17 22:07	1.67
1,1-Dichloroethene	1.7	U	1.7	0.45	ug/L			04/25/17 22:07	1.67
1,2-Dichloroethane	1.7	U	1.7	0.50	ug/L			04/25/17 22:07	1.67
1,2-Dichloropropane	1.7	U	1.7	0.50	ug/L			04/25/17 22:07	1.67
2-Hexanone	17	U	17	2.1	ug/L			04/25/17 22:07	1.67
Acetone	17	U	17	2.9	ug/L			04/25/17 22:07	1.67
Benzene	1.7	U	1.7	0.47	ug/L			04/25/17 22:07	1.67
Bromoform	1.7	U	1.7	0.72	ug/L			04/25/17 22:07	1.67
Bromomethane	1.7	U	1.7	0.70	ug/L			04/25/17 22:07	1.67
Carbon disulfide	1.7	U	1.7	0.57	ug/L			04/25/17 22:07	1.67
Carbon tetrachloride	1.7	U	1.7	0.58	ug/L			04/25/17 22:07	1.67
Chlorobenzene	1.7	U	1.7	0.53	ug/L			04/25/17 22:07	1.67
Chloroethane	1.7	U	1.7	0.68	ug/L			04/25/17 22:07	1.67
Chloroform	1.7	U	1.7	0.52	ug/L			04/25/17 22:07	1.67
Chloromethane	1.7	U	1.7	0.72	ug/L			04/25/17 22:07	1.67
cis-1,2-Dichloroethene	**59**		1.7	0.50	ug/L			04/25/17 22:07	1.67
cis-1,3-Dichloropropene	1.7	U	1.7	0.43	ug/L			04/25/17 22:07	1.67
Dichlorobromomethane	1.7	U	1.7	0.50	ug/L			04/25/17 22:07	1.67
Ethylbenzene	1.7	U	1.7	0.43	ug/L			04/25/17 22:07	1.67
2-Butanone (MEK)	17	U	17	1.7	ug/L			04/25/17 22:07	1.67
4-Methyl-2-pentanone (MIBK)	17	U	17	1.2	ug/L			04/25/17 22:07	1.67
Methylene Chloride	1.7	U	1.7	0.89	ug/L			04/25/17 22:07	1.67
Styrene	1.7	U	1.7	0.38	ug/L			04/25/17 22:07	1.67
Tetrachloroethene	1.7	U	1.7	0.50	ug/L			04/25/17 22:07	1.67
Toluene	1.7	U	1.7	0.38	ug/L			04/25/17 22:07	1.67
trans-1,2-Dichloroethene	**2.3**		1.7	0.48	ug/L			04/25/17 22:07	1.67
trans-1,3-Dichloropropene	1.7	U	1.7	0.52	ug/L			04/25/17 22:07	1.67
Trichloroethene	1.7	U	1.7	0.55	ug/L			04/25/17 22:07	1.67
Vinyl chloride	**6.3**		1.7	0.75	ug/L			04/25/17 22:07	1.67
Xylenes, Total	3.3	U	3.3	0.40	ug/L			04/25/17 22:07	1.67
Chlorodibromomethane	1.7	U	1.7	0.42	ug/L			04/25/17 22:07	1.67

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*95*		*61 - 138*		*04/25/17 22:07*	*1.67*
4-Bromofluorobenzene (Surr)	*96*		*69 - 120*		*04/25/17 22:07*	*1.67*
Toluene-d8 (Surr)	*94*		*73 - 120*		*04/25/17 22:07*	*1.67*
Dibromofluoromethane (Surr)	*94*		*69 - 124*		*04/25/17 22:07*	*1.67*

Client Sample ID: GW-17302-041817-TW-06 — **Lab Sample ID: 240-78395-9**
Date Collected: 04/18/17 14:40 — **Matrix: Water**
Date Received: 04/20/17 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	3.3	U	3.3	0.77	ug/L			04/25/17 22:30	3.333
1,1,2,2-Tetrachloroethane	3.3	U	3.3	1.1	ug/L			04/25/17 22:30	3.333
1,1,2-Trichloroethane	3.3	U	3.3	1.1	ug/L			04/25/17 22:30	3.333
1,1-Dichloroethane	3.3	U	3.3	0.83	ug/L			04/25/17 22:30	3.333
1,1-Dichloroethene	3.3	U	3.3	0.90	ug/L			04/25/17 22:30	3.333
1,2-Dichloroethane	3.3	U	3.3	1.0	ug/L			04/25/17 22:30	3.333
1,2-Dichloropropane	3.3	U	3.3	1.0	ug/L			04/25/17 22:30	3.333
2-Hexanone	33	U	33	4.1	ug/L			04/25/17 22:30	3.333
Acetone	33	U	33	5.9	ug/L			04/25/17 22:30	3.333
Benzene	3.3	U	3.3	0.93	ug/L			04/25/17 22:30	3.333
Bromoform	3.3	U	3.3	1.4	ug/L			04/25/17 22:30	3.333
Bromomethane	3.3	U	3.3	1.4	ug/L			04/25/17 22:30	3.333
Carbon disulfide	3.3	U	3.3	1.1	ug/L			04/25/17 22:30	3.333
Carbon tetrachloride	3.3	U	3.3	1.2	ug/L			04/25/17 22:30	3.333
Chlorobenzene	3.3	U	3.3	1.1	ug/L			04/25/17 22:30	3.333
Chloroethane	3.3	U	3.3	1.4	ug/L			04/25/17 22:30	3.333
Chloroform	3.3	U	3.3	1.0	ug/L			04/25/17 22:30	3.333
Chloromethane	3.3	U	3.3	1.4	ug/L			04/25/17 22:30	3.333
cis-1,2-Dichloroethene	**15**		3.3	1.0	ug/L			04/25/17 22:30	3.333
cis-1,3-Dichloropropene	3.3	U	3.3	0.87	ug/L			04/25/17 22:30	3.333
Dichlorobromomethane	3.3	U	3.3	1.0	ug/L			04/25/17 22:30	3.333
Ethylbenzene	3.3	U	3.3	0.87	ug/L			04/25/17 22:30	3.333
2-Butanone (MEK)	33	U	33	3.4	ug/L			04/25/17 22:30	3.333
4-Methyl-2-pentanone (MIBK)	33	U	33	2.4	ug/L			04/25/17 22:30	3.333
Methylene Chloride	3.3	U	3.3	1.8	ug/L			04/25/17 22:30	3.333
Styrene	3.3	U	3.3	0.77	ug/L			04/25/17 22:30	3.333
Tetrachloroethene	3.3	U	3.3	1.0	ug/L			04/25/17 22:30	3.333
Toluene	3.3	U	3.3	0.77	ug/L			04/25/17 22:30	3.333
trans-1,2-Dichloroethene	3.3	U	3.3	0.97	ug/L			04/25/17 22:30	3.333
trans-1,3-Dichloropropene	3.3	U	3.3	1.0	ug/L			04/25/17 22:30	3.333
Trichloroethene	**140**		3.3	1.1	ug/L			04/25/17 22:30	3.333
Vinyl chloride	**4.1**		3.3	1.5	ug/L			04/25/17 22:30	3.333
Xylenes, Total	6.7	U	6.7	0.80	ug/L			04/25/17 22:30	3.333
Chlorodibromomethane	3.3	U	3.3	0.83	ug/L			04/25/17 22:30	3.333

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*94*		*61 - 138*		*04/25/17 22:30*	*3.333*
4-Bromofluorobenzene (Surr)	*98*		*69 - 120*		*04/25/17 22:30*	*3.333*
Toluene-d8 (Surr)	*97*		*73 - 120*		*04/25/17 22:30*	*3.333*
Dibromofluoromethane (Surr)	*90*		*69 - 124*		*04/25/17 22:30*	*3.333*

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

Client Sample ID: GW-17302-041817-TW-07
Date Collected: 04/18/17 15:55
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	130	U	130	29	ug/L			04/27/17 01:47	125
1,1,2,2-Tetrachloroethane	130	U	130	40	ug/L			04/27/17 01:47	125
1,1,2-Trichloroethane	130	U	130	43	ug/L			04/27/17 01:47	125
1,1-Dichloroethane	**38**	**J**	130	31	ug/L			04/27/17 01:47	125
1,1-Dichloroethene	130	U	130	34	ug/L			04/27/17 01:47	125
1,2-Dichloroethane	130	U	130	38	ug/L			04/27/17 01:47	125
1,2-Dichloropropane	130	U	130	38	ug/L			04/27/17 01:47	125
2-Hexanone	1300	U	1300	150	ug/L			04/27/17 01:47	125
Acetone	1300	U	1300	220	ug/L			04/27/17 01:47	125
Benzene	130	U	130	35	ug/L			04/27/17 01:47	125
Bromoform	130	U	130	54	ug/L			04/27/17 01:47	125
Bromomethane	130	U	130	53	ug/L			04/27/17 01:47	125
Carbon disulfide	130	U	130	43	ug/L			04/27/17 01:47	125
Carbon tetrachloride	130	U	130	44	ug/L			04/27/17 01:47	125
Chlorobenzene	130	U	130	40	ug/L			04/27/17 01:47	125
Chloroethane	130	U	130	51	ug/L			04/27/17 01:47	125
Chloroform	130	U	130	39	ug/L			04/27/17 01:47	125
Chloromethane	130	U	130	54	ug/L			04/27/17 01:47	125
cis-1,2-Dichloroethene	**4100**		130	38	ug/L			04/27/17 01:47	125
cis-1,3-Dichloropropene	130	U	130	33	ug/L			04/27/17 01:47	125
Dichlorobromomethane	130	U	130	38	ug/L			04/27/17 01:47	125
Ethylbenzene	130	U	130	33	ug/L			04/27/17 01:47	125
2-Butanone (MEK)	1300	U	1300	130	ug/L			04/27/17 01:47	125
4-Methyl-2-pentanone (MIBK)	1300	U	1300	89	ug/L			04/27/17 01:47	125
Methylene Chloride	130	U	130	66	ug/L			04/27/17 01:47	125
Styrene	130	U	130	29	ug/L			04/27/17 01:47	125
Tetrachloroethene	130	U	130	38	ug/L			04/27/17 01:47	125
Toluene	130	U	130	29	ug/L			04/27/17 01:47	125
trans-1,2-Dichloroethene	130	U	130	36	ug/L			04/27/17 01:47	125
trans-1,3-Dichloropropene	130	U	130	39	ug/L			04/27/17 01:47	125
Trichloroethene	130	U	130	41	ug/L			04/27/17 01:47	125
Vinyl chloride	**130**		130	56	ug/L			04/27/17 01:47	125
Xylenes, Total	250	U	250	30	ug/L			04/27/17 01:47	125
Chlorodibromomethane	130	U	130	31	ug/L			04/27/17 01:47	125

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*61 - 138*		*04/27/17 01:47*	*125*
4-Bromofluorobenzene (Surr)	*95*		*69 - 120*		*04/27/17 01:47*	*125*
Toluene-d8 (Surr)	*101*		*73 - 120*		*04/27/17 01:47*	*125*
Dibromofluoromethane (Surr)	*85*		*69 - 124*		*04/27/17 01:47*	*125*

Client Sample ID: GW-17302-041817-TW-08
Date Collected: 04/18/17 16:00
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	130	U	130	29	ug/L			04/27/17 02:10	125
1,1,2,2-Tetrachloroethane	130	U	130	40	ug/L			04/27/17 02:10	125
1,1,2-Trichloroethane	130	U	130	43	ug/L			04/27/17 02:10	125
1,1-Dichloroethane	**33**	**J**	130	31	ug/L			04/27/17 02:10	125
1,1-Dichloroethene	130	U	130	34	ug/L			04/27/17 02:10	125

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

Client Sample ID: GW-17302-041817-TW-08
Date Collected: 04/18/17 16:00
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	130	U	130	38	ug/L			04/27/17 02:10	125
1,2-Dichloropropane	130	U	130	38	ug/L			04/27/17 02:10	125
2-Hexanone	1300	U	1300	150	ug/L			04/27/17 02:10	125
Acetone	1300	U	1300	220	ug/L			04/27/17 02:10	125
Benzene	130	U	130	35	ug/L			04/27/17 02:10	125
Bromoform	130	U	130	54	ug/L			04/27/17 02:10	125
Bromomethane	130	U	130	53	ug/L			04/27/17 02:10	125
Carbon disulfide	130	U	130	43	ug/L			04/27/17 02:10	125
Carbon tetrachloride	130	U	130	44	ug/L			04/27/17 02:10	125
Chlorobenzene	130	U	130	40	ug/L			04/27/17 02:10	125
Chloroethane	130	U	130	51	ug/L			04/27/17 02:10	125
Chloroform	130	U	130	39	ug/L			04/27/17 02:10	125
Chloromethane	130	U	130	54	ug/L			04/27/17 02:10	125
cis-1,2-Dichloroethene	**3900**		130	38	ug/L			04/27/17 02:10	125
cis-1,3-Dichloropropene	130	U	130	33	ug/L			04/27/17 02:10	125
Dichlorobromomethane	130	U	130	38	ug/L			04/27/17 02:10	125
Ethylbenzene	130	U	130	33	ug/L			04/27/17 02:10	125
2-Butanone (MEK)	1300	U	1300	130	ug/L			04/27/17 02:10	125
4-Methyl-2-pentanone (MIBK)	1300	U	1300	89	ug/L			04/27/17 02:10	125
Methylene Chloride	130	U	130	66	ug/L			04/27/17 02:10	125
Styrene	130	U	130	29	ug/L			04/27/17 02:10	125
Tetrachloroethene	130	U	130	38	ug/L			04/27/17 02:10	125
Toluene	130	U	130	29	ug/L			04/27/17 02:10	125
trans-1,2-Dichloroethene	130	U	130	36	ug/L			04/27/17 02:10	125
trans-1,3-Dichloropropene	130	U	130	39	ug/L			04/27/17 02:10	125
Trichloroethene	130	U	130	41	ug/L			04/27/17 02:10	125
Vinyl chloride	**130**		130	56	ug/L			04/27/17 02:10	125
Xylenes, Total	250	U	250	30	ug/L			04/27/17 02:10	125
Chlorodibromomethane	130	U	130	31	ug/L			04/27/17 02:10	125

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*61 - 138*		*04/27/17 02:10*	*125*
4-Bromofluorobenzene (Surr)	*99*		*69 - 120*		*04/27/17 02:10*	*125*
Toluene-d8 (Surr)	*98*		*73 - 120*		*04/27/17 02:10*	*125*
Dibromofluoromethane (Surr)	*85*		*69 - 124*		*04/27/17 02:10*	*125*

Client Sample ID: GW-17302-041817-TW-09
Date Collected: 04/18/17 17:10
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	100	U	100	23	ug/L			04/27/17 02:33	100
1,1,2,2-Tetrachloroethane	100	U	100	32	ug/L			04/27/17 02:33	100
1,1,2-Trichloroethane	100	U	100	34	ug/L			04/27/17 02:33	100
1,1-Dichloroethane	**36**	**J**	100	25	ug/L			04/27/17 02:33	100
1,1-Dichloroethene	100	U	100	27	ug/L			04/27/17 02:33	100
1,2-Dichloroethane	100	U	100	30	ug/L			04/27/17 02:33	100
1,2-Dichloropropane	100	U	100	30	ug/L			04/27/17 02:33	100
2-Hexanone	1000	U	1000	120	ug/L			04/27/17 02:33	100
Acetone	1000	U	1000	180	ug/L			04/27/17 02:33	100
Benzene	100	U	100	28	ug/L			04/27/17 02:33	100

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

Client Sample ID: GW-17302-041817-TW-09
Date Collected: 04/18/17 17:10
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	100	U	100	43	ug/L			04/27/17 02:33	100
Bromomethane	100	U	100	42	ug/L			04/27/17 02:33	100
Carbon disulfide	100	U	100	34	ug/L			04/27/17 02:33	100
Carbon tetrachloride	100	U	100	35	ug/L			04/27/17 02:33	100
Chlorobenzene	100	U	100	32	ug/L			04/27/17 02:33	100
Chloroethane	100	U	100	41	ug/L			04/27/17 02:33	100
Chloroform	100	U	100	31	ug/L			04/27/17 02:33	100
Chloromethane	100	U	100	43	ug/L			04/27/17 02:33	100
cis-1,2-Dichloroethene	**3100**		100	30	ug/L			04/27/17 02:33	100
cis-1,3-Dichloropropene	100	U	100	26	ug/L			04/27/17 02:33	100
Dichlorobromomethane	100	U	100	30	ug/L			04/27/17 02:33	100
Ethylbenzene	100	U	100	26	ug/L			04/27/17 02:33	100
2-Butanone (MEK)	1000	U	1000	100	ug/L			04/27/17 02:33	100
4-Methyl-2-pentanone (MIBK)	1000	U	1000	71	ug/L			04/27/17 02:33	100
Methylene Chloride	100	U	100	53	ug/L			04/27/17 02:33	100
Styrene	100	U	100	23	ug/L			04/27/17 02:33	100
Tetrachloroethene	100	U	100	30	ug/L			04/27/17 02:33	100
Toluene	100	U	100	23	ug/L			04/27/17 02:33	100
trans-1,2-Dichloroethene	100	U	100	29	ug/L			04/27/17 02:33	100
trans-1,3-Dichloropropene	100	U	100	31	ug/L			04/27/17 02:33	100
Trichloroethene	**90**	**J**	100	33	ug/L			04/27/17 02:33	100
Vinyl chloride	**1600**		100	45	ug/L			04/27/17 02:33	100
Xylenes, Total	200	U	200	24	ug/L			04/27/17 02:33	100
Chlorodibromomethane	100	U	100	25	ug/L			04/27/17 02:33	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*61 - 138*		*04/27/17 02:33*	*100*
4-Bromofluorobenzene (Surr)	*96*		*69 - 120*		*04/27/17 02:33*	*100*
Toluene-d8 (Surr)	*100*		*73 - 120*		*04/27/17 02:33*	*100*
Dibromofluoromethane (Surr)	*88*		*69 - 124*		*04/27/17 02:33*	*100*

Client Sample ID: GW-17302-041817-TW-10
Date Collected: 04/18/17 18:15
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**380**		250	58	ug/L			04/27/17 02:56	250
1,1,2,2-Tetrachloroethane	250	U	250	80	ug/L			04/27/17 02:56	250
1,1,2-Trichloroethane	250	U	250	85	ug/L			04/27/17 02:56	250
1,1-Dichloroethane	**270**		250	63	ug/L			04/27/17 02:56	250
1,1-Dichloroethene	**75**	**J**	250	68	ug/L			04/27/17 02:56	250
1,2-Dichloroethane	250	U	250	75	ug/L			04/27/17 02:56	250
1,2-Dichloropropane	250	U	250	75	ug/L			04/27/17 02:56	250
2-Hexanone	2500	U	2500	310	ug/L			04/27/17 02:56	250
Acetone	2500	U	2500	440	ug/L			04/27/17 02:56	250
Benzene	250	U	250	70	ug/L			04/27/17 02:56	250
Bromoform	250	U	250	110	ug/L			04/27/17 02:56	250
Bromomethane	250	U	250	110	ug/L			04/27/17 02:56	250
Carbon disulfide	250	U	250	85	ug/L			04/27/17 02:56	250
Carbon tetrachloride	250	U	250	88	ug/L			04/27/17 02:56	250
Chlorobenzene	250	U	250	80	ug/L			04/27/17 02:56	250

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

Client Sample ID: GW-17302-041817-TW-10
Date Collected: 04/18/17 18:15
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	250	U	250	100	ug/L			04/27/17 02:56	250
Chloroform	250	U	250	78	ug/L			04/27/17 02:56	250
Chloromethane	250	U	250	110	ug/L			04/27/17 02:56	250
cis-1,2-Dichloroethene	**7400**		250	75	ug/L			04/27/17 02:56	250
cis-1,3-Dichloropropene	250	U	250	65	ug/L			04/27/17 02:56	250
Dichlorobromomethane	250	U	250	75	ug/L			04/27/17 02:56	250
Ethylbenzene	250	U	250	65	ug/L			04/27/17 02:56	250
2-Butanone (MEK)	2500	U	2500	260	ug/L			04/27/17 02:56	250
4-Methyl-2-pentanone (MIBK)	2500	U	2500	180	ug/L			04/27/17 02:56	250
Methylene Chloride	250	U	250	130	ug/L			04/27/17 02:56	250
Styrene	250	U	250	58	ug/L			04/27/17 02:56	250
Tetrachloroethene	250	U	250	75	ug/L			04/27/17 02:56	250
Toluene	250	U	250	58	ug/L			04/27/17 02:56	250
trans-1,2-Dichloroethene	250	U	250	73	ug/L			04/27/17 02:56	250
trans-1,3-Dichloropropene	250	U	250	78	ug/L			04/27/17 02:56	250
Trichloroethene	**11000**		250	83	ug/L			04/27/17 02:56	250
Vinyl chloride	250	U	250	110	ug/L			04/27/17 02:56	250
Xylenes, Total	500	U	500	60	ug/L			04/27/17 02:56	250
Chlorodibromomethane	250	U	250	63	ug/L			04/27/17 02:56	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*61 - 138*		*04/27/17 02:56*	*250*
4-Bromofluorobenzene (Surr)	*97*		*69 - 120*		*04/27/17 02:56*	*250*
Toluene-d8 (Surr)	*102*		*73 - 120*		*04/27/17 02:56*	*250*
Dibromofluoromethane (Surr)	*88*		*69 - 124*		*04/27/17 02:56*	*250*

Client Sample ID: GW-17302-041917-TW-11
Date Collected: 04/19/17 09:35
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.5	U	2.5	0.58	ug/L			04/27/17 03:20	2.5
1,1,2,2-Tetrachloroethane	2.5	U	2.5	0.80	ug/L			04/27/17 03:20	2.5
1,1,2-Trichloroethane	2.5	U	2.5	0.85	ug/L			04/27/17 03:20	2.5
1,1-Dichloroethane	**0.94**	**J**	2.5	0.63	ug/L			04/27/17 03:20	2.5
1,1-Dichloroethene	2.5	U	2.5	0.68	ug/L			04/27/17 03:20	2.5
1,2-Dichloroethane	2.5	U	2.5	0.75	ug/L			04/27/17 03:20	2.5
1,2-Dichloropropane	2.5	U	2.5	0.75	ug/L			04/27/17 03:20	2.5
2-Hexanone	25	U	25	3.1	ug/L			04/27/17 03:20	2.5
Acetone	25	U	25	4.4	ug/L			04/27/17 03:20	2.5
Benzene	2.5	U	2.5	0.70	ug/L			04/27/17 03:20	2.5
Bromoform	2.5	U	2.5	1.1	ug/L			04/27/17 03:20	2.5
Bromomethane	2.5	U	2.5	1.1	ug/L			04/27/17 03:20	2.5
Carbon disulfide	2.5	U	2.5	0.85	ug/L			04/27/17 03:20	2.5
Carbon tetrachloride	2.5	U	2.5	0.88	ug/L			04/27/17 03:20	2.5
Chlorobenzene	2.5	U	2.5	0.80	ug/L			04/27/17 03:20	2.5
Chloroethane	2.5	U	2.5	1.0	ug/L			04/27/17 03:20	2.5
Chloroform	2.5	U	2.5	0.78	ug/L			04/27/17 03:20	2.5
Chloromethane	2.5	U	2.5	1.1	ug/L			04/27/17 03:20	2.5
cis-1,2-Dichloroethene	**110**		2.5	0.75	ug/L			04/27/17 03:20	2.5
cis-1,3-Dichloropropene	2.5	U	2.5	0.65	ug/L			04/27/17 03:20	2.5

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

Client Sample ID: GW-17302-041917-TW-11
Date Collected: 04/19/17 09:35
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	2.5	U	2.5	0.75	ug/L			04/27/17 03:20	2.5
Ethylbenzene	2.5	U	2.5	0.65	ug/L			04/27/17 03:20	2.5
2-Butanone (MEK)	25	U	25	2.6	ug/L			04/27/17 03:20	2.5
4-Methyl-2-pentanone (MIBK)	25	U	25	1.8	ug/L			04/27/17 03:20	2.5
Methylene Chloride	2.5	U	2.5	1.3	ug/L			04/27/17 03:20	2.5
Styrene	2.5	U	2.5	0.58	ug/L			04/27/17 03:20	2.5
Tetrachloroethene	2.5	U	2.5	0.75	ug/L			04/27/17 03:20	2.5
Toluene	2.5	U	2.5	0.58	ug/L			04/27/17 03:20	2.5
trans-1,2-Dichloroethene	**1.2**	**J**	2.5	0.73	ug/L			04/27/17 03:20	2.5
trans-1,3-Dichloropropene	2.5	U	2.5	0.78	ug/L			04/27/17 03:20	2.5
Trichloroethene	**0.85**	**J**	2.5	0.83	ug/L			04/27/17 03:20	2.5
Vinyl chloride	2.5	U	2.5	1.1	ug/L			04/27/17 03:20	2.5
Xylenes, Total	5.0	U	5.0	0.60	ug/L			04/27/17 03:20	2.5
Chlorodibromomethane	2.5	U	2.5	0.63	ug/L			04/27/17 03:20	2.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*61 - 138*		*04/27/17 03:20*	*2.5*
4-Bromofluorobenzene (Surr)	*98*		*69 - 120*		*04/27/17 03:20*	*2.5*
Toluene-d8 (Surr)	*101*		*73 - 120*		*04/27/17 03:20*	*2.5*
Dibromofluoromethane (Surr)	*87*		*69 - 124*		*04/27/17 03:20*	*2.5*

Client Sample ID: GW-17302-041917-TW-12
Date Collected: 04/19/17 10:55
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	630	U	630	140	ug/L			04/27/17 01:28	625
1,1,2,2-Tetrachloroethane	630	U	630	200	ug/L			04/27/17 01:28	625
1,1,2-Trichloroethane	630	U	630	210	ug/L			04/27/17 01:28	625
1,1-Dichloroethane	**400**	**J**	630	160	ug/L			04/27/17 01:28	625
1,1-Dichloroethene	630	U	630	170	ug/L			04/27/17 01:28	625
1,2-Dichloroethane	630	U	630	190	ug/L			04/27/17 01:28	625
1,2-Dichloropropane	630	U	630	190	ug/L			04/27/17 01:28	625
2-Hexanone	6300	U	6300	770	ug/L			04/27/17 01:28	625
Acetone	6300	U	6300	1100	ug/L			04/27/17 01:28	625
Benzene	630	U	630	180	ug/L			04/27/17 01:28	625
Bromoform	630	U	630	270	ug/L			04/27/17 01:28	625
Bromomethane	630	U	630	260	ug/L			04/27/17 01:28	625
Carbon disulfide	630	U	630	210	ug/L			04/27/17 01:28	625
Carbon tetrachloride	630	U	630	220	ug/L			04/27/17 01:28	625
Chlorobenzene	630	U	630	200	ug/L			04/27/17 01:28	625
Chloroethane	630	U	630	260	ug/L			04/27/17 01:28	625
Chloroform	630	U	630	190	ug/L			04/27/17 01:28	625
Chloromethane	630	U	630	270	ug/L			04/27/17 01:28	625
cis-1,2-Dichloroethene	**18000**		630	190	ug/L			04/27/17 01:28	625
cis-1,3-Dichloropropene	630	U	630	160	ug/L			04/27/17 01:28	625
Dichlorobromomethane	630	U	630	190	ug/L			04/27/17 01:28	625
Ethylbenzene	**680**		630	160	ug/L			04/27/17 01:28	625
2-Butanone (MEK)	6300	U	6300	640	ug/L			04/27/17 01:28	625
4-Methyl-2-pentanone (MIBK)	6300	U	6300	440	ug/L			04/27/17 01:28	625
Methylene Chloride	630	U	630	330	ug/L			04/27/17 01:28	625

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

Client Sample ID: GW-17302-041917-TW-12
Date Collected: 04/19/17 10:55
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	630	U	630	140	ug/L			04/27/17 01:28	625
Tetrachloroethene	630	U	630	190	ug/L			04/27/17 01:28	625
Toluene	**2000**		630	140	ug/L			04/27/17 01:28	625
trans-1,2-Dichloroethene	630	U	630	180	ug/L			04/27/17 01:28	625
trans-1,3-Dichloropropene	630	U	630	190	ug/L			04/27/17 01:28	625
Trichloroethene	630	U	630	210	ug/L			04/27/17 01:28	625
Vinyl chloride	**2000**		630	280	ug/L			04/27/17 01:28	625
Xylenes, Total	**1800**		1300	150	ug/L			04/27/17 01:28	625
Chlorodibromomethane	630	U	630	160	ug/L			04/27/17 01:28	625

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*61 - 138*		*04/27/17 01:28*	*625*
4-Bromofluorobenzene (Surr)	*96*		*69 - 120*		*04/27/17 01:28*	*625*
Toluene-d8 (Surr)	*97*		*73 - 120*		*04/27/17 01:28*	*625*
Dibromofluoromethane (Surr)	*92*		*69 - 124*		*04/27/17 01:28*	*625*

Client Sample ID: GW-17302-041917-TW-13
Date Collected: 04/19/17 11:55
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.33**	**J**	1.0	0.23	ug/L			04/27/17 01:52	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			04/27/17 01:52	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			04/27/17 01:52	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/27/17 01:52	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			04/27/17 01:52	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/27/17 01:52	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			04/27/17 01:52	1
2-Hexanone	10	U	10	1.2	ug/L			04/27/17 01:52	1
Acetone	10	U	10	1.8	ug/L			04/27/17 01:52	1
Benzene	1.0	U	1.0	0.28	ug/L			04/27/17 01:52	1
Bromoform	1.0	U	1.0	0.43	ug/L			04/27/17 01:52	1
Bromomethane	1.0	U	1.0	0.42	ug/L			04/27/17 01:52	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			04/27/17 01:52	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			04/27/17 01:52	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			04/27/17 01:52	1
Chloroethane	1.0	U	1.0	0.41	ug/L			04/27/17 01:52	1
Chloroform	1.0	U	1.0	0.31	ug/L			04/27/17 01:52	1
Chloromethane	1.0	U	1.0	0.43	ug/L			04/27/17 01:52	1
cis-1,2-Dichloroethene	**3.3**		1.0	0.30	ug/L			04/27/17 01:52	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			04/27/17 01:52	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			04/27/17 01:52	1
Ethylbenzene	**0.39**	**J**	1.0	0.26	ug/L			04/27/17 01:52	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			04/27/17 01:52	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			04/27/17 01:52	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			04/27/17 01:52	1
Styrene	1.0	U	1.0	0.23	ug/L			04/27/17 01:52	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			04/27/17 01:52	1
Toluene	**0.84**	**J**	1.0	0.23	ug/L			04/27/17 01:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/27/17 01:52	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			04/27/17 01:52	1

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

Client Sample ID: GW-17302-041917-TW-13
Date Collected: 04/19/17 11:55
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**0.36**	**J**	1.0	0.33	ug/L			04/27/17 01:52	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			04/27/17 01:52	1
Xylenes, Total	**1.4**	**J**	2.0	0.24	ug/L			04/27/17 01:52	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			04/27/17 01:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*61 - 138*		*04/27/17 01:52*	*1*
4-Bromofluorobenzene (Surr)	*97*		*69 - 120*		*04/27/17 01:52*	*1*
Toluene-d8 (Surr)	*99*		*73 - 120*		*04/27/17 01:52*	*1*
Dibromofluoromethane (Surr)	*92*		*69 - 124*		*04/27/17 01:52*	*1*

Client Sample ID: GW-17302-041917-TW-14
Date Collected: 04/19/17 13:05
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	63	U	63	14	ug/L			04/27/17 02:17	62.5
1,1,2,2-Tetrachloroethane	63	U	63	20	ug/L			04/27/17 02:17	62.5
1,1,2-Trichloroethane	63	U	63	21	ug/L			04/27/17 02:17	62.5
1,1-Dichloroethane	**92**		63	16	ug/L			04/27/17 02:17	62.5
1,1-Dichloroethene	63	U	63	17	ug/L			04/27/17 02:17	62.5
1,2-Dichloroethane	63	U	63	19	ug/L			04/27/17 02:17	62.5
1,2-Dichloropropane	63	U	63	19	ug/L			04/27/17 02:17	62.5
2-Hexanone	630	U	630	77	ug/L			04/27/17 02:17	62.5
Acetone	630	U	630	110	ug/L			04/27/17 02:17	62.5
Benzene	63	U	63	18	ug/L			04/27/17 02:17	62.5
Bromoform	63	U	63	27	ug/L			04/27/17 02:17	62.5
Bromomethane	63	U	63	26	ug/L			04/27/17 02:17	62.5
Carbon disulfide	63	U	63	21	ug/L			04/27/17 02:17	62.5
Carbon tetrachloride	63	U	63	22	ug/L			04/27/17 02:17	62.5
Chlorobenzene	63	U	63	20	ug/L			04/27/17 02:17	62.5
Chloroethane	63	U	63	26	ug/L			04/27/17 02:17	62.5
Chloroform	63	U	63	19	ug/L			04/27/17 02:17	62.5
Chloromethane	63	U	63	27	ug/L			04/27/17 02:17	62.5
cis-1,2-Dichloroethene	**2200**		63	19	ug/L			04/27/17 02:17	62.5
cis-1,3-Dichloropropene	63	U	63	16	ug/L			04/27/17 02:17	62.5
Dichlorobromomethane	63	U	63	19	ug/L			04/27/17 02:17	62.5
Ethylbenzene	63	U	63	16	ug/L			04/27/17 02:17	62.5
2-Butanone (MEK)	630	U	630	64	ug/L			04/27/17 02:17	62.5
4-Methyl-2-pentanone (MIBK)	630	U	630	44	ug/L			04/27/17 02:17	62.5
Methylene Chloride	63	U	63	33	ug/L			04/27/17 02:17	62.5
Styrene	63	U	63	14	ug/L			04/27/17 02:17	62.5
Tetrachloroethene	63	U	63	19	ug/L			04/27/17 02:17	62.5
Toluene	63	U	63	14	ug/L			04/27/17 02:17	62.5
trans-1,2-Dichloroethene	**94**		63	18	ug/L			04/27/17 02:17	62.5
trans-1,3-Dichloropropene	63	U	63	19	ug/L			04/27/17 02:17	62.5
Trichloroethene	63	U	63	21	ug/L			04/27/17 02:17	62.5
Vinyl chloride	**110**		63	28	ug/L			04/27/17 02:17	62.5
Xylenes, Total	130	U	130	15	ug/L			04/27/17 02:17	62.5
Chlorodibromomethane	63	U	63	16	ug/L			04/27/17 02:17	62.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*94*		*61 - 138*		*04/27/17 02:17*	*62.5*
4-Bromofluorobenzene (Surr)	*95*		*69 - 120*		*04/27/17 02:17*	*62.5*
Toluene-d8 (Surr)	*96*		*73 - 120*		*04/27/17 02:17*	*62.5*
Dibromofluoromethane (Surr)	*92*		*69 - 124*		*04/27/17 02:17*	*62.5*

Client Sample ID: GW-17302-041917-TW-15 — **Lab Sample ID: 240-78395-18**
Date Collected: 04/19/17 14:40 — **Matrix: Water**
Date Received: 04/20/17 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	130	U	130	29	ug/L			04/27/17 02:41	125
1,1,2,2-Tetrachloroethane	130	U	130	40	ug/L			04/27/17 02:41	125
1,1,2-Trichloroethane	130	U	130	43	ug/L			04/27/17 02:41	125
1,1-Dichloroethane	**170**		130	31	ug/L			04/27/17 02:41	125
1,1-Dichloroethene	130	U	130	34	ug/L			04/27/17 02:41	125
1,2-Dichloroethane	130	U	130	38	ug/L			04/27/17 02:41	125
1,2-Dichloropropane	130	U	130	38	ug/L			04/27/17 02:41	125
2-Hexanone	1300	U	1300	150	ug/L			04/27/17 02:41	125
Acetone	1300	U	1300	220	ug/L			04/27/17 02:41	125
Benzene	130	U	130	35	ug/L			04/27/17 02:41	125
Bromoform	130	U	130	54	ug/L			04/27/17 02:41	125
Bromomethane	130	U	130	53	ug/L			04/27/17 02:41	125
Carbon disulfide	130	U	130	43	ug/L			04/27/17 02:41	125
Carbon tetrachloride	130	U	130	44	ug/L			04/27/17 02:41	125
Chlorobenzene	130	U	130	40	ug/L			04/27/17 02:41	125
Chloroethane	130	U	130	51	ug/L			04/27/17 02:41	125
Chloroform	130	U	130	39	ug/L			04/27/17 02:41	125
Chloromethane	130	U	130	54	ug/L			04/27/17 02:41	125
cis-1,2-Dichloroethene	**5400**		130	38	ug/L			04/27/17 02:41	125
cis-1,3-Dichloropropene	130	U	130	33	ug/L			04/27/17 02:41	125
Dichlorobromomethane	130	U	130	38	ug/L			04/27/17 02:41	125
Ethylbenzene	130	U	130	33	ug/L			04/27/17 02:41	125
2-Butanone (MEK)	1300	U	1300	130	ug/L			04/27/17 02:41	125
4-Methyl-2-pentanone (MIBK)	1300	U	1300	89	ug/L			04/27/17 02:41	125
Methylene Chloride	130	U	130	66	ug/L			04/27/17 02:41	125
Styrene	130	U	130	29	ug/L			04/27/17 02:41	125
Tetrachloroethene	130	U	130	38	ug/L			04/27/17 02:41	125
Toluene	130	U	130	29	ug/L			04/27/17 02:41	125
trans-1,2-Dichloroethene	**73**	**J**	130	36	ug/L			04/27/17 02:41	125
trans-1,3-Dichloropropene	130	U	130	39	ug/L			04/27/17 02:41	125
Trichloroethene	**400**		130	41	ug/L			04/27/17 02:41	125
Vinyl chloride	**260**		130	56	ug/L			04/27/17 02:41	125
Xylenes, Total	250	U	250	30	ug/L			04/27/17 02:41	125
Chlorodibromomethane	130	U	130	31	ug/L			04/27/17 02:41	125

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*94*		*61 - 138*		*04/27/17 02:41*	*125*
4-Bromofluorobenzene (Surr)	*95*		*69 - 120*		*04/27/17 02:41*	*125*
Toluene-d8 (Surr)	*96*		*73 - 120*		*04/27/17 02:41*	*125*
Dibromofluoromethane (Surr)	*93*		*69 - 124*		*04/27/17 02:41*	*125*

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

Client Sample ID: GW-17302-041917-TW-16
Date Collected: 04/19/17 15:40
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-19
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	200	U	200	46	ug/L			04/27/17 03:06	200
1,1,2,2-Tetrachloroethane	200	U	200	64	ug/L			04/27/17 03:06	200
1,1,2-Trichloroethane	200	U	200	68	ug/L			04/27/17 03:06	200
1,1-Dichloroethane	200	U	200	50	ug/L			04/27/17 03:06	200
1,1-Dichloroethene	200	U	200	54	ug/L			04/27/17 03:06	200
1,2-Dichloroethane	200	U	200	60	ug/L			04/27/17 03:06	200
1,2-Dichloropropane	200	U	200	60	ug/L			04/27/17 03:06	200
2-Hexanone	2000	U	2000	250	ug/L			04/27/17 03:06	200
Acetone	2000	U	2000	350	ug/L			04/27/17 03:06	200
Benzene	200	U	200	56	ug/L			04/27/17 03:06	200
Bromoform	200	U	200	86	ug/L			04/27/17 03:06	200
Bromomethane	200	U	200	84	ug/L			04/27/17 03:06	200
Carbon disulfide	200	U F2	200	68	ug/L			04/27/17 03:06	200
Carbon tetrachloride	200	U	200	70	ug/L			04/27/17 03:06	200
Chlorobenzene	200	U	200	64	ug/L			04/27/17 03:06	200
Chloroethane	200	U	200	82	ug/L			04/27/17 03:06	200
Chloroform	200	U	200	62	ug/L			04/27/17 03:06	200
Chloromethane	200	U	200	86	ug/L			04/27/17 03:06	200
cis-1,2-Dichloroethene	**6000**		200	60	ug/L			04/27/17 03:06	200
cis-1,3-Dichloropropene	200	U	200	52	ug/L			04/27/17 03:06	200
Dichlorobromomethane	200	U	200	60	ug/L			04/27/17 03:06	200
Ethylbenzene	200	U	200	52	ug/L			04/27/17 03:06	200
2-Butanone (MEK)	2000	U	2000	200	ug/L			04/27/17 03:06	200
4-Methyl-2-pentanone (MIBK)	2000	U	2000	140	ug/L			04/27/17 03:06	200
Methylene Chloride	200	U	200	110	ug/L			04/27/17 03:06	200
Styrene	200	U	200	46	ug/L			04/27/17 03:06	200
Tetrachloroethene	200	U	200	60	ug/L			04/27/17 03:06	200
Toluene	200	U	200	46	ug/L			04/27/17 03:06	200
trans-1,2-Dichloroethene	**93**	**J**	200	58	ug/L			04/27/17 03:06	200
trans-1,3-Dichloropropene	200	U	200	62	ug/L			04/27/17 03:06	200
Trichloroethene	200	U	200	66	ug/L			04/27/17 03:06	200
Vinyl chloride	**440**		200	90	ug/L			04/27/17 03:06	200
Xylenes, Total	400	U	400	48	ug/L			04/27/17 03:06	200
Chlorodibromomethane	200	U	200	50	ug/L			04/27/17 03:06	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*61 - 138*		*04/27/17 03:06*	*200*
4-Bromofluorobenzene (Surr)	*94*		*69 - 120*		*04/27/17 03:06*	*200*
Toluene-d8 (Surr)	*96*		*73 - 120*		*04/27/17 03:06*	*200*
Dibromofluoromethane (Surr)	*95*		*69 - 124*		*04/27/17 03:06*	*200*

Client Sample ID: GW-17302-041917-TW-17
Date Collected: 04/19/17 16:25
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-20
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	100	U	100	23	ug/L			04/27/17 21:26	100
1,1,2,2-Tetrachloroethane	100	U	100	32	ug/L			04/27/17 21:26	100
1,1,2-Trichloroethane	100	U	100	34	ug/L			04/27/17 21:26	100
1,1-Dichloroethane	100	U	100	25	ug/L			04/27/17 21:26	100
1,1-Dichloroethene	100	U	100	27	ug/L			04/27/17 21:26	100

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

Client Sample ID: GW-17302-041917-TW-17
Date Collected: 04/19/17 16:25
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-20
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	100	U	100	30	ug/L			04/27/17 21:26	100
1,2-Dichloropropane	100	U	100	30	ug/L			04/27/17 21:26	100
2-Hexanone	1000	U	1000	120	ug/L			04/27/17 21:26	100
Acetone	1000	U	1000	180	ug/L			04/27/17 21:26	100
Benzene	100	U	100	28	ug/L			04/27/17 21:26	100
Bromoform	100	U	100	43	ug/L			04/27/17 21:26	100
Bromomethane	100	U	100	42	ug/L			04/27/17 21:26	100
Carbon disulfide	100	U	100	34	ug/L			04/27/17 21:26	100
Carbon tetrachloride	100	U	100	35	ug/L			04/27/17 21:26	100
Chlorobenzene	100	U	100	32	ug/L			04/27/17 21:26	100
Chloroethane	100	U	100	41	ug/L			04/27/17 21:26	100
Chloroform	100	U	100	31	ug/L			04/27/17 21:26	100
Chloromethane	100	U	100	43	ug/L			04/27/17 21:26	100
cis-1,2-Dichloroethene	**2900**		100	30	ug/L			04/27/17 21:26	100
cis-1,3-Dichloropropene	100	U	100	26	ug/L			04/27/17 21:26	100
Dichlorobromomethane	100	U	100	30	ug/L			04/27/17 21:26	100
Ethylbenzene	100	U	100	26	ug/L			04/27/17 21:26	100
2-Butanone (MEK)	1000	U	1000	100	ug/L			04/27/17 21:26	100
4-Methyl-2-pentanone (MIBK)	1000	U	1000	71	ug/L			04/27/17 21:26	100
Methylene Chloride	100	U	100	53	ug/L			04/27/17 21:26	100
Styrene	100	U	100	23	ug/L			04/27/17 21:26	100
Tetrachloroethene	100	U	100	30	ug/L			04/27/17 21:26	100
Toluene	100	U	100	23	ug/L			04/27/17 21:26	100
trans-1,2-Dichloroethene	**80**	**J**	100	29	ug/L			04/27/17 21:26	100
trans-1,3-Dichloropropene	100	U	100	31	ug/L			04/27/17 21:26	100
Trichloroethene	**35**	**J**	100	33	ug/L			04/27/17 21:26	100
Vinyl chloride	**220**		100	45	ug/L			04/27/17 21:26	100
Xylenes, Total	200	U	200	24	ug/L			04/27/17 21:26	100
Chlorodibromomethane	100	U	100	25	ug/L			04/27/17 21:26	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*61 - 138*		*04/27/17 21:26*	*100*
4-Bromofluorobenzene (Surr)	*94*		*69 - 120*		*04/27/17 21:26*	*100*
Toluene-d8 (Surr)	*100*		*73 - 120*		*04/27/17 21:26*	*100*
Dibromofluoromethane (Surr)	*86*		*69 - 124*		*04/27/17 21:26*	*100*

Client Sample ID: GW-17302-041917-TW-18
Date Collected: 04/19/17 17:30
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-21
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	25	U	25	5.8	ug/L			04/27/17 21:49	25
1,1,2,2-Tetrachloroethane	25	U	25	8.0	ug/L			04/27/17 21:49	25
1,1,2-Trichloroethane	25	U	25	8.5	ug/L			04/27/17 21:49	25
1,1-Dichloroethane	25	U	25	6.3	ug/L			04/27/17 21:49	25
1,1-Dichloroethene	25	U	25	6.8	ug/L			04/27/17 21:49	25
1,2-Dichloroethane	25	U	25	7.5	ug/L			04/27/17 21:49	25
1,2-Dichloropropane	25	U	25	7.5	ug/L			04/27/17 21:49	25
2-Hexanone	250	U	250	31	ug/L			04/27/17 21:49	25
Acetone	250	U	250	44	ug/L			04/27/17 21:49	25
Benzene	25	U	25	7.0	ug/L			04/27/17 21:49	25

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

Client Sample ID: GW-17302-041917-TW-18
Date Collected: 04/19/17 17:30
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-21
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	25	U	25	11	ug/L			04/27/17 21:49	25
Bromomethane	25	U	25	11	ug/L			04/27/17 21:49	25
Carbon disulfide	25	U	25	8.5	ug/L			04/27/17 21:49	25
Carbon tetrachloride	25	U	25	8.8	ug/L			04/27/17 21:49	25
Chlorobenzene	25	U	25	8.0	ug/L			04/27/17 21:49	25
Chloroethane	25	U	25	10	ug/L			04/27/17 21:49	25
Chloroform	25	U	25	7.8	ug/L			04/27/17 21:49	25
Chloromethane	25	U	25	11	ug/L			04/27/17 21:49	25
cis-1,2-Dichloroethene	**850**		25	7.5	ug/L			04/27/17 21:49	25
cis-1,3-Dichloropropene	25	U	25	6.5	ug/L			04/27/17 21:49	25
Dichlorobromomethane	25	U	25	7.5	ug/L			04/27/17 21:49	25
Ethylbenzene	25	U	25	6.5	ug/L			04/27/17 21:49	25
2-Butanone (MEK)	250	U	250	26	ug/L			04/27/17 21:49	25
4-Methyl-2-pentanone (MIBK)	250	U	250	18	ug/L			04/27/17 21:49	25
Methylene Chloride	25	U	25	13	ug/L			04/27/17 21:49	25
Styrene	25	U	25	5.8	ug/L			04/27/17 21:49	25
Tetrachloroethene	25	U	25	7.5	ug/L			04/27/17 21:49	25
Toluene	25	U	25	5.8	ug/L			04/27/17 21:49	25
trans-1,2-Dichloroethene	**18**	**J**	25	7.3	ug/L			04/27/17 21:49	25
trans-1,3-Dichloropropene	25	U	25	7.8	ug/L			04/27/17 21:49	25
Trichloroethene	25	U	25	8.3	ug/L			04/27/17 21:49	25
Vinyl chloride	**180**		25	11	ug/L			04/27/17 21:49	25
Xylenes, Total	50	U	50	6.0	ug/L			04/27/17 21:49	25
Chlorodibromomethane	25	U	25	6.3	ug/L			04/27/17 21:49	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*61 - 138*		*04/27/17 21:49*	*25*
4-Bromofluorobenzene (Surr)	*94*		*69 - 120*		*04/27/17 21:49*	*25*
Toluene-d8 (Surr)	*101*		*73 - 120*		*04/27/17 21:49*	*25*
Dibromofluoromethane (Surr)	*86*		*69 - 124*		*04/27/17 21:49*	*25*

Client Sample ID: EB-17302-041917-TW-01
Date Collected: 04/19/17 17:50
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-22
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/27/17 22:12	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			04/27/17 22:12	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			04/27/17 22:12	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/27/17 22:12	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			04/27/17 22:12	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/27/17 22:12	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			04/27/17 22:12	1
2-Hexanone	10	U	10	1.2	ug/L			04/27/17 22:12	1
Acetone	10	U	10	1.8	ug/L			04/27/17 22:12	1
Benzene	1.0	U	1.0	0.28	ug/L			04/27/17 22:12	1
Bromoform	1.0	U	1.0	0.43	ug/L			04/27/17 22:12	1
Bromomethane	1.0	U	1.0	0.42	ug/L			04/27/17 22:12	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			04/27/17 22:12	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			04/27/17 22:12	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			04/27/17 22:12	1

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

Client Sample ID: EB-17302-041917-TW-01
Date Collected: 04/19/17 17:50
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-22
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0	0.41	ug/L			04/27/17 22:12	1
Chloroform	1.0	U	1.0	0.31	ug/L			04/27/17 22:12	1
Chloromethane	1.0	U	1.0	0.43	ug/L			04/27/17 22:12	1
cis-1,2-Dichloroethene	**1.2**		1.0	0.30	ug/L			04/27/17 22:12	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			04/27/17 22:12	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			04/27/17 22:12	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			04/27/17 22:12	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			04/27/17 22:12	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			04/27/17 22:12	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			04/27/17 22:12	1
Styrene	1.0	U	1.0	0.23	ug/L			04/27/17 22:12	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			04/27/17 22:12	1
Toluene	1.0	U	1.0	0.23	ug/L			04/27/17 22:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/27/17 22:12	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			04/27/17 22:12	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			04/27/17 22:12	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			04/27/17 22:12	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			04/27/17 22:12	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			04/27/17 22:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*61 - 138*		*04/27/17 22:12*	*1*
4-Bromofluorobenzene (Surr)	*94*		*69 - 120*		*04/27/17 22:12*	*1*
Toluene-d8 (Surr)	*101*		*73 - 120*		*04/27/17 22:12*	*1*
Dibromofluoromethane (Surr)	*87*		*69 - 124*		*04/27/17 22:12*	*1*

Client Sample ID: TB-17302-041717-TW-01
Date Collected: 04/17/17 00:00
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-23
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/26/17 15:07	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			04/26/17 15:07	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			04/26/17 15:07	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/26/17 15:07	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			04/26/17 15:07	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/26/17 15:07	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			04/26/17 15:07	1
2-Hexanone	10	U	10	1.2	ug/L			04/26/17 15:07	1
Acetone	10	U	10	1.8	ug/L			04/26/17 15:07	1
Benzene	**0.52**	**J B**	1.0	0.28	ug/L			04/26/17 15:07	1
Bromoform	1.0	U	1.0	0.43	ug/L			04/26/17 15:07	1
Bromomethane	1.0	U	1.0	0.42	ug/L			04/26/17 15:07	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			04/26/17 15:07	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			04/26/17 15:07	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			04/26/17 15:07	1
Chloroethane	1.0	U	1.0	0.41	ug/L			04/26/17 15:07	1
Chloroform	1.0	U	1.0	0.31	ug/L			04/26/17 15:07	1
Chloromethane	1.0	U	1.0	0.43	ug/L			04/26/17 15:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/26/17 15:07	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			04/26/17 15:07	1

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-78395-1

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

Client Sample ID: TB-17302-041717-TW-01
Date Collected: 04/17/17 00:00
Date Received: 04/20/17 09:20

Lab Sample ID: 240-78395-23
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			04/26/17 15:07	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			04/26/17 15:07	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			04/26/17 15:07	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			04/26/17 15:07	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			04/26/17 15:07	1
Styrene	1.0	U	1.0	0.23	ug/L			04/26/17 15:07	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			04/26/17 15:07	1
Toluene	1.0	U	1.0	0.23	ug/L			04/26/17 15:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/26/17 15:07	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			04/26/17 15:07	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			04/26/17 15:07	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			04/26/17 15:07	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			04/26/17 15:07	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			04/26/17 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*61 - 138*		*04/26/17 15:07*	*1*
4-Bromofluorobenzene (Surr)	*93*		*69 - 120*		*04/26/17 15:07*	*1*
Toluene-d8 (Surr)	*97*		*73 - 120*		*04/26/17 15:07*	*1*
Dibromofluoromethane (Surr)	*106*		*69 - 124*		*04/26/17 15:07*	*1*

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-78395-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(61-138)	(69-120)	(73-120)	(69-124)
240-78395-1	GW-17302-041717-TW-01	92	99	98	92
240-78395-2	GW-17302-041717-TW-02	90	97	96	92
240-78395-3	GW-17302-041717-TW-03	89	95	93	91
240-78395-4	GW-17302-041817-TW-04	93	96	95	92
240-78395-5	SW-17302-041817-TW-01	95	100	97	93
240-78395-6	SW-17302-041817-TW-02	94	96	95	89
240-78395-7	GW-17302-041817-TW-05	91	95	95	90
240-78395-7 MS	GW-17302-041817-TW-05	99	101	96	92
240-78395-7 MSD	GW-17302-041817-TW-05	88	100	97	92
240-78395-8	SW-17302-041817-TW-03	95	96	94	94
240-78395-9	GW-17302-041817-TW-06	94	98	97	90
240-78395-10	GW-17302-041817-TW-07	86	95	101	85
240-78395-11	GW-17302-041817-TW-08	85	99	98	85
240-78395-12	GW-17302-041817-TW-09	88	96	100	88
240-78395-13	GW-17302-041817-TW-10	88	97	102	88
240-78395-14	GW-17302-041917-TW-11	89	98	101	87
240-78395-15	GW-17302-041917-TW-12	95	96	97	92
240-78395-16	GW-17302-041917-TW-13	98	97	99	92
240-78395-17	GW-17302-041917-TW-14	94	95	96	92
240-78395-18	GW-17302-041917-TW-15	94	95	96	93
240-78395-19	GW-17302-041917-TW-16	98	94	96	95
240-78395-19 MS	GW-17302-041917-TW-16	91	98	98	92
240-78395-19 MSD	GW-17302-041917-TW-16	93	97	97	94
240-78395-20	GW-17302-041917-TW-17	88	94	100	86
240-78395-21	GW-17302-041917-TW-18	88	94	101	86
240-78395-22	EB-17302-041917-TW-01	91	94	101	87
240-78395-23	TB-17302-041717-TW-01	101	93	97	106
LCS 240-276193/4	Lab Control Sample	97	100	98	93
LCS 240-276309/4	Lab Control Sample	95	98	104	103
LCS 240-276372/4	Lab Control Sample	86	99	99	96
LCS 240-276387/4	Lab Control Sample	88	104	103	87
LCS 240-276388/4	Lab Control Sample	88	104	103	87
LCS 240-276605/4	Lab Control Sample	93	100	104	89
MB 240-276193/7	Method Blank	93	97	95	92
MB 240-276309/6	Method Blank	101	89	95	106
MB 240-276372/7	Method Blank	94	95	97	94
MB 240-276387/7	Method Blank	86	96	98	84
MB 240-276388/7	Method Blank	86	96	98	84
MB 240-276605/7	Method Blank	89	94	98	87

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Lab Sample ID: MB 240-276193/7
Matrix: Water
Analysis Batch: 276193

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-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/25/17 18:52	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			04/25/17 18:52	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			04/25/17 18:52	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/25/17 18:52	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			04/25/17 18:52	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/25/17 18:52	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			04/25/17 18:52	1
2-Hexanone	10	U	10	1.2	ug/L			04/25/17 18:52	1
Acetone	10	U	10	1.8	ug/L			04/25/17 18:52	1
Benzene	1.0	U	1.0	0.28	ug/L			04/25/17 18:52	1
Bromoform	1.0	U	1.0	0.43	ug/L			04/25/17 18:52	1
Bromomethane	1.0	U	1.0	0.42	ug/L			04/25/17 18:52	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			04/25/17 18:52	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			04/25/17 18:52	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			04/25/17 18:52	1
Chloroethane	1.0	U	1.0	0.41	ug/L			04/25/17 18:52	1
Chloroform	1.0	U	1.0	0.31	ug/L			04/25/17 18:52	1
Chloromethane	1.0	U	1.0	0.43	ug/L			04/25/17 18:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/25/17 18:52	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			04/25/17 18:52	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			04/25/17 18:52	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			04/25/17 18:52	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			04/25/17 18:52	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			04/25/17 18:52	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			04/25/17 18:52	1
Styrene	1.0	U	1.0	0.23	ug/L			04/25/17 18:52	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			04/25/17 18:52	1
Toluene	1.0	U	1.0	0.23	ug/L			04/25/17 18:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/25/17 18:52	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			04/25/17 18:52	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			04/25/17 18:52	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			04/25/17 18:52	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			04/25/17 18:52	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			04/25/17 18:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*61 - 138*		*04/25/17 18:52*	*1*
4-Bromofluorobenzene (Surr)	*97*		*69 - 120*		*04/25/17 18:52*	*1*
Toluene-d8 (Surr)	*95*		*73 - 120*		*04/25/17 18:52*	*1*
Dibromofluoromethane (Surr)	*92*		*69 - 124*		*04/25/17 18:52*	*1*

Lab Sample ID: LCS 240-276193/4
Matrix: Water
Analysis Batch: 276193

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			20.0	21.2		ug/L		106	64 - 147		
1,1,2,2-Tetrachloroethane			20.0	20.1		ug/L		100	58 - 122		

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

Lab Sample ID: LCS 240-276193/4
Matrix: Water
Analysis Batch: 276193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	20.0	20.3		ug/L		101	76 - 121
1,1-Dichloroethane	20.0	20.5		ug/L		102	74 - 120
1,1-Dichloroethene	20.0	21.4		ug/L		107	65 - 127
1,2-Dichloroethane	20.0	20.7		ug/L		103	68 - 133
1,2-Dichloropropane	20.0	20.9		ug/L		105	78 - 127
2-Hexanone	40.0	34.4		ug/L		86	28 - 169
Acetone	40.0	20.4		ug/L		51	35 - 131
Benzene	20.0	20.8		ug/L		104	79 - 120
Bromoform	20.0	16.7		ug/L		84	55 - 145
Bromomethane	20.0	19.7		ug/L		99	17 - 158
Carbon disulfide	20.0	25.6		ug/L		128	49 - 141
Carbon tetrachloride	20.0	21.2		ug/L		106	55 - 171
Chlorobenzene	20.0	21.4		ug/L		107	80 - 120
Chloroethane	20.0	20.6		ug/L		103	10 - 149
Chloroform	20.0	20.9		ug/L		105	80 - 120
Chloromethane	20.0	21.3		ug/L		106	59 - 124
cis-1,2-Dichloroethene	20.0	20.5		ug/L		103	77 - 120
cis-1,3-Dichloropropene	20.0	19.4		ug/L		97	75 - 120
Dichlorobromomethane	20.0	22.5		ug/L		113	79 - 125
Ethylbenzene	20.0	22.5		ug/L		113	80 - 120
m-Xylene & p-Xylene	20.0	22.4		ug/L		112	80 - 120
2-Butanone (MEK)	40.0	25.3		ug/L		63	43 - 149
4-Methyl-2-pentanone (MIBK)	40.0	33.0		ug/L		83	53 - 144
Methylene Chloride	20.0	18.8		ug/L		94	64 - 140
o-Xylene	20.0	21.7		ug/L		108	80 - 120
Styrene	20.0	22.2		ug/L		111	80 - 121
Tetrachloroethene	20.0	21.9		ug/L		109	80 - 122
Toluene	20.0	20.9		ug/L		105	78 - 120
trans-1,2-Dichloroethene	20.0	21.9		ug/L		109	74 - 124
trans-1,3-Dichloropropene	20.0	18.7		ug/L		94	67 - 120
Trichloroethene	20.0	20.8		ug/L		104	76 - 124
Vinyl chloride	20.0	20.5		ug/L		103	65 - 124
Xylenes, Total	40.0	44.1		ug/L		110	80 - 120
Chlorodibromomethane	20.0	21.2		ug/L		106	64 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*61 - 138*
4-Bromofluorobenzene (Surr)	*100*		*69 - 120*
Toluene-d8 (Surr)	*98*		*73 - 120*
Dibromofluoromethane (Surr)	*93*		*69 - 124*

Lab Sample ID: 240-78395-7 MS
Matrix: Water
Analysis Batch: 276193

Client Sample ID: GW-17302-041817-TW-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	330	U	6670	6680		ug/L		100	57 - 156
1,1,2,2-Tetrachloroethane	330	U	6670	7100		ug/L		107	51 - 123

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

Lab Sample ID: 240-78395-7 MS
Matrix: Water
Analysis Batch: 276193

Client Sample ID: GW-17302-041817-TW-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	330	U	6670	6700		ug/L		101	68 - 127
1,1-Dichloroethane	320	J	6670	6870		ug/L		98	69 - 122
1,1-Dichloroethene	330	U	6670	6610		ug/L		99	62 - 127
1,2-Dichloroethane	330	U	6670	6730		ug/L		101	64 - 138
1,2-Dichloropropane	330	U	6670	6770		ug/L		102	72 - 131
2-Hexanone	3300	U	13300	14000		ug/L		105	21 - 184
Acetone	3300	U	13300	8080		ug/L		61	19 - 133
Benzene	330	U	6670	6540		ug/L		98	69 - 127
Bromoform	330	U	6670	5780		ug/L		87	61 - 135
Bromomethane	330	U	6670	6460		ug/L		97	10 - 148
Carbon disulfide	330	U	6670	7850		ug/L		118	46 - 143
Carbon tetrachloride	330	U	6670	6370		ug/L		96	53 - 175
Chlorobenzene	330	U	6670	6500		ug/L		97	76 - 120
Chloroethane	330	U	6670	6730		ug/L		101	10 - 141
Chloroform	330	U	6670	6770		ug/L		101	74 - 125
Chloromethane	330	U	6670	7010		ug/L		105	34 - 127
cis-1,2-Dichloroethene	8400		6670	14400		ug/L		91	69 - 127
cis-1,3-Dichloropropene	330	U	6670	5930		ug/L		89	68 - 120
Dichlorobromomethane	330	U	6670	6820		ug/L		102	75 - 128
Ethylbenzene	330	U	6670	6610		ug/L		99	72 - 121
m-Xylene & p-Xylene	670	U	6670	6660		ug/L		100	70 - 121
2-Butanone (MEK)	3300	U	13300	9890		ug/L		74	34 - 153
4-Methyl-2-pentanone (MIBK)	3300	U	13300	13500		ug/L		101	53 - 147
Methylene Chloride	330	U	6670	6050		ug/L		91	52 - 137
o-Xylene	330	U	6670	6650		ug/L		100	71 - 125
Styrene	330	U	6670	6750		ug/L		101	74 - 125
Tetrachloroethene	330	U	6670	6380		ug/L		96	69 - 126
Toluene	330	U	6670	6410		ug/L		96	69 - 125
trans-1,2-Dichloroethene	280	J	6670	7040		ug/L		101	66 - 131
trans-1,3-Dichloropropene	330	U	6670	5830		ug/L		87	59 - 120
Trichloroethene	330	U	6670	6230		ug/L		93	68 - 129
Vinyl chloride	420		6670	6730		ug/L		95	55 - 123
Xylenes, Total	670	U	13300	13300		ug/L		100	71 - 122
Chlorodibromomethane	330	U	6670	6850		ug/L		103	62 - 131

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*61 - 138*
4-Bromofluorobenzene (Surr)	*101*		*69 - 120*
Toluene-d8 (Surr)	*96*		*73 - 120*
Dibromofluoromethane (Surr)	*92*		*69 - 124*

Lab Sample ID: 240-78395-7 MSD
Matrix: Water
Analysis Batch: 276193

Client Sample ID: GW-17302-041817-TW-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	330	U	6670	6760		ug/L		101	57 - 156	1	13
1,1,2,2-Tetrachloroethane	330	U	6670	6870		ug/L		103	51 - 123	3	17

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

Lab Sample ID: 240-78395-7 MSD
Matrix: Water
Analysis Batch: 276193

Client Sample ID: GW-17302-041817-TW-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane	330	U	6670	6710		ug/L		101	68 - 127	0	11
1,1-Dichloroethane	320	J	6670	6990		ug/L		100	69 - 122	2	11
1,1-Dichloroethene	330	U	6670	6680		ug/L		100	62 - 127	1	14
1,2-Dichloroethane	330	U	6670	6720		ug/L		101	64 - 138	0	11
1,2-Dichloropropane	330	U	6670	6490		ug/L		97	72 - 131	4	12
2-Hexanone	3300	U	13300	13500		ug/L		101	21 - 184	4	12
Acetone	3300	U	13300	7240		ug/L		54	19 - 133	11	35
Benzene	330	U	6670	6670		ug/L		100	69 - 127	2	10
Bromoform	330	U	6670	5670		ug/L		85	61 - 135	2	13
Bromomethane	330	U	6670	6520		ug/L		98	10 - 148	1	35
Carbon disulfide	330	U	6670	8220		ug/L		123	46 - 143	5	18
Carbon tetrachloride	330	U	6670	6570		ug/L		98	53 - 175	3	17
Chlorobenzene	330	U	6670	6570		ug/L		99	76 - 120	1	12
Chloroethane	330	U	6670	6540		ug/L		98	10 - 141	3	35
Chloroform	330	U	6670	6780		ug/L		102	74 - 125	0	11
Chloromethane	330	U	6670	6960		ug/L		104	34 - 127	1	25
cis-1,2-Dichloroethene	8400		6670	14900		ug/L		98	69 - 127	4	11
cis-1,3-Dichloropropene	330	U	6670	6040		ug/L		91	68 - 120	2	13
Dichlorobromomethane	330	U	6670	7130		ug/L		107	75 - 128	4	13
Ethylbenzene	330	U	6670	6840		ug/L		103	72 - 121	3	15
m-Xylene & p-Xylene	670	U	6670	6970		ug/L		105	70 - 121	4	15
2-Butanone (MEK)	3300	U	13300	9830		ug/L		74	34 - 153	1	23
4-Methyl-2-pentanone (MIBK)	3300	U	13300	13000		ug/L		97	53 - 147	4	16
Methylene Chloride	330	U	6670	6090		ug/L		91	52 - 137	1	12
o-Xylene	330	U	6670	6750		ug/L		101	71 - 125	1	15
Styrene	330	U	6670	6910		ug/L		104	74 - 125	2	14
Tetrachloroethene	330	U	6670	6670		ug/L		100	69 - 126	4	18
Toluene	330	U	6670	6540		ug/L		98	69 - 125	2	14
trans-1,2-Dichloroethene	280	J	6670	7200		ug/L		104	66 - 131	2	11
trans-1,3-Dichloropropene	330	U	6670	6090		ug/L		91	59 - 120	4	14
Trichloroethene	330	U	6670	6340		ug/L		95	68 - 129	2	12
Vinyl chloride	420		6670	7120		ug/L		101	55 - 123	6	12
Xylenes, Total	670	U	13300	13700		ug/L		103	71 - 122	3	14
Chlorodibromomethane	330	U	6670	6830		ug/L		102	62 - 131	0	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*61 - 138*
4-Bromofluorobenzene (Surr)	*100*		*69 - 120*
Toluene-d8 (Surr)	*97*		*73 - 120*
Dibromofluoromethane (Surr)	*92*		*69 - 124*

Lab Sample ID: MB 240-276309/6
Matrix: Water
Analysis Batch: 276309

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-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/26/17 13:36	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			04/26/17 13:36	1

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

Lab Sample ID: MB 240-276309/6
Matrix: Water
Analysis Batch: 276309

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			04/26/17 13:36	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/26/17 13:36	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			04/26/17 13:36	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/26/17 13:36	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			04/26/17 13:36	1
2-Hexanone	10	U	10	1.2	ug/L			04/26/17 13:36	1
Acetone	10	U	10	1.8	ug/L			04/26/17 13:36	1
Benzene	0.552	J	1.0	0.28	ug/L			04/26/17 13:36	1
Bromoform	1.0	U	1.0	0.43	ug/L			04/26/17 13:36	1
Bromomethane	1.0	U	1.0	0.42	ug/L			04/26/17 13:36	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			04/26/17 13:36	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			04/26/17 13:36	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			04/26/17 13:36	1
Chloroethane	1.0	U	1.0	0.41	ug/L			04/26/17 13:36	1
Chloroform	1.0	U	1.0	0.31	ug/L			04/26/17 13:36	1
Chloromethane	1.0	U	1.0	0.43	ug/L			04/26/17 13:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/26/17 13:36	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			04/26/17 13:36	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			04/26/17 13:36	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			04/26/17 13:36	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			04/26/17 13:36	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			04/26/17 13:36	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			04/26/17 13:36	1
Styrene	1.0	U	1.0	0.23	ug/L			04/26/17 13:36	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			04/26/17 13:36	1
Toluene	1.0	U	1.0	0.23	ug/L			04/26/17 13:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/26/17 13:36	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			04/26/17 13:36	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			04/26/17 13:36	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			04/26/17 13:36	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			04/26/17 13:36	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			04/26/17 13:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*61 - 138*		*04/26/17 13:36*	*1*
4-Bromofluorobenzene (Surr)	*89*		*69 - 120*		*04/26/17 13:36*	*1*
Toluene-d8 (Surr)	*95*		*73 - 120*		*04/26/17 13:36*	*1*
Dibromofluoromethane (Surr)	*106*		*69 - 124*		*04/26/17 13:36*	*1*

Lab Sample ID: LCS 240-276309/4
Matrix: Water
Analysis Batch: 276309

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	10.0	10.4		ug/L		104	64 - 147
1,1,2,2-Tetrachloroethane	10.0	8.43		ug/L		84	58 - 122
1,1,2-Trichloroethane	10.0	11.0		ug/L		110	76 - 121
1,1-Dichloroethane	10.0	8.14		ug/L		81	74 - 120

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

Lab Sample ID: LCS 240-276309/4
Matrix: Water
Analysis Batch: 276309

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	8.48		ug/L		85	65 - 127
1,2-Dichloroethane	10.0	9.98		ug/L		100	68 - 133
1,2-Dichloropropane	10.0	8.86		ug/L		89	78 - 127
2-Hexanone	20.0	17.3		ug/L		87	28 - 169
Acetone	20.0	13.3		ug/L		66	35 - 131
Benzene	10.0	9.83		ug/L		98	79 - 120
Bromoform	10.0	11.7		ug/L		117	55 - 145
Bromomethane	10.0	5.26		ug/L		53	17 - 158
Carbon disulfide	10.0	7.65		ug/L		76	49 - 141
Carbon tetrachloride	10.0	11.6		ug/L		116	55 - 171
Chlorobenzene	10.0	9.94		ug/L		99	80 - 120
Chloroethane	10.0	3.79		ug/L		38	10 - 149
Chloroform	10.0	9.42		ug/L		94	80 - 120
Chloromethane	10.0	6.92		ug/L		69	59 - 124
cis-1,2-Dichloroethene	10.0	9.41		ug/L		94	77 - 120
cis-1,3-Dichloropropene	10.0	8.57		ug/L		86	75 - 120
Dichlorobromomethane	10.0	9.75		ug/L		98	79 - 125
Ethylbenzene	10.0	9.68		ug/L		97	80 - 120
m-Xylene & p-Xylene	10.0	9.50		ug/L		95	80 - 120
2-Butanone (MEK)	20.0	16.2		ug/L		81	43 - 149
4-Methyl-2-pentanone (MIBK)	20.0	15.2		ug/L		76	53 - 144
Methylene Chloride	10.0	8.90		ug/L		89	64 - 140
o-Xylene	10.0	9.57		ug/L		96	80 - 120
Styrene	10.0	9.49		ug/L		95	80 - 121
Tetrachloroethene	10.0	11.9		ug/L		119	80 - 122
Toluene	10.0	9.83		ug/L		98	78 - 120
trans-1,2-Dichloroethene	10.0	9.00		ug/L		90	74 - 124
trans-1,3-Dichloropropene	10.0	8.67		ug/L		87	67 - 120
Trichloroethene	10.0	10.7		ug/L		107	76 - 124
Vinyl chloride	10.0	6.93		ug/L		69	65 - 124
Xylenes, Total	20.0	19.1		ug/L		95	80 - 120
Chlorodibromomethane	10.0	11.1		ug/L		111	64 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*61 - 138*
4-Bromofluorobenzene (Surr)	*98*		*69 - 120*
Toluene-d8 (Surr)	*104*		*73 - 120*
Dibromofluoromethane (Surr)	*103*		*69 - 124*

Lab Sample ID: MB 240-276372/7
Matrix: Water
Analysis Batch: 276372

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-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/26/17 18:07	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			04/26/17 18:07	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			04/26/17 18:07	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/26/17 18:07	1

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

Lab Sample ID: MB 240-276372/7
Matrix: Water
Analysis Batch: 276372

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			04/26/17 18:07	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/26/17 18:07	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			04/26/17 18:07	1
2-Hexanone	10	U	10	1.2	ug/L			04/26/17 18:07	1
Acetone	10	U	10	1.8	ug/L			04/26/17 18:07	1
Benzene	1.0	U	1.0	0.28	ug/L			04/26/17 18:07	1
Bromoform	1.0	U	1.0	0.43	ug/L			04/26/17 18:07	1
Bromomethane	1.0	U	1.0	0.42	ug/L			04/26/17 18:07	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			04/26/17 18:07	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			04/26/17 18:07	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			04/26/17 18:07	1
Chloroethane	1.0	U	1.0	0.41	ug/L			04/26/17 18:07	1
Chloroform	1.0	U	1.0	0.31	ug/L			04/26/17 18:07	1
Chloromethane	1.0	U	1.0	0.43	ug/L			04/26/17 18:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/26/17 18:07	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			04/26/17 18:07	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			04/26/17 18:07	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			04/26/17 18:07	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			04/26/17 18:07	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			04/26/17 18:07	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			04/26/17 18:07	1
Styrene	1.0	U	1.0	0.23	ug/L			04/26/17 18:07	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			04/26/17 18:07	1
Toluene	1.0	U	1.0	0.23	ug/L			04/26/17 18:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/26/17 18:07	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			04/26/17 18:07	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			04/26/17 18:07	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			04/26/17 18:07	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			04/26/17 18:07	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			04/26/17 18:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*61 - 138*		*04/26/17 18:07*	*1*
4-Bromofluorobenzene (Surr)	*95*		*69 - 120*		*04/26/17 18:07*	*1*
Toluene-d8 (Surr)	*97*		*73 - 120*		*04/26/17 18:07*	*1*
Dibromofluoromethane (Surr)	*94*		*69 - 124*		*04/26/17 18:07*	*1*

Lab Sample ID: LCS 240-276372/4
Matrix: Water
Analysis Batch: 276372

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	20.0	22.3		ug/L		112	64 - 147
1,1,2,2-Tetrachloroethane	20.0	20.2		ug/L		101	58 - 122
1,1,2-Trichloroethane	20.0	20.4		ug/L		102	76 - 121
1,1-Dichloroethane	20.0	20.6		ug/L		103	74 - 120
1,1-Dichloroethene	20.0	21.3		ug/L		107	65 - 127
1,2-Dichloroethane	20.0	20.8		ug/L		104	68 - 133

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

Lab Sample ID: LCS 240-276372/4
Matrix: Water
Analysis Batch: 276372

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	20.0	20.6		ug/L		103	78 - 127
2-Hexanone	40.0	36.7		ug/L		92	28 - 169
Acetone	40.0	18.8		ug/L		47	35 - 131
Benzene	20.0	20.8		ug/L		104	79 - 120
Bromoform	20.0	17.2		ug/L		86	55 - 145
Bromomethane	20.0	20.6		ug/L		103	17 - 158
Carbon disulfide	20.0	20.0		ug/L		100	49 - 141
Carbon tetrachloride	20.0	22.5		ug/L		112	55 - 171
Chlorobenzene	20.0	21.1		ug/L		105	80 - 120
Chloroethane	20.0	20.6		ug/L		103	10 - 149
Chloroform	20.0	21.0		ug/L		105	80 - 120
Chloromethane	20.0	21.3		ug/L		106	59 - 124
cis-1,2-Dichloroethene	20.0	20.5		ug/L		103	77 - 120
cis-1,3-Dichloropropene	20.0	19.4		ug/L		97	75 - 120
Dichlorobromomethane	20.0	22.2		ug/L		111	79 - 125
Ethylbenzene	20.0	22.1		ug/L		111	80 - 120
m-Xylene & p-Xylene	20.0	22.1		ug/L		111	80 - 120
2-Butanone (MEK)	40.0	26.8		ug/L		67	43 - 149
4-Methyl-2-pentanone (MIBK)	40.0	36.0		ug/L		90	53 - 144
Methylene Chloride	20.0	18.1		ug/L		91	64 - 140
o-Xylene	20.0	21.8		ug/L		109	80 - 120
Styrene	20.0	21.9		ug/L		110	80 - 121
Tetrachloroethene	20.0	21.2		ug/L		106	80 - 122
Toluene	20.0	20.7		ug/L		103	78 - 120
trans-1,2-Dichloroethene	20.0	21.2		ug/L		106	74 - 124
trans-1,3-Dichloropropene	20.0	18.9		ug/L		95	67 - 120
Trichloroethene	20.0	20.3		ug/L		101	76 - 124
Vinyl chloride	20.0	20.8		ug/L		104	65 - 124
Xylenes, Total	40.0	43.9		ug/L		110	80 - 120
Chlorodibromomethane	20.0	21.3		ug/L		106	64 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*61 - 138*
4-Bromofluorobenzene (Surr)	*99*		*69 - 120*
Toluene-d8 (Surr)	*99*		*73 - 120*
Dibromofluoromethane (Surr)	*96*		*69 - 124*

Lab Sample ID: 240-78395-19 MS
Matrix: Water
Analysis Batch: 276372

Client Sample ID: GW-17302-041917-TW-16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	200	U	4000	3950		ug/L		99	57 - 156
1,1,2,2-Tetrachloroethane	200	U	4000	4160		ug/L		104	51 - 123
1,1,2-Trichloroethane	200	U	4000	4030		ug/L		101	68 - 127
1,1-Dichloroethane	200	U	4000	3960		ug/L		99	69 - 122
1,1-Dichloroethene	200	U	4000	4010		ug/L		100	62 - 127
1,2-Dichloroethane	200	U	4000	3980		ug/L		100	64 - 138

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

Lab Sample ID: 240-78395-19 MS
Matrix: Water
Analysis Batch: 276372

Client Sample ID: GW-17302-041917-TW-16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	200	U	4000	3980		ug/L		99	72 - 131
2-Hexanone	2000	U	8000	7920		ug/L		99	21 - 184
Acetone	2000	U	8000	4010		ug/L		50	19 - 133
Benzene	200	U	4000	4000		ug/L		100	69 - 127
Bromoform	200	U	4000	3060		ug/L		76	61 - 135
Bromomethane	200	U	4000	3860		ug/L		97	10 - 148
Carbon disulfide	200	U F2	4000	4700		ug/L		117	46 - 143
Carbon tetrachloride	200	U	4000	3780		ug/L		94	53 - 175
Chlorobenzene	200	U	4000	4080		ug/L		102	76 - 120
Chloroethane	200	U	4000	3960		ug/L		99	10 - 141
Chloroform	200	U	4000	4090		ug/L		102	74 - 125
Chloromethane	200	U	4000	4270		ug/L		107	34 - 127
cis-1,2-Dichloroethene	6000		4000	9650		ug/L		91	69 - 127
cis-1,3-Dichloropropene	200	U	4000	3630		ug/L		91	68 - 120
Dichlorobromomethane	200	U	4000	4140		ug/L		104	75 - 128
Ethylbenzene	200	U	4000	4120		ug/L		103	72 - 121
m-Xylene & p-Xylene	400	U	4000	4110		ug/L		103	70 - 121
2-Butanone (MEK)	2000	U	8000	5660		ug/L		71	34 - 153
4-Methyl-2-pentanone (MIBK)	2000	U	8000	7150		ug/L		89	53 - 147
Methylene Chloride	200	U	4000	3640		ug/L		91	52 - 137
o-Xylene	200	U	4000	4090		ug/L		102	71 - 125
Styrene	200	U	4000	4200		ug/L		105	74 - 125
Tetrachloroethene	200	U	4000	3830		ug/L		96	69 - 126
Toluene	200	U	4000	3970		ug/L		99	69 - 125
trans-1,2-Dichloroethene	93	J	4000	4240		ug/L		104	66 - 131
trans-1,3-Dichloropropene	200	U	4000	3610		ug/L		90	59 - 120
Trichloroethene	200	U	4000	3710		ug/L		93	68 - 129
Vinyl chloride	440		4000	4290		ug/L		96	55 - 123
Xylenes, Total	400	U	8000	8200		ug/L		103	71 - 122
Chlorodibromomethane	200	U	4000	4050		ug/L		101	62 - 131

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*61 - 138*
4-Bromofluorobenzene (Surr)	*98*		*69 - 120*
Toluene-d8 (Surr)	*98*		*73 - 120*
Dibromofluoromethane (Surr)	*92*		*69 - 124*

Lab Sample ID: 240-78395-19 MSD
Matrix: Water
Analysis Batch: 276372

Client Sample ID: GW-17302-041917-TW-16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	200	U	4000	4190		ug/L		105	57 - 156	6	13
1,1,2,2-Tetrachloroethane	200	U	4000	4200		ug/L		105	51 - 123	1	17
1,1,2-Trichloroethane	200	U	4000	3980		ug/L		100	68 - 127	1	11
1,1-Dichloroethane	200	U	4000	4000		ug/L		100	69 - 122	1	11
1,1-Dichloroethene	200	U	4000	4030		ug/L		101	62 - 127	0	14
1,2-Dichloroethane	200	U	4000	4200		ug/L		105	64 - 138	5	11

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

Lab Sample ID: 240-78395-19 MSD
Matrix: Water
Analysis Batch: 276372

Client Sample ID: GW-17302-041917-TW-16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	200	U	4000	4060		ug/L		101	72 - 131	2	12
2-Hexanone	2000	U	8000	7760		ug/L		97	21 - 184	2	12
Acetone	2000	U	8000	4250		ug/L		53	19 - 133	6	35
Benzene	200	U	4000	4070		ug/L		102	69 - 127	2	10
Bromoform	200	U	4000	3230		ug/L		81	61 - 135	5	13
Bromomethane	200	U	4000	3870		ug/L		97	10 - 148	0	35
Carbon disulfide	200	U F2	4000	3830	F2	ug/L		96	46 - 143	20	18
Carbon tetrachloride	200	U	4000	4090		ug/L		102	53 - 175	8	17
Chlorobenzene	200	U	4000	3990		ug/L		100	76 - 120	2	12
Chloroethane	200	U	4000	3950		ug/L		99	10 - 141	0	35
Chloroform	200	U	4000	4020		ug/L		100	74 - 125	2	11
Chloromethane	200	U	4000	4160		ug/L		104	34 - 127	3	25
cis-1,2-Dichloroethene	6000		4000	9960		ug/L		99	69 - 127	3	11
cis-1,3-Dichloropropene	200	U	4000	3710		ug/L		93	68 - 120	2	13
Dichlorobromomethane	200	U	4000	4320		ug/L		108	75 - 128	4	13
Ethylbenzene	200	U	4000	4100		ug/L		102	72 - 121	1	15
m-Xylene & p-Xylene	400	U	4000	4100		ug/L		103	70 - 121	0	15
2-Butanone (MEK)	2000	U	8000	5930		ug/L		74	34 - 153	5	23
4-Methyl-2-pentanone (MIBK)	2000	U	8000	8020		ug/L		100	53 - 147	11	16
Methylene Chloride	200	U	4000	3600		ug/L		90	52 - 137	1	12
o-Xylene	200	U	4000	4100		ug/L		102	71 - 125	0	15
Styrene	200	U	4000	4180		ug/L		105	74 - 125	1	14
Tetrachloroethene	200	U	4000	3860		ug/L		96	69 - 126	1	18
Toluene	200	U	4000	3920		ug/L		98	69 - 125	1	14
trans-1,2-Dichloroethene	93	J	4000	4270		ug/L		104	66 - 131	1	11
trans-1,3-Dichloropropene	200	U	4000	3610		ug/L		90	59 - 120	0	14
Trichloroethene	200	U	4000	3860		ug/L		97	68 - 129	4	12
Vinyl chloride	440		4000	4250		ug/L		95	55 - 123	1	12
Xylenes, Total	400	U	8000	8200		ug/L		103	71 - 122	0	14
Chlorodibromomethane	200	U	4000	4150		ug/L		104	62 - 131	2	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*61 - 138*
4-Bromofluorobenzene (Surr)	*97*		*69 - 120*
Toluene-d8 (Surr)	*97*		*73 - 120*
Dibromofluoromethane (Surr)	*94*		*69 - 124*

Lab Sample ID: MB 240-276387/7
Matrix: Water
Analysis Batch: 276387

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-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/26/17 20:01	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			04/26/17 20:01	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			04/26/17 20:01	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/26/17 20:01	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			04/26/17 20:01	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/26/17 20:01	1

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

Lab Sample ID: MB 240-276387/7
Matrix: Water
Analysis Batch: 276387

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			04/26/17 20:01	1
2-Hexanone	10	U	10	1.2	ug/L			04/26/17 20:01	1
Acetone	10	U	10	1.8	ug/L			04/26/17 20:01	1
Benzene	1.0	U	1.0	0.28	ug/L			04/26/17 20:01	1
Bromoform	1.0	U	1.0	0.43	ug/L			04/26/17 20:01	1
Bromomethane	1.0	U	1.0	0.42	ug/L			04/26/17 20:01	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			04/26/17 20:01	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			04/26/17 20:01	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			04/26/17 20:01	1
Chloroethane	1.0	U	1.0	0.41	ug/L			04/26/17 20:01	1
Chloroform	1.0	U	1.0	0.31	ug/L			04/26/17 20:01	1
Chloromethane	1.0	U	1.0	0.43	ug/L			04/26/17 20:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/26/17 20:01	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			04/26/17 20:01	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			04/26/17 20:01	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			04/26/17 20:01	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			04/26/17 20:01	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			04/26/17 20:01	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			04/26/17 20:01	1
Styrene	1.0	U	1.0	0.23	ug/L			04/26/17 20:01	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			04/26/17 20:01	1
Toluene	1.0	U	1.0	0.23	ug/L			04/26/17 20:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/26/17 20:01	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			04/26/17 20:01	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			04/26/17 20:01	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			04/26/17 20:01	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			04/26/17 20:01	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			04/26/17 20:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*61 - 138*		*04/26/17 20:01*	*1*
4-Bromofluorobenzene (Surr)	*96*		*69 - 120*		*04/26/17 20:01*	*1*
Toluene-d8 (Surr)	*98*		*73 - 120*		*04/26/17 20:01*	*1*
Dibromofluoromethane (Surr)	*84*		*69 - 124*		*04/26/17 20:01*	*1*

Lab Sample ID: LCS 240-276387/4
Matrix: Water
Analysis Batch: 276387

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	20.0	19.4		ug/L		97	64 - 147
1,1,2,2-Tetrachloroethane	20.0	22.9		ug/L		114	58 - 122
1,1,2-Trichloroethane	20.0	22.2		ug/L		111	76 - 121
1,1-Dichloroethane	20.0	19.8		ug/L		99	74 - 120
1,1-Dichloroethene	20.0	19.7		ug/L		99	65 - 127
1,2-Dichloroethane	20.0	18.4		ug/L		92	68 - 133
1,2-Dichloropropane	20.0	19.8		ug/L		99	78 - 127
2-Hexanone	40.0	43.8		ug/L		109	28 - 169

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

Lab Sample ID: LCS 240-276387/4
Matrix: Water
Analysis Batch: 276387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	40.0	31.9		ug/L		80	35 - 131
Benzene	20.0	19.6		ug/L		98	79 - 120
Bromoform	20.0	18.0		ug/L		90	55 - 145
Bromomethane	20.0	19.0		ug/L		95	17 - 158
Carbon disulfide	20.0	20.4		ug/L		102	49 - 141
Carbon tetrachloride	20.0	18.2		ug/L		91	55 - 171
Chlorobenzene	20.0	21.3		ug/L		106	80 - 120
Chloroethane	20.0	22.3		ug/L		111	10 - 149
Chloroform	20.0	18.9		ug/L		94	80 - 120
Chloromethane	20.0	18.2		ug/L		91	59 - 124
cis-1,2-Dichloroethene	20.0	19.2		ug/L		96	77 - 120
cis-1,3-Dichloropropene	20.0	17.7		ug/L		88	75 - 120
Dichlorobromomethane	20.0	18.0		ug/L		90	79 - 125
Ethylbenzene	20.0	22.4		ug/L		112	80 - 120
m-Xylene & p-Xylene	20.0	22.2		ug/L		111	80 - 120
2-Butanone (MEK)	40.0	36.4		ug/L		91	43 - 149
4-Methyl-2-pentanone (MIBK)	40.0	39.3		ug/L		98	53 - 144
Methylene Chloride	20.0	18.9		ug/L		95	64 - 140
o-Xylene	20.0	22.3		ug/L		112	80 - 120
Styrene	20.0	22.3		ug/L		112	80 - 121
Tetrachloroethene	20.0	21.4		ug/L		107	80 - 122
Toluene	20.0	22.2		ug/L		111	78 - 120
trans-1,2-Dichloroethene	20.0	20.0		ug/L		100	74 - 124
trans-1,3-Dichloropropene	20.0	19.0		ug/L		95	67 - 120
Trichloroethene	20.0	18.2		ug/L		91	76 - 124
Vinyl chloride	20.0	20.8		ug/L		104	65 - 124
Xylenes, Total	40.0	44.5		ug/L		111	80 - 120
Chlorodibromomethane	20.0	20.2		ug/L		101	64 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*61 - 138*
4-Bromofluorobenzene (Surr)	*104*		*69 - 120*
Toluene-d8 (Surr)	*103*		*73 - 120*
Dibromofluoromethane (Surr)	*87*		*69 - 124*

Lab Sample ID: MB 240-276388/7
Matrix: Water
Analysis Batch: 276388

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-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/26/17 20:01	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			04/26/17 20:01	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			04/26/17 20:01	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/26/17 20:01	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			04/26/17 20:01	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/26/17 20:01	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			04/26/17 20:01	1
2-Hexanone	10	U	10	1.2	ug/L			04/26/17 20:01	1

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

Lab Sample ID: MB 240-276388/7
Matrix: Water
Analysis Batch: 276388

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			04/26/17 20:01	1
Benzene	1.0	U	1.0	0.28	ug/L			04/26/17 20:01	1
Bromoform	1.0	U	1.0	0.43	ug/L			04/26/17 20:01	1
Bromomethane	1.0	U	1.0	0.42	ug/L			04/26/17 20:01	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			04/26/17 20:01	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			04/26/17 20:01	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			04/26/17 20:01	1
Chloroethane	1.0	U	1.0	0.41	ug/L			04/26/17 20:01	1
Chloroform	1.0	U	1.0	0.31	ug/L			04/26/17 20:01	1
Chloromethane	1.0	U	1.0	0.43	ug/L			04/26/17 20:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/26/17 20:01	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			04/26/17 20:01	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			04/26/17 20:01	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			04/26/17 20:01	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			04/26/17 20:01	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			04/26/17 20:01	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			04/26/17 20:01	1
Styrene	1.0	U	1.0	0.23	ug/L			04/26/17 20:01	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			04/26/17 20:01	1
Toluene	1.0	U	1.0	0.23	ug/L			04/26/17 20:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/26/17 20:01	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			04/26/17 20:01	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			04/26/17 20:01	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			04/26/17 20:01	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			04/26/17 20:01	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			04/26/17 20:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*61 - 138*		*04/26/17 20:01*	*1*
4-Bromofluorobenzene (Surr)	*96*		*69 - 120*		*04/26/17 20:01*	*1*
Toluene-d8 (Surr)	*98*		*73 - 120*		*04/26/17 20:01*	*1*
Dibromofluoromethane (Surr)	*84*		*69 - 124*		*04/26/17 20:01*	*1*

Lab Sample ID: LCS 240-276388/4
Matrix: Water
Analysis Batch: 276388

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	20.0	19.4		ug/L		97	64 - 147
1,1,2,2-Tetrachloroethane	20.0	22.9		ug/L		114	58 - 122
1,1,2-Trichloroethane	20.0	22.2		ug/L		111	76 - 121
1,1-Dichloroethane	20.0	19.8		ug/L		99	74 - 120
1,1-Dichloroethene	20.0	19.7		ug/L		99	65 - 127
1,2-Dichloroethane	20.0	18.4		ug/L		92	68 - 133
1,2-Dichloropropane	20.0	19.8		ug/L		99	78 - 127
2-Hexanone	40.0	43.8		ug/L		109	28 - 169
Acetone	40.0	31.9		ug/L		80	35 - 131
Benzene	20.0	19.6		ug/L		98	79 - 120

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

Lab Sample ID: LCS 240-276388/4
Matrix: Water
Analysis Batch: 276388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	20.0	18.0		ug/L		90	55 - 145
Bromomethane	20.0	19.0		ug/L		95	17 - 158
Carbon disulfide	20.0	20.4		ug/L		102	49 - 141
Carbon tetrachloride	20.0	18.2		ug/L		91	55 - 171
Chlorobenzene	20.0	21.3		ug/L		106	80 - 120
Chloroethane	20.0	22.3		ug/L		111	10 - 149
Chloroform	20.0	18.9		ug/L		94	80 - 120
Chloromethane	20.0	18.2		ug/L		91	59 - 124
cis-1,2-Dichloroethene	20.0	19.2		ug/L		96	77 - 120
cis-1,3-Dichloropropene	20.0	17.7		ug/L		88	75 - 120
Dichlorobromomethane	20.0	18.0		ug/L		90	79 - 125
Ethylbenzene	20.0	22.4		ug/L		112	80 - 120
m-Xylene & p-Xylene	20.0	22.2		ug/L		111	80 - 120
2-Butanone (MEK)	40.0	34.2		ug/L		85	43 - 149
4-Methyl-2-pentanone (MIBK)	40.0	39.3		ug/L		98	53 - 144
Methylene Chloride	20.0	18.9		ug/L		95	64 - 140
o-Xylene	20.0	22.3		ug/L		112	80 - 120
Styrene	20.0	22.3		ug/L		112	80 - 121
Tetrachloroethene	20.0	21.4		ug/L		107	80 - 122
Toluene	20.0	22.2		ug/L		111	78 - 120
trans-1,2-Dichloroethene	20.0	20.0		ug/L		100	74 - 124
trans-1,3-Dichloropropene	20.0	19.0		ug/L		95	67 - 120
Trichloroethene	20.0	18.2		ug/L		91	76 - 124
Vinyl chloride	20.0	20.8		ug/L		104	65 - 124
Xylenes, Total	40.0	44.5		ug/L		111	80 - 120
Chlorodibromomethane	20.0	20.2		ug/L		101	64 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*61 - 138*
4-Bromofluorobenzene (Surr)	*104*		*69 - 120*
Toluene-d8 (Surr)	*103*		*73 - 120*
Dibromofluoromethane (Surr)	*87*		*69 - 124*

Lab Sample ID: MB 240-276605/7
Matrix: Water
Analysis Batch: 276605

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-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/27/17 21:02	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			04/27/17 21:02	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			04/27/17 21:02	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/27/17 21:02	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			04/27/17 21:02	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/27/17 21:02	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			04/27/17 21:02	1
2-Hexanone	10	U	10	1.2	ug/L			04/27/17 21:02	1
Acetone	10	U	10	1.8	ug/L			04/27/17 21:02	1
Benzene	1.0	U	1.0	0.28	ug/L			04/27/17 21:02	1

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

Lab Sample ID: MB 240-276605/7
Matrix: Water
Analysis Batch: 276605

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	1.0	U	1.0	0.43	ug/L			04/27/17 21:02	1
Bromomethane	1.0	U	1.0	0.42	ug/L			04/27/17 21:02	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			04/27/17 21:02	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			04/27/17 21:02	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			04/27/17 21:02	1
Chloroethane	1.0	U	1.0	0.41	ug/L			04/27/17 21:02	1
Chloroform	1.0	U	1.0	0.31	ug/L			04/27/17 21:02	1
Chloromethane	1.0	U	1.0	0.43	ug/L			04/27/17 21:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/27/17 21:02	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			04/27/17 21:02	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			04/27/17 21:02	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			04/27/17 21:02	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			04/27/17 21:02	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			04/27/17 21:02	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			04/27/17 21:02	1
Styrene	1.0	U	1.0	0.23	ug/L			04/27/17 21:02	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			04/27/17 21:02	1
Toluene	1.0	U	1.0	0.23	ug/L			04/27/17 21:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/27/17 21:02	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			04/27/17 21:02	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			04/27/17 21:02	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			04/27/17 21:02	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			04/27/17 21:02	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			04/27/17 21:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*61 - 138*		*04/27/17 21:02*	*1*
4-Bromofluorobenzene (Surr)	*94*		*69 - 120*		*04/27/17 21:02*	*1*
Toluene-d8 (Surr)	*98*		*73 - 120*		*04/27/17 21:02*	*1*
Dibromofluoromethane (Surr)	*87*		*69 - 124*		*04/27/17 21:02*	*1*

Lab Sample ID: LCS 240-276605/4
Matrix: Water
Analysis Batch: 276605

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	20.0	19.1		ug/L		96	64 - 147
1,1,2,2-Tetrachloroethane	20.0	22.4		ug/L		112	58 - 122
1,1,2-Trichloroethane	20.0	21.4		ug/L		107	76 - 121
1,1-Dichloroethane	20.0	19.3		ug/L		97	74 - 120
1,1-Dichloroethene	20.0	20.2		ug/L		101	65 - 127
1,2-Dichloroethane	20.0	18.4		ug/L		92	68 - 133
1,2-Dichloropropane	20.0	19.6		ug/L		98	78 - 127
2-Hexanone	40.0	40.1		ug/L		100	28 - 169
Acetone	40.0	27.2		ug/L		68	35 - 131
Benzene	20.0	19.2		ug/L		96	79 - 120
Bromoform	20.0	16.1		ug/L		80	55 - 145
Bromomethane	20.0	19.6		ug/L		98	17 - 158

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

Lab Sample ID: LCS 240-276605/4
Matrix: Water
Analysis Batch: 276605

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	20.0	20.8		ug/L		104	49 - 141
Carbon tetrachloride	20.0	17.7		ug/L		89	55 - 171
Chlorobenzene	20.0	21.3		ug/L		107	80 - 120
Chloroethane	20.0	22.8		ug/L		114	10 - 149
Chloroform	20.0	18.7		ug/L		94	80 - 120
Chloromethane	20.0	18.2		ug/L		91	59 - 124
cis-1,2-Dichloroethene	20.0	18.9		ug/L		95	77 - 120
cis-1,3-Dichloropropene	20.0	17.1		ug/L		86	75 - 120
Dichlorobromomethane	20.0	18.0		ug/L		90	79 - 125
Ethylbenzene	20.0	22.6		ug/L		113	80 - 120
m-Xylene & p-Xylene	20.0	21.8		ug/L		109	80 - 120
2-Butanone (MEK)	40.0	34.0		ug/L		85	43 - 149
4-Methyl-2-pentanone (MIBK)	40.0	36.1		ug/L		90	53 - 144
Methylene Chloride	20.0	18.2		ug/L		91	64 - 140
o-Xylene	20.0	21.5		ug/L		108	80 - 120
Styrene	20.0	21.6		ug/L		108	80 - 121
Tetrachloroethene	20.0	21.2		ug/L		106	80 - 122
Toluene	20.0	21.7		ug/L		109	78 - 120
trans-1,2-Dichloroethene	20.0	19.7		ug/L		99	74 - 124
trans-1,3-Dichloropropene	20.0	18.1		ug/L		90	67 - 120
Trichloroethene	20.0	17.9		ug/L		89	76 - 124
Vinyl chloride	20.0	21.2		ug/L		106	65 - 124
Xylenes, Total	40.0	43.3		ug/L		108	80 - 120
Chlorodibromomethane	20.0	19.0		ug/L		95	64 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*61 - 138*
4-Bromofluorobenzene (Surr)	*100*		*69 - 120*
Toluene-d8 (Surr)	*104*		*73 - 120*
Dibromofluoromethane (Surr)	*89*		*69 - 124*

GC/MS VOA

Analysis Batch: 276193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-78395-1	GW-17302-041717-TW-01	Total/NA	Water	8260B	
240-78395-2	GW-17302-041717-TW-02	Total/NA	Water	8260B	
240-78395-3	GW-17302-041717-TW-03	Total/NA	Water	8260B	
240-78395-4	GW-17302-041817-TW-04	Total/NA	Water	8260B	
240-78395-5	SW-17302-041817-TW-01	Total/NA	Water	8260B	
240-78395-6	SW-17302-041817-TW-02	Total/NA	Water	8260B	
240-78395-7	GW-17302-041817-TW-05	Total/NA	Water	8260B	
240-78395-8	SW-17302-041817-TW-03	Total/NA	Water	8260B	
240-78395-9	GW-17302-041817-TW-06	Total/NA	Water	8260B	
MB 240-276193/7	Method Blank	Total/NA	Water	8260B	
LCS 240-276193/4	Lab Control Sample	Total/NA	Water	8260B	
240-78395-7 MS	GW-17302-041817-TW-05	Total/NA	Water	8260B	
240-78395-7 MSD	GW-17302-041817-TW-05	Total/NA	Water	8260B	

Analysis Batch: 276309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-78395-23	TB-17302-041717-TW-01	Total/NA	Water	8260B	
MB 240-276309/6	Method Blank	Total/NA	Water	8260B	
LCS 240-276309/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 276372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-78395-15	GW-17302-041917-TW-12	Total/NA	Water	8260B	
240-78395-16	GW-17302-041917-TW-13	Total/NA	Water	8260B	
240-78395-17	GW-17302-041917-TW-14	Total/NA	Water	8260B	
240-78395-18	GW-17302-041917-TW-15	Total/NA	Water	8260B	
240-78395-19	GW-17302-041917-TW-16	Total/NA	Water	8260B	
MB 240-276372/7	Method Blank	Total/NA	Water	8260B	
LCS 240-276372/4	Lab Control Sample	Total/NA	Water	8260B	
240-78395-19 MS	GW-17302-041917-TW-16	Total/NA	Water	8260B	
240-78395-19 MSD	GW-17302-041917-TW-16	Total/NA	Water	8260B	

Analysis Batch: 276387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-78395-10	GW-17302-041817-TW-07	Total/NA	Water	8260B	
240-78395-11	GW-17302-041817-TW-08	Total/NA	Water	8260B	
240-78395-12	GW-17302-041817-TW-09	Total/NA	Water	8260B	
240-78395-13	GW-17302-041817-TW-10	Total/NA	Water	8260B	
240-78395-14	GW-17302-041917-TW-11	Total/NA	Water	8260B	
MB 240-276387/7	Method Blank	Total/NA	Water	8260B	
LCS 240-276387/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 276388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-276388/7	Method Blank	Total/NA	Water	8260B	
LCS 240-276388/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 276605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-78395-20	GW-17302-041917-TW-17	Total/NA	Water	8260B	
240-78395-21	GW-17302-041917-TW-18	Total/NA	Water	8260B	

GC/MS VOA (Continued)

Analysis Batch: 276605 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-78395-22	EB-17302-041917-TW-01	Total/NA	Water	8260B	
MB 240-276605/7	Method Blank	Total/NA	Water	8260B	
LCS 240-276605/4	Lab Control Sample	Total/NA	Water	8260B	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-78395-1

Client Sample ID: GW-17302-041717-TW-01
Lab Sample ID: 240-78395-1
Date Collected: 04/17/17 16:00
Matrix: Water
Date Received: 04/20/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		125	276193	04/25/17 19:17	TJL1	TAL CAN

Client Sample ID: GW-17302-041717-TW-02
Lab Sample ID: 240-78395-2
Date Collected: 04/17/17 17:30
Matrix: Water
Date Received: 04/20/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		62.5	276193	04/25/17 19:42	TJL1	TAL CAN

Client Sample ID: GW-17302-041717-TW-03
Lab Sample ID: 240-78395-3
Date Collected: 04/17/17 17:35
Matrix: Water
Date Received: 04/20/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		125	276193	04/25/17 20:07	TJL1	TAL CAN

Client Sample ID: GW-17302-041817-TW-04
Lab Sample ID: 240-78395-4
Date Collected: 04/18/17 10:50
Matrix: Water
Date Received: 04/20/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		333.333	276193	04/25/17 20:31	TJL1	TAL CAN

Client Sample ID: SW-17302-041817-TW-01
Lab Sample ID: 240-78395-5
Date Collected: 04/18/17 12:10
Matrix: Water
Date Received: 04/20/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		6.67	276193	04/25/17 20:55	TJL1	TAL CAN

Client Sample ID: SW-17302-041817-TW-02
Lab Sample ID: 240-78395-6
Date Collected: 04/18/17 12:15
Matrix: Water
Date Received: 04/20/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		6.67	276193	04/25/17 21:19	TJL1	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-78395-1

Client Sample ID: GW-17302-041817-TW-05
Lab Sample ID: 240-78395-7
Date Collected: 04/18/17 12:20
Matrix: Water
Date Received: 04/20/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		333.333	276193	04/25/17 21:42	TJL1	TAL CAN

Client Sample ID: SW-17302-041817-TW-03
Lab Sample ID: 240-78395-8
Date Collected: 04/18/17 12:40
Matrix: Water
Date Received: 04/20/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1.67	276193	04/25/17 22:07	TJL1	TAL CAN

Client Sample ID: GW-17302-041817-TW-06
Lab Sample ID: 240-78395-9
Date Collected: 04/18/17 14:40
Matrix: Water
Date Received: 04/20/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		3.333	276193	04/25/17 22:30	TJL1	TAL CAN

Client Sample ID: GW-17302-041817-TW-07
Lab Sample ID: 240-78395-10
Date Collected: 04/18/17 15:55
Matrix: Water
Date Received: 04/20/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		125	276387	04/27/17 01:47	TJL1	TAL CAN

Client Sample ID: GW-17302-041817-TW-08
Lab Sample ID: 240-78395-11
Date Collected: 04/18/17 16:00
Matrix: Water
Date Received: 04/20/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		125	276387	04/27/17 02:10	TJL1	TAL CAN

Client Sample ID: GW-17302-041817-TW-09
Lab Sample ID: 240-78395-12
Date Collected: 04/18/17 17:10
Matrix: Water
Date Received: 04/20/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	276387	04/27/17 02:33	TJL1	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-78395-1

Client Sample ID: GW-17302-041817-TW-10 — Lab Sample ID: 240-78395-13

Date Collected: 04/18/17 18:15 — **Matrix: Water**
Date Received: 04/20/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		250	276387	04/27/17 02:56	TJL1	TAL CAN

Client Sample ID: GW-17302-041917-TW-11 — Lab Sample ID: 240-78395-14

Date Collected: 04/19/17 09:35 — **Matrix: Water**
Date Received: 04/20/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2.5	276387	04/27/17 03:20	TJL1	TAL CAN

Client Sample ID: GW-17302-041917-TW-12 — Lab Sample ID: 240-78395-15

Date Collected: 04/19/17 10:55 — **Matrix: Water**
Date Received: 04/20/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		625	276372	04/27/17 01:28	TJL1	TAL CAN

Client Sample ID: GW-17302-041917-TW-13 — Lab Sample ID: 240-78395-16

Date Collected: 04/19/17 11:55 — **Matrix: Water**
Date Received: 04/20/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	276372	04/27/17 01:52	TJL1	TAL CAN

Client Sample ID: GW-17302-041917-TW-14 — Lab Sample ID: 240-78395-17

Date Collected: 04/19/17 13:05 — **Matrix: Water**
Date Received: 04/20/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		62.5	276372	04/27/17 02:17	TJL1	TAL CAN

Client Sample ID: GW-17302-041917-TW-15 — Lab Sample ID: 240-78395-18

Date Collected: 04/19/17 14:40 — **Matrix: Water**
Date Received: 04/20/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		125	276372	04/27/17 02:41	TJL1	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-78395-1

Client Sample ID: GW-17302-041917-TW-16
Lab Sample ID: 240-78395-19
Date Collected: 04/19/17 15:40
Matrix: Water
Date Received: 04/20/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	276372	04/27/17 03:06	TJL1	TAL CAN

Client Sample ID: GW-17302-041917-TW-17
Lab Sample ID: 240-78395-20
Date Collected: 04/19/17 16:25
Matrix: Water
Date Received: 04/20/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	276605	04/27/17 21:26	TJL1	TAL CAN

Client Sample ID: GW-17302-041917-TW-18
Lab Sample ID: 240-78395-21
Date Collected: 04/19/17 17:30
Matrix: Water
Date Received: 04/20/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		25	276605	04/27/17 21:49	TJL1	TAL CAN

Client Sample ID: EB-17302-041917-TW-01
Lab Sample ID: 240-78395-22
Date Collected: 04/19/17 17:50
Matrix: Water
Date Received: 04/20/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	276605	04/27/17 22:12	TJL1	TAL CAN

Client Sample ID: TB-17302-041717-TW-01
Lab Sample ID: 240-78395-23
Date Collected: 04/17/17 00:00
Matrix: Water
Date Received: 04/20/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	276309	04/26/17 15:07	LRW	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: GHD Services Inc.
TestAmerica Job ID: 240-78395-1
Project/Site: 17302-T07, RACER Delphi Anderson

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	04-30-17 *
Connecticut	State Program	1	PH-0590	12-31-17
Florida	NELAP	4	E87225	06-30-17 *
Illinois	NELAP	5	200004	07-31-17 *
Kansas	NELAP	7	E-10336	01-31-18
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17
Minnesota	NELAP	5	039-999-348	12-31-17
Minnesota (Petrofund)	State Program	1	3506	07-31-17 *
Nevada	State Program	9	OH-000482008A	07-31-17 *
New Jersey	NELAP	2	OH001	06-30-17 *
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-14-17
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-17 *
Texas	NELAP	6	T104704517-15-5	08-31-17 *
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-17
Washington	State Program	10	C971	01-12-18
West Virginia DEP	State Program	3	210	12-31-16 *
Wisconsin	State Program	5	999518190	08-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

4.8/C4.5

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Tyler Wittmaier	Lab PM: Heckler, Denise D	Carrier Tracking No(s):	COC No: 240-40130-17528.1
Client Contact: Ms. Deborah Andrasko	Phone: 905-328-0632	E-Mail: denise.heckler@testamericainc.com		Page: Page 1 of 3
Company: GHD Services Inc.		Analysis Requested		Job #: 017302-T07
Address: 2055 Niagara Falls Blvd., Suite 3	Due Date Requested:			Preservation Codes:
City: Niagara Falls	TAT Requested (days): 2 week (Std)			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: NY, 14304	PO #: 4057448			Other:
Phone:	WO #: 17302			
Email: deb.andrasko@ghd.com	Project #: 24007143			
Project Name: 17302, RACER DelphApril 2017 Event	SSOW#: 017302-T07			
Site: RACER Anderson				

240-78395 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOCs	Total Number of containers	Special Instructions/Note:
		Preservation Code:					A		
GW-17302-041717-TW-01	17-Apr-17	16:00	G	Water			X	3	
GW-17302-041717-TW-02		17:30		Water					
GW-17302-041717-TW-03		17:35		Water					
GW-17302-041817-TW-04	18-Apr-17	10:50		Water					
SW-17302-041817-TW-01		12:10		Water					
SW-17302-041817-TW-02		12:15		Water					
GW-17302-041817-TW-05		12:20		Water		X		9	
SW-17302-041817-TW-03		12:40		Water				3	
GW-17302-041817-TW-06		14:40		Water					
GW-17302-041817-TW-07		15:55		Water					
GW-17302-041817-TW-08		16:00		Water					

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: Fedex

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Tyler Wittmaier Tyler Wittmaier	04/19/17 19:30	GHD	Gerry Burns	4/20/17 0920	TA Can
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

5/1/2017

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Tyler Wittmaier	Lab PM: Heckler, Denise D	Carrier Tracking No(s):	COC No: 240-40130-17528.2
Client Contact: Ms. Deborah Andrasko	Phone: 905-328-0632	E-Mail: denise.heckler@testamericainc.com		Page: Page 2 of 3
Company: GHD Services Inc.				Job #: 017302-T07

Address: 2055 Niagara Falls Blvd., Suite 3	Due Date Requested:	Analysis Requested
City: Niagara Falls	TAT Requested (days): 2 week (std)	
State, Zip: NY, 14304	PO #: 4057448	
Phone:	WO #: 17302	
Email: deb.andrasko@ghd.com	Project #: 24007143	
Project Name: 17302, RACER DelphApril 2017 Event	SSOW#: 917302-T07	
Site: RACER Anderson		

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
GW-17302-041817-TW-09	18-Apr-17	17:10	G	Water			X	3	
GW-17302-041817-TW-10	18-Apr-17	18:15		Water					
GW-17302-041917-TW-11	19-Apr-17	9:35		Water					
-12		10:55		Water					
-13		11:55		Water					
-14		13:05		Water					
-15		14:40		Water					
-16		15:40		Water					
-17		16:25		Water					
-18		17:30		Water					
EB-17302-041917-TW-01		17:50		Water					

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Tyler Wittmaier	04/19/17 19:30	GHD		4/20/17 0920	TA Can
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Tyler Wittmaier	Lab PM: Heckler, Denise D	Carrier Tracking No(s): Fedex 7259 7882 5252	COC No: 240-40130-17528.3
Client Contact: Ms. Deborah Andrasko	Phone: 905-328-0632	E-Mail: denise.heckler@testamericainc.com		Page: Page 3 of 3
Company: GHD Services Inc.		Analysis Requested		Job #: 017302-T07
Address: 2055 Niagara Falls Blvd., Suite 3	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: Niagara Falls	TAT Requested (days): 2 week (Std)			
State, Zip: NY, 14304				
Phone:	PO #: 4057448			
Email: deb.andrasko@ghd.com	WO #: 17302			
Project Name: 17302, RACER DelphApril 2017 Event	Project #: 24007143			
Site: RACER Anderson	SSOW#: 017302-T07			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
TB-17302-041717-TW-01	17-Apr-17	-	-	Water			X	4	
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
								(76)	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Tyler Wittmaier	04/19/17 19:30	GHD	[signature]	4/20/17 0920	TA Can
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

5/1/2017

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 78395**

Canton Facility

Client GHD Site Name

Cooler Received on 4/20/17 Opened on 4/20/17

Cooler unpacked by: Greg Burns

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # 241-433 Foam Box Client Cooler Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN# IR-8 (CF **-0.3** °C) Observed Cooler Temp. 4.8 °C Corrected Cooler Temp. 4.5 °C

IR GUN #36 (CF **+0.8**°C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 (Yes) No
   -Were custody seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Was/were the person(s) who collected the samples clearly identified on the COC? (Yes) No
7. Did all bottles arrive in good condition (Unbroken)? (Yes) No
8. Could all bottle labels be reconciled with the COC? (Yes) No
9. Were correct bottle(s) used for the test(s) indicated? (Yes) No
10. Sufficient quantity received to perform indicated analyses? Yes (No)
11. Are these work share samples? Yes (No)
    If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? Yes No (NA) pH Strip Lot# **HC682547**
12. Were VOAs on the COC? (Yes) No
13. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this. Yes (No) NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #B630201VB (Yes) No
15. Was a LL Hg or Me Hg trip blank present? Yes (No)

Contacted PM ____ Date ____ by ____ via Verbal Voice Mail Other

Concerning ____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.

Sample(s) ____ were received in a broken container.

Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in the laboratory.

Time preserved: ____ Preservative(s) added/Lot number(s): ____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-82241-1
Client Project/Site: 17302-T07, RACER Delphi Anderson

For:
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko

Denise D Heckler

Authorized for release by:
7/20/2017 12:59:55 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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.

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-82241-1

Qualifiers

GC/MS 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.
U	Indicates the analyte was analyzed for but not detected.

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	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)

Case Narrative

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-82241-1

Job ID: 240-82241-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-82241-1

Comments
No additional comments.

Receipt
The samples were received on 7/13/2017 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.5º C.

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

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

Method Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-82241-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN

Protocol References:

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

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-82241-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-82241-1	SW-071217-TP-001	Water	07/12/17 10:15	07/13/17 08:00
240-82241-2	SW-071217-TP-002	Water	07/12/17 10:27	07/13/17 08:00
240-82241-3	SW-071217-TP-003	Water	07/12/17 10:29	07/13/17 08:00
240-82241-4	TB-071217-TP-001	Water	07/12/17 10:31	07/13/17 08:00

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-82241-1

Client Sample ID: SW-071217-TP-001 — Lab Sample ID: 240-82241-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.92	J	4.0	0.92	ug/L	4		8260B	Total/NA
1,1-Dichloroethane	5.9		4.0	1.0	ug/L	4		8260B	Total/NA
cis-1,2-Dichloroethene	110		4.0	1.2	ug/L	4		8260B	Total/NA
trans-1,2-Dichloroethene	4.3		4.0	1.2	ug/L	4		8260B	Total/NA
Trichloroethene	7.3		4.0	1.3	ug/L	4		8260B	Total/NA
Vinyl chloride	5.1		4.0	1.8	ug/L	4		8260B	Total/NA

Client Sample ID: SW-071217-TP-002 — Lab Sample ID: 240-82241-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.94	J	3.3	0.77	ug/L	3.33		8260B	Total/NA
1,1-Dichloroethane	5.9		3.3	0.83	ug/L	3.33		8260B	Total/NA
cis-1,2-Dichloroethene	110		3.3	1.0	ug/L	3.33		8260B	Total/NA
trans-1,2-Dichloroethene	4.1		3.3	0.97	ug/L	3.33		8260B	Total/NA
Trichloroethene	7.1		3.3	1.1	ug/L	3.33		8260B	Total/NA
Vinyl chloride	5.3		3.3	1.5	ug/L	3.33		8260B	Total/NA

Client Sample ID: SW-071217-TP-003 — Lab Sample ID: 240-82241-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.95	J	3.3	0.77	ug/L	3.33		8260B	Total/NA
1,1-Dichloroethane	5.7		3.3	0.83	ug/L	3.33		8260B	Total/NA
cis-1,2-Dichloroethene	100		3.3	1.0	ug/L	3.33		8260B	Total/NA
trans-1,2-Dichloroethene	4.0		3.3	0.97	ug/L	3.33		8260B	Total/NA
Trichloroethene	7.3		3.3	1.1	ug/L	3.33		8260B	Total/NA
Vinyl chloride	5.2		3.3	1.5	ug/L	3.33		8260B	Total/NA

Client Sample ID: TB-071217-TP-001 — Lab Sample ID: 240-82241-4

No Detections.

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: SW-071217-TP-001
Date Collected: 07/12/17 10:15
Date Received: 07/13/17 08:00

Lab Sample ID: 240-82241-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.92**	**J**	4.0	0.92	ug/L			07/19/17 12:47	4
1,1,2,2-Tetrachloroethane	4.0	U	4.0	1.3	ug/L			07/19/17 12:47	4
1,1,2-Trichloroethane	4.0	U	4.0	1.4	ug/L			07/19/17 12:47	4
1,1-Dichloroethane	**5.9**		4.0	1.0	ug/L			07/19/17 12:47	4
1,1-Dichloroethene	4.0	U	4.0	1.1	ug/L			07/19/17 12:47	4
1,2-Dichloroethane	4.0	U	4.0	1.2	ug/L			07/19/17 12:47	4
1,2-Dichloropropane	4.0	U	4.0	1.2	ug/L			07/19/17 12:47	4
2-Hexanone	40	U	40	4.9	ug/L			07/19/17 12:47	4
Acetone	40	U	40	7.0	ug/L			07/19/17 12:47	4
Benzene	4.0	U	4.0	1.1	ug/L			07/19/17 12:47	4
Bromoform	4.0	U	4.0	1.7	ug/L			07/19/17 12:47	4
Bromomethane	4.0	U	4.0	1.7	ug/L			07/19/17 12:47	4
Carbon disulfide	4.0	U	4.0	1.4	ug/L			07/19/17 12:47	4
Carbon tetrachloride	4.0	U	4.0	1.4	ug/L			07/19/17 12:47	4
Chlorobenzene	4.0	U	4.0	1.3	ug/L			07/19/17 12:47	4
Chloroethane	4.0	U	4.0	1.6	ug/L			07/19/17 12:47	4
Chloroform	4.0	U	4.0	1.2	ug/L			07/19/17 12:47	4
Chloromethane	4.0	U	4.0	1.7	ug/L			07/19/17 12:47	4
cis-1,2-Dichloroethene	**110**		4.0	1.2	ug/L			07/19/17 12:47	4
cis-1,3-Dichloropropene	4.0	U	4.0	1.0	ug/L			07/19/17 12:47	4
Dichlorobromomethane	4.0	U	4.0	1.2	ug/L			07/19/17 12:47	4
Ethylbenzene	4.0	U	4.0	1.0	ug/L			07/19/17 12:47	4
2-Butanone (MEK)	40	U	40	4.1	ug/L			07/19/17 12:47	4
4-Methyl-2-pentanone (MIBK)	40	U	40	2.8	ug/L			07/19/17 12:47	4
Methylene Chloride	4.0	U	4.0	2.1	ug/L			07/19/17 12:47	4
Styrene	4.0	U	4.0	0.92	ug/L			07/19/17 12:47	4
Tetrachloroethene	4.0	U	4.0	1.2	ug/L			07/19/17 12:47	4
Toluene	4.0	U	4.0	0.92	ug/L			07/19/17 12:47	4
trans-1,2-Dichloroethene	**4.3**		4.0	1.2	ug/L			07/19/17 12:47	4
trans-1,3-Dichloropropene	4.0	U	4.0	1.2	ug/L			07/19/17 12:47	4
Trichloroethene	**7.3**		4.0	1.3	ug/L			07/19/17 12:47	4
Vinyl chloride	**5.1**		4.0	1.8	ug/L			07/19/17 12:47	4
Xylenes, Total	8.0	U	8.0	0.96	ug/L			07/19/17 12:47	4
Chlorodibromomethane	4.0	U	4.0	1.0	ug/L			07/19/17 12:47	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*61 - 138*		*07/19/17 12:47*	*4*
4-Bromofluorobenzene (Surr)	*87*		*69 - 120*		*07/19/17 12:47*	*4*
Toluene-d8 (Surr)	*92*		*73 - 120*		*07/19/17 12:47*	*4*
Dibromofluoromethane (Surr)	*100*		*69 - 124*		*07/19/17 12:47*	*4*

Client Sample ID: SW-071217-TP-002
Date Collected: 07/12/17 10:27
Date Received: 07/13/17 08:00

Lab Sample ID: 240-82241-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.94**	**J**	3.3	0.77	ug/L			07/19/17 14:20	3.33
1,1,2,2-Tetrachloroethane	3.3	U	3.3	1.1	ug/L			07/19/17 14:20	3.33
1,1,2-Trichloroethane	3.3	U	3.3	1.1	ug/L			07/19/17 14:20	3.33
1,1-Dichloroethane	**5.9**		3.3	0.83	ug/L			07/19/17 14:20	3.33
1,1-Dichloroethene	3.3	U	3.3	0.90	ug/L			07/19/17 14:20	3.33

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

Client Sample ID: SW-071217-TP-002
Date Collected: 07/12/17 10:27
Date Received: 07/13/17 08:00

Lab Sample ID: 240-82241-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	3.3	U	3.3	1.0	ug/L			07/19/17 14:20	3.33
1,2-Dichloropropane	3.3	U	3.3	1.0	ug/L			07/19/17 14:20	3.33
2-Hexanone	33	U	33	4.1	ug/L			07/19/17 14:20	3.33
Acetone	33	U	33	5.9	ug/L			07/19/17 14:20	3.33
Benzene	3.3	U	3.3	0.93	ug/L			07/19/17 14:20	3.33
Bromoform	3.3	U	3.3	1.4	ug/L			07/19/17 14:20	3.33
Bromomethane	3.3	U	3.3	1.4	ug/L			07/19/17 14:20	3.33
Carbon disulfide	3.3	U	3.3	1.1	ug/L			07/19/17 14:20	3.33
Carbon tetrachloride	3.3	U	3.3	1.2	ug/L			07/19/17 14:20	3.33
Chlorobenzene	3.3	U	3.3	1.1	ug/L			07/19/17 14:20	3.33
Chloroethane	3.3	U	3.3	1.4	ug/L			07/19/17 14:20	3.33
Chloroform	3.3	U	3.3	1.0	ug/L			07/19/17 14:20	3.33
Chloromethane	3.3	U	3.3	1.4	ug/L			07/19/17 14:20	3.33
cis-1,2-Dichloroethene	**110**		3.3	1.0	ug/L			07/19/17 14:20	3.33
cis-1,3-Dichloropropene	3.3	U	3.3	0.87	ug/L			07/19/17 14:20	3.33
Dichlorobromomethane	3.3	U	3.3	1.0	ug/L			07/19/17 14:20	3.33
Ethylbenzene	3.3	U	3.3	0.87	ug/L			07/19/17 14:20	3.33
2-Butanone (MEK)	33	U	33	3.4	ug/L			07/19/17 14:20	3.33
4-Methyl-2-pentanone (MIBK)	33	U	33	2.4	ug/L			07/19/17 14:20	3.33
Methylene Chloride	3.3	U	3.3	1.8	ug/L			07/19/17 14:20	3.33
Styrene	3.3	U	3.3	0.77	ug/L			07/19/17 14:20	3.33
Tetrachloroethene	3.3	U	3.3	1.0	ug/L			07/19/17 14:20	3.33
Toluene	3.3	U	3.3	0.77	ug/L			07/19/17 14:20	3.33
trans-1,2-Dichloroethene	**4.1**		3.3	0.97	ug/L			07/19/17 14:20	3.33
trans-1,3-Dichloropropene	3.3	U	3.3	1.0	ug/L			07/19/17 14:20	3.33
Trichloroethene	**7.1**		3.3	1.1	ug/L			07/19/17 14:20	3.33
Vinyl chloride	**5.3**		3.3	1.5	ug/L			07/19/17 14:20	3.33
Xylenes, Total	6.7	U	6.7	0.80	ug/L			07/19/17 14:20	3.33
Chlorodibromomethane	3.3	U	3.3	0.83	ug/L			07/19/17 14:20	3.33

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*61 - 138*		*07/19/17 14:20*	*3.33*
4-Bromofluorobenzene (Surr)	*87*		*69 - 120*		*07/19/17 14:20*	*3.33*
Toluene-d8 (Surr)	*93*		*73 - 120*		*07/19/17 14:20*	*3.33*
Dibromofluoromethane (Surr)	*98*		*69 - 124*		*07/19/17 14:20*	*3.33*

Client Sample ID: SW-071217-TP-003
Date Collected: 07/12/17 10:29
Date Received: 07/13/17 08:00

Lab Sample ID: 240-82241-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.95**	**J**	3.3	0.77	ug/L			07/19/17 14:44	3.33
1,1,2,2-Tetrachloroethane	3.3	U	3.3	1.1	ug/L			07/19/17 14:44	3.33
1,1,2-Trichloroethane	3.3	U	3.3	1.1	ug/L			07/19/17 14:44	3.33
1,1-Dichloroethane	**5.7**		3.3	0.83	ug/L			07/19/17 14:44	3.33
1,1-Dichloroethene	3.3	U	3.3	0.90	ug/L			07/19/17 14:44	3.33
1,2-Dichloroethane	3.3	U	3.3	1.0	ug/L			07/19/17 14:44	3.33
1,2-Dichloropropane	3.3	U	3.3	1.0	ug/L			07/19/17 14:44	3.33
2-Hexanone	33	U	33	4.1	ug/L			07/19/17 14:44	3.33
Acetone	33	U	33	5.9	ug/L			07/19/17 14:44	3.33
Benzene	3.3	U	3.3	0.93	ug/L			07/19/17 14:44	3.33

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

Client Sample ID: SW-071217-TP-003
Date Collected: 07/12/17 10:29
Date Received: 07/13/17 08:00

Lab Sample ID: 240-82241-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	3.3	U	3.3	1.4	ug/L			07/19/17 14:44	3.33
Bromomethane	3.3	U	3.3	1.4	ug/L			07/19/17 14:44	3.33
Carbon disulfide	3.3	U	3.3	1.1	ug/L			07/19/17 14:44	3.33
Carbon tetrachloride	3.3	U	3.3	1.2	ug/L			07/19/17 14:44	3.33
Chlorobenzene	3.3	U	3.3	1.1	ug/L			07/19/17 14:44	3.33
Chloroethane	3.3	U	3.3	1.4	ug/L			07/19/17 14:44	3.33
Chloroform	3.3	U	3.3	1.0	ug/L			07/19/17 14:44	3.33
Chloromethane	3.3	U	3.3	1.4	ug/L			07/19/17 14:44	3.33
cis-1,2-Dichloroethene	**100**		3.3	1.0	ug/L			07/19/17 14:44	3.33
cis-1,3-Dichloropropene	3.3	U	3.3	0.87	ug/L			07/19/17 14:44	3.33
Dichlorobromomethane	3.3	U	3.3	1.0	ug/L			07/19/17 14:44	3.33
Ethylbenzene	3.3	U	3.3	0.87	ug/L			07/19/17 14:44	3.33
2-Butanone (MEK)	33	U	33	3.4	ug/L			07/19/17 14:44	3.33
4-Methyl-2-pentanone (MIBK)	33	U	33	2.4	ug/L			07/19/17 14:44	3.33
Methylene Chloride	3.3	U	3.3	1.8	ug/L			07/19/17 14:44	3.33
Styrene	3.3	U	3.3	0.77	ug/L			07/19/17 14:44	3.33
Tetrachloroethene	3.3	U	3.3	1.0	ug/L			07/19/17 14:44	3.33
Toluene	3.3	U	3.3	0.77	ug/L			07/19/17 14:44	3.33
trans-1,2-Dichloroethene	**4.0**		3.3	0.97	ug/L			07/19/17 14:44	3.33
trans-1,3-Dichloropropene	3.3	U	3.3	1.0	ug/L			07/19/17 14:44	3.33
Trichloroethene	**7.3**		3.3	1.1	ug/L			07/19/17 14:44	3.33
Vinyl chloride	**5.2**		3.3	1.5	ug/L			07/19/17 14:44	3.33
Xylenes, Total	6.7	U	6.7	0.80	ug/L			07/19/17 14:44	3.33
Chlorodibromomethane	3.3	U	3.3	0.83	ug/L			07/19/17 14:44	3.33

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*61 - 138*		*07/19/17 14:44*	*3.33*
4-Bromofluorobenzene (Surr)	*85*		*69 - 120*		*07/19/17 14:44*	*3.33*
Toluene-d8 (Surr)	*91*		*73 - 120*		*07/19/17 14:44*	*3.33*
Dibromofluoromethane (Surr)	*98*		*69 - 124*		*07/19/17 14:44*	*3.33*

Client Sample ID: TB-071217-TP-001
Date Collected: 07/12/17 10:31
Date Received: 07/13/17 08:00

Lab Sample ID: 240-82241-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			07/19/17 15:07	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			07/19/17 15:07	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			07/19/17 15:07	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			07/19/17 15:07	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			07/19/17 15:07	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			07/19/17 15:07	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			07/19/17 15:07	1
2-Hexanone	10	U	10	1.2	ug/L			07/19/17 15:07	1
Acetone	10	U	10	1.8	ug/L			07/19/17 15:07	1
Benzene	1.0	U	1.0	0.28	ug/L			07/19/17 15:07	1
Bromoform	1.0	U	1.0	0.43	ug/L			07/19/17 15:07	1
Bromomethane	1.0	U	1.0	0.42	ug/L			07/19/17 15:07	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			07/19/17 15:07	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			07/19/17 15:07	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			07/19/17 15:07	1

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

Client Sample ID: TB-071217-TP-001
Date Collected: 07/12/17 10:31
Date Received: 07/13/17 08:00

Lab Sample ID: 240-82241-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0	0.41	ug/L			07/19/17 15:07	1
Chloroform	1.0	U	1.0	0.31	ug/L			07/19/17 15:07	1
Chloromethane	1.0	U	1.0	0.43	ug/L			07/19/17 15:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			07/19/17 15:07	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			07/19/17 15:07	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			07/19/17 15:07	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			07/19/17 15:07	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			07/19/17 15:07	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			07/19/17 15:07	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			07/19/17 15:07	1
Styrene	1.0	U	1.0	0.23	ug/L			07/19/17 15:07	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			07/19/17 15:07	1
Toluene	1.0	U	1.0	0.23	ug/L			07/19/17 15:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			07/19/17 15:07	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			07/19/17 15:07	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			07/19/17 15:07	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			07/19/17 15:07	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			07/19/17 15:07	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			07/19/17 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*61 - 138*		*07/19/17 15:07*	*1*
4-Bromofluorobenzene (Surr)	*83*		*69 - 120*		*07/19/17 15:07*	*1*
Toluene-d8 (Surr)	*91*		*73 - 120*		*07/19/17 15:07*	*1*
Dibromofluoromethane (Surr)	*98*		*69 - 124*		*07/19/17 15:07*	*1*

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-82241-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(61-138)	(69-120)	(73-120)	(69-124)
240-82241-1	SW-071217-TP-001	98	87	92	100
240-82241-1 MS	SW-071217-TP-001	90	98	101	94
240-82241-1 MSD	SW-071217-TP-001	90	95	97	96
240-82241-2	SW-071217-TP-002	96	87	93	98
240-82241-3	SW-071217-TP-003	97	85	91	98
240-82241-4	TB-071217-TP-001	100	83	91	98
LCS 240-287800/4	Lab Control Sample	91	93	95	92
MB 240-287800/6	Method Blank	100	87	93	98

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Lab Sample ID: MB 240-287800/6
Matrix: Water
Analysis Batch: 287800

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-Trichloroethane	1.0	U	1.0	0.23	ug/L			07/19/17 12:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			07/19/17 12:00	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			07/19/17 12:00	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			07/19/17 12:00	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			07/19/17 12:00	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			07/19/17 12:00	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			07/19/17 12:00	1
2-Hexanone	10	U	10	1.2	ug/L			07/19/17 12:00	1
Acetone	10	U	10	1.8	ug/L			07/19/17 12:00	1
Benzene	1.0	U	1.0	0.28	ug/L			07/19/17 12:00	1
Bromoform	1.0	U	1.0	0.43	ug/L			07/19/17 12:00	1
Bromomethane	1.0	U	1.0	0.42	ug/L			07/19/17 12:00	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			07/19/17 12:00	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			07/19/17 12:00	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			07/19/17 12:00	1
Chloroethane	1.0	U	1.0	0.41	ug/L			07/19/17 12:00	1
Chloroform	1.0	U	1.0	0.31	ug/L			07/19/17 12:00	1
Chloromethane	1.0	U	1.0	0.43	ug/L			07/19/17 12:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			07/19/17 12:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			07/19/17 12:00	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			07/19/17 12:00	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			07/19/17 12:00	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			07/19/17 12:00	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			07/19/17 12:00	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			07/19/17 12:00	1
Styrene	1.0	U	1.0	0.23	ug/L			07/19/17 12:00	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			07/19/17 12:00	1
Toluene	1.0	U	1.0	0.23	ug/L			07/19/17 12:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			07/19/17 12:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			07/19/17 12:00	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			07/19/17 12:00	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			07/19/17 12:00	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			07/19/17 12:00	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			07/19/17 12:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*61 - 138*		*07/19/17 12:00*	*1*
4-Bromofluorobenzene (Surr)	*87*		*69 - 120*		*07/19/17 12:00*	*1*
Toluene-d8 (Surr)	*93*		*73 - 120*		*07/19/17 12:00*	*1*
Dibromofluoromethane (Surr)	*98*		*69 - 124*		*07/19/17 12:00*	*1*

Lab Sample ID: LCS 240-287800/4
Matrix: Water
Analysis Batch: 287800

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			10.0	10.6		ug/L		106	64 - 147		
1,1,2,2-Tetrachloroethane			10.0	11.0		ug/L		110	58 - 122		

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

Lab Sample ID: LCS 240-287800/4
Matrix: Water
Analysis Batch: 287800

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	10.0	11.1		ug/L		111	76 - 121
1,1-Dichloroethane	10.0	9.70		ug/L		97	74 - 120
1,1-Dichloroethene	10.0	10.8		ug/L		108	65 - 127
1,2-Dichloroethane	10.0	10.4		ug/L		104	68 - 133
1,2-Dichloropropane	10.0	10.1		ug/L		101	78 - 127
2-Hexanone	20.0	18.4		ug/L		92	28 - 169
Acetone	20.0	18.9		ug/L		94	35 - 131
Benzene	10.0	10.6		ug/L		106	79 - 120
Bromoform	10.0	9.94		ug/L		99	55 - 145
Bromomethane	10.0	9.01		ug/L		90	17 - 158
Carbon disulfide	10.0	12.2		ug/L		122	49 - 141
Carbon tetrachloride	10.0	11.8		ug/L		118	55 - 171
Chlorobenzene	10.0	10.6		ug/L		106	80 - 120
Chloroethane	10.0	6.22		ug/L		62	10 - 149
Chloroform	10.0	10.4		ug/L		104	80 - 120
Chloromethane	10.0	8.12		ug/L		81	59 - 124
cis-1,2-Dichloroethene	10.0	10.3		ug/L		103	77 - 120
cis-1,3-Dichloropropene	10.0	9.84		ug/L		98	75 - 120
Dichlorobromomethane	10.0	11.1		ug/L		111	79 - 125
Ethylbenzene	10.0	10.4		ug/L		104	80 - 120
m-Xylene & p-Xylene	10.0	10.5		ug/L		105	80 - 120
2-Butanone (MEK)	20.0	22.8		ug/L		114	43 - 149
4-Methyl-2-pentanone (MIBK)	20.0	16.6		ug/L		83	53 - 144
Methylene Chloride	10.0	11.3		ug/L		113	64 - 140
o-Xylene	10.0	10.1		ug/L		101	80 - 120
Styrene	10.0	10.7		ug/L		107	80 - 121
Tetrachloroethene	10.0	9.78		ug/L		98	80 - 122
Toluene	10.0	10.9		ug/L		109	78 - 120
trans-1,2-Dichloroethene	10.0	11.3		ug/L		113	74 - 124
trans-1,3-Dichloropropene	10.0	9.60		ug/L		96	67 - 120
Trichloroethene	10.0	10.0		ug/L		100	76 - 124
Vinyl chloride	10.0	9.17		ug/L		92	65 - 124
Xylenes, Total	20.0	20.6		ug/L		103	80 - 120
Chlorodibromomethane	10.0	11.1		ug/L		111	64 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*61 - 138*
4-Bromofluorobenzene (Surr)	*93*		*69 - 120*
Toluene-d8 (Surr)	*95*		*73 - 120*
Dibromofluoromethane (Surr)	*92*		*69 - 124*

Lab Sample ID: 240-82241-1 MS
Matrix: Water
Analysis Batch: 287800

Client Sample ID: SW-071217-TP-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.92	J	40.0	42.5		ug/L		106	57 - 156
1,1,2,2-Tetrachloroethane	4.0	U	40.0	46.8		ug/L		117	51 - 123

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

Lab Sample ID: 240-82241-1 MS
Matrix: Water
Analysis Batch: 287800

Client Sample ID: SW-071217-TP-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	4.0	U	40.0	49.1		ug/L		123	68 - 127
1,1-Dichloroethane	5.9		40.0	46.4		ug/L		101	69 - 122
1,1-Dichloroethene	4.0	U	40.0	40.2		ug/L		100	62 - 127
1,2-Dichloroethane	4.0	U	40.0	41.3		ug/L		103	64 - 138
1,2-Dichloropropane	4.0	U	40.0	39.3		ug/L		98	72 - 131
2-Hexanone	40	U	80.0	74.5		ug/L		93	21 - 184
Acetone	40	U	80.0	55.2		ug/L		69	19 - 133
Benzene	4.0	U	40.0	42.6		ug/L		107	69 - 127
Bromoform	4.0	U	40.0	40.3		ug/L		101	61 - 135
Bromomethane	4.0	U	40.0	37.5		ug/L		94	10 - 148
Carbon disulfide	4.0	U	40.0	46.6		ug/L		117	46 - 143
Carbon tetrachloride	4.0	U	40.0	47.2		ug/L		118	53 - 175
Chlorobenzene	4.0	U	40.0	43.6		ug/L		109	76 - 120
Chloroethane	4.0	U	40.0	25.8		ug/L		64	10 - 141
Chloroform	4.0	U	40.0	43.5		ug/L		109	74 - 125
Chloromethane	4.0	U	40.0	33.4		ug/L		84	34 - 127
cis-1,2-Dichloroethene	110		40.0	152		ug/L		114	69 - 127
cis-1,3-Dichloropropene	4.0	U	40.0	34.6		ug/L		86	68 - 120
Dichlorobromomethane	4.0	U	40.0	45.0		ug/L		113	75 - 128
Ethylbenzene	4.0	U	40.0	42.9		ug/L		107	72 - 121
m-Xylene & p-Xylene	8.0	U	40.0	42.7		ug/L		107	70 - 121
2-Butanone (MEK)	40	U	80.0	80.3		ug/L		100	34 - 153
4-Methyl-2-pentanone (MIBK)	40	U	80.0	61.2		ug/L		76	53 - 147
Methylene Chloride	4.0	U	40.0	46.6		ug/L		116	52 - 137
o-Xylene	4.0	U	40.0	41.5		ug/L		104	71 - 125
Styrene	4.0	U	40.0	43.5		ug/L		109	74 - 125
Tetrachloroethene	4.0	U	40.0	40.1		ug/L		100	69 - 126
Toluene	4.0	U	40.0	45.8		ug/L		114	69 - 125
trans-1,2-Dichloroethene	4.3		40.0	51.1		ug/L		117	66 - 131
trans-1,3-Dichloropropene	4.0	U	40.0	37.9		ug/L		95	59 - 120
Trichloroethene	7.3		40.0	46.8		ug/L		99	68 - 129
Vinyl chloride	5.1		40.0	43.2		ug/L		95	55 - 123
Xylenes, Total	8.0	U	80.0	84.2		ug/L		105	71 - 122
Chlorodibromomethane	4.0	U	40.0	47.9		ug/L		120	62 - 131

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*61 - 138*
4-Bromofluorobenzene (Surr)	*98*		*69 - 120*
Toluene-d8 (Surr)	*101*		*73 - 120*
Dibromofluoromethane (Surr)	*94*		*69 - 124*

Lab Sample ID: 240-82241-1 MSD
Matrix: Water
Analysis Batch: 287800

Client Sample ID: SW-071217-TP-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.92	J	40.0	43.3		ug/L		108	57 - 156	2	13
1,1,2,2-Tetrachloroethane	4.0	U	40.0	47.9		ug/L		120	51 - 123	2	17

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

Lab Sample ID: 240-82241-1 MSD
Matrix: Water
Analysis Batch: 287800

Client Sample ID: SW-071217-TP-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane	4.0	U	40.0	47.8		ug/L		119	68 - 127	3	11
1,1-Dichloroethane	5.9		40.0	47.0		ug/L		103	69 - 122	1	11
1,1-Dichloroethene	4.0	U	40.0	46.2		ug/L		116	62 - 127	14	14
1,2-Dichloroethane	4.0	U	40.0	42.3		ug/L		106	64 - 138	2	11
1,2-Dichloropropane	4.0	U	40.0	40.0		ug/L		100	72 - 131	2	12
2-Hexanone	40	U	80.0	75.1		ug/L		94	21 - 184	1	12
Acetone	40	U	80.0	64.3		ug/L		80	19 - 133	15	35
Benzene	4.0	U	40.0	43.3		ug/L		108	69 - 127	1	10
Bromoform	4.0	U	40.0	39.7		ug/L		99	61 - 135	1	13
Bromomethane	4.0	U	40.0	36.7		ug/L		92	10 - 148	2	35
Carbon disulfide	4.0	U	40.0	51.7		ug/L		129	46 - 143	10	18
Carbon tetrachloride	4.0	U	40.0	48.1		ug/L		120	53 - 175	2	17
Chlorobenzene	4.0	U	40.0	43.5		ug/L		109	76 - 120	0	12
Chloroethane	4.0	U	40.0	22.2		ug/L		56	10 - 141	15	35
Chloroform	4.0	U	40.0	44.3		ug/L		111	74 - 125	2	11
Chloromethane	4.0	U	40.0	33.4		ug/L		84	34 - 127	0	25
cis-1,2-Dichloroethene	110		40.0	154		ug/L		119	69 - 127	1	11
cis-1,3-Dichloropropene	4.0	U	40.0	35.9		ug/L		90	68 - 120	4	13
Dichlorobromomethane	4.0	U	40.0	45.9		ug/L		115	75 - 128	2	13
Ethylbenzene	4.0	U	40.0	43.2		ug/L		108	72 - 121	1	15
m-Xylene & p-Xylene	8.0	U	40.0	43.0		ug/L		108	70 - 121	1	15
2-Butanone (MEK)	40	U	80.0	88.5		ug/L		111	34 - 153	10	23
4-Methyl-2-pentanone (MIBK)	40	U	80.0	63.1		ug/L		79	53 - 147	3	16
Methylene Chloride	4.0	U	40.0	48.2		ug/L		120	52 - 137	3	12
o-Xylene	4.0	U	40.0	41.5		ug/L		104	71 - 125	0	15
Styrene	4.0	U	40.0	43.4		ug/L		108	74 - 125	0	14
Tetrachloroethene	4.0	U	40.0	40.0		ug/L		100	69 - 126	0	18
Toluene	4.0	U	40.0	45.5		ug/L		114	69 - 125	1	14
trans-1,2-Dichloroethene	4.3		40.0	51.5		ug/L		118	66 - 131	1	11
trans-1,3-Dichloropropene	4.0	U	40.0	37.9		ug/L		95	59 - 120	0	14
Trichloroethene	7.3		40.0	48.8		ug/L		104	68 - 129	4	12
Vinyl chloride	5.1		40.0	42.7		ug/L		94	55 - 123	1	12
Xylenes, Total	8.0	U	80.0	84.5		ug/L		106	71 - 122	0	14
Chlorodibromomethane	4.0	U	40.0	46.4		ug/L		116	62 - 131	3	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*61 - 138*
4-Bromofluorobenzene (Surr)	*95*		*69 - 120*
Toluene-d8 (Surr)	*97*		*73 - 120*
Dibromofluoromethane (Surr)	*96*		*69 - 124*

QC Association Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-82241-1

GC/MS VOA

Analysis Batch: 287800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-82241-1	SW-071217-TP-001	Total/NA	Water	8260B	
240-82241-2	SW-071217-TP-002	Total/NA	Water	8260B	
240-82241-3	SW-071217-TP-003	Total/NA	Water	8260B	
240-82241-4	TB-071217-TP-001	Total/NA	Water	8260B	
MB 240-287800/6	Method Blank	Total/NA	Water	8260B	
LCS 240-287800/4	Lab Control Sample	Total/NA	Water	8260B	
240-82241-1 MS	SW-071217-TP-001	Total/NA	Water	8260B	
240-82241-1 MSD	SW-071217-TP-001	Total/NA	Water	8260B	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-82241-1

Client Sample ID: SW-071217-TP-001
Lab Sample ID: 240-82241-1
Date Collected: 07/12/17 10:15
Matrix: Water
Date Received: 07/13/17 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	287800	07/19/17 12:47	LRW	TAL CAN

Client Sample ID: SW-071217-TP-002
Lab Sample ID: 240-82241-2
Date Collected: 07/12/17 10:27
Matrix: Water
Date Received: 07/13/17 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		3.33	287800	07/19/17 14:20	LRW	TAL CAN

Client Sample ID: SW-071217-TP-003
Lab Sample ID: 240-82241-3
Date Collected: 07/12/17 10:29
Matrix: Water
Date Received: 07/13/17 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		3.33	287800	07/19/17 14:44	LRW	TAL CAN

Client Sample ID: TB-071217-TP-001
Lab Sample ID: 240-82241-4
Date Collected: 07/12/17 10:31
Matrix: Water
Date Received: 07/13/17 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	287800	07/19/17 15:07	LRW	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: GHD Services Inc. TestAmerica Job ID: 240-82241-1
Project/Site: 17302-T07, RACER Delphi Anderson

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-17 *
Kansas	NELAP	7	E-10336	01-31-18
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17
Minnesota	NELAP	5	039-999-348	12-31-17
Minnesota (Petrofund)	State Program	1	3506	07-31-17 *
Nevada	State Program	9	OH-000482008A	07-31-17 *
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-14-17 *
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-17 *
Texas	NELAP	6	T104704517-15-5	08-31-17 *
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-17 *
Washington	State Program	10	C971	01-12-18
West Virginia DEP	State Program	3	210	12-31-17
Wisconsin	State Program	5	999518190	08-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

CHAIN OF CUSTODY RECORD

COC NO.: IN- 14190

PAGE ___ OF ___

(See Reverse Side for Instructions)

CONESTOGA-ROVERS & ASSOCIATES
6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

1.5/C1.5

Project No/ Phase/Task Code: 017302-T07	Laboratory Name: Test America	Lab Location: North Canton, OH	SSOW ID: 17302-T07
Project Name: RACER	Lab Contact: Denise Heckler	Lab Quote No:	Cooler No: 1/1
Project Location: Anderson, IN			Carrier: FedEx
Chemistry Contact: Deborah Andrasko			Airbill No: 6388 2993 2446
Sampler(s): Tim Pranger + Brynn Kinecker			Date Shipped: 7/12/17

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd//yy)	Time (hh:mm)	Sample Type: Matrix Code (see back of COC)	Sample Type: Grab (G) or Comp (C)	Container Quantity & Preservation: Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	Analysis Requested (See Back of COC for Definitions): VOCs	MS/MSD Request	Comments/ Special Instructions:
1	SW-071217-TP-001	07/12/17	10:15				9							9	✓	✓	
2	SW-071217-TP-002	07/12/17	10:27				3							3	✓		
3	SW-071217-TP-003	07/12/17	10:29				3							3	✓		
4	TB-071217-TP-001	07/12/17	10:31				1							1	✓		
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

240-82241 Chain of Custody

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☑ 2 Week ☐ Other:

Total Number of Containers: 16

All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1. Brynn Kinecker	GHD	07/12/17	12:00	1.	TAC	07/13/17	800
				2.			
				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 82241**

Canton Facility

Client GHD Site Name Racer Cooler unpacked by: PSO

Cooler Received on 07/13/17 Opened on 07/13/17

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN# IR-8 (CF **-0.4** °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

IR GUN #36 (CF **+0**°C) Observed Cooler Temp. 1.5 °C Corrected Cooler Temp. 1.5 °C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes	No
-Were custody seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels be reconciled with the COC?	Yes	No
9. Were correct bottle(s) used for the test(s) indicated?	Yes	No
10. Sufficient quantity received to perform indicated analyses?	Yes	No
11. Are these work share samples?	Yes	No
If yes, Questions 11-15 have been checked at the originating laboratory.		
11. Were sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# **HC697954**
12. Were VOAs on the COC?	Yes	No
13. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No
15. Was a LL Hg or Me Hg trip blank present?	Yes	No

Contacted PM Date by via Verbal Voice Mail Other

Concerning

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

17. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container.

Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.

Time preserved: Preservative(s) added/Lot number(s):

Ref: SOP NC-SC-0005, Sample Receiving

\\tacorp\corp\QA\QA_Facilities\Canton-QA\Document-Management\Work-Instruction\Word Version Work Instructions\WI-NC-099-052317 Cooler Receipt Form.doc djl

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-86272-1
Client Project/Site: 17302-T07, RACER Delphi Anderson

For:
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko

Authorized for release by:
10/25/2017 3:19:10 PM
Leslie Howell, Project Manager I
leslie.howell@testamericainc.com

Designee for

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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.

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Qualifiers

GC 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.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
B	Compound was found in the blank and sample.
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	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)

Case Narrative

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-86272-1

Job ID: 240-86272-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-86272-1

Comments
No additional comments.

Receipt
The samples were received on 10/11/2017 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.8º C.

GC VOA
Method(s) RSK-175: The associated RSK samples were analyzed following the requirements of a revised RSK SOP. Samples were analyzed to avoid hold time violations while the SOP is still waiting final approval signatures. The following samples are impacted: GW-101017-BE-009 (240-86272-9), GW-101017-BE-010 (240-86272-10), GW-101017-BE-011 (240-86272-11), GW-101017-BE-012 (240-86272-12), (CCV 240-299772/19), (CCV 240-299772/25), (CCVRT 240-299772/3), (LCS 240-299772/5), (LCSD 240-299772/6) and (MB 240-299772/4).

Method(s) RSK-175: The RL for Ethane is 0.50 ug/L and the low point of the calibration is 0.53 ug/L. Under the revised SOP, the RL for all compounds is 1.0 ug/L. Data is qualified and reported. The following samples are impacted: GW-101017-BE-009 (240-86272-9), GW-101017-BE-010 (240-86272-10), GW-101017-BE-011 (240-86272-11) and GW-101017-BE-012 (240-86272-12).

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.

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

Method Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-86272-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
2320B-1997	Alkalinity, Total	SM	TAL CAN
2340C-1997	Hardness, Total	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL CAN
9060	Organic Carbon, Dissolved (DOC)	SW846	TAL CAN
9060	Organic Carbon, Total (TOC)	SW846	TAL CAN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-86272-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-86272-9	GW-101017-BE-009	Water	10/10/17 12:55	10/11/17 09:15
240-86272-10	GW-101017-BE-010	Water	10/10/17 15:20	10/11/17 09:15
240-86272-11	GW-101017-BE-011	Water	10/10/17 15:24	10/11/17 09:15
240-86272-12	GW-101017-BE-012	Water	10/10/17 17:07	10/11/17 09:15

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-86272-1

Client Sample ID: GW-101017-BE-009 — Lab Sample ID: 240-86272-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	0.43	J	0.50	0.080	ug/L	1		RSK-175	Total/NA
Ethylene	0.26	J	0.50	0.13	ug/L	1		RSK-175	Total/NA
Manganese	200		15	5.1	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	270		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	400		25	12	mg/L	1		2340C-1997	Total/NA
Chloride	48		1.0	0.28	mg/L	1		300.0	Total/NA
Sulfate	79		1.0	0.35	mg/L	1		300.0	Total/NA
Total Organic Carbon	1.9		1.0	0.14	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	2.0		1.0	0.14	mg/L	1		9060	Dissolved

Client Sample ID: GW-101017-BE-010 — Lab Sample ID: 240-86272-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	30		0.50	0.080	ug/L	1		RSK-175	Total/NA
Ethane	0.33	J	0.50	0.14	ug/L	1		RSK-175	Total/NA
Ethylene	3.8		0.50	0.13	ug/L	1		RSK-175	Total/NA
Manganese	110		15	5.1	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	320	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	11		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	460		25	12	mg/L	1		2340C-1997	Total/NA
Chloride	43		1.0	0.28	mg/L	1		300.0	Total/NA
Sulfate	70		1.0	0.35	mg/L	1		300.0	Total/NA
Total Organic Carbon	1.3		1.0	0.14	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	1.3		1.0	0.14	mg/L	1		9060	Dissolved

Client Sample ID: GW-101017-BE-011 — Lab Sample ID: 240-86272-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	36		0.50	0.080	ug/L	1		RSK-175	Total/NA
Ethane	0.34	J	0.50	0.14	ug/L	1		RSK-175	Total/NA
Ethylene	4.2		0.50	0.13	ug/L	1		RSK-175	Total/NA
Manganese	110		15	5.1	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	320	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	8.3		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	470		25	12	mg/L	1		2340C-1997	Total/NA
Chloride	42		1.0	0.28	mg/L	1		300.0	Total/NA
Sulfate	70		1.0	0.35	mg/L	1		300.0	Total/NA
Total Organic Carbon	1.3		1.0	0.14	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	1.3		1.0	0.14	mg/L	1		9060	Dissolved

Client Sample ID: GW-101017-BE-012 — Lab Sample ID: 240-86272-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	6.5		0.50	0.080	ug/L	1		RSK-175	Total/NA
Manganese	230		15	5.1	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	250		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	390		25	12	mg/L	1		2340C-1997	Total/NA
Chloride	47		1.0	0.28	mg/L	1		300.0	Total/NA
Sulfate	71		1.0	0.35	mg/L	1		300.0	Total/NA
Total Organic Carbon	1.1		1.0	0.14	mg/L	1		9060	Total/NA

This Detection Summary does not include radiochemical test results.

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-86272-1

Client Sample ID: GW-101017-BE-012 (Continued)

Lab Sample ID: 240-86272-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Organic Carbon	1.1		1.0	0.14	mg/L	1		9060	Dissolved

This Detection Summary does not include radiochemical test results.

Method: RSK-175 - Dissolved Gases (GC)

Client Sample ID: GW-101017-BE-009
Date Collected: 10/10/17 12:55
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**0.43**	**J**	0.50	0.080	ug/L			10/19/17 19:03	1
Ethane	0.50	U	0.50	0.14	ug/L			10/19/17 19:03	1
Ethylene	**0.26**	**J**	0.50	0.13	ug/L			10/19/17 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*85*		*76 - 121*		*10/19/17 19:03*	*1*

Client Sample ID: GW-101017-BE-010
Date Collected: 10/10/17 15:20
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**30**		0.50	0.080	ug/L			10/19/17 19:20	1
Ethane	**0.33**	**J**	0.50	0.14	ug/L			10/19/17 19:20	1
Ethylene	**3.8**		0.50	0.13	ug/L			10/19/17 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*85*		*76 - 121*		*10/19/17 19:20*	*1*

Client Sample ID: GW-101017-BE-011
Date Collected: 10/10/17 15:24
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**36**		0.50	0.080	ug/L			10/19/17 19:38	1
Ethane	**0.34**	**J**	0.50	0.14	ug/L			10/19/17 19:38	1
Ethylene	**4.2**		0.50	0.13	ug/L			10/19/17 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*86*		*76 - 121*		*10/19/17 19:38*	*1*

Client Sample ID: GW-101017-BE-012
Date Collected: 10/10/17 17:07
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**6.5**		0.50	0.080	ug/L			10/19/17 19:55	1
Ethane	0.50	U	0.50	0.14	ug/L			10/19/17 19:55	1
Ethylene	0.50	U	0.50	0.13	ug/L			10/19/17 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*84*		*76 - 121*		*10/19/17 19:55*	*1*

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-86272-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-101017-BE-009
Date Collected: 10/10/17 12:55
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	200		15	5.1	ug/L		10/16/17 14:00	10/18/17 03:06	1

Client Sample ID: GW-101017-BE-010
Date Collected: 10/10/17 15:20
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	110		15	5.1	ug/L		10/16/17 14:00	10/18/17 03:11	1

Client Sample ID: GW-101017-BE-011
Date Collected: 10/10/17 15:24
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	110		15	5.1	ug/L		10/16/17 14:00	10/18/17 03:16	1

Client Sample ID: GW-101017-BE-012
Date Collected: 10/10/17 17:07
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	230		15	5.1	ug/L		10/16/17 14:00	10/18/17 03:20	1

General Chemistry

Client Sample ID: GW-101017-BE-009
Date Collected: 10/10/17 12:55
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**270**		5.0	2.6	mg/L			10/16/17 13:15	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/16/17 13:15	1
Hardness as calcium carbonate	**400**		25	12	mg/L			10/16/17 16:45	1
Chloride	**48**		1.0	0.28	mg/L			10/11/17 18:54	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/11/17 18:54	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/11/17 18:54	1
Sulfate	**79**		1.0	0.35	mg/L			10/11/17 18:54	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/12/17 10:39	10/12/17 14:36	1
Total Organic Carbon	**1.9**		1.0	0.14	mg/L			10/14/17 01:03	1

Client Sample ID: GW-101017-BE-010
Date Collected: 10/10/17 15:20
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**320**	**B**	5.0	2.6	mg/L			10/13/17 18:45	1
Carbonate Alkalinity as CaCO3	**11**		5.0	2.6	mg/L			10/13/17 18:45	1
Hardness as calcium carbonate	**460**		25	12	mg/L			10/16/17 16:45	1
Chloride	**43**		1.0	0.28	mg/L			10/11/17 19:15	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/11/17 19:15	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/11/17 19:15	1
Sulfate	**70**		1.0	0.35	mg/L			10/11/17 19:15	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/12/17 10:39	10/12/17 14:36	1
Total Organic Carbon	**1.3**		1.0	0.14	mg/L			10/14/17 02:43	1

Client Sample ID: GW-101017-BE-011
Date Collected: 10/10/17 15:24
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**320**	**B**	5.0	2.6	mg/L			10/13/17 18:57	1
Carbonate Alkalinity as CaCO3	**8.3**		5.0	2.6	mg/L			10/13/17 18:57	1
Hardness as calcium carbonate	**470**		25	12	mg/L			10/16/17 16:45	1
Chloride	**42**		1.0	0.28	mg/L			10/11/17 19:36	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/11/17 19:36	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/11/17 19:36	1
Sulfate	**70**		1.0	0.35	mg/L			10/11/17 19:36	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/12/17 10:39	10/12/17 14:36	1
Total Organic Carbon	**1.3**		1.0	0.14	mg/L			10/14/17 03:10	1

Client Sample ID: GW-101017-BE-012
Date Collected: 10/10/17 17:07
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**250**		5.0	2.6	mg/L			10/16/17 12:52	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/16/17 12:52	1
Hardness as calcium carbonate	**390**		25	12	mg/L			10/16/17 16:47	1
Chloride	**47**		1.0	0.28	mg/L			10/11/17 19:57	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/11/17 19:57	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/11/17 19:57	1
Sulfate	**71**		1.0	0.35	mg/L			10/11/17 19:57	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/12/17 10:39	10/12/17 14:36	1

General Chemistry (Continued)

Client Sample ID: GW-101017-BE-012
Date Collected: 10/10/17 17:07
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.1		1.0	0.14	mg/L			10/14/17 03:55	1

General Chemistry - Dissolved

Client Sample ID: GW-101017-BE-009
Date Collected: 10/10/17 12:55
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	2.0		1.0	0.14	mg/L			10/17/17 09:19	1

Client Sample ID: GW-101017-BE-010
Date Collected: 10/10/17 15:20
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.3		1.0	0.14	mg/L			10/17/17 09:46	1

Client Sample ID: GW-101017-BE-011
Date Collected: 10/10/17 15:24
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.3		1.0	0.14	mg/L			10/17/17 10:13	1

Client Sample ID: GW-101017-BE-012
Date Collected: 10/10/17 17:07
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.1		1.0	0.14	mg/L			10/17/17 10:40	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-86272-1

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	rifluoroet (76-121)								
240-86272-9	GW-101017-BE-009	85								
240-86272-10	GW-101017-BE-010	85								
240-86272-11	GW-101017-BE-011	86								
240-86272-12	GW-101017-BE-012	84								
LCS 240-299772/5	Lab Control Sample	88								
LCSD 240-299772/6	Lab Control Sample Dup	88								
MB 240-299772/4	Method Blank	88								

Surrogate Legend

1,1,1-Trifluoroethane = 1,1,1-Trifluoroethane

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 240-299772/4
Matrix: Water
Analysis Batch: 299772

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.50	U	0.50	0.080	ug/L			10/19/17 14:13	1
Ethane	0.50	U	0.50	0.14	ug/L			10/19/17 14:13	1
Ethylene	0.50	U	0.50	0.13	ug/L			10/19/17 14:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*88*		*76 - 121*		*10/19/17 14:13*	*1*

Lab Sample ID: LCS 240-299772/5
Matrix: Water
Analysis Batch: 299772

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	285	305		ug/L		107	80 - 130
Ethane	536	624		ug/L		116	76 - 131
Ethylene	501	574		ug/L		115	79 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,1,1-Trifluoroethane	*88*		*76 - 121*

Lab Sample ID: LCSD 240-299772/6
Matrix: Water
Analysis Batch: 299772

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane	285	303		ug/L		106	80 - 130	1	35
Ethane	536	618		ug/L		115	76 - 131	1	35
Ethylene	501	571		ug/L		114	79 - 132	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,1,1-Trifluoroethane	*88*		*76 - 121*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-299225/1-A
Matrix: Water
Analysis Batch: 299409

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 299225

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	15	U	15	5.1	ug/L		10/16/17 14:00	10/18/17 02:05	1

Lab Sample ID: LCS 240-299225/2-A
Matrix: Water
Analysis Batch: 299409

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 299225

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	500	494		ug/L		99	80 - 120

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-299179/5
Matrix: Water
Analysis Batch: 299179

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	4.33	J	5.0	2.6	mg/L			10/13/17 15:35	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/13/17 15:35	1

Lab Sample ID: MB 240-299304/5
Matrix: Water
Analysis Batch: 299304

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/16/17 12:37	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/16/17 12:37	1

Lab Sample ID: 240-86272-12 DU
Matrix: Water
Analysis Batch: 299304

Client Sample ID: GW-101017-BE-012
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO3	250		259		mg/L		3	20
Carbonate Alkalinity as CaCO3	5.0	U	5.0	U	mg/L		NC	20

Method: 2340C-1997 - Hardness, Total

Lab Sample ID: MB 240-299266/1
Matrix: Water
Analysis Batch: 299266

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	5.0	U	5.0	2.4	mg/L			10/16/17 16:45	1

Lab Sample ID: LCS 240-299266/2
Matrix: Water
Analysis Batch: 299266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness as calcium carbonate	184	200		mg/L		109	90 - 110

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-298614/3
Matrix: Water
Analysis Batch: 298614

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.28	mg/L			10/11/17 14:03	1
Sulfate	1.0	U	1.0	0.35	mg/L			10/11/17 14:03	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 240-298614/4
Matrix: Water
Analysis Batch: 298614

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	52.0		mg/L		104	90 - 110
Sulfate	50.0	52.5		mg/L		105	90 - 110

Lab Sample ID: MB 240-298615/3
Matrix: Water
Analysis Batch: 298615

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/11/17 14:03	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/11/17 14:03	1

Lab Sample ID: LCS 240-298615/4
Matrix: Water
Analysis Batch: 298615

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	2.50	2.53		mg/L		101	90 - 110
Nitrate as N	2.50	2.66		mg/L		106	90 - 110

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-298746/1-A
Matrix: Water
Analysis Batch: 298807

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 298746

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	3.0	U	3.0	1.4	mg/L		10/12/17 10:39	10/12/17 14:36	1

Lab Sample ID: LCS 240-298746/2-A
Matrix: Water
Analysis Batch: 298807

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 298746

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	8.53	6.93		mg/L		81	70 - 120

Lab Sample ID: 240-86272-9 MS
Matrix: Water
Analysis Batch: 298807

Client Sample ID: GW-101017-BE-009
Prep Type: Total/NA
Prep Batch: 298746

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	3.0	U	8.53	6.53		mg/L		77	32 - 130

Lab Sample ID: 240-86272-9 MSD
Matrix: Water
Analysis Batch: 298807

Client Sample ID: GW-101017-BE-009
Prep Type: Total/NA
Prep Batch: 298746

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	3.0	U	8.53	6.93		mg/L		81	32 - 130	6	30

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 240-299098/37
Matrix: Water
Analysis Batch: 299098

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.14	mg/L			10/14/17 00:37	1

Lab Sample ID: LCS 240-299098/39
Matrix: Water
Analysis Batch: 299098

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	21.8	20.1		mg/L		92	80 - 120

Lab Sample ID: LLCS 240-299098/38
Matrix: Water
Analysis Batch: 299098

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	2.18	2.06		mg/L		95	88 - 115

Lab Sample ID: 240-86272-9 MS
Matrix: Water
Analysis Batch: 299098

Client Sample ID: GW-101017-BE-009
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	1.9		25.0	25.2		mg/L		93	65 - 134

Lab Sample ID: 240-86272-9 MSD
Matrix: Water
Analysis Batch: 299098

Client Sample ID: GW-101017-BE-009
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	1.9		25.0	25.0		mg/L		92	65 - 134	1	10

Method: 9060 - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 240-299497/4
Matrix: Water
Analysis Batch: 299497

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.0	U	1.0	0.14	mg/L			10/17/17 08:08	1

Lab Sample ID: LCS 240-299497/6
Matrix: Water
Analysis Batch: 299497

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	21.8	20.0		mg/L		92	80 - 120

Method: 9060 - Organic Carbon, Dissolved (DOC) (Continued)

Lab Sample ID: LLCS 240-299497/5
Matrix: Water
Analysis Batch: 299497

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	2.18	2.04		mg/L		93	88 - 115

QC Association Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-86272-1

GC VOA

Analysis Batch: 299772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86272-9	GW-101017-BE-009	Total/NA	Water	RSK-175	
240-86272-10	GW-101017-BE-010	Total/NA	Water	RSK-175	
240-86272-11	GW-101017-BE-011	Total/NA	Water	RSK-175	
240-86272-12	GW-101017-BE-012	Total/NA	Water	RSK-175	
MB 240-299772/4	Method Blank	Total/NA	Water	RSK-175	
LCS 240-299772/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 240-299772/6	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Metals

Prep Batch: 299225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86272-9	GW-101017-BE-009	Dissolved	Water	3005A	
240-86272-10	GW-101017-BE-010	Dissolved	Water	3005A	
240-86272-11	GW-101017-BE-011	Dissolved	Water	3005A	
240-86272-12	GW-101017-BE-012	Dissolved	Water	3005A	
MB 240-299225/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-299225/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 299409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86272-9	GW-101017-BE-009	Dissolved	Water	6010B	299225
240-86272-10	GW-101017-BE-010	Dissolved	Water	6010B	299225
240-86272-11	GW-101017-BE-011	Dissolved	Water	6010B	299225
240-86272-12	GW-101017-BE-012	Dissolved	Water	6010B	299225
MB 240-299225/1-A	Method Blank	Total Recoverable	Water	6010B	299225
LCS 240-299225/2-A	Lab Control Sample	Total Recoverable	Water	6010B	299225

General Chemistry

Analysis Batch: 298614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86272-9	GW-101017-BE-009	Total/NA	Water	300.0	
240-86272-10	GW-101017-BE-010	Total/NA	Water	300.0	
240-86272-11	GW-101017-BE-011	Total/NA	Water	300.0	
240-86272-12	GW-101017-BE-012	Total/NA	Water	300.0	
MB 240-298614/3	Method Blank	Total/NA	Water	300.0	
LCS 240-298614/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 298615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86272-9	GW-101017-BE-009	Total/NA	Water	300.0	
240-86272-10	GW-101017-BE-010	Total/NA	Water	300.0	
240-86272-11	GW-101017-BE-011	Total/NA	Water	300.0	
240-86272-12	GW-101017-BE-012	Total/NA	Water	300.0	
MB 240-298615/3	Method Blank	Total/NA	Water	300.0	
LCS 240-298615/4	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry (Continued)

Prep Batch: 298746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86272-9	GW-101017-BE-009	Total/NA	Water	9030B	
240-86272-10	GW-101017-BE-010	Total/NA	Water	9030B	
240-86272-11	GW-101017-BE-011	Total/NA	Water	9030B	
240-86272-12	GW-101017-BE-012	Total/NA	Water	9030B	
MB 240-298746/1-A	Method Blank	Total/NA	Water	9030B	
LCS 240-298746/2-A	Lab Control Sample	Total/NA	Water	9030B	
240-86272-9 MS	GW-101017-BE-009	Total/NA	Water	9030B	
240-86272-9 MSD	GW-101017-BE-009	Total/NA	Water	9030B	

Analysis Batch: 298807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86272-9	GW-101017-BE-009	Total/NA	Water	9034	298746
240-86272-10	GW-101017-BE-010	Total/NA	Water	9034	298746
240-86272-11	GW-101017-BE-011	Total/NA	Water	9034	298746
240-86272-12	GW-101017-BE-012	Total/NA	Water	9034	298746
MB 240-298746/1-A	Method Blank	Total/NA	Water	9034	298746
LCS 240-298746/2-A	Lab Control Sample	Total/NA	Water	9034	298746
240-86272-9 MS	GW-101017-BE-009	Total/NA	Water	9034	298746
240-86272-9 MSD	GW-101017-BE-009	Total/NA	Water	9034	298746

Analysis Batch: 299098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86272-9	GW-101017-BE-009	Total/NA	Water	9060	
240-86272-10	GW-101017-BE-010	Total/NA	Water	9060	
240-86272-11	GW-101017-BE-011	Total/NA	Water	9060	
240-86272-12	GW-101017-BE-012	Total/NA	Water	9060	
MB 240-299098/37	Method Blank	Total/NA	Water	9060	
LCS 240-299098/39	Lab Control Sample	Total/NA	Water	9060	
LLCS 240-299098/38	Lab Control Sample	Total/NA	Water	9060	
240-86272-9 MS	GW-101017-BE-009	Total/NA	Water	9060	
240-86272-9 MSD	GW-101017-BE-009	Total/NA	Water	9060	

Analysis Batch: 299179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86272-10	GW-101017-BE-010	Total/NA	Water	2320B-1997	
240-86272-11	GW-101017-BE-011	Total/NA	Water	2320B-1997	
MB 240-299179/5	Method Blank	Total/NA	Water	2320B-1997	

Analysis Batch: 299266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86272-9	GW-101017-BE-009	Total/NA	Water	2340C-1997	
240-86272-10	GW-101017-BE-010	Total/NA	Water	2340C-1997	
240-86272-11	GW-101017-BE-011	Total/NA	Water	2340C-1997	
240-86272-12	GW-101017-BE-012	Total/NA	Water	2340C-1997	
MB 240-299266/1	Method Blank	Total/NA	Water	2340C-1997	
LCS 240-299266/2	Lab Control Sample	Total/NA	Water	2340C-1997	

Analysis Batch: 299304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86272-9	GW-101017-BE-009	Total/NA	Water	2320B-1997	
240-86272-12	GW-101017-BE-012	Total/NA	Water	2320B-1997	

General Chemistry (Continued)

Analysis Batch: 299304 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-299304/5	Method Blank	Total/NA	Water	2320B-1997	
240-86272-12 DU	GW-101017-BE-012	Total/NA	Water	2320B-1997	

Analysis Batch: 299497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86272-9	GW-101017-BE-009	Dissolved	Water	9060	
240-86272-10	GW-101017-BE-010	Dissolved	Water	9060	
240-86272-11	GW-101017-BE-011	Dissolved	Water	9060	
240-86272-12	GW-101017-BE-012	Dissolved	Water	9060	
MB 240-299497/4	Method Blank	Dissolved	Water	9060	
LCS 240-299497/6	Lab Control Sample	Dissolved	Water	9060	
LLCS 240-299497/5	Lab Control Sample	Dissolved	Water	9060	

Client Sample ID: GW-101017-BE-009

Lab Sample ID: 240-86272-9

Date Collected: 10/10/17 12:55

Matrix: Water

Date Received: 10/11/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	299772	10/19/17 19:03	BPM	TAL CAN
Dissolved	Prep	3005A			299225	10/16/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	299409	10/18/17 03:06	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	299304	10/16/17 13:15	LKG	TAL CAN
Total/NA	Analysis	2340C-1997		1	299266	10/16/17 16:45	CL	TAL CAN
Total/NA	Analysis	300.0		1	298614	10/11/17 18:54	LKG	TAL CAN
Total/NA	Analysis	300.0		1	298615	10/11/17 18:54	LKG	TAL CAN
Total/NA	Prep	9030B			298746	10/12/17 10:39	CL	TAL CAN
Total/NA	Analysis	9034		1	298807	10/12/17 14:36	CL	TAL CAN
Dissolved	Analysis	9060		1	299497	10/17/17 09:19	TPH	TAL CAN
Total/NA	Analysis	9060		1	299098	10/14/17 01:03	TPH	TAL CAN

Client Sample ID: GW-101017-BE-010

Lab Sample ID: 240-86272-10

Date Collected: 10/10/17 15:20

Matrix: Water

Date Received: 10/11/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	299772	10/19/17 19:20	BPM	TAL CAN
Dissolved	Prep	3005A			299225	10/16/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	299409	10/18/17 03:11	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	299179	10/13/17 18:45	CL	TAL CAN
Total/NA	Analysis	2340C-1997		1	299266	10/16/17 16:45	CL	TAL CAN
Total/NA	Analysis	300.0		1	298614	10/11/17 19:15	LKG	TAL CAN
Total/NA	Analysis	300.0		1	298615	10/11/17 19:15	LKG	TAL CAN
Total/NA	Prep	9030B			298746	10/12/17 10:39	CL	TAL CAN
Total/NA	Analysis	9034		1	298807	10/12/17 14:36	CL	TAL CAN
Dissolved	Analysis	9060		1	299497	10/17/17 09:46	TPH	TAL CAN
Total/NA	Analysis	9060		1	299098	10/14/17 02:43	TPH	TAL CAN

Client Sample ID: GW-101017-BE-011

Lab Sample ID: 240-86272-11

Date Collected: 10/10/17 15:24

Matrix: Water

Date Received: 10/11/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	299772	10/19/17 19:38	BPM	TAL CAN
Dissolved	Prep	3005A			299225	10/16/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	299409	10/18/17 03:16	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	299179	10/13/17 18:57	CL	TAL CAN
Total/NA	Analysis	2340C-1997		1	299266	10/16/17 16:45	CL	TAL CAN
Total/NA	Analysis	300.0		1	298614	10/11/17 19:36	LKG	TAL CAN
Total/NA	Analysis	300.0		1	298615	10/11/17 19:36	LKG	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-86272-1

Client Sample ID: GW-101017-BE-011

Lab Sample ID: 240-86272-11

Date Collected: 10/10/17 15:24
Matrix: Water
Date Received: 10/11/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9030B			298746	10/12/17 10:39	CL	TAL CAN
Total/NA	Analysis	9034		1	298807	10/12/17 14:36	CL	TAL CAN
Dissolved	Analysis	9060		1	299497	10/17/17 10:13	TPH	TAL CAN
Total/NA	Analysis	9060		1	299098	10/14/17 03:10	TPH	TAL CAN

Client Sample ID: GW-101017-BE-012

Lab Sample ID: 240-86272-12

Date Collected: 10/10/17 17:07
Matrix: Water
Date Received: 10/11/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	299772	10/19/17 19:55	BPM	TAL CAN
Dissolved	Prep	3005A			299225	10/16/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	299409	10/18/17 03:20	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	299304	10/16/17 12:52	LKG	TAL CAN
Total/NA	Analysis	2340C-1997		1	299266	10/16/17 16:47	CL	TAL CAN
Total/NA	Analysis	300.0		1	298614	10/11/17 19:57	LKG	TAL CAN
Total/NA	Analysis	300.0		1	298615	10/11/17 19:57	LKG	TAL CAN
Total/NA	Prep	9030B			298746	10/12/17 10:39	CL	TAL CAN
Total/NA	Analysis	9034		1	298807	10/12/17 14:36	CL	TAL CAN
Dissolved	Analysis	9060		1	299497	10/17/17 10:40	TPH	TAL CAN
Total/NA	Analysis	9060		1	299098	10/14/17 03:55	TPH	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: GHD Services Inc. TestAmerica Job ID: 240-86272-1
Project/Site: 17302-T07, RACER Delphi Anderson

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-18 *
West Virginia DEP	State Program	3	210	12-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

1.8/C1.8

COC NO.: IN- 14966
PAGE 1 OF 1
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017302-T07	Laboratory Name: Test America-North Canton	Lab Location: North Canton, OH	SSOW ID: 017302-T07
Project Name: MLK	Lab Contact: Denise Heckler	Lab Quote No:	Cooler No: 1 of 1
Project Location: Anderson, IN			Carrier: Fed Ex
Chemistry Contact: Deborah Andrasko			Airbill No: 8111 7068 6022
Sampler(s): Brynn Einecker			Date Shipped: 10/10/17

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Container Quantity & Preservation: Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	Analysis Requested: VOC	Alkalinity, Bicarbonate	TOC	Dissolved gases	Hardness	DOC	Manganese	Calc - Sulfide	Chloride, Sulfate, Nitrate, Nitrite	MS/MSD Request	Comments/ Special Instructions:
1	GW-100617-BE-001	10/06/17	1053	WG	G		3							3	✓										
2	GW-100617-BE-002	10/6/17	1214	WG	G		3							3	✓										
3	GW-100617-BE-003	10/6/17	1437	WG	G		3							3	✓										
4	GW-100617-BE-004	10/6/17	1603	WG	G		3							3	✓										
5	GW-100917-BE-005	10/9/17	1127	WG	G		3							3	✓										
6	GW-100917-BE-006	10/9/17	1227	WG	G		3							3	✓										
7	GW-100917-BE-007	10/9/17	1450	WG	G		3							3	✓										
8	GW-100917-BE-008	10/9/17	1552	WG	G		3							3	✓										
9	GW-101017-BE-009	10/10/17	1255	WG	G	2	6	2	6	1				17	✓	✓	✓	✓	✓	✓	✓	✓	✓		
10	GW-101017-BE-010	10/10/17	1520	WG	G	2	6	2	6	1				17	✓	✓	✓	✓	✓	✓	✓	✓	✓		
11	GW-101017-BE-011	10/10/17	1524	WG	G	2	6	2	6	1				17	✓	✓	✓	✓	✓	✓	✓	✓	✓		
12	GW-101017-BE-012	10/10/17	1707	WG	G	2	6	2	6	1				17	✓	✓	✓	✓	✓	✓	✓	✓	✓		
13	TB-101017-BE-001	10/10/17	1830				1							1	✓										
14																									
15																									

240-86272 Chain of Custody

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 93
All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1. Brynn Einecker	GHD	10/10/17	1845	1. Zach	T/A	10/11/17	915
2.				2.			
				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 84272**
Canton Facility

Client CRA Site Name _____ Cooler unpacked by:

Cooler Received on 10/11/17 Opened on 10/11/17

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp. 1.8 °C Corrected Cooler Temp. 1.8 °C

IR GUN #36 (CF +0.3°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN # 627 (CF -1.3°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes	No
-Were the seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels be reconciled with the COC?	Yes	No
9. Were correct bottle(s) used for the test(s) indicated?	Yes	No
10. Sufficient quantity received to perform indicated analyses?	Yes	No
11. Are these work share samples?	Yes	No
If yes, Questions 11-15 have been checked at the originating laboratory.		
11. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# **HC697954**
12. Were VOAs on the COC?	Yes	No
13. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Covered	Yes	No
15. Was a LL Hg or Me Hg trip blank present? _____	Yes	No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

_____

_____

_____

_____

_____

17. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
GW-101017-BE-009	240-86272-N-9	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-101017-BE-009	240-86272-P-9	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-101017-BE-009	240-86272-Q-9	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-101017-BE-010	240-86272-N-10	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-101017-BE-010	240-86272-P-10	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-101017-BE-010	240-86272-Q-10	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-101017-BE-011	240-86272-N-11	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-101017-BE-011	240-86272-P-11	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-101017-BE-011	240-86272-Q-11	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-101017-BE-012	240-86272-N-12	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-101017-BE-012	240-86272-P-12	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-101017-BE-012	240-86272-Q-12	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-86272-2
Client Project/Site: 17302-T07, RACER Delphi Anderson
Revision: 1

For:
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko

Denise D Heckler

Authorized for release by:
11/27/2017 2:11:41 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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.

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-86272-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

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	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)

Job ID: 240-86272-2

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-86272-2

Comments
A revised report was provided on November 27, 2017. The correct compound list was reported.

Receipt
The samples were received on 10/11/2017 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.8º C.

GC/MS VOA
Method(s) 8260B: The laboratory control sample (LCS) for 299945 recovered outside control limits for the following analytes: Chloroethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.GW-100617-BE-001 (240-86272-1), GW-100617-BE-002 (240-86272-2), GW-100617-BE-004 (240-86272-4), GW-100917-BE-005 (240-86272-5), GW-100917-BE-006 (240-86272-6), GW-100917-BE-007 (240-86272-7), GW-100917-BE-008 (240-86272-8) and (LCS 240-299945/4)

Method(s) 8260B: The laboratory control sample (LCS) for analytical batch 240-299945 recovered outside control limits for the following analytes: Chloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. GW-100617-BE-003 (240-86272-3)

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

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

Method Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-86272-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN

Protocol References:

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

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-86272-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-86272-1	GW-100617-BE-001	Water	10/06/17 10:53	10/11/17 09:15
240-86272-2	GW-100617-BE-002	Water	10/06/17 12:14	10/11/17 09:15
240-86272-3	GW-100617-BE-003	Water	10/06/17 14:37	10/11/17 09:15
240-86272-4	GW-100617-BE-004	Water	10/06/17 16:03	10/11/17 09:15
240-86272-5	GW-100917-BE-005	Water	10/09/17 11:27	10/11/17 09:15
240-86272-6	GW-100917-BE-006	Water	10/09/17 12:27	10/11/17 09:15
240-86272-7	GW-100917-BE-007	Water	10/09/17 14:50	10/11/17 09:15
240-86272-8	GW-100917-BE-008	Water	10/09/17 15:52	10/11/17 09:15
240-86272-9	GW-101017-BE-009	Water	10/10/17 12:55	10/11/17 09:15
240-86272-10	GW-101017-BE-010	Water	10/10/17 15:20	10/11/17 09:15
240-86272-11	GW-101017-BE-011	Water	10/10/17 15:24	10/11/17 09:15
240-86272-12	GW-101017-BE-012	Water	10/10/17 17:07	10/11/17 09:15
240-86272-13	TB-101017-BE-001	Water	10/10/17 18:00	10/11/17 09:15

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-86272-2

Client Sample ID: GW-100617-BE-001 — Lab Sample ID: 240-86272-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.3		1.0	0.25	ug/L	1		8260B	Total/NA
Vinyl chloride	0.74	J	1.0	0.45	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	20		1.0	0.30	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.2		1.0	0.29	ug/L	1		8260B	Total/NA

Client Sample ID: GW-100617-BE-002 — Lab Sample ID: 240-86272-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.4	J	3.3	0.83	ug/L	3.33		8260B	Total/NA
Vinyl chloride	42		3.3	1.5	ug/L	3.33		8260B	Total/NA
cis-1,2-Dichloroethene	96		3.3	1.0	ug/L	3.33		8260B	Total/NA

Client Sample ID: GW-100617-BE-003 — Lab Sample ID: 240-86272-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	41		2.0	0.90	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	8.6		2.0	0.60	ug/L	2		8260B	Total/NA

Client Sample ID: GW-100617-BE-004 — Lab Sample ID: 240-86272-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.90	J	3.3	0.83	ug/L	3.33		8260B	Total/NA
cis-1,2-Dichloroethene	100		3.3	1.0	ug/L	3.33		8260B	Total/NA
trans-1,2-Dichloroethene	1.2	J	3.3	0.97	ug/L	3.33		8260B	Total/NA

Client Sample ID: GW-100917-BE-005 — Lab Sample ID: 240-86272-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.1	J	10	1.8	ug/L	1		8260B	Total/NA

Client Sample ID: GW-100917-BE-006 — Lab Sample ID: 240-86272-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	200		40	18	ug/L	40		8260B	Total/NA
cis-1,2-Dichloroethene	920		40	12	ug/L	40		8260B	Total/NA
trans-1,2-Dichloroethene	15	J	40	12	ug/L	40		8260B	Total/NA

Client Sample ID: GW-100917-BE-007 — Lab Sample ID: 240-86272-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	260		100	45	ug/L	100		8260B	Total/NA
cis-1,2-Dichloroethene	3700		100	30	ug/L	100		8260B	Total/NA
trans-1,2-Dichloroethene	95	J	100	29	ug/L	100		8260B	Total/NA

Client Sample ID: GW-100917-BE-008 — Lab Sample ID: 240-86272-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	380		200	90	ug/L	200		8260B	Total/NA
cis-1,2-Dichloroethene	5400		200	60	ug/L	200		8260B	Total/NA
trans-1,2-Dichloroethene	68	J	200	58	ug/L	200		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-86272-2

Client Sample ID: GW-101017-BE-009 — Lab Sample ID: 240-86272-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	15	J B	67	12	ug/L	6.667		8260B	Total/NA
1,1-Dichloroethane	17		6.7	1.7	ug/L	6.667		8260B	Total/NA
Vinyl chloride	49		6.7	3.0	ug/L	6.667		8260B	Total/NA
cis-1,2-Dichloroethene	230		6.7	2.0	ug/L	6.667		8260B	Total/NA
trans-1,2-Dichloroethene	24		6.7	1.9	ug/L	6.667		8260B	Total/NA

Client Sample ID: GW-101017-BE-010 — Lab Sample ID: 240-86272-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	170		130	33	ug/L	133.333		8260B	Total/NA
1,1-Dichloroethene	67	J	130	36	ug/L	133.333		8260B	Total/NA
Trichloroethene	360		130	44	ug/L	133.333		8260B	Total/NA
Vinyl chloride	170		130	60	ug/L	133.333		8260B	Total/NA
cis-1,2-Dichloroethene	5400		130	40	ug/L	133.333		8260B	Total/NA
trans-1,2-Dichloroethene	61	J	130	39	ug/L	133.333		8260B	Total/NA

Client Sample ID: GW-101017-BE-011 — Lab Sample ID: 240-86272-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	250	J B	1300	230	ug/L	133.333		8260B	Total/NA
1,1-Dichloroethane	160		130	33	ug/L	133.333		8260B	Total/NA
1,1-Dichloroethene	64	J	130	36	ug/L	133.333		8260B	Total/NA
Trichloroethene	350		130	44	ug/L	133.333		8260B	Total/NA
Vinyl chloride	180		130	60	ug/L	133.333		8260B	Total/NA
cis-1,2-Dichloroethene	5500		130	40	ug/L	133.333		8260B	Total/NA
trans-1,2-Dichloroethene	57	J	130	39	ug/L	133.333		8260B	Total/NA

Client Sample ID: GW-101017-BE-012 — Lab Sample ID: 240-86272-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	150		67	17	ug/L	66.667		8260B	Total/NA
Vinyl chloride	75		67	30	ug/L	66.667		8260B	Total/NA
cis-1,2-Dichloroethene	3000		67	20	ug/L	66.667		8260B	Total/NA
trans-1,2-Dichloroethene	150		67	19	ug/L	66.667		8260B	Total/NA

Client Sample ID: TB-101017-BE-001 — Lab Sample ID: 240-86272-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.3	J B	10	1.8	ug/L	1		8260B	Total/NA
Methylene Chloride	1.6		1.0	0.53	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: GW-100617-BE-001
Date Collected: 10/06/17 10:53
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			10/20/17 11:55	1
Benzene	1.0	U	1.0	0.28	ug/L			10/20/17 11:55	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/20/17 11:55	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/20/17 11:55	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/20/17 11:55	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/20/17 11:55	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/20/17 11:55	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/20/17 11:55	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/20/17 11:55	1
Chloroethane	1.0	U *	1.0	0.41	ug/L			10/20/17 11:55	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/20/17 11:55	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/20/17 11:55	1
1,1-Dichloroethane	**1.3**		1.0	0.25	ug/L			10/20/17 11:55	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/20/17 11:55	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/20/17 11:55	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/20/17 11:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/20/17 11:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/20/17 11:55	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/20/17 11:55	1
2-Hexanone	10	U	10	1.2	ug/L			10/20/17 11:55	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			10/20/17 11:55	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/20/17 11:55	1
Styrene	1.0	U	1.0	0.23	ug/L			10/20/17 11:55	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/20/17 11:55	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/20/17 11:55	1
Toluene	1.0	U	1.0	0.23	ug/L			10/20/17 11:55	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/20/17 11:55	1
Vinyl chloride	**0.74**	**J**	1.0	0.45	ug/L			10/20/17 11:55	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/20/17 11:55	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/20/17 11:55	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/20/17 11:55	1
cis-1,2-Dichloroethene	**20**		1.0	0.30	ug/L			10/20/17 11:55	1
trans-1,2-Dichloroethene	**1.2**		1.0	0.29	ug/L			10/20/17 11:55	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/20/17 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*61 - 138*		*10/20/17 11:55*	*1*
4-Bromofluorobenzene (Surr)	*72*		*69 - 120*		*10/20/17 11:55*	*1*
Toluene-d8 (Surr)	*107*		*73 - 120*		*10/20/17 11:55*	*1*
Dibromofluoromethane (Surr)	*108*		*69 - 124*		*10/20/17 11:55*	*1*

Client Sample ID: GW-100617-BE-002
Date Collected: 10/06/17 12:14
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	33	U	33	5.9	ug/L			10/20/17 12:17	3.33
Benzene	3.3	U	3.3	0.93	ug/L			10/20/17 12:17	3.33
Dichlorobromomethane	3.3	U	3.3	1.0	ug/L			10/20/17 12:17	3.33
Bromoform	3.3	U	3.3	1.4	ug/L			10/20/17 12:17	3.33
Bromomethane	3.3	U	3.3	1.4	ug/L			10/20/17 12:17	3.33

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

Client Sample ID: GW-100617-BE-002
Date Collected: 10/06/17 12:14
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	33	U	33	3.4	ug/L			10/20/17 12:17	3.33
Carbon disulfide	3.3	U	3.3	1.1	ug/L			10/20/17 12:17	3.33
Carbon tetrachloride	3.3	U	3.3	1.2	ug/L			10/20/17 12:17	3.33
Chlorobenzene	3.3	U	3.3	1.1	ug/L			10/20/17 12:17	3.33
Chloroethane	3.3	U *	3.3	1.4	ug/L			10/20/17 12:17	3.33
Chloroform	3.3	U	3.3	1.0	ug/L			10/20/17 12:17	3.33
Chloromethane	3.3	U	3.3	1.4	ug/L			10/20/17 12:17	3.33
1,1-Dichloroethane	**1.4**	**J**	3.3	0.83	ug/L			10/20/17 12:17	3.33
1,2-Dichloroethane	3.3	U	3.3	1.0	ug/L			10/20/17 12:17	3.33
1,1-Dichloroethene	3.3	U	3.3	0.90	ug/L			10/20/17 12:17	3.33
1,2-Dichloropropane	3.3	U	3.3	1.0	ug/L			10/20/17 12:17	3.33
cis-1,3-Dichloropropene	3.3	U	3.3	0.87	ug/L			10/20/17 12:17	3.33
trans-1,3-Dichloropropene	3.3	U	3.3	1.0	ug/L			10/20/17 12:17	3.33
Ethylbenzene	3.3	U	3.3	0.87	ug/L			10/20/17 12:17	3.33
2-Hexanone	33	U	33	4.1	ug/L			10/20/17 12:17	3.33
Methylene Chloride	3.3	U	3.3	1.8	ug/L			10/20/17 12:17	3.33
4-Methyl-2-pentanone (MIBK)	33	U	33	2.4	ug/L			10/20/17 12:17	3.33
Styrene	3.3	U	3.3	0.77	ug/L			10/20/17 12:17	3.33
1,1,2,2-Tetrachloroethane	3.3	U	3.3	1.1	ug/L			10/20/17 12:17	3.33
Tetrachloroethene	3.3	U	3.3	1.0	ug/L			10/20/17 12:17	3.33
Toluene	3.3	U	3.3	0.77	ug/L			10/20/17 12:17	3.33
Trichloroethene	3.3	U	3.3	1.1	ug/L			10/20/17 12:17	3.33
Vinyl chloride	**42**		3.3	1.5	ug/L			10/20/17 12:17	3.33
Xylenes, Total	6.7	U	6.7	0.80	ug/L			10/20/17 12:17	3.33
1,1,1-Trichloroethane	3.3	U	3.3	0.77	ug/L			10/20/17 12:17	3.33
1,1,2-Trichloroethane	3.3	U	3.3	1.1	ug/L			10/20/17 12:17	3.33
cis-1,2-Dichloroethene	**96**		3.3	1.0	ug/L			10/20/17 12:17	3.33
trans-1,2-Dichloroethene	3.3	U	3.3	0.97	ug/L			10/20/17 12:17	3.33
Chlorodibromomethane	3.3	U	3.3	0.83	ug/L			10/20/17 12:17	3.33

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*61 - 138*		*10/20/17 12:17*	*3.33*
4-Bromofluorobenzene (Surr)	*73*		*69 - 120*		*10/20/17 12:17*	*3.33*
Toluene-d8 (Surr)	*103*		*73 - 120*		*10/20/17 12:17*	*3.33*
Dibromofluoromethane (Surr)	*108*		*69 - 124*		*10/20/17 12:17*	*3.33*

Client Sample ID: GW-100617-BE-003
Date Collected: 10/06/17 14:37
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	20	U	20	3.5	ug/L			10/20/17 13:28	2
Benzene	2.0	U	2.0	0.56	ug/L			10/20/17 13:28	2
Dichlorobromomethane	2.0	U	2.0	0.60	ug/L			10/20/17 13:28	2
Bromoform	2.0	U	2.0	0.86	ug/L			10/20/17 13:28	2
Bromomethane	2.0	U	2.0	0.84	ug/L			10/20/17 13:28	2
2-Butanone (MEK)	20	U	20	2.0	ug/L			10/20/17 13:28	2
Carbon disulfide	2.0	U	2.0	0.68	ug/L			10/20/17 13:28	2
Carbon tetrachloride	2.0	U	2.0	0.70	ug/L			10/20/17 13:28	2
Chlorobenzene	2.0	U	2.0	0.64	ug/L			10/20/17 13:28	2
Chloroethane	2.0	U *	2.0	0.82	ug/L			10/20/17 13:28	2

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

Client Sample ID: GW-100617-BE-003
Date Collected: 10/06/17 14:37
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	2.0	U	2.0	0.62	ug/L			10/20/17 13:28	2
Chloromethane	2.0	U	2.0	0.86	ug/L			10/20/17 13:28	2
1,1-Dichloroethane	2.0	U	2.0	0.50	ug/L			10/20/17 13:28	2
1,2-Dichloroethane	2.0	U	2.0	0.60	ug/L			10/20/17 13:28	2
1,1-Dichloroethene	2.0	U	2.0	0.54	ug/L			10/20/17 13:28	2
1,2-Dichloropropane	2.0	U	2.0	0.60	ug/L			10/20/17 13:28	2
cis-1,3-Dichloropropene	2.0	U	2.0	0.52	ug/L			10/20/17 13:28	2
trans-1,3-Dichloropropene	2.0	U	2.0	0.62	ug/L			10/20/17 13:28	2
Ethylbenzene	2.0	U	2.0	0.52	ug/L			10/20/17 13:28	2
2-Hexanone	20	U	20	2.5	ug/L			10/20/17 13:28	2
Methylene Chloride	2.0	U	2.0	1.1	ug/L			10/20/17 13:28	2
4-Methyl-2-pentanone (MIBK)	20	U	20	1.4	ug/L			10/20/17 13:28	2
Styrene	2.0	U	2.0	0.46	ug/L			10/20/17 13:28	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.64	ug/L			10/20/17 13:28	2
Tetrachloroethene	2.0	U	2.0	0.60	ug/L			10/20/17 13:28	2
Toluene	2.0	U	2.0	0.46	ug/L			10/20/17 13:28	2
Trichloroethene	2.0	U	2.0	0.66	ug/L			10/20/17 13:28	2
Vinyl chloride	**41**		2.0	0.90	ug/L			10/20/17 13:28	2
Xylenes, Total	4.0	U	4.0	0.48	ug/L			10/20/17 13:28	2
1,1,1-Trichloroethane	2.0	U	2.0	0.46	ug/L			10/20/17 13:28	2
1,1,2-Trichloroethane	2.0	U	2.0	0.68	ug/L			10/20/17 13:28	2
cis-1,2-Dichloroethene	**8.6**		2.0	0.60	ug/L			10/20/17 13:28	2
trans-1,2-Dichloroethene	2.0	U	2.0	0.58	ug/L			10/20/17 13:28	2
Chlorodibromomethane	2.0	U	2.0	0.50	ug/L			10/20/17 13:28	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*61 - 138*		*10/20/17 13:28*	*2*
4-Bromofluorobenzene (Surr)	*71*		*69 - 120*		*10/20/17 13:28*	*2*
Toluene-d8 (Surr)	*100*		*73 - 120*		*10/20/17 13:28*	*2*
Dibromofluoromethane (Surr)	*103*		*69 - 124*		*10/20/17 13:28*	*2*

Client Sample ID: GW-100617-BE-004
Date Collected: 10/06/17 16:03
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	33	U	33	5.9	ug/L			10/20/17 13:02	3.33
Benzene	3.3	U	3.3	0.93	ug/L			10/20/17 13:02	3.33
Dichlorobromomethane	3.3	U	3.3	1.0	ug/L			10/20/17 13:02	3.33
Bromoform	3.3	U	3.3	1.4	ug/L			10/20/17 13:02	3.33
Bromomethane	3.3	U	3.3	1.4	ug/L			10/20/17 13:02	3.33
2-Butanone (MEK)	33	U	33	3.4	ug/L			10/20/17 13:02	3.33
Carbon disulfide	3.3	U	3.3	1.1	ug/L			10/20/17 13:02	3.33
Carbon tetrachloride	3.3	U	3.3	1.2	ug/L			10/20/17 13:02	3.33
Chlorobenzene	3.3	U	3.3	1.1	ug/L			10/20/17 13:02	3.33
Chloroethane	3.3	U *	3.3	1.4	ug/L			10/20/17 13:02	3.33
Chloroform	3.3	U	3.3	1.0	ug/L			10/20/17 13:02	3.33
Chloromethane	3.3	U	3.3	1.4	ug/L			10/20/17 13:02	3.33
1,1-Dichloroethane	**0.90**	**J**	3.3	0.83	ug/L			10/20/17 13:02	3.33
1,2-Dichloroethane	3.3	U	3.3	1.0	ug/L			10/20/17 13:02	3.33
1,1-Dichloroethene	3.3	U	3.3	0.90	ug/L			10/20/17 13:02	3.33

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

Client Sample ID: GW-100617-BE-004
Date Collected: 10/06/17 16:03
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	3.3	U	3.3	1.0	ug/L			10/20/17 13:02	3.33
cis-1,3-Dichloropropene	3.3	U	3.3	0.87	ug/L			10/20/17 13:02	3.33
trans-1,3-Dichloropropene	3.3	U	3.3	1.0	ug/L			10/20/17 13:02	3.33
Ethylbenzene	3.3	U	3.3	0.87	ug/L			10/20/17 13:02	3.33
2-Hexanone	33	U	33	4.1	ug/L			10/20/17 13:02	3.33
Methylene Chloride	3.3	U	3.3	1.8	ug/L			10/20/17 13:02	3.33
4-Methyl-2-pentanone (MIBK)	33	U	33	2.4	ug/L			10/20/17 13:02	3.33
Styrene	3.3	U	3.3	0.77	ug/L			10/20/17 13:02	3.33
1,1,2,2-Tetrachloroethane	3.3	U	3.3	1.1	ug/L			10/20/17 13:02	3.33
Tetrachloroethene	3.3	U	3.3	1.0	ug/L			10/20/17 13:02	3.33
Toluene	3.3	U	3.3	0.77	ug/L			10/20/17 13:02	3.33
Trichloroethene	3.3	U	3.3	1.1	ug/L			10/20/17 13:02	3.33
Vinyl chloride	3.3	U	3.3	1.5	ug/L			10/20/17 13:02	3.33
Xylenes, Total	6.7	U	6.7	0.80	ug/L			10/20/17 13:02	3.33
1,1,1-Trichloroethane	3.3	U	3.3	0.77	ug/L			10/20/17 13:02	3.33
1,1,2-Trichloroethane	3.3	U	3.3	1.1	ug/L			10/20/17 13:02	3.33
cis-1,2-Dichloroethene	**100**		3.3	1.0	ug/L			10/20/17 13:02	3.33
trans-1,2-Dichloroethene	**1.2**	**J**	3.3	0.97	ug/L			10/20/17 13:02	3.33
Chlorodibromomethane	3.3	U	3.3	0.83	ug/L			10/20/17 13:02	3.33

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*61 - 138*		*10/20/17 13:02*	*3.33*
4-Bromofluorobenzene (Surr)	*74*		*69 - 120*		*10/20/17 13:02*	*3.33*
Toluene-d8 (Surr)	*108*		*73 - 120*		*10/20/17 13:02*	*3.33*
Dibromofluoromethane (Surr)	*107*		*69 - 124*		*10/20/17 13:02*	*3.33*

Client Sample ID: GW-100917-BE-005
Date Collected: 10/09/17 11:27
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**2.1**	**J**	10	1.8	ug/L			10/20/17 19:28	1
Benzene	1.0	U	1.0	0.28	ug/L			10/20/17 19:28	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/20/17 19:28	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/20/17 19:28	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/20/17 19:28	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/20/17 19:28	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/20/17 19:28	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/20/17 19:28	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/20/17 19:28	1
Chloroethane	1.0	U *	1.0	0.41	ug/L			10/20/17 19:28	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/20/17 19:28	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/20/17 19:28	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/20/17 19:28	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/20/17 19:28	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/20/17 19:28	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/20/17 19:28	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/20/17 19:28	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/20/17 19:28	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/20/17 19:28	1
2-Hexanone	10	U	10	1.2	ug/L			10/20/17 19:28	1

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

Client Sample ID: GW-100917-BE-005
Date Collected: 10/09/17 11:27
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.0	U	1.0	0.53	ug/L			10/20/17 19:28	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/20/17 19:28	1
Styrene	1.0	U	1.0	0.23	ug/L			10/20/17 19:28	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/20/17 19:28	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/20/17 19:28	1
Toluene	1.0	U	1.0	0.23	ug/L			10/20/17 19:28	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/20/17 19:28	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/20/17 19:28	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/20/17 19:28	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/20/17 19:28	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/20/17 19:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/20/17 19:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/20/17 19:28	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/20/17 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*61 - 138*		*10/20/17 19:28*	*1*
4-Bromofluorobenzene (Surr)	*78*		*69 - 120*		*10/20/17 19:28*	*1*
Toluene-d8 (Surr)	*104*		*73 - 120*		*10/20/17 19:28*	*1*
Dibromofluoromethane (Surr)	*110*		*69 - 124*		*10/20/17 19:28*	*1*

Client Sample ID: GW-100917-BE-006
Date Collected: 10/09/17 12:27
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	400	U	400	70	ug/L			10/20/17 13:50	40
Benzene	40	U	40	11	ug/L			10/20/17 13:50	40
Dichlorobromomethane	40	U	40	12	ug/L			10/20/17 13:50	40
Bromoform	40	U	40	17	ug/L			10/20/17 13:50	40
Bromomethane	40	U	40	17	ug/L			10/20/17 13:50	40
2-Butanone (MEK)	400	U	400	41	ug/L			10/20/17 13:50	40
Carbon disulfide	40	U	40	14	ug/L			10/20/17 13:50	40
Carbon tetrachloride	40	U	40	14	ug/L			10/20/17 13:50	40
Chlorobenzene	40	U	40	13	ug/L			10/20/17 13:50	40
Chloroethane	40	U *	40	16	ug/L			10/20/17 13:50	40
Chloroform	40	U	40	12	ug/L			10/20/17 13:50	40
Chloromethane	40	U	40	17	ug/L			10/20/17 13:50	40
1,1-Dichloroethane	40	U	40	10	ug/L			10/20/17 13:50	40
1,2-Dichloroethane	40	U	40	12	ug/L			10/20/17 13:50	40
1,1-Dichloroethene	40	U	40	11	ug/L			10/20/17 13:50	40
1,2-Dichloropropane	40	U	40	12	ug/L			10/20/17 13:50	40
cis-1,3-Dichloropropene	40	U	40	10	ug/L			10/20/17 13:50	40
trans-1,3-Dichloropropene	40	U	40	12	ug/L			10/20/17 13:50	40
Ethylbenzene	40	U	40	10	ug/L			10/20/17 13:50	40
2-Hexanone	400	U	400	49	ug/L			10/20/17 13:50	40
Methylene Chloride	40	U	40	21	ug/L			10/20/17 13:50	40
4-Methyl-2-pentanone (MIBK)	400	U	400	28	ug/L			10/20/17 13:50	40
Styrene	40	U	40	9.2	ug/L			10/20/17 13:50	40
1,1,2,2-Tetrachloroethane	40	U	40	13	ug/L			10/20/17 13:50	40
Tetrachloroethene	40	U	40	12	ug/L			10/20/17 13:50	40

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

Client Sample ID: GW-100917-BE-006
Date Collected: 10/09/17 12:27
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	40	U	40	9.2	ug/L			10/20/17 13:50	40
Trichloroethene	40	U	40	13	ug/L			10/20/17 13:50	40
Vinyl chloride	**200**		40	18	ug/L			10/20/17 13:50	40
Xylenes, Total	80	U	80	9.6	ug/L			10/20/17 13:50	40
1,1,1-Trichloroethane	40	U	40	9.2	ug/L			10/20/17 13:50	40
1,1,2-Trichloroethane	40	U	40	14	ug/L			10/20/17 13:50	40
cis-1,2-Dichloroethene	**920**		40	12	ug/L			10/20/17 13:50	40
trans-1,2-Dichloroethene	**15**	**J**	40	12	ug/L			10/20/17 13:50	40
Chlorodibromomethane	40	U	40	10	ug/L			10/20/17 13:50	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*61 - 138*		*10/20/17 13:50*	*40*
4-Bromofluorobenzene (Surr)	*75*		*69 - 120*		*10/20/17 13:50*	*40*
Toluene-d8 (Surr)	*107*		*73 - 120*		*10/20/17 13:50*	*40*
Dibromofluoromethane (Surr)	*108*		*69 - 124*		*10/20/17 13:50*	*40*

Client Sample ID: GW-100917-BE-007
Date Collected: 10/09/17 14:50
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1000	U	1000	180	ug/L			10/20/17 14:12	100
Benzene	100	U	100	28	ug/L			10/20/17 14:12	100
Dichlorobromomethane	100	U	100	30	ug/L			10/20/17 14:12	100
Bromoform	100	U	100	43	ug/L			10/20/17 14:12	100
Bromomethane	100	U	100	42	ug/L			10/20/17 14:12	100
2-Butanone (MEK)	1000	U	1000	100	ug/L			10/20/17 14:12	100
Carbon disulfide	100	U	100	34	ug/L			10/20/17 14:12	100
Carbon tetrachloride	100	U	100	35	ug/L			10/20/17 14:12	100
Chlorobenzene	100	U	100	32	ug/L			10/20/17 14:12	100
Chloroethane	100	U *	100	41	ug/L			10/20/17 14:12	100
Chloroform	100	U	100	31	ug/L			10/20/17 14:12	100
Chloromethane	100	U	100	43	ug/L			10/20/17 14:12	100
1,1-Dichloroethane	100	U	100	25	ug/L			10/20/17 14:12	100
1,2-Dichloroethane	100	U	100	30	ug/L			10/20/17 14:12	100
1,1-Dichloroethene	100	U	100	27	ug/L			10/20/17 14:12	100
1,2-Dichloropropane	100	U	100	30	ug/L			10/20/17 14:12	100
cis-1,3-Dichloropropene	100	U	100	26	ug/L			10/20/17 14:12	100
trans-1,3-Dichloropropene	100	U	100	31	ug/L			10/20/17 14:12	100
Ethylbenzene	100	U	100	26	ug/L			10/20/17 14:12	100
2-Hexanone	1000	U	1000	120	ug/L			10/20/17 14:12	100
Methylene Chloride	100	U	100	53	ug/L			10/20/17 14:12	100
4-Methyl-2-pentanone (MIBK)	1000	U	1000	71	ug/L			10/20/17 14:12	100
Styrene	100	U	100	23	ug/L			10/20/17 14:12	100
1,1,2,2-Tetrachloroethane	100	U	100	32	ug/L			10/20/17 14:12	100
Tetrachloroethene	100	U	100	30	ug/L			10/20/17 14:12	100
Toluene	100	U	100	23	ug/L			10/20/17 14:12	100
Trichloroethene	100	U	100	33	ug/L			10/20/17 14:12	100
Vinyl chloride	**260**		100	45	ug/L			10/20/17 14:12	100
Xylenes, Total	200	U	200	24	ug/L			10/20/17 14:12	100
1,1,1-Trichloroethane	100	U	100	23	ug/L			10/20/17 14:12	100

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

Client Sample ID: GW-100917-BE-007
Date Collected: 10/09/17 14:50
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	100	U	100	34	ug/L			10/20/17 14:12	100
cis-1,2-Dichloroethene	**3700**		100	30	ug/L			10/20/17 14:12	100
trans-1,2-Dichloroethene	**95**	**J**	100	29	ug/L			10/20/17 14:12	100
Chlorodibromomethane	100	U	100	25	ug/L			10/20/17 14:12	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*61 - 138*		*10/20/17 14:12*	*100*
4-Bromofluorobenzene (Surr)	*75*		*69 - 120*		*10/20/17 14:12*	*100*
Toluene-d8 (Surr)	*109*		*73 - 120*		*10/20/17 14:12*	*100*
Dibromofluoromethane (Surr)	*108*		*69 - 124*		*10/20/17 14:12*	*100*

Client Sample ID: GW-100917-BE-008
Date Collected: 10/09/17 15:52
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2000	U	2000	350	ug/L			10/20/17 14:35	200
Benzene	200	U	200	56	ug/L			10/20/17 14:35	200
Dichlorobromomethane	200	U	200	60	ug/L			10/20/17 14:35	200
Bromoform	200	U	200	86	ug/L			10/20/17 14:35	200
Bromomethane	200	U	200	84	ug/L			10/20/17 14:35	200
2-Butanone (MEK)	2000	U	2000	200	ug/L			10/20/17 14:35	200
Carbon disulfide	200	U	200	68	ug/L			10/20/17 14:35	200
Carbon tetrachloride	200	U	200	70	ug/L			10/20/17 14:35	200
Chlorobenzene	200	U	200	64	ug/L			10/20/17 14:35	200
Chloroethane	200	U *	200	82	ug/L			10/20/17 14:35	200
Chloroform	200	U	200	62	ug/L			10/20/17 14:35	200
Chloromethane	200	U	200	86	ug/L			10/20/17 14:35	200
1,1-Dichloroethane	200	U	200	50	ug/L			10/20/17 14:35	200
1,2-Dichloroethane	200	U	200	60	ug/L			10/20/17 14:35	200
1,1-Dichloroethene	200	U	200	54	ug/L			10/20/17 14:35	200
1,2-Dichloropropane	200	U	200	60	ug/L			10/20/17 14:35	200
cis-1,3-Dichloropropene	200	U	200	52	ug/L			10/20/17 14:35	200
trans-1,3-Dichloropropene	200	U	200	62	ug/L			10/20/17 14:35	200
Ethylbenzene	200	U	200	52	ug/L			10/20/17 14:35	200
2-Hexanone	2000	U	2000	250	ug/L			10/20/17 14:35	200
Methylene Chloride	200	U	200	110	ug/L			10/20/17 14:35	200
4-Methyl-2-pentanone (MIBK)	2000	U	2000	140	ug/L			10/20/17 14:35	200
Styrene	200	U	200	46	ug/L			10/20/17 14:35	200
1,1,2,2-Tetrachloroethane	200	U	200	64	ug/L			10/20/17 14:35	200
Tetrachloroethene	200	U	200	60	ug/L			10/20/17 14:35	200
Toluene	200	U	200	46	ug/L			10/20/17 14:35	200
Trichloroethene	200	U	200	66	ug/L			10/20/17 14:35	200
Vinyl chloride	**380**		200	90	ug/L			10/20/17 14:35	200
Xylenes, Total	400	U	400	48	ug/L			10/20/17 14:35	200
1,1,1-Trichloroethane	200	U	200	46	ug/L			10/20/17 14:35	200
1,1,2-Trichloroethane	200	U	200	68	ug/L			10/20/17 14:35	200
cis-1,2-Dichloroethene	**5400**		200	60	ug/L			10/20/17 14:35	200
trans-1,2-Dichloroethene	**68**	**J**	200	58	ug/L			10/20/17 14:35	200
Chlorodibromomethane	200	U	200	50	ug/L			10/20/17 14:35	200

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*96*		*61 - 138*		*10/20/17 14:35*	*200*
4-Bromofluorobenzene (Surr)	*69*		*69 - 120*		*10/20/17 14:35*	*200*
Toluene-d8 (Surr)	*103*		*73 - 120*		*10/20/17 14:35*	*200*
Dibromofluoromethane (Surr)	*106*		*69 - 124*		*10/20/17 14:35*	*200*

Client Sample ID: GW-101017-BE-009 — **Lab Sample ID: 240-86272-9**
Date Collected: 10/10/17 12:55 — **Matrix: Water**
Date Received: 10/11/17 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**15**	**J B**	67	12	ug/L			10/22/17 20:26	6.667
Benzene	6.7	U	6.7	1.9	ug/L			10/22/17 20:26	6.667
Dichlorobromomethane	6.7	U	6.7	2.0	ug/L			10/22/17 20:26	6.667
Bromoform	6.7	U	6.7	2.9	ug/L			10/22/17 20:26	6.667
Bromomethane	6.7	U	6.7	2.8	ug/L			10/22/17 20:26	6.667
2-Butanone (MEK)	67	U	67	6.8	ug/L			10/22/17 20:26	6.667
Carbon disulfide	6.7	U	6.7	2.3	ug/L			10/22/17 20:26	6.667
Carbon tetrachloride	6.7	U	6.7	2.3	ug/L			10/22/17 20:26	6.667
Chlorobenzene	6.7	U	6.7	2.1	ug/L			10/22/17 20:26	6.667
Chloroethane	6.7	U	6.7	2.7	ug/L			10/22/17 20:26	6.667
Chloroform	6.7	U	6.7	2.1	ug/L			10/22/17 20:26	6.667
Chloromethane	6.7	U	6.7	2.9	ug/L			10/22/17 20:26	6.667
1,1-Dichloroethane	**17**		6.7	1.7	ug/L			10/22/17 20:26	6.667
1,2-Dichloroethane	6.7	U	6.7	2.0	ug/L			10/22/17 20:26	6.667
1,1-Dichloroethene	6.7	U	6.7	1.8	ug/L			10/22/17 20:26	6.667
1,2-Dichloropropane	6.7	U	6.7	2.0	ug/L			10/22/17 20:26	6.667
cis-1,3-Dichloropropene	6.7	U	6.7	1.7	ug/L			10/22/17 20:26	6.667
trans-1,3-Dichloropropene	6.7	U	6.7	2.1	ug/L			10/22/17 20:26	6.667
Ethylbenzene	6.7	U	6.7	1.7	ug/L			10/22/17 20:26	6.667
2-Hexanone	67	U	67	8.2	ug/L			10/22/17 20:26	6.667
Methylene Chloride	6.7	U	6.7	3.5	ug/L			10/22/17 20:26	6.667
4-Methyl-2-pentanone (MIBK)	67	U	67	4.7	ug/L			10/22/17 20:26	6.667
Styrene	6.7	U	6.7	1.5	ug/L			10/22/17 20:26	6.667
1,1,2,2-Tetrachloroethane	6.7	U	6.7	2.1	ug/L			10/22/17 20:26	6.667
Tetrachloroethene	6.7	U	6.7	2.0	ug/L			10/22/17 20:26	6.667
Toluene	6.7	U	6.7	1.5	ug/L			10/22/17 20:26	6.667
Trichloroethene	6.7	U	6.7	2.2	ug/L			10/22/17 20:26	6.667
Vinyl chloride	**49**		6.7	3.0	ug/L			10/22/17 20:26	6.667
Xylenes, Total	13	U	13	1.6	ug/L			10/22/17 20:26	6.667
1,1,1-Trichloroethane	6.7	U	6.7	1.5	ug/L			10/22/17 20:26	6.667
1,1,2-Trichloroethane	6.7	U	6.7	2.3	ug/L			10/22/17 20:26	6.667
cis-1,2-Dichloroethene	**230**		6.7	2.0	ug/L			10/22/17 20:26	6.667
trans-1,2-Dichloroethene	**24**		6.7	1.9	ug/L			10/22/17 20:26	6.667
Chlorodibromomethane	6.7	U	6.7	1.7	ug/L			10/22/17 20:26	6.667

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*105*		*61 - 138*		*10/22/17 20:26*	*6.667*
4-Bromofluorobenzene (Surr)	*95*		*69 - 120*		*10/22/17 20:26*	*6.667*
Toluene-d8 (Surr)	*108*		*73 - 120*		*10/22/17 20:26*	*6.667*
Dibromofluoromethane (Surr)	*105*		*69 - 124*		*10/22/17 20:26*	*6.667*

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

Client Sample ID: GW-101017-BE-010
Date Collected: 10/10/17 15:20
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1300	U	1300	230	ug/L			10/22/17 20:51	133.333
Benzene	130	U	130	37	ug/L			10/22/17 20:51	133.333
Dichlorobromomethane	130	U	130	40	ug/L			10/22/17 20:51	133.333
Bromoform	130	U	130	57	ug/L			10/22/17 20:51	133.333
Bromomethane	130	U	130	56	ug/L			10/22/17 20:51	133.333
2-Butanone (MEK)	1300	U	1300	140	ug/L			10/22/17 20:51	133.333
Carbon disulfide	130	U	130	45	ug/L			10/22/17 20:51	133.333
Carbon tetrachloride	130	U	130	47	ug/L			10/22/17 20:51	133.333
Chlorobenzene	130	U	130	43	ug/L			10/22/17 20:51	133.333
Chloroethane	130	U	130	55	ug/L			10/22/17 20:51	133.333
Chloroform	130	U	130	41	ug/L			10/22/17 20:51	133.333
Chloromethane	130	U	130	57	ug/L			10/22/17 20:51	133.333
1,1-Dichloroethane	**170**		130	33	ug/L			10/22/17 20:51	133.333
1,2-Dichloroethane	130	U	130	40	ug/L			10/22/17 20:51	133.333
1,1-Dichloroethene	**67**	**J**	130	36	ug/L			10/22/17 20:51	133.333
1,2-Dichloropropane	130	U	130	40	ug/L			10/22/17 20:51	133.333
cis-1,3-Dichloropropene	130	U	130	35	ug/L			10/22/17 20:51	133.333
trans-1,3-Dichloropropene	130	U	130	41	ug/L			10/22/17 20:51	133.333
Ethylbenzene	130	U	130	35	ug/L			10/22/17 20:51	133.333
2-Hexanone	1300	U	1300	160	ug/L			10/22/17 20:51	133.333
Methylene Chloride	130	U	130	71	ug/L			10/22/17 20:51	133.333
4-Methyl-2-pentanone (MIBK)	1300	U	1300	95	ug/L			10/22/17 20:51	133.333
Styrene	130	U	130	31	ug/L			10/22/17 20:51	133.333
1,1,2,2-Tetrachloroethane	130	U	130	43	ug/L			10/22/17 20:51	133.333
Tetrachloroethene	130	U	130	40	ug/L			10/22/17 20:51	133.333
Toluene	130	U	130	31	ug/L			10/22/17 20:51	133.333
Trichloroethene	**360**		130	44	ug/L			10/22/17 20:51	133.333
Vinyl chloride	**170**		130	60	ug/L			10/22/17 20:51	133.333
Xylenes, Total	270	U	270	32	ug/L			10/22/17 20:51	133.333
1,1,1-Trichloroethane	130	U	130	31	ug/L			10/22/17 20:51	133.333
1,1,2-Trichloroethane	130	U	130	45	ug/L			10/22/17 20:51	133.333
cis-1,2-Dichloroethene	**5400**		130	40	ug/L			10/22/17 20:51	133.333
trans-1,2-Dichloroethene	**61**	**J**	130	39	ug/L			10/22/17 20:51	133.333
Chlorodibromomethane	130	U	130	33	ug/L			10/22/17 20:51	133.333

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*61 - 138*		*10/22/17 20:51*	*133.333*
4-Bromofluorobenzene (Surr)	*97*		*69 - 120*		*10/22/17 20:51*	*133.333*
Toluene-d8 (Surr)	*108*		*73 - 120*		*10/22/17 20:51*	*133.333*
Dibromofluoromethane (Surr)	*104*		*69 - 124*		*10/22/17 20:51*	*133.333*

Client Sample ID: GW-101017-BE-011
Date Collected: 10/10/17 15:24
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**250**	**J B**	1300	230	ug/L			10/22/17 21:16	133.333
Benzene	130	U	130	37	ug/L			10/22/17 21:16	133.333
Dichlorobromomethane	130	U	130	40	ug/L			10/22/17 21:16	133.333
Bromoform	130	U	130	57	ug/L			10/22/17 21:16	133.333
Bromomethane	130	U	130	56	ug/L			10/22/17 21:16	133.333

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

Client Sample ID: GW-101017-BE-011
Date Collected: 10/10/17 15:24
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	1300	U	1300	140	ug/L			10/22/17 21:16	133.333
Carbon disulfide	130	U	130	45	ug/L			10/22/17 21:16	133.333
Carbon tetrachloride	130	U	130	47	ug/L			10/22/17 21:16	133.333
Chlorobenzene	130	U	130	43	ug/L			10/22/17 21:16	133.333
Chloroethane	130	U	130	55	ug/L			10/22/17 21:16	133.333
Chloroform	130	U	130	41	ug/L			10/22/17 21:16	133.333
Chloromethane	130	U	130	57	ug/L			10/22/17 21:16	133.333
1,1-Dichloroethane	**160**		130	33	ug/L			10/22/17 21:16	133.333
1,2-Dichloroethane	130	U	130	40	ug/L			10/22/17 21:16	133.333
1,1-Dichloroethene	**64**	**J**	130	36	ug/L			10/22/17 21:16	133.333
1,2-Dichloropropane	130	U	130	40	ug/L			10/22/17 21:16	133.333
cis-1,3-Dichloropropene	130	U	130	35	ug/L			10/22/17 21:16	133.333
trans-1,3-Dichloropropene	130	U	130	41	ug/L			10/22/17 21:16	133.333
Ethylbenzene	130	U	130	35	ug/L			10/22/17 21:16	133.333
2-Hexanone	1300	U	1300	160	ug/L			10/22/17 21:16	133.333
Methylene Chloride	130	U	130	71	ug/L			10/22/17 21:16	133.333
4-Methyl-2-pentanone (MIBK)	1300	U	1300	95	ug/L			10/22/17 21:16	133.333
Styrene	130	U	130	31	ug/L			10/22/17 21:16	133.333
1,1,2,2-Tetrachloroethane	130	U	130	43	ug/L			10/22/17 21:16	133.333
Tetrachloroethene	130	U	130	40	ug/L			10/22/17 21:16	133.333
Toluene	130	U	130	31	ug/L			10/22/17 21:16	133.333
Trichloroethene	**350**		130	44	ug/L			10/22/17 21:16	133.333
Vinyl chloride	**180**		130	60	ug/L			10/22/17 21:16	133.333
Xylenes, Total	270	U	270	32	ug/L			10/22/17 21:16	133.333
1,1,1-Trichloroethane	130	U	130	31	ug/L			10/22/17 21:16	133.333
1,1,2-Trichloroethane	130	U	130	45	ug/L			10/22/17 21:16	133.333
cis-1,2-Dichloroethene	**5500**		130	40	ug/L			10/22/17 21:16	133.333
trans-1,2-Dichloroethene	**57**	**J**	130	39	ug/L			10/22/17 21:16	133.333
Chlorodibromomethane	130	U	130	33	ug/L			10/22/17 21:16	133.333

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*61 - 138*		*10/22/17 21:16*	*133.333*
4-Bromofluorobenzene (Surr)	*96*		*69 - 120*		*10/22/17 21:16*	*133.333*
Toluene-d8 (Surr)	*106*		*73 - 120*		*10/22/17 21:16*	*133.333*
Dibromofluoromethane (Surr)	*106*		*69 - 124*		*10/22/17 21:16*	*133.333*

Client Sample ID: GW-101017-BE-012
Date Collected: 10/10/17 17:07
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	670	U	670	120	ug/L			10/22/17 21:41	66.667
Benzene	67	U	67	19	ug/L			10/22/17 21:41	66.667
Dichlorobromomethane	67	U	67	20	ug/L			10/22/17 21:41	66.667
Bromoform	67	U	67	29	ug/L			10/22/17 21:41	66.667
Bromomethane	67	U	67	28	ug/L			10/22/17 21:41	66.667
2-Butanone (MEK)	670	U	670	68	ug/L			10/22/17 21:41	66.667
Carbon disulfide	67	U	67	23	ug/L			10/22/17 21:41	66.667
Carbon tetrachloride	67	U	67	23	ug/L			10/22/17 21:41	66.667
Chlorobenzene	67	U	67	21	ug/L			10/22/17 21:41	66.667
Chloroethane	67	U	67	27	ug/L			10/22/17 21:41	66.667

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

Client Sample ID: GW-101017-BE-012
Date Collected: 10/10/17 17:07
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	67	U	67	21	ug/L			10/22/17 21:41	66.667
Chloromethane	67	U	67	29	ug/L			10/22/17 21:41	66.667
1,1-Dichloroethane	**150**		67	17	ug/L			10/22/17 21:41	66.667
1,2-Dichloroethane	67	U	67	20	ug/L			10/22/17 21:41	66.667
1,1-Dichloroethene	67	U	67	18	ug/L			10/22/17 21:41	66.667
1,2-Dichloropropane	67	U	67	20	ug/L			10/22/17 21:41	66.667
cis-1,3-Dichloropropene	67	U	67	17	ug/L			10/22/17 21:41	66.667
trans-1,3-Dichloropropene	67	U	67	21	ug/L			10/22/17 21:41	66.667
Ethylbenzene	67	U	67	17	ug/L			10/22/17 21:41	66.667
2-Hexanone	670	U	670	82	ug/L			10/22/17 21:41	66.667
Methylene Chloride	67	U	67	35	ug/L			10/22/17 21:41	66.667
4-Methyl-2-pentanone (MIBK)	670	U	670	47	ug/L			10/22/17 21:41	66.667
Styrene	67	U	67	15	ug/L			10/22/17 21:41	66.667
1,1,2,2-Tetrachloroethane	67	U	67	21	ug/L			10/22/17 21:41	66.667
Tetrachloroethene	67	U	67	20	ug/L			10/22/17 21:41	66.667
Toluene	67	U	67	15	ug/L			10/22/17 21:41	66.667
Trichloroethene	67	U	67	22	ug/L			10/22/17 21:41	66.667
Vinyl chloride	**75**		67	30	ug/L			10/22/17 21:41	66.667
Xylenes, Total	130	U	130	16	ug/L			10/22/17 21:41	66.667
1,1,1-Trichloroethane	67	U	67	15	ug/L			10/22/17 21:41	66.667
1,1,2-Trichloroethane	67	U	67	23	ug/L			10/22/17 21:41	66.667
cis-1,2-Dichloroethene	**3000**		67	20	ug/L			10/22/17 21:41	66.667
trans-1,2-Dichloroethene	**150**		67	19	ug/L			10/22/17 21:41	66.667
Chlorodibromomethane	67	U	67	17	ug/L			10/22/17 21:41	66.667

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*61 - 138*		*10/22/17 21:41*	*66.667*
4-Bromofluorobenzene (Surr)	*96*		*69 - 120*		*10/22/17 21:41*	*66.667*
Toluene-d8 (Surr)	*107*		*73 - 120*		*10/22/17 21:41*	*66.667*
Dibromofluoromethane (Surr)	*103*		*69 - 124*		*10/22/17 21:41*	*66.667*

Client Sample ID: TB-101017-BE-001
Date Collected: 10/10/17 18:00
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**5.3**	**J B**	10	1.8	ug/L			10/22/17 14:16	1
Benzene	1.0	U	1.0	0.28	ug/L			10/22/17 14:16	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/22/17 14:16	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/22/17 14:16	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/22/17 14:16	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/22/17 14:16	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/22/17 14:16	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/22/17 14:16	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/22/17 14:16	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/22/17 14:16	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/22/17 14:16	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/22/17 14:16	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/22/17 14:16	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/22/17 14:16	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/22/17 14:16	1

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

Client Sample ID: TB-101017-BE-001
Date Collected: 10/10/17 18:00
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/22/17 14:16	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/22/17 14:16	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/22/17 14:16	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/22/17 14:16	1
2-Hexanone	10	U	10	1.2	ug/L			10/22/17 14:16	1
Methylene Chloride	**1.6**		1.0	0.53	ug/L			10/22/17 14:16	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/22/17 14:16	1
Styrene	1.0	U	1.0	0.23	ug/L			10/22/17 14:16	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/22/17 14:16	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/22/17 14:16	1
Toluene	1.0	U	1.0	0.23	ug/L			10/22/17 14:16	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/22/17 14:16	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/22/17 14:16	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/22/17 14:16	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/22/17 14:16	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/22/17 14:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/22/17 14:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/22/17 14:16	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/22/17 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*61 - 138*		*10/22/17 14:16*	*1*
4-Bromofluorobenzene (Surr)	*98*		*69 - 120*		*10/22/17 14:16*	*1*
Toluene-d8 (Surr)	*108*		*73 - 120*		*10/22/17 14:16*	*1*
Dibromofluoromethane (Surr)	*107*		*69 - 124*		*10/22/17 14:16*	*1*

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-86272-2

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(61-138)	(69-120)	(73-120)	(69-124)
240-86272-1	GW-100617-BE-001	95	72	107	108
240-86272-2	GW-100617-BE-002	96	73	103	108
240-86272-3	GW-100617-BE-003	96	71	100	103
240-86272-4	GW-100617-BE-004	97	74	108	107
240-86272-5	GW-100917-BE-005	102	78	104	110
240-86272-6	GW-100917-BE-006	99	75	107	108
240-86272-7	GW-100917-BE-007	99	75	109	108
240-86272-8	GW-100917-BE-008	96	69	103	106
240-86272-9	GW-101017-BE-009	105	95	108	105
240-86272-10	GW-101017-BE-010	101	97	108	104
240-86272-11	GW-101017-BE-011	106	96	106	106
240-86272-12	GW-101017-BE-012	103	96	107	103
240-86272-13	TB-101017-BE-001	105	98	108	107
LCS 240-299945/4	Lab Control Sample	95	85	109	103
LCS 240-300087/4	Lab Control Sample	103	101	110	107
MB 240-299945/6	Method Blank	103	77	108	106
MB 240-300087/6	Method Blank	100	101	109	105

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Lab Sample ID: MB 240-299945/6
Matrix: Water
Analysis Batch: 299945

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			10/20/17 11:32	1
Benzene	1.0	U	1.0	0.28	ug/L			10/20/17 11:32	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/20/17 11:32	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/20/17 11:32	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/20/17 11:32	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/20/17 11:32	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/20/17 11:32	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/20/17 11:32	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/20/17 11:32	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/20/17 11:32	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/20/17 11:32	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/20/17 11:32	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/20/17 11:32	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/20/17 11:32	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/20/17 11:32	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/20/17 11:32	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/20/17 11:32	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/20/17 11:32	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/20/17 11:32	1
2-Hexanone	10	U	10	1.2	ug/L			10/20/17 11:32	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			10/20/17 11:32	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/20/17 11:32	1
Styrene	1.0	U	1.0	0.23	ug/L			10/20/17 11:32	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/20/17 11:32	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/20/17 11:32	1
Toluene	1.0	U	1.0	0.23	ug/L			10/20/17 11:32	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/20/17 11:32	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/20/17 11:32	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/20/17 11:32	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/20/17 11:32	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/20/17 11:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/20/17 11:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/20/17 11:32	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/20/17 11:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*61 - 138*		*10/20/17 11:32*	*1*
4-Bromofluorobenzene (Surr)	*77*		*69 - 120*		*10/20/17 11:32*	*1*
Toluene-d8 (Surr)	*108*		*73 - 120*		*10/20/17 11:32*	*1*
Dibromofluoromethane (Surr)	*106*		*69 - 124*		*10/20/17 11:32*	*1*

Lab Sample ID: LCS 240-299945/4
Matrix: Water
Analysis Batch: 299945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acetone			20.0	14.4		ug/L		72	35 - 131		
Benzene			10.0	10.3		ug/L		103	79 - 120		

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

Lab Sample ID: LCS 240-299945/4
Matrix: Water
Analysis Batch: 299945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorobromomethane	10.0	9.68		ug/L		97	79 - 125
Bromoform	10.0	7.01		ug/L		70	55 - 145
Bromomethane	10.0	11.5		ug/L		115	17 - 158
2-Butanone (MEK)	20.0	17.9		ug/L		90	43 - 149
Carbon disulfide	10.0	12.6		ug/L		126	49 - 141
Carbon tetrachloride	10.0	10.8		ug/L		108	55 - 171
Chlorobenzene	10.0	10.0		ug/L		100	80 - 120
Chloroethane	10.0	16.3	*	ug/L		163	10 - 149
Chloroform	10.0	10.2		ug/L		102	80 - 120
Chloromethane	10.0	8.14		ug/L		81	59 - 124
1,1-Dichloroethane	10.0	10.2		ug/L		102	74 - 120
1,2-Dichloroethane	10.0	9.87		ug/L		99	68 - 133
1,1-Dichloroethene	10.0	10.8		ug/L		108	65 - 127
1,2-Dichloropropane	10.0	10.7		ug/L		107	78 - 127
cis-1,3-Dichloropropene	10.0	9.47		ug/L		95	75 - 120
trans-1,3-Dichloropropene	10.0	8.91		ug/L		89	67 - 120
Ethylbenzene	10.0	9.56		ug/L		96	80 - 120
2-Hexanone	20.0	15.1		ug/L		76	28 - 169
Methylene Chloride	10.0	10.5		ug/L		105	64 - 140
4-Methyl-2-pentanone (MIBK)	20.0	17.6		ug/L		88	53 - 144
Styrene	10.0	9.03		ug/L		90	80 - 121
1,1,2,2-Tetrachloroethane	10.0	12.0		ug/L		120	58 - 122
Tetrachloroethene	10.0	10.6		ug/L		106	80 - 122
Toluene	10.0	10.5		ug/L		105	78 - 120
Trichloroethene	10.0	10.5		ug/L		105	76 - 124
Vinyl chloride	10.0	11.4		ug/L		114	65 - 124
Xylenes, Total	20.0	18.8		ug/L		94	80 - 120
1,1,1-Trichloroethane	10.0	10.8		ug/L		108	64 - 147
1,1,2-Trichloroethane	10.0	11.6		ug/L		116	76 - 121
cis-1,2-Dichloroethene	10.0	10.8		ug/L		108	77 - 120
trans-1,2-Dichloroethene	10.0	10.5		ug/L		105	74 - 124
Chlorodibromomethane	10.0	8.97		ug/L		90	64 - 129
m-Xylene & p-Xylene	10.0	9.41		ug/L		94	80 - 120
o-Xylene	10.0	9.38		ug/L		94	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*61 - 138*
4-Bromofluorobenzene (Surr)	*85*		*69 - 120*
Toluene-d8 (Surr)	*109*		*73 - 120*
Dibromofluoromethane (Surr)	*103*		*69 - 124*

Lab Sample ID: MB 240-300087/6
Matrix: Water
Analysis Batch: 300087

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.08	J	10	1.8	ug/L			10/22/17 12:36	1
Benzene	1.0	U	1.0	0.28	ug/L			10/22/17 12:36	1

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

Lab Sample ID: MB 240-300087/6
Matrix: Water
Analysis Batch: 300087

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/22/17 12:36	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/22/17 12:36	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/22/17 12:36	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/22/17 12:36	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/22/17 12:36	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/22/17 12:36	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/22/17 12:36	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/22/17 12:36	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/22/17 12:36	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/22/17 12:36	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/22/17 12:36	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/22/17 12:36	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/22/17 12:36	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/22/17 12:36	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/22/17 12:36	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/22/17 12:36	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/22/17 12:36	1
2-Hexanone	10	U	10	1.2	ug/L			10/22/17 12:36	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			10/22/17 12:36	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/22/17 12:36	1
Styrene	1.0	U	1.0	0.23	ug/L			10/22/17 12:36	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/22/17 12:36	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/22/17 12:36	1
Toluene	1.0	U	1.0	0.23	ug/L			10/22/17 12:36	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/22/17 12:36	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/22/17 12:36	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/22/17 12:36	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/22/17 12:36	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/22/17 12:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/22/17 12:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/22/17 12:36	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/22/17 12:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*61 - 138*		*10/22/17 12:36*	*1*
4-Bromofluorobenzene (Surr)	*101*		*69 - 120*		*10/22/17 12:36*	*1*
Toluene-d8 (Surr)	*109*		*73 - 120*		*10/22/17 12:36*	*1*
Dibromofluoromethane (Surr)	*105*		*69 - 124*		*10/22/17 12:36*	*1*

Lab Sample ID: LCS 240-300087/4
Matrix: Water
Analysis Batch: 300087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	52.8		ug/L		106	35 - 131
Benzene	25.0	28.4		ug/L		114	79 - 120
Dichlorobromomethane	25.0	28.5		ug/L		114	79 - 125
Bromoform	25.0	21.6		ug/L		87	55 - 145

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

Lab Sample ID: LCS 240-300087/4
Matrix: Water
Analysis Batch: 300087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	10.0	9.93		ug/L		99	17 - 158
2-Butanone (MEK)	50.0	51.5		ug/L		103	43 - 149
Carbon disulfide	25.0	29.7		ug/L		119	49 - 141
Carbon tetrachloride	25.0	25.7		ug/L		103	55 - 171
Chlorobenzene	25.0	26.7		ug/L		107	80 - 120
Chloroethane	10.0	9.97		ug/L		100	10 - 149
Chloroform	25.0	27.9		ug/L		111	80 - 120
Chloromethane	10.0	11.9		ug/L		119	59 - 124
1,1-Dichloroethane	25.0	28.3		ug/L		113	74 - 120
1,2-Dichloroethane	25.0	27.2		ug/L		109	68 - 133
1,1-Dichloroethene	25.0	27.0		ug/L		108	65 - 127
1,2-Dichloropropane	25.0	28.6		ug/L		114	78 - 127
cis-1,3-Dichloropropene	25.0	25.1		ug/L		100	75 - 120
trans-1,3-Dichloropropene	25.0	22.4		ug/L		90	67 - 120
Ethylbenzene	25.0	28.8		ug/L		115	80 - 120
2-Hexanone	50.0	55.4		ug/L		111	28 - 169
Methylene Chloride	25.0	25.8		ug/L		103	64 - 140
4-Methyl-2-pentanone (MIBK)	50.0	55.3		ug/L		111	53 - 144
Styrene	25.0	28.0		ug/L		112	80 - 121
1,1,2,2-Tetrachloroethane	25.0	27.4		ug/L		109	58 - 122
Tetrachloroethene	25.0	29.7		ug/L		119	80 - 122
Toluene	25.0	27.8		ug/L		111	78 - 120
Trichloroethene	25.0	29.1		ug/L		117	76 - 124
Vinyl chloride	10.0	11.1		ug/L		111	65 - 124
Xylenes, Total	50.0	56.7		ug/L		113	80 - 120
1,1,1-Trichloroethane	25.0	26.9		ug/L		108	64 - 147
1,1,2-Trichloroethane	25.0	27.8		ug/L		111	76 - 121
cis-1,2-Dichloroethene	25.0	27.4		ug/L		110	77 - 120
trans-1,2-Dichloroethene	25.0	29.8		ug/L		119	74 - 124
Chlorodibromomethane	25.0	24.1		ug/L		96	64 - 129
m-Xylene & p-Xylene	25.0	28.6		ug/L		114	80 - 120
o-Xylene	25.0	28.1		ug/L		112	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*61 - 138*
4-Bromofluorobenzene (Surr)	*101*		*69 - 120*
Toluene-d8 (Surr)	*110*		*73 - 120*
Dibromofluoromethane (Surr)	*107*		*69 - 124*

QC Association Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-86272-2

GC/MS VOA

Analysis Batch: 299945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86272-1	GW-100617-BE-001	Total/NA	Water	8260B	
240-86272-2	GW-100617-BE-002	Total/NA	Water	8260B	
240-86272-3	GW-100617-BE-003	Total/NA	Water	8260B	
240-86272-4	GW-100617-BE-004	Total/NA	Water	8260B	
240-86272-5	GW-100917-BE-005	Total/NA	Water	8260B	
240-86272-6	GW-100917-BE-006	Total/NA	Water	8260B	
240-86272-7	GW-100917-BE-007	Total/NA	Water	8260B	
240-86272-8	GW-100917-BE-008	Total/NA	Water	8260B	
MB 240-299945/6	Method Blank	Total/NA	Water	8260B	
LCS 240-299945/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 300087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86272-9	GW-101017-BE-009	Total/NA	Water	8260B	
240-86272-10	GW-101017-BE-010	Total/NA	Water	8260B	
240-86272-11	GW-101017-BE-011	Total/NA	Water	8260B	
240-86272-12	GW-101017-BE-012	Total/NA	Water	8260B	
240-86272-13	TB-101017-BE-001	Total/NA	Water	8260B	
MB 240-300087/6	Method Blank	Total/NA	Water	8260B	
LCS 240-300087/4	Lab Control Sample	Total/NA	Water	8260B	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-86272-2

Client Sample ID: GW-100617-BE-001
Lab Sample ID: 240-86272-1
Date Collected: 10/06/17 10:53
Matrix: Water
Date Received: 10/11/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	299945	10/20/17 11:55	LEE	TAL CAN

Client Sample ID: GW-100617-BE-002
Lab Sample ID: 240-86272-2
Date Collected: 10/06/17 12:14
Matrix: Water
Date Received: 10/11/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		3.33	299945	10/20/17 12:17	LEE	TAL CAN

Client Sample ID: GW-100617-BE-003
Lab Sample ID: 240-86272-3
Date Collected: 10/06/17 14:37
Matrix: Water
Date Received: 10/11/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	299945	10/20/17 13:28	LEE	TAL CAN

Client Sample ID: GW-100617-BE-004
Lab Sample ID: 240-86272-4
Date Collected: 10/06/17 16:03
Matrix: Water
Date Received: 10/11/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		3.33	299945	10/20/17 13:02	LEE	TAL CAN

Client Sample ID: GW-100917-BE-005
Lab Sample ID: 240-86272-5
Date Collected: 10/09/17 11:27
Matrix: Water
Date Received: 10/11/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	299945	10/20/17 19:28	LEE	TAL CAN

Client Sample ID: GW-100917-BE-006
Lab Sample ID: 240-86272-6
Date Collected: 10/09/17 12:27
Matrix: Water
Date Received: 10/11/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		40	299945	10/20/17 13:50	LEE	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-86272-2

Client Sample ID: GW-100917-BE-007
Lab Sample ID: 240-86272-7
Date Collected: 10/09/17 14:50
Matrix: Water
Date Received: 10/11/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	299945	10/20/17 14:12	LEE	TAL CAN

Client Sample ID: GW-100917-BE-008
Lab Sample ID: 240-86272-8
Date Collected: 10/09/17 15:52
Matrix: Water
Date Received: 10/11/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	299945	10/20/17 14:35	LEE	TAL CAN

Client Sample ID: GW-101017-BE-009
Lab Sample ID: 240-86272-9
Date Collected: 10/10/17 12:55
Matrix: Water
Date Received: 10/11/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		6.667	300087	10/22/17 20:26	SAM	TAL CAN

Client Sample ID: GW-101017-BE-010
Lab Sample ID: 240-86272-10
Date Collected: 10/10/17 15:20
Matrix: Water
Date Received: 10/11/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		133.333	300087	10/22/17 20:51	SAM	TAL CAN

Client Sample ID: GW-101017-BE-011
Lab Sample ID: 240-86272-11
Date Collected: 10/10/17 15:24
Matrix: Water
Date Received: 10/11/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		133.333	300087	10/22/17 21:16	SAM	TAL CAN

Client Sample ID: GW-101017-BE-012
Lab Sample ID: 240-86272-12
Date Collected: 10/10/17 17:07
Matrix: Water
Date Received: 10/11/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		66.667	300087	10/22/17 21:41	SAM	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-86272-2

Client Sample ID: TB-101017-BE-001
Date Collected: 10/10/17 18:00
Date Received: 10/11/17 09:15

Lab Sample ID: 240-86272-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300087	10/22/17 14:16	SAM	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-86272-2

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-18 *
West Virginia DEP	State Program	3	210	12-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

1.8/C1.8

COC NO.: IN- 14966
PAGE 1 OF 1
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017302-T07	Laboratory Name: Test America-North Canton	Lab Location: North Canton, OH	SSOW ID: 017302-T07
Project Name: MLK	Lab Contact: Denise Heckler	Lab Quote No:	Cooler No: 1 of 1
Project Location: Anderson, IN			Carrier: Fed Ex
Chemistry Contact: Deborah Andrasko			Airbill No: 8111 7068 6022
Sampler(s): Brynn Einecker			Date Shipped: 10/10/17

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Container Quantity & Preservation: Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	Analysis Requested: VOC	Alkalinity, Bicarbonate	TOC	Dissolved gases	Hardness	DOC	Manganese	Calc - Sulfide	Chloride, Sulfate, Nitrate, Nitrite	MS/MSD Request	Comments/ Special Instructions:
1	GW-100617-BE-001	10/06/17	1053	WG	G		3							3	✓										
2	GW-100617-BE-002	10/6/17	1214	WG	G		3							3	✓										
3	GW-100617-BE-003	10/6/17	1437	WG	G		3							3	✓										
4	GW-100617-BE-004	10/6/17	1603	WG	G		3							3	✓										
5	GW-100917-BE-005	10/9/17	1127	WG	G		3							3	✓										
6	GW-100917-BE-006	10/9/17	1227	WG	G		3							3	✓										
7	GW-100917-BE-007	10/9/17	1450	WG	G		3							3	✓										
8	GW-100917-BE-008	10/9/17	1552	WG	G		3							3	✓										
9	GW-101017-BE-009	10/10/17	1255	WG	G	2	6	2	6	1				17	✓	✓	✓	✓	✓	✓	✓	✓	✓		
10	GW-101017-BE-010	10/10/17	1520	WG	G	2	6	2	6	1				17	✓	✓	✓	✓	✓	✓	✓	✓	✓		
11	GW-101017-BE-011	10/10/17	1524	WG	G	2	6	2	6	1				17	✓	✓	✓	✓	✓	✓	✓	✓	✓		
12	GW-101017-BE-012	10/10/17	1707	WG	G	2	6	2	6	1				17	✓	✓	✓	✓	✓	✓	✓	✓	✓		
13	TB-101017-BE-001	10/10/17	1830				1							1	✓										
14																									
15																									

240-86272 Chain of Custody

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 93
All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Brynn Einecker	GHD	10/10/17	1845	1. Zach	T/A	10/11/17	915
				2.			
				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 84272**
Canton Facility

Client CRA Site Name _____ Cooler unpacked by:

Cooler Received on 10/11/17 Opened on 10/11/17

FedEx: 1st Grd (Exp) UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box (Client Cooler) Box Other _____

Packing material used: (Bubble Wrap) Foam (Plastic Bag) None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp. 1.8 °C Corrected Cooler Temp. 1.8 °C

IR GUN #36 (CF +0.3°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN # 627 (CF -1.3°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3. Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5. Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	(Yes)	No
7. Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8. Could all bottle labels be reconciled with the COC?	(Yes)	No
9. Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
10. Sufficient quantity received to perform indicated analyses?	(Yes)	No
11. Are these work share samples?	Yes	(No)
If yes, Questions 11-15 have been checked at the originating laboratory.		
11. Were all preserved sample(s) at the correct pH upon receipt?	(Yes)	No NA pH Strip Lot# **HC697954**
12. Were VOAs on the COC?	(Yes)	No
13. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	(No) NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Covered	(Yes)	No
15. Was a LL Hg or Me Hg trip blank present? _____	Yes	(No)

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

17. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
GW-101017-BE-009	240-86272-N-9	Plastic 250ml - with Nitric Acid	<2		
GW-101017-BE-009	240-86272-P-9	Plastic 500ml - with Zn Acetate and	>9		
GW-101017-BE-009	240-86272-Q-9	Plastic 500ml - w/ Nitric - Dis.	<2		
GW-101017-BE-010	240-86272-N-10	Plastic 250ml - with Nitric Acid	<2		
GW-101017-BE-010	240-86272-P-10	Plastic 500ml - with Zn Acetate and	>9		
GW-101017-BE-010	240-86272-Q-10	Plastic 500ml - w/ Nitric - Dis.	<2		
GW-101017-BE-011	240-86272-N-11	Plastic 250ml - with Nitric Acid	<2		
GW-101017-BE-011	240-86272-P-11	Plastic 500ml - with Zn Acetate and	>9		
GW-101017-BE-011	240-86272-Q-11	Plastic 500ml - w/ Nitric - Dis.	<2		
GW-101017-BE-012	240-86272-N-12	Plastic 250ml - with Nitric Acid	<2		
GW-101017-BE-012	240-86272-P-12	Plastic 500ml - with Zn Acetate and	>9		
GW-101017-BE-012	240-86272-Q-12	Plastic 500ml - w/ Nitric - Dis.	<2		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-86342-1
Client Project/Site: 17302, RACER Delphi Anderson

For:
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko

Authorized for release by:
10/26/2017 4:23:25 PM
Leslie Howell, Project Manager I
leslie.howell@testamericainc.com

Designee for

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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.

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86342-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
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
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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	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)

Job ID: 240-86342-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-86342-1

Comments
No additional comments.

Receipt
The samples were received on 10/12/2017 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6º C.

GC VOA
Method(s) RSK-175: The associated RSK samples were analyzed following the requirements of a revised RSK SOP. Samples were analyzed to avoid hold time violations while the SOP is still waiting final approval signatures. The following samples are impacted: GW-101117-BE-013 (240-86342-1), GW-101117-BE-015 (240-86342-4), GW-101117-BE-016 (240-86342-5), (CCV 240-300256/17), (CCVRT 240-300256/3), (LCS 240-300256/5), (LCSD 240-300256/6) and (MB 240-300256/4).

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.

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

Method Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86342-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
2320B-1997	Alkalinity, Total	SM	TAL CAN
2340C-1997	Hardness, Total	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL CAN
9060	Organic Carbon, Dissolved (DOC)	SW846	TAL CAN
9060	Organic Carbon, Total (TOC)	SW846	TAL CAN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86342-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-86342-1	GW-101117-BE-013	Water	10/11/17 10:32	10/12/17 09:15
240-86342-4	GW-101117-BE-015	Water	10/11/17 14:26	10/12/17 09:15
240-86342-5	GW-101117-BE-016	Water	10/11/17 16:21	10/12/17 09:15

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86342-1

Client Sample ID: GW-101117-BE-013 — Lab Sample ID: 240-86342-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	5.3		1.0	0.17	ug/L	1		RSK-175	Total/NA
Ethylene	1.3		1.0	0.11	ug/L	1		RSK-175	Total/NA
Manganese	250		15	5.1	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	250	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	5.5		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	400		25	12	mg/L	1		2340C-1997	Total/NA
Chloride	29		1.0	0.28	mg/L	1		300.0	Total/NA
Sulfate	72		1.0	0.35	mg/L	1		300.0	Total/NA
Total Organic Carbon	1.4		1.0	0.14	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	1.6		1.0	0.14	mg/L	1		9060	Dissolved

Client Sample ID: GW-101117-BE-015 — Lab Sample ID: 240-86342-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	7.6		1.0	0.17	ug/L	1		RSK-175	Total/NA
Ethane	0.24	J	1.0	0.10	ug/L	1		RSK-175	Total/NA
Ethylene	2.3		1.0	0.11	ug/L	1		RSK-175	Total/NA
Manganese	94		15	5.1	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	240	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	450		25	12	mg/L	1		2340C-1997	Total/NA
Chloride	44		1.0	0.28	mg/L	1		300.0	Total/NA
Sulfate	67		1.0	0.35	mg/L	1		300.0	Total/NA
Total Organic Carbon	1.0		1.0	0.14	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	1.1		1.0	0.14	mg/L	1		9060	Dissolved

Client Sample ID: GW-101117-BE-016 — Lab Sample ID: 240-86342-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	1.8		1.0	0.17	ug/L	1		RSK-175	Total/NA
Ethane	3.8		1.0	0.10	ug/L	1		RSK-175	Total/NA
Ethylene	1.3		1.0	0.11	ug/L	1		RSK-175	Total/NA
Manganese	180		15	5.1	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	230	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	390		25	12	mg/L	1		2340C-1997	Total/NA
Chloride	19		1.0	0.28	mg/L	1		300.0	Total/NA
Nitrite as N	0.018	J	0.10	0.014	mg/L	1		300.0	Total/NA
Nitrate as N	0.32		0.10	0.014	mg/L	1		300.0	Total/NA
Sulfate	92		1.0	0.35	mg/L	1		300.0	Total/NA
Total Organic Carbon	4.2		1.0	0.14	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	4.0		1.0	0.14	mg/L	1		9060	Dissolved

This Detection Summary does not include radiochemical test results.

Method: RSK-175 - Dissolved Gases (GC)

Client Sample ID: GW-101117-BE-013
Date Collected: 10/11/17 10:32
Date Received: 10/12/17 09:15

Lab Sample ID: 240-86342-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**5.3**		1.0	0.17	ug/L			10/23/17 22:46	1
Ethane	1.0	U	1.0	0.10	ug/L			10/23/17 22:46	1
Ethylene	**1.3**		1.0	0.11	ug/L			10/23/17 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*84*		*60 - 140*		*10/23/17 22:46*	*1*

Client Sample ID: GW-101117-BE-015
Date Collected: 10/11/17 14:26
Date Received: 10/12/17 09:15

Lab Sample ID: 240-86342-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**7.6**		1.0	0.17	ug/L			10/23/17 23:03	1
Ethane	**0.24**	**J**	1.0	0.10	ug/L			10/23/17 23:03	1
Ethylene	**2.3**		1.0	0.11	ug/L			10/23/17 23:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*83*		*60 - 140*		*10/23/17 23:03*	*1*

Client Sample ID: GW-101117-BE-016
Date Collected: 10/11/17 16:21
Date Received: 10/12/17 09:15

Lab Sample ID: 240-86342-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**1.8**		1.0	0.17	ug/L			10/23/17 23:20	1
Ethane	**3.8**		1.0	0.10	ug/L			10/23/17 23:20	1
Ethylene	**1.3**		1.0	0.11	ug/L			10/23/17 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*83*		*60 - 140*		*10/23/17 23:20*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86342-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-101117-BE-013
Date Collected: 10/11/17 10:32
Date Received: 10/12/17 09:15

Lab Sample ID: 240-86342-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	250		15	5.1	ug/L		10/16/17 14:00	10/18/17 06:43	1

Client Sample ID: GW-101117-BE-015
Date Collected: 10/11/17 14:26
Date Received: 10/12/17 09:15

Lab Sample ID: 240-86342-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	94		15	5.1	ug/L		10/16/17 14:00	10/18/17 06:48	1

Client Sample ID: GW-101117-BE-016
Date Collected: 10/11/17 16:21
Date Received: 10/12/17 09:15

Lab Sample ID: 240-86342-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	180		15	5.1	ug/L		10/16/17 14:00	10/18/17 06:52	1

General Chemistry

Client Sample ID: GW-101117-BE-013
Date Collected: 10/11/17 10:32
Date Received: 10/12/17 09:15

Lab Sample ID: 240-86342-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**250**	**B**	5.0	2.6	mg/L			10/16/17 17:39	1
Carbonate Alkalinity as CaCO3	**5.5**		5.0	2.6	mg/L			10/16/17 17:39	1
Hardness as calcium carbonate	**400**		25	12	mg/L			10/16/17 16:45	1
Chloride	**29**		1.0	0.28	mg/L			10/12/17 14:30	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/12/17 14:30	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/12/17 14:30	1
Sulfate	**72**		1.0	0.35	mg/L			10/12/17 14:30	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/17/17 09:04	10/17/17 13:38	1
Total Organic Carbon	**1.4**		1.0	0.14	mg/L			10/13/17 21:09	1

Client Sample ID: GW-101117-BE-015
Date Collected: 10/11/17 14:26
Date Received: 10/12/17 09:15

Lab Sample ID: 240-86342-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**240**	**B**	5.0	2.6	mg/L			10/16/17 18:02	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/16/17 18:02	1
Hardness as calcium carbonate	**450**		25	12	mg/L			10/16/17 16:45	1
Chloride	**44**		1.0	0.28	mg/L			10/12/17 14:50	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/12/17 14:50	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/12/17 14:50	1
Sulfate	**67**		1.0	0.35	mg/L			10/12/17 14:50	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/17/17 09:04	10/17/17 13:38	1
Total Organic Carbon	**1.0**		1.0	0.14	mg/L			10/13/17 21:36	1

Client Sample ID: GW-101117-BE-016
Date Collected: 10/11/17 16:21
Date Received: 10/12/17 09:15

Lab Sample ID: 240-86342-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**230**	**B**	5.0	2.6	mg/L			10/16/17 18:13	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/16/17 18:13	1
Hardness as calcium carbonate	**390**		25	12	mg/L			10/16/17 16:45	1
Chloride	**19**		1.0	0.28	mg/L			10/12/17 15:10	1
Nitrite as N	**0.018**	**J**	0.10	0.014	mg/L			10/12/17 15:10	1
Nitrate as N	**0.32**		0.10	0.014	mg/L			10/12/17 15:10	1
Sulfate	**92**		1.0	0.35	mg/L			10/12/17 15:10	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/17/17 09:04	10/17/17 13:38	1
Total Organic Carbon	**4.2**		1.0	0.14	mg/L			10/13/17 22:03	1

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86342-1

General Chemistry - Dissolved

Client Sample ID: GW-101117-BE-013
Date Collected: 10/11/17 10:32
Date Received: 10/12/17 09:15

Lab Sample ID: 240-86342-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.6		1.0	0.14	mg/L			10/17/17 11:24	1

Client Sample ID: GW-101117-BE-015
Date Collected: 10/11/17 14:26
Date Received: 10/12/17 09:15

Lab Sample ID: 240-86342-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.1		1.0	0.14	mg/L			10/17/17 11:51	1

Client Sample ID: GW-101117-BE-016
Date Collected: 10/11/17 16:21
Date Received: 10/12/17 09:15

Lab Sample ID: 240-86342-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	4.0		1.0	0.14	mg/L			10/17/17 12:18	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86342-1

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	rifluoroet (60-140)								
240-86342-1	GW-101117-BE-013	84								
240-86342-4	GW-101117-BE-015	83								
240-86342-5	GW-101117-BE-016	83								
LCS 240-300256/5	Lab Control Sample	84								
LCSD 240-300256/6	Lab Control Sample Dup	85								
MB 240-300256/4	Method Blank	88								

Surrogate Legend

1,1,1-Trifluoroethane = 1,1,1-Trifluoroethane

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 240-300256/4
Matrix: Water
Analysis Batch: 300256

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	1.0	U	1.0	0.17	ug/L			10/23/17 20:46	1
Ethane	1.0	U	1.0	0.10	ug/L			10/23/17 20:46	1
Ethylene	1.0	U	1.0	0.11	ug/L			10/23/17 20:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*88*		*60 - 140*		*10/23/17 20:46*	*1*

Lab Sample ID: LCS 240-300256/5
Matrix: Water
Analysis Batch: 300256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methane			285	283		ug/L		99	80 - 120		
Ethane			536	561		ug/L		105	80 - 120		
Ethylene			501	520		ug/L		104	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,1,1-Trifluoroethane	*84*		*60 - 140*

Lab Sample ID: LCSD 240-300256/6
Matrix: Water
Analysis Batch: 300256

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane			285	281		ug/L		99	80 - 120	1	35
Ethane			536	556		ug/L		104	80 - 120	1	35
Ethylene			501	518		ug/L		103	80 - 120	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,1,1-Trifluoroethane	*85*		*60 - 140*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-299215/1-A
Matrix: Water
Analysis Batch: 299409

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 299215

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	15	U	15	5.1	ug/L		10/16/17 14:00	10/18/17 05:44	1

Lab Sample ID: LCS 240-299215/2-A
Matrix: Water
Analysis Batch: 299409

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 299215

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Manganese			500	499		ug/L		100	80 - 120		

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-299304/30
Matrix: Water
Analysis Batch: 299304

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	2.61	J	5.0	2.6	mg/L			10/16/17 17:28	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/16/17 17:28	1

Lab Sample ID: 240-86342-1 DU
Matrix: Water
Analysis Batch: 299304

Client Sample ID: GW-101117-BE-013
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO3	250	B	249		mg/L		0.6	20
Carbonate Alkalinity as CaCO3	5.5		3.26	J F5	mg/L		50	20

Method: 2340C-1997 - Hardness, Total

Lab Sample ID: MB 240-299266/1
Matrix: Water
Analysis Batch: 299266

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	5.0	U	5.0	2.4	mg/L			10/16/17 16:45	1

Lab Sample ID: LCS 240-299266/2
Matrix: Water
Analysis Batch: 299266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness as calcium carbonate	184	200		mg/L		109	90 - 110

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-298726/3
Matrix: Water
Analysis Batch: 298726

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.28	mg/L			10/12/17 12:49	1
Sulfate	1.0	U	1.0	0.35	mg/L			10/12/17 12:49	1

Lab Sample ID: LCS 240-298726/4
Matrix: Water
Analysis Batch: 298726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.1		mg/L		100	90 - 110
Sulfate	50.0	51.8		mg/L		104	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 240-298727/3
Matrix: Water
Analysis Batch: 298727

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/12/17 12:49	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/12/17 12:49	1

Lab Sample ID: LCS 240-298727/4
Matrix: Water
Analysis Batch: 298727

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	2.50	2.46		mg/L		98	90 - 110
Nitrate as N	2.50	2.52		mg/L		101	90 - 110

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-299345/1-A
Matrix: Water
Analysis Batch: 299430

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 299345

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	3.0	U	3.0	1.4	mg/L		10/17/17 09:04	10/17/17 13:38	1

Lab Sample ID: LCS 240-299345/2-A
Matrix: Water
Analysis Batch: 299430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 299345

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	7.87	6.67		mg/L		85	70 - 120

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 240-299098/4
Matrix: Water
Analysis Batch: 299098

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.14	mg/L			10/13/17 13:31	1

Lab Sample ID: LCS 240-299098/6
Matrix: Water
Analysis Batch: 299098

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	21.8	21.1		mg/L		97	80 - 120

Lab Sample ID: LLCS 240-299098/5
Matrix: Water
Analysis Batch: 299098

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	2.18	2.17		mg/L		100	88 - 115

QC Sample Results

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86342-1

Method: 9060 - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 240-299497/4
Matrix: Water
Analysis Batch: 299497

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.0	U	1.0	0.14	mg/L			10/17/17 08:08	1

Lab Sample ID: LCS 240-299497/6
Matrix: Water
Analysis Batch: 299497

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	21.8	20.0		mg/L		92	80 - 120

Lab Sample ID: LLCS 240-299497/5
Matrix: Water
Analysis Batch: 299497

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	2.18	2.04		mg/L		93	88 - 115

QC Association Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86342-1

GC VOA

Analysis Batch: 300256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86342-1	GW-101117-BE-013	Total/NA	Water	RSK-175	
240-86342-4	GW-101117-BE-015	Total/NA	Water	RSK-175	
240-86342-5	GW-101117-BE-016	Total/NA	Water	RSK-175	
MB 240-300256/4	Method Blank	Total/NA	Water	RSK-175	
LCS 240-300256/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 240-300256/6	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Metals

Prep Batch: 299215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86342-1	GW-101117-BE-013	Dissolved	Water	3005A	
240-86342-4	GW-101117-BE-015	Dissolved	Water	3005A	
240-86342-5	GW-101117-BE-016	Dissolved	Water	3005A	
MB 240-299215/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-299215/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 299409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86342-1	GW-101117-BE-013	Dissolved	Water	6010B	299215
240-86342-4	GW-101117-BE-015	Dissolved	Water	6010B	299215
240-86342-5	GW-101117-BE-016	Dissolved	Water	6010B	299215
MB 240-299215/1-A	Method Blank	Total Recoverable	Water	6010B	299215
LCS 240-299215/2-A	Lab Control Sample	Total Recoverable	Water	6010B	299215

General Chemistry

Analysis Batch: 298726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86342-1	GW-101117-BE-013	Total/NA	Water	300.0	
240-86342-4	GW-101117-BE-015	Total/NA	Water	300.0	
240-86342-5	GW-101117-BE-016	Total/NA	Water	300.0	
MB 240-298726/3	Method Blank	Total/NA	Water	300.0	
LCS 240-298726/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 298727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86342-1	GW-101117-BE-013	Total/NA	Water	300.0	
240-86342-4	GW-101117-BE-015	Total/NA	Water	300.0	
240-86342-5	GW-101117-BE-016	Total/NA	Water	300.0	
MB 240-298727/3	Method Blank	Total/NA	Water	300.0	
LCS 240-298727/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 299098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86342-1	GW-101117-BE-013	Total/NA	Water	9060	
240-86342-4	GW-101117-BE-015	Total/NA	Water	9060	
240-86342-5	GW-101117-BE-016	Total/NA	Water	9060	
MB 240-299098/4	Method Blank	Total/NA	Water	9060	
LCS 240-299098/6	Lab Control Sample	Total/NA	Water	9060	

General Chemistry (Continued)

Analysis Batch: 299098 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 240-299098/5	Lab Control Sample	Total/NA	Water	9060	

Analysis Batch: 299266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86342-1	GW-101117-BE-013	Total/NA	Water	2340C-1997	
240-86342-4	GW-101117-BE-015	Total/NA	Water	2340C-1997	
240-86342-5	GW-101117-BE-016	Total/NA	Water	2340C-1997	
MB 240-299266/1	Method Blank	Total/NA	Water	2340C-1997	
LCS 240-299266/2	Lab Control Sample	Total/NA	Water	2340C-1997	

Analysis Batch: 299304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86342-1	GW-101117-BE-013	Total/NA	Water	2320B-1997	
240-86342-4	GW-101117-BE-015	Total/NA	Water	2320B-1997	
240-86342-5	GW-101117-BE-016	Total/NA	Water	2320B-1997	
MB 240-299304/30	Method Blank	Total/NA	Water	2320B-1997	
240-86342-1 DU	GW-101117-BE-013	Total/NA	Water	2320B-1997	

Prep Batch: 299345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86342-1	GW-101117-BE-013	Total/NA	Water	9030B	
240-86342-4	GW-101117-BE-015	Total/NA	Water	9030B	
240-86342-5	GW-101117-BE-016	Total/NA	Water	9030B	
MB 240-299345/1-A	Method Blank	Total/NA	Water	9030B	
LCS 240-299345/2-A	Lab Control Sample	Total/NA	Water	9030B	

Analysis Batch: 299430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86342-1	GW-101117-BE-013	Total/NA	Water	9034	299345
240-86342-4	GW-101117-BE-015	Total/NA	Water	9034	299345
240-86342-5	GW-101117-BE-016	Total/NA	Water	9034	299345
MB 240-299345/1-A	Method Blank	Total/NA	Water	9034	299345
LCS 240-299345/2-A	Lab Control Sample	Total/NA	Water	9034	299345

Analysis Batch: 299497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86342-1	GW-101117-BE-013	Dissolved	Water	9060	
240-86342-4	GW-101117-BE-015	Dissolved	Water	9060	
240-86342-5	GW-101117-BE-016	Dissolved	Water	9060	
MB 240-299497/4	Method Blank	Dissolved	Water	9060	
LCS 240-299497/6	Lab Control Sample	Dissolved	Water	9060	
LLCS 240-299497/5	Lab Control Sample	Dissolved	Water	9060	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86342-1

Client Sample ID: GW-101117-BE-013

Lab Sample ID: 240-86342-1

Date Collected: 10/11/17 10:32

Matrix: Water

Date Received: 10/12/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	300256	10/23/17 22:46	BPM	TAL CAN
Dissolved	Prep	3005A			299215	10/16/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	299409	10/18/17 06:43	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	299304	10/16/17 17:39	LKG	TAL CAN
Total/NA	Analysis	2340C-1997		1	299266	10/16/17 16:45	CL	TAL CAN
Total/NA	Analysis	300.0		1	298726	10/12/17 14:30	JWW	TAL CAN
Total/NA	Analysis	300.0		1	298727	10/12/17 14:30	JWW	TAL CAN
Total/NA	Prep	9030B			299345	10/17/17 09:04	JMB	TAL CAN
Total/NA	Analysis	9034		1	299430	10/17/17 13:38	JMB	TAL CAN
Dissolved	Analysis	9060		1	299497	10/17/17 11:24	TPH	TAL CAN
Total/NA	Analysis	9060		1	299098	10/13/17 21:09	TPH	TAL CAN

Client Sample ID: GW-101117-BE-015

Lab Sample ID: 240-86342-4

Date Collected: 10/11/17 14:26

Matrix: Water

Date Received: 10/12/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	300256	10/23/17 23:03	BPM	TAL CAN
Dissolved	Prep	3005A			299215	10/16/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	299409	10/18/17 06:48	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	299304	10/16/17 18:02	LKG	TAL CAN
Total/NA	Analysis	2340C-1997		1	299266	10/16/17 16:45	CL	TAL CAN
Total/NA	Analysis	300.0		1	298726	10/12/17 14:50	JWW	TAL CAN
Total/NA	Analysis	300.0		1	298727	10/12/17 14:50	JWW	TAL CAN
Total/NA	Prep	9030B			299345	10/17/17 09:04	JMB	TAL CAN
Total/NA	Analysis	9034		1	299430	10/17/17 13:38	JMB	TAL CAN
Dissolved	Analysis	9060		1	299497	10/17/17 11:51	TPH	TAL CAN
Total/NA	Analysis	9060		1	299098	10/13/17 21:36	TPH	TAL CAN

Client Sample ID: GW-101117-BE-016

Lab Sample ID: 240-86342-5

Date Collected: 10/11/17 16:21

Matrix: Water

Date Received: 10/12/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	300256	10/23/17 23:20	BPM	TAL CAN
Dissolved	Prep	3005A			299215	10/16/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	299409	10/18/17 06:52	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	299304	10/16/17 18:13	LKG	TAL CAN
Total/NA	Analysis	2340C-1997		1	299266	10/16/17 16:45	CL	TAL CAN
Total/NA	Analysis	300.0		1	298726	10/12/17 15:10	JWW	TAL CAN
Total/NA	Analysis	300.0		1	298727	10/12/17 15:10	JWW	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86342-1

Client Sample ID: GW-101117-BE-016
Date Collected: 10/11/17 16:21
Date Received: 10/12/17 09:15

Lab Sample ID: 240-86342-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9030B			299345	10/17/17 09:04	JMB	TAL CAN
Total/NA	Analysis	9034		1	299430	10/17/17 13:38	JMB	TAL CAN
Dissolved	Analysis	9060		1	299497	10/17/17 12:18	TPH	TAL CAN
Total/NA	Analysis	9060		1	299098	10/13/17 22:03	TPH	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86342-1

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-18 *
West Virginia DEP	State Program	3	210	12-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

1.6/C1.6

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: IN- 14967
PAGE 1 OF 1
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017302-T07	Laboratory Name: TestAmerica - North Canton	Lab Location: North Canton, OH	SSOW ID: 017302-T07
Project Name: MLK	Lab Contact: Denise Heckler	Lab Quote No:	Cooler No: 1 of 1
Project Location: Anderson, IN			Carrier: Fed Ex
Chemistry Contact: Deborah Andrasko			Airbill No:
Sampler(s): Brynn Finecker			Date Shipped: 10/11/17

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Sample Type: Matrix Code (see back of COC)	Sample Type: Grab (G) or Comp (C)	Container Quantity & Preservation: Unpreserved	HCl	HNO_3	H_2SO_4	NaOH	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	Analysis Requested: VOC	Alkalinity	bicarb & carb	Dissolved gas	DOC	TDL	Manganese	Calc-Sulfide	Hardness	Chloride, Sulfate, Nitrate, Nitrite	MS/MSD Request	Comments/ Special Instructions:
1	GW-101117-BE-013	10/11/17	1032	WG	6	2	3	2	6	1				17	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
2	EB-101117-BE-001	10/11/17	1115	WG	6		3							3	✓											
3	GW-101117-BE-014	10/11/17	1213	WG	6		3							3	✓											
4	GW-101117-BE-015	10/11/17	1426	WG	6	2	3	2	6	1				17	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	MS	
5	GW-101117-BE-016	10/11/17	1621	WG	6	2	3	2	6	1				17	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
6	TB-101117-BE-002	10/11/17	1730				1							1	✓											
7																										
8																										
9																										
10																										
11																										
12																										
13																										
14																										
15																										

240-86342 Chain of Custody

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 58
All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1. Brynn Finecker	GHD	10/11/17	545	1. [signature]	TAC	10-12-17	915
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 86342

Client MLK Site Name —

Cooler Received on 10-12-17 Opened on 10-12-17

Cooler unpacked by: RDP

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-8 (CF **+0** °C) Observed Cooler Temp. 1.6 °C Corrected Cooler Temp. 1.6 °C
   IR GUN #36 (CF **+0.3**°C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C
   IR GUN # 627 (CF **-1.3**°C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes	No
-Were the seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels be reconciled with the COC?	Yes	No
9. Were correct bottle(s) used for the test(s) indicated?	Yes	No
10. Sufficient quantity received to perform indicated analyses?	Yes	No
11. Are these work share samples?	Yes	No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

If yes, Questions 11-15 have been checked at the originating laboratory.

11. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA	pH Strip Lot# **HC697954**
12. Were VOAs on the COC?	Yes	No	
13. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA	
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # COVERED	Yes	No	
15. Was a LL Hg or Me Hg trip blank present? ____	Yes	No	

Contacted PM ____ Date ____ by ____ via Verbal Voice Mail Other

Concerning ____

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

17. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.
Sample(s) ____ were received in a broken container.
Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in the laboratory.
Time preserved: ____ Preservative(s) added/Lot number(s): ____

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
GW-101117-BE-013	240-86342-N-1	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-101117-BE-013	240-86342-P-1	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-101117-BE-013	240-86342-Q-1	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-101117-BE-015	240-86342-N-4	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-101117-BE-015	240-86342-P-4	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-101117-BE-015	240-86342-Q-4	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-101117-BE-016	240-86342-N-5	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-101117-BE-016	240-86342-P-5	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-101117-BE-016	240-86342-Q-5	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-86342-2
Client Project/Site: 17302, RACER Delphi Anderson
Revision: 1

For:
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko

Denise D Heckler

Authorized for release by:
11/27/2017 2:24:16 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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.

Table of Contents

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Certification Summary 19
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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86342-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
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	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)

Case Narrative

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86342-2

Job ID: 240-86342-2

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-86342-2

Comments
A revised report was provided on November 27, 2017. The correct compound list was reported.

Receipt
The samples were received on 10/12/2017 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6º C.

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

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

Method Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86342-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN

Protocol References:

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

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86342-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-86342-1	GW-101117-BE-013	Water	10/11/17 10:32	10/12/17 09:15
240-86342-2	EB-101117-BE-001	Water	10/11/17 11:15	10/12/17 09:15
240-86342-3	GW-101117-BE-014	Water	10/11/17 12:13	10/12/17 09:15
240-86342-4	GW-101117-BE-015	Water	10/11/17 14:26	10/12/17 09:15
240-86342-5	GW-101117-BE-016	Water	10/11/17 16:21	10/12/17 09:15
240-86342-6	TB-101117-BE-002	Water	10/11/17 17:30	10/12/17 09:15

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86342-2

Client Sample ID: GW-101117-BE-013 — Lab Sample ID: 240-86342-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	180		100	25	ug/L	100		8260B	Total/NA
1,1-Dichloroethene	55	J	100	27	ug/L	100		8260B	Total/NA
Trichloroethene	1600		100	33	ug/L	100		8260B	Total/NA
Vinyl chloride	160		100	45	ug/L	100		8260B	Total/NA
cis-1,2-Dichloroethene	4200		100	30	ug/L	100		8260B	Total/NA
trans-1,2-Dichloroethene	160		100	29	ug/L	100		8260B	Total/NA

Client Sample ID: EB-101117-BE-001 — Lab Sample ID: 240-86342-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.2	J	10	1.8	ug/L	1		8260B	Total/NA

Client Sample ID: GW-101117-BE-014 — Lab Sample ID: 240-86342-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.6	J	10	1.8	ug/L	1		8260B	Total/NA
Trichloroethene	0.45	J	1.0	0.33	ug/L	1		8260B	Total/NA
Vinyl chloride	7.6		1.0	0.45	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.41	J	1.0	0.30	ug/L	1		8260B	Total/NA

Client Sample ID: GW-101117-BE-015 — Lab Sample ID: 240-86342-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	200		50	23	ug/L	50		8260B	Total/NA
cis-1,2-Dichloroethene	2500		50	15	ug/L	50		8260B	Total/NA
trans-1,2-Dichloroethene	96		50	15	ug/L	50		8260B	Total/NA

Client Sample ID: GW-101117-BE-016 — Lab Sample ID: 240-86342-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	99		67	17	ug/L	66.667		8260B	Total/NA
1,1-Dichloroethene	79		67	18	ug/L	66.667		8260B	Total/NA
Trichloroethene	4100		67	22	ug/L	66.667		8260B	Total/NA
Vinyl chloride	52	J	67	30	ug/L	66.667		8260B	Total/NA
1,1,1-Trichloroethane	320		67	15	ug/L	66.667		8260B	Total/NA
cis-1,2-Dichloroethene	3500		67	20	ug/L	66.667		8260B	Total/NA
trans-1,2-Dichloroethene	42	J	67	19	ug/L	66.667		8260B	Total/NA

Client Sample ID: TB-101117-BE-002 — Lab Sample ID: 240-86342-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.9	J	10	1.8	ug/L	1		8260B	Total/NA
Methylene Chloride	1.8		1.0	0.53	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: GW-101117-BE-013
Date Collected: 10/11/17 10:32
Date Received: 10/12/17 09:15

Lab Sample ID: 240-86342-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1000	U	1000	180	ug/L			10/23/17 14:49	100
Benzene	100	U	100	28	ug/L			10/23/17 14:49	100
Dichlorobromomethane	100	U	100	30	ug/L			10/23/17 14:49	100
Bromoform	100	U	100	43	ug/L			10/23/17 14:49	100
Bromomethane	100	U	100	42	ug/L			10/23/17 14:49	100
2-Butanone (MEK)	1000	U	1000	100	ug/L			10/23/17 14:49	100
Carbon disulfide	100	U	100	34	ug/L			10/23/17 14:49	100
Carbon tetrachloride	100	U	100	35	ug/L			10/23/17 14:49	100
Chlorobenzene	100	U	100	32	ug/L			10/23/17 14:49	100
Chloroethane	100	U	100	41	ug/L			10/23/17 14:49	100
Chloroform	100	U	100	31	ug/L			10/23/17 14:49	100
Chloromethane	100	U	100	43	ug/L			10/23/17 14:49	100
1,1-Dichloroethane	**180**		100	25	ug/L			10/23/17 14:49	100
1,2-Dichloroethane	100	U	100	30	ug/L			10/23/17 14:49	100
1,1-Dichloroethene	**55**	**J**	100	27	ug/L			10/23/17 14:49	100
1,2-Dichloropropane	100	U	100	30	ug/L			10/23/17 14:49	100
cis-1,3-Dichloropropene	100	U	100	26	ug/L			10/23/17 14:49	100
trans-1,3-Dichloropropene	100	U	100	31	ug/L			10/23/17 14:49	100
Ethylbenzene	100	U	100	26	ug/L			10/23/17 14:49	100
2-Hexanone	1000	U	1000	120	ug/L			10/23/17 14:49	100
Methylene Chloride	100	U	100	53	ug/L			10/23/17 14:49	100
4-Methyl-2-pentanone (MIBK)	1000	U	1000	71	ug/L			10/23/17 14:49	100
Styrene	100	U	100	23	ug/L			10/23/17 14:49	100
1,1,2,2-Tetrachloroethane	100	U	100	32	ug/L			10/23/17 14:49	100
Tetrachloroethene	100	U	100	30	ug/L			10/23/17 14:49	100
Toluene	100	U	100	23	ug/L			10/23/17 14:49	100
Trichloroethene	**1600**		100	33	ug/L			10/23/17 14:49	100
Vinyl chloride	**160**		100	45	ug/L			10/23/17 14:49	100
Xylenes, Total	200	U	200	24	ug/L			10/23/17 14:49	100
1,1,1-Trichloroethane	100	U	100	23	ug/L			10/23/17 14:49	100
1,1,2-Trichloroethane	100	U	100	34	ug/L			10/23/17 14:49	100
cis-1,2-Dichloroethene	**4200**		100	30	ug/L			10/23/17 14:49	100
trans-1,2-Dichloroethene	**160**		100	29	ug/L			10/23/17 14:49	100
Chlorodibromomethane	100	U	100	25	ug/L			10/23/17 14:49	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*61 - 138*		*10/23/17 14:49*	*100*
4-Bromofluorobenzene (Surr)	*97*		*69 - 120*		*10/23/17 14:49*	*100*
Toluene-d8 (Surr)	*108*		*73 - 120*		*10/23/17 14:49*	*100*
Dibromofluoromethane (Surr)	*106*		*69 - 124*		*10/23/17 14:49*	*100*

Client Sample ID: EB-101117-BE-001
Date Collected: 10/11/17 11:15
Date Received: 10/12/17 09:15

Lab Sample ID: 240-86342-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**3.2**	**J**	10	1.8	ug/L			10/23/17 15:14	1
Benzene	1.0	U	1.0	0.28	ug/L			10/23/17 15:14	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/23/17 15:14	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/23/17 15:14	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/23/17 15:14	1

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

Client Sample ID: EB-101117-BE-001
Date Collected: 10/11/17 11:15
Date Received: 10/12/17 09:15

Lab Sample ID: 240-86342-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/23/17 15:14	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/23/17 15:14	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/23/17 15:14	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/23/17 15:14	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/23/17 15:14	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/23/17 15:14	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/23/17 15:14	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/23/17 15:14	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/23/17 15:14	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/23/17 15:14	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/23/17 15:14	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/23/17 15:14	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/23/17 15:14	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/23/17 15:14	1
2-Hexanone	10	U	10	1.2	ug/L			10/23/17 15:14	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			10/23/17 15:14	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/23/17 15:14	1
Styrene	1.0	U	1.0	0.23	ug/L			10/23/17 15:14	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/23/17 15:14	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/23/17 15:14	1
Toluene	1.0	U	1.0	0.23	ug/L			10/23/17 15:14	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/23/17 15:14	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/23/17 15:14	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/23/17 15:14	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/23/17 15:14	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/23/17 15:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/23/17 15:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/23/17 15:14	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/23/17 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*61 - 138*		*10/23/17 15:14*	*1*
4-Bromofluorobenzene (Surr)	*94*		*69 - 120*		*10/23/17 15:14*	*1*
Toluene-d8 (Surr)	*107*		*73 - 120*		*10/23/17 15:14*	*1*
Dibromofluoromethane (Surr)	*107*		*69 - 124*		*10/23/17 15:14*	*1*

Client Sample ID: GW-101117-BE-014
Date Collected: 10/11/17 12:13
Date Received: 10/12/17 09:15

Lab Sample ID: 240-86342-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**2.6**	**J**	10	1.8	ug/L			10/23/17 15:38	1
Benzene	1.0	U	1.0	0.28	ug/L			10/23/17 15:38	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/23/17 15:38	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/23/17 15:38	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/23/17 15:38	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/23/17 15:38	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/23/17 15:38	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/23/17 15:38	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/23/17 15:38	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/23/17 15:38	1

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

Client Sample ID: GW-101117-BE-014
Date Collected: 10/11/17 12:13
Date Received: 10/12/17 09:15

Lab Sample ID: 240-86342-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	1.0	U	1.0	0.31	ug/L			10/23/17 15:38	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/23/17 15:38	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/23/17 15:38	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/23/17 15:38	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/23/17 15:38	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/23/17 15:38	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/23/17 15:38	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/23/17 15:38	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/23/17 15:38	1
2-Hexanone	10	U	10	1.2	ug/L			10/23/17 15:38	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			10/23/17 15:38	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/23/17 15:38	1
Styrene	1.0	U	1.0	0.23	ug/L			10/23/17 15:38	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/23/17 15:38	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/23/17 15:38	1
Toluene	1.0	U	1.0	0.23	ug/L			10/23/17 15:38	1
Trichloroethene	**0.45**	**J**	1.0	0.33	ug/L			10/23/17 15:38	1
Vinyl chloride	**7.6**		1.0	0.45	ug/L			10/23/17 15:38	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/23/17 15:38	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/23/17 15:38	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/23/17 15:38	1
cis-1,2-Dichloroethene	**0.41**	**J**	1.0	0.30	ug/L			10/23/17 15:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/23/17 15:38	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/23/17 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*61 - 138*		*10/23/17 15:38*	*1*
4-Bromofluorobenzene (Surr)	*95*		*69 - 120*		*10/23/17 15:38*	*1*
Toluene-d8 (Surr)	*109*		*73 - 120*		*10/23/17 15:38*	*1*
Dibromofluoromethane (Surr)	*106*		*69 - 124*		*10/23/17 15:38*	*1*

Client Sample ID: GW-101117-BE-015
Date Collected: 10/11/17 14:26
Date Received: 10/12/17 09:15

Lab Sample ID: 240-86342-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	500	U	500	88	ug/L			10/23/17 16:03	50
Benzene	50	U	50	14	ug/L			10/23/17 16:03	50
Dichlorobromomethane	50	U	50	15	ug/L			10/23/17 16:03	50
Bromoform	50	U	50	22	ug/L			10/23/17 16:03	50
Bromomethane	50	U	50	21	ug/L			10/23/17 16:03	50
2-Butanone (MEK)	500	U	500	51	ug/L			10/23/17 16:03	50
Carbon disulfide	50	U	50	17	ug/L			10/23/17 16:03	50
Carbon tetrachloride	50	U	50	18	ug/L			10/23/17 16:03	50
Chlorobenzene	50	U	50	16	ug/L			10/23/17 16:03	50
Chloroethane	50	U	50	21	ug/L			10/23/17 16:03	50
Chloroform	50	U	50	16	ug/L			10/23/17 16:03	50
Chloromethane	50	U	50	22	ug/L			10/23/17 16:03	50
1,1-Dichloroethane	50	U	50	13	ug/L			10/23/17 16:03	50
1,2-Dichloroethane	50	U	50	15	ug/L			10/23/17 16:03	50
1,1-Dichloroethene	50	U	50	14	ug/L			10/23/17 16:03	50

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

Client Sample ID: GW-101117-BE-015
Date Collected: 10/11/17 14:26
Date Received: 10/12/17 09:15

Lab Sample ID: 240-86342-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	50	U	50	15	ug/L			10/23/17 16:03	50
cis-1,3-Dichloropropene	50	U	50	13	ug/L			10/23/17 16:03	50
trans-1,3-Dichloropropene	50	U	50	16	ug/L			10/23/17 16:03	50
Ethylbenzene	50	U	50	13	ug/L			10/23/17 16:03	50
2-Hexanone	500	U	500	62	ug/L			10/23/17 16:03	50
Methylene Chloride	50	U	50	27	ug/L			10/23/17 16:03	50
4-Methyl-2-pentanone (MIBK)	500	U	500	36	ug/L			10/23/17 16:03	50
Styrene	50	U	50	12	ug/L			10/23/17 16:03	50
1,1,2,2-Tetrachloroethane	50	U	50	16	ug/L			10/23/17 16:03	50
Tetrachloroethene	50	U	50	15	ug/L			10/23/17 16:03	50
Toluene	50	U	50	12	ug/L			10/23/17 16:03	50
Trichloroethene	50	U	50	17	ug/L			10/23/17 16:03	50
Vinyl chloride	**200**		50	23	ug/L			10/23/17 16:03	50
Xylenes, Total	100	U	100	12	ug/L			10/23/17 16:03	50
1,1,1-Trichloroethane	50	U	50	12	ug/L			10/23/17 16:03	50
1,1,2-Trichloroethane	50	U	50	17	ug/L			10/23/17 16:03	50
cis-1,2-Dichloroethene	**2500**		50	15	ug/L			10/23/17 16:03	50
trans-1,2-Dichloroethene	**96**		50	15	ug/L			10/23/17 16:03	50
Chlorodibromomethane	50	U	50	13	ug/L			10/23/17 16:03	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*61 - 138*		*10/23/17 16:03*	*50*
4-Bromofluorobenzene (Surr)	*97*		*69 - 120*		*10/23/17 16:03*	*50*
Toluene-d8 (Surr)	*109*		*73 - 120*		*10/23/17 16:03*	*50*
Dibromofluoromethane (Surr)	*107*		*69 - 124*		*10/23/17 16:03*	*50*

Client Sample ID: GW-101117-BE-016
Date Collected: 10/11/17 16:21
Date Received: 10/12/17 09:15

Lab Sample ID: 240-86342-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	670	U	670	120	ug/L			10/23/17 16:27	66.667
Benzene	67	U	67	19	ug/L			10/23/17 16:27	66.667
Dichlorobromomethane	67	U	67	20	ug/L			10/23/17 16:27	66.667
Bromoform	67	U	67	29	ug/L			10/23/17 16:27	66.667
Bromomethane	67	U	67	28	ug/L			10/23/17 16:27	66.667
2-Butanone (MEK)	670	U	670	68	ug/L			10/23/17 16:27	66.667
Carbon disulfide	67	U	67	23	ug/L			10/23/17 16:27	66.667
Carbon tetrachloride	67	U	67	23	ug/L			10/23/17 16:27	66.667
Chlorobenzene	67	U	67	21	ug/L			10/23/17 16:27	66.667
Chloroethane	67	U	67	27	ug/L			10/23/17 16:27	66.667
Chloroform	67	U	67	21	ug/L			10/23/17 16:27	66.667
Chloromethane	67	U	67	29	ug/L			10/23/17 16:27	66.667
1,1-Dichloroethane	**99**		67	17	ug/L			10/23/17 16:27	66.667
1,2-Dichloroethane	67	U	67	20	ug/L			10/23/17 16:27	66.667
1,1-Dichloroethene	**79**		67	18	ug/L			10/23/17 16:27	66.667
1,2-Dichloropropane	67	U	67	20	ug/L			10/23/17 16:27	66.667
cis-1,3-Dichloropropene	67	U	67	17	ug/L			10/23/17 16:27	66.667
trans-1,3-Dichloropropene	67	U	67	21	ug/L			10/23/17 16:27	66.667
Ethylbenzene	67	U	67	17	ug/L			10/23/17 16:27	66.667
2-Hexanone	670	U	670	82	ug/L			10/23/17 16:27	66.667

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

Client Sample ID: GW-101117-BE-016
Date Collected: 10/11/17 16:21
Date Received: 10/12/17 09:15

Lab Sample ID: 240-86342-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	67	U	67	35	ug/L			10/23/17 16:27	66.667
4-Methyl-2-pentanone (MIBK)	670	U	670	47	ug/L			10/23/17 16:27	66.667
Styrene	67	U	67	15	ug/L			10/23/17 16:27	66.667
1,1,2,2-Tetrachloroethane	67	U	67	21	ug/L			10/23/17 16:27	66.667
Tetrachloroethene	67	U	67	20	ug/L			10/23/17 16:27	66.667
Toluene	67	U	67	15	ug/L			10/23/17 16:27	66.667
Trichloroethene	**4100**		67	22	ug/L			10/23/17 16:27	66.667
Vinyl chloride	**52**	**J**	67	30	ug/L			10/23/17 16:27	66.667
Xylenes, Total	130	U	130	16	ug/L			10/23/17 16:27	66.667
1,1,1-Trichloroethane	**320**		67	15	ug/L			10/23/17 16:27	66.667
1,1,2-Trichloroethane	67	U	67	23	ug/L			10/23/17 16:27	66.667
cis-1,2-Dichloroethene	**3500**		67	20	ug/L			10/23/17 16:27	66.667
trans-1,2-Dichloroethene	**42**	**J**	67	19	ug/L			10/23/17 16:27	66.667
Chlorodibromomethane	67	U	67	17	ug/L			10/23/17 16:27	66.667

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*61 - 138*		*10/23/17 16:27*	*66.667*
4-Bromofluorobenzene (Surr)	*97*		*69 - 120*		*10/23/17 16:27*	*66.667*
Toluene-d8 (Surr)	*108*		*73 - 120*		*10/23/17 16:27*	*66.667*
Dibromofluoromethane (Surr)	*107*		*69 - 124*		*10/23/17 16:27*	*66.667*

Client Sample ID: TB-101117-BE-002
Date Collected: 10/11/17 17:30
Date Received: 10/12/17 09:15

Lab Sample ID: 240-86342-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**5.9**	**J**	10	1.8	ug/L			10/23/17 13:34	1
Benzene	1.0	U	1.0	0.28	ug/L			10/23/17 13:34	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/23/17 13:34	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/23/17 13:34	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/23/17 13:34	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/23/17 13:34	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/23/17 13:34	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/23/17 13:34	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/23/17 13:34	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/23/17 13:34	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/23/17 13:34	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/23/17 13:34	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/23/17 13:34	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/23/17 13:34	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/23/17 13:34	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/23/17 13:34	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/23/17 13:34	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/23/17 13:34	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/23/17 13:34	1
2-Hexanone	10	U	10	1.2	ug/L			10/23/17 13:34	1
Methylene Chloride	**1.8**		1.0	0.53	ug/L			10/23/17 13:34	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/23/17 13:34	1
Styrene	1.0	U	1.0	0.23	ug/L			10/23/17 13:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/23/17 13:34	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/23/17 13:34	1

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

Client Sample ID: TB-101117-BE-002
Date Collected: 10/11/17 17:30
Date Received: 10/12/17 09:15

Lab Sample ID: 240-86342-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.23	ug/L			10/23/17 13:34	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/23/17 13:34	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/23/17 13:34	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/23/17 13:34	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/23/17 13:34	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/23/17 13:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/23/17 13:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/23/17 13:34	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/23/17 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*61 - 138*		*10/23/17 13:34*	*1*
4-Bromofluorobenzene (Surr)	*97*		*69 - 120*		*10/23/17 13:34*	*1*
Toluene-d8 (Surr)	*110*		*73 - 120*		*10/23/17 13:34*	*1*
Dibromofluoromethane (Surr)	*108*		*69 - 124*		*10/23/17 13:34*	*1*

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86342-2

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(61-138)	(69-120)	(73-120)	(69-124)
240-86342-1	GW-101117-BE-013	103	97	108	106
240-86342-2	EB-101117-BE-001	103	94	107	107
240-86342-3	GW-101117-BE-014	100	95	109	106
240-86342-4	GW-101117-BE-015	102	97	109	107
240-86342-5	GW-101117-BE-016	101	97	108	107
240-86342-6	TB-101117-BE-002	106	97	110	108
LCS 240-300182/4	Lab Control Sample	101	100	111	108
MB 240-300182/6	Method Blank	103	96	110	106

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Lab Sample ID: MB 240-300182/6
Matrix: Water
Analysis Batch: 300182

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			10/23/17 12:45	1
Benzene	1.0	U	1.0	0.28	ug/L			10/23/17 12:45	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/23/17 12:45	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/23/17 12:45	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/23/17 12:45	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/23/17 12:45	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/23/17 12:45	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/23/17 12:45	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/23/17 12:45	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/23/17 12:45	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/23/17 12:45	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/23/17 12:45	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/23/17 12:45	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/23/17 12:45	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/23/17 12:45	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/23/17 12:45	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/23/17 12:45	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/23/17 12:45	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/23/17 12:45	1
2-Hexanone	10	U	10	1.2	ug/L			10/23/17 12:45	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			10/23/17 12:45	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/23/17 12:45	1
Styrene	1.0	U	1.0	0.23	ug/L			10/23/17 12:45	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/23/17 12:45	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/23/17 12:45	1
Toluene	1.0	U	1.0	0.23	ug/L			10/23/17 12:45	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/23/17 12:45	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/23/17 12:45	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/23/17 12:45	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/23/17 12:45	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/23/17 12:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/23/17 12:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/23/17 12:45	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/23/17 12:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*61 - 138*		*10/23/17 12:45*	*1*
4-Bromofluorobenzene (Surr)	*96*		*69 - 120*		*10/23/17 12:45*	*1*
Toluene-d8 (Surr)	*110*		*73 - 120*		*10/23/17 12:45*	*1*
Dibromofluoromethane (Surr)	*106*		*69 - 124*		*10/23/17 12:45*	*1*

Lab Sample ID: LCS 240-300182/4
Matrix: Water
Analysis Batch: 300182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acetone			50.0	45.3		ug/L		91	35 - 131		
Benzene			25.0	26.8		ug/L		107	79 - 120		

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

Lab Sample ID: LCS 240-300182/4
Matrix: Water
Analysis Batch: 300182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorobromomethane	25.0	27.3		ug/L		109	79 - 125
Bromoform	25.0	19.7		ug/L		79	55 - 145
Bromomethane	10.0	8.96		ug/L		90	17 - 158
2-Butanone (MEK)	50.0	46.1		ug/L		92	43 - 149
Carbon disulfide	25.0	27.2		ug/L		109	49 - 141
Carbon tetrachloride	25.0	22.0		ug/L		88	55 - 171
Chlorobenzene	25.0	26.3		ug/L		105	80 - 120
Chloroethane	10.0	9.10		ug/L		91	10 - 149
Chloroform	25.0	26.7		ug/L		107	80 - 120
Chloromethane	10.0	11.3		ug/L		113	59 - 124
1,1-Dichloroethane	25.0	26.7		ug/L		107	74 - 120
1,2-Dichloroethane	25.0	26.8		ug/L		107	68 - 133
1,1-Dichloroethene	25.0	24.1		ug/L		97	65 - 127
1,2-Dichloropropane	25.0	27.1		ug/L		108	78 - 127
cis-1,3-Dichloropropene	25.0	23.8		ug/L		95	75 - 120
trans-1,3-Dichloropropene	25.0	21.0		ug/L		84	67 - 120
Ethylbenzene	25.0	26.9		ug/L		107	80 - 120
2-Hexanone	50.0	48.6		ug/L		97	28 - 169
Methylene Chloride	25.0	25.5		ug/L		102	64 - 140
4-Methyl-2-pentanone (MIBK)	50.0	50.3		ug/L		101	53 - 144
Styrene	25.0	27.3		ug/L		109	80 - 121
1,1,2,2-Tetrachloroethane	25.0	26.1		ug/L		105	58 - 122
Tetrachloroethene	25.0	27.3		ug/L		109	80 - 122
Toluene	25.0	26.5		ug/L		106	78 - 120
Trichloroethene	25.0	27.0		ug/L		108	76 - 124
Vinyl chloride	10.0	10.2		ug/L		102	65 - 124
Xylenes, Total	50.0	53.9		ug/L		108	80 - 120
1,1,1-Trichloroethane	25.0	23.9		ug/L		96	64 - 147
1,1,2-Trichloroethane	25.0	26.9		ug/L		108	76 - 121
cis-1,2-Dichloroethene	25.0	26.4		ug/L		105	77 - 120
trans-1,2-Dichloroethene	25.0	27.7		ug/L		111	74 - 124
Chlorodibromomethane	25.0	22.7		ug/L		91	64 - 129
m-Xylene & p-Xylene	25.0	26.7		ug/L		107	80 - 120
o-Xylene	25.0	27.2		ug/L		109	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*61 - 138*
4-Bromofluorobenzene (Surr)	*100*		*69 - 120*
Toluene-d8 (Surr)	*111*		*73 - 120*
Dibromofluoromethane (Surr)	*108*		*69 - 124*

QC Association Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86342-2

GC/MS VOA

Analysis Batch: 300182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86342-1	GW-101117-BE-013	Total/NA	Water	8260B	
240-86342-2	EB-101117-BE-001	Total/NA	Water	8260B	
240-86342-3	GW-101117-BE-014	Total/NA	Water	8260B	
240-86342-4	GW-101117-BE-015	Total/NA	Water	8260B	
240-86342-5	GW-101117-BE-016	Total/NA	Water	8260B	
240-86342-6	TB-101117-BE-002	Total/NA	Water	8260B	
MB 240-300182/6	Method Blank	Total/NA	Water	8260B	
LCS 240-300182/4	Lab Control Sample	Total/NA	Water	8260B	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86342-2

Client Sample ID: GW-101117-BE-013
Lab Sample ID: 240-86342-1
Date Collected: 10/11/17 10:32
Matrix: Water
Date Received: 10/12/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	300182	10/23/17 14:49	SAM	TAL CAN

Client Sample ID: EB-101117-BE-001
Lab Sample ID: 240-86342-2
Date Collected: 10/11/17 11:15
Matrix: Water
Date Received: 10/12/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300182	10/23/17 15:14	SAM	TAL CAN

Client Sample ID: GW-101117-BE-014
Lab Sample ID: 240-86342-3
Date Collected: 10/11/17 12:13
Matrix: Water
Date Received: 10/12/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300182	10/23/17 15:38	SAM	TAL CAN

Client Sample ID: GW-101117-BE-015
Lab Sample ID: 240-86342-4
Date Collected: 10/11/17 14:26
Matrix: Water
Date Received: 10/12/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	300182	10/23/17 16:03	SAM	TAL CAN

Client Sample ID: GW-101117-BE-016
Lab Sample ID: 240-86342-5
Date Collected: 10/11/17 16:21
Matrix: Water
Date Received: 10/12/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		66.667	300182	10/23/17 16:27	SAM	TAL CAN

Client Sample ID: TB-101117-BE-002
Lab Sample ID: 240-86342-6
Date Collected: 10/11/17 17:30
Matrix: Water
Date Received: 10/12/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300182	10/23/17 13:34	SAM	TAL CAN

Laboratory References:
TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86342-2

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-18 *
West Virginia DEP	State Program	3	210	12-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

1.6|C1.6

CHAIN OF CUSTODY RECORD

COC NO.: IN- 14967

PAGE 1 OF 1

CONESTOGA-ROVERS & ASSOCIATES
6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017302-T07	Laboratory Name: TestAmerica - North Canton	Lab Location: North Canton, OH	SSOW ID: 017302-T07
Project Name: MLK	Lab Contact: Denise Heckler	Lab Quote No:	Cooler No: 1 of 1
Project Location: Anderson, IN			Carrier: Fed Ex
Chemistry Contact: Deborah Andrasko			Airbill No:
Sampler(s): Brynn Finecker			Date Shipped: 10/11/17

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Sample Type: Matrix Code (see back of COC)	Sample Type: Grab (G) or Comp (C)	Container Quantity & Preservation: Unpreserved	HCl	HNO_3	H_2SO_4	NaOH	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	Analysis Requested: VOC	Alkalinity	bicarb & carb	Dissolved gas	DOC	TDL	Manganese	Calc-Sulfide	Hardness	Chloride, Sulfate, Nitrate, Nitrite	MS/MSD Request	Comments/ Special Instructions:
1	GW-101117-BE-013	10/11/17	1032	WG	6	2	3	2	6	1				17	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
2	EB-101117-BE-001	10/11/17	1115	WG	6		3							3	✓											
3	GW-101117-BE-014	10/11/17	1213	WG	6		3							3	✓											
4	GW-101117-BE-015	10/11/17	1426	WG	6	2	3	2	6	1				17	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	MS	
5	GW-101117-BE-016	10/11/17	1621	WG	6	2	3	2	6	1				17	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
6	TB-101117-BE-002	10/11/17	1730				1							1	✓											
7																										
8																										
9																										
10																										
11																										
12																										
13																										
14																										
15																										

240-86342 Chain of Custody

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 58

All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Brynn Finecker	GHD	10/11/17	545	1. [signature]	TAC	10-12-17	915
				2.			
				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

11/27/2017 (Rev. 1)

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 86342**
Canton Facility

Client MLK Site Name —

Cooler Received on 10-12-17 Opened on 10-12-17

Cooler unpacked by: RDP

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-8 (CF **+0** °C) Observed Cooler Temp. 1.6 °C Corrected Cooler Temp. 1.6 °C
   IR GUN #36 (CF **+0.3**°C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C
   IR GUN # 627 (CF **-1.3**°C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity \	Yes	No
-Were the seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels be reconciled with the COC?	Yes	No
9. Were correct bottle(s) used for the test(s) indicated?	Yes	No
10. Sufficient quantity received to perform indicated analyses?	Yes	No
11. Are these work share samples?	Yes	No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

If yes, Questions 11-15 have been checked at the originating laboratory.

11. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA	pH Strip Lot# **HC697954**
12. Were VOAs on the COC?	Yes	No	
13. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA	
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # COVERED	Yes	No	
15. Was a LL Hg or Me Hg trip blank present? ____	Yes	No	

Contacted PM ____ Date ____ by ____ via Verbal Voice Mail Other

Concerning ____

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

17. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.
Sample(s) ____ were received in a broken container.
Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in the laboratory.
Time preserved: ____ Preservative(s) added/Lot number(s): ____

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
GW-101117-BE-013	240-86342-N-1	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-101117-BE-013	240-86342-P-1	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-101117-BE-013	240-86342-Q-1	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-101117-BE-015	240-86342-N-4	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-101117-BE-015	240-86342-P-4	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-101117-BE-015	240-86342-Q-4	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-101117-BE-016	240-86342-N-5	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-101117-BE-016	240-86342-P-5	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-101117-BE-016	240-86342-Q-5	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-86451-1
Client Project/Site: 17302, RACER Delphi Anderson

For:
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko

Authorized for release by:
10/27/2017 2:44:04 PM
Leslie Howell, Project Manager I
leslie.howell@testamericainc.com

Designee for

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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.

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Qualifiers

GC VOA

Qualifier	Qualifier Description
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.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
B	Compound was found in the blank and sample.
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	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)

Job ID: 240-86451-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-86451-1

Comments
No additional comments.

Receipt
The samples were received on 10/13/2017 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2º C.

GC VOA
Method(s) RSK-175: The associated RSK samples were analyzed following the requirements of a revised RSK SOP. Samples were analyzed to avoid hold time violations while the SOP is still waiting final approval signatures. The following samples are impacted: GW-101217-BE-017 (240-86451-1), GW-101217-BE-017 (240-86451-1[MS]), GW-101217-BE-017 (240-86451-1[MSD]), GW-101217-BE-018 (240-86451-2), GW-101217-BE-019 (240-86451-3), (CCV 240-300319/14), (CCV 240-300319/25), (CCVRT 240-300319/3), (LCS 240-300319/5) and (MB 240-300319/4).

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.

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

Method Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86451-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
2320B-1997	Alkalinity, Total	SM	TAL CAN
2340C-1997	Hardness, Total	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL CAN
9060	Organic Carbon, Dissolved (DOC)	SW846	TAL CAN
9060	Organic Carbon, Total (TOC)	SW846	TAL CAN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86451-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-86451-1	GW-101217-BE-017	Water	10/12/17 09:52	10/13/17 09:30
240-86451-2	GW-101217-BE-018	Water	10/12/17 11:23	10/13/17 09:30
240-86451-3	GW-101217-BE-019	Water	10/12/17 13:43	10/13/17 09:30

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86451-1

Client Sample ID: GW-101217-BE-017 — Lab Sample ID: 240-86451-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	2400		1.0	0.17	ug/L	1		RSK-175	Total/NA
Ethane	190		1.0	0.10	ug/L	1		RSK-175	Total/NA
Ethylene	4700		1.0	0.11	ug/L	1		RSK-175	Total/NA
Manganese	560		15	5.1	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	450	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	640		25	12	mg/L	1		2340C-1997	Total/NA
Chloride	120		1.0	0.28	mg/L	1		300.0	Total/NA
Sulfate	11		1.0	0.35	mg/L	1		300.0	Total/NA
Total Organic Carbon	19		1.0	0.14	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	18		1.0	0.14	mg/L	1		9060	Dissolved

Client Sample ID: GW-101217-BE-018 — Lab Sample ID: 240-86451-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	9.4		1.0	0.17	ug/L	1		RSK-175	Total/NA
Ethane	1.9		1.0	0.10	ug/L	1		RSK-175	Total/NA
Ethylene	2.6		1.0	0.11	ug/L	1		RSK-175	Total/NA
Manganese	500		15	5.1	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	310	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	380		25	12	mg/L	1		2340C-1997	Total/NA
Chloride	7.7		1.0	0.28	mg/L	1		300.0	Total/NA
Nitrite as N	0.11		0.10	0.014	mg/L	1		300.0	Total/NA
Nitrate as N	2.2		0.10	0.014	mg/L	1		300.0	Total/NA
Sulfate	59		1.0	0.35	mg/L	1		300.0	Total/NA
Total Organic Carbon	3.3		1.0	0.14	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	3.5		1.0	0.14	mg/L	1		9060	Dissolved

Client Sample ID: GW-101217-BE-019 — Lab Sample ID: 240-86451-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	150		1.0	0.17	ug/L	1		RSK-175	Total/NA
Ethane	27		1.0	0.10	ug/L	1		RSK-175	Total/NA
Ethylene	110		1.0	0.11	ug/L	1		RSK-175	Total/NA
Manganese	670		15	5.1	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	410	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	570		25	12	mg/L	1		2340C-1997	Total/NA
Chloride	19		1.0	0.28	mg/L	1		300.0	Total/NA
Sulfate	170		1.0	0.35	mg/L	1		300.0	Total/NA
Total Organic Carbon	1.6		1.0	0.14	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	1.7		1.0	0.14	mg/L	1		9060	Dissolved

This Detection Summary does not include radiochemical test results.

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86451-1

Method: RSK-175 - Dissolved Gases (GC)

Client Sample ID: GW-101217-BE-017
Date Collected: 10/12/17 09:52
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	2400		1.0	0.17	ug/L			10/24/17 15:10	1
Ethane	190		1.0	0.10	ug/L			10/24/17 15:10	1
Ethylene	4700		1.0	0.11	ug/L			10/24/17 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*82*		*60 - 140*		*10/24/17 15:10*	*1*

Client Sample ID: GW-101217-BE-018
Date Collected: 10/12/17 11:23
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	9.4		1.0	0.17	ug/L			10/24/17 16:01	1
Ethane	1.9		1.0	0.10	ug/L			10/24/17 16:01	1
Ethylene	2.6		1.0	0.11	ug/L			10/24/17 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*84*		*60 - 140*		*10/24/17 16:01*	*1*

Client Sample ID: GW-101217-BE-019
Date Collected: 10/12/17 13:43
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	150		1.0	0.17	ug/L			10/24/17 16:18	1
Ethane	27		1.0	0.10	ug/L			10/24/17 16:18	1
Ethylene	110		1.0	0.11	ug/L			10/24/17 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*84*		*60 - 140*		*10/24/17 16:18*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86451-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-101217-BE-017
Date Collected: 10/12/17 09:52
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	560		15	5.1	ug/L		10/16/17 14:00	10/17/17 12:15	1

Client Sample ID: GW-101217-BE-018
Date Collected: 10/12/17 11:23
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	500		15	5.1	ug/L		10/16/17 14:00	10/17/17 23:19	1

Client Sample ID: GW-101217-BE-019
Date Collected: 10/12/17 13:43
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	670		15	5.1	ug/L		10/16/17 14:00	10/17/17 23:24	1

General Chemistry

Client Sample ID: GW-101217-BE-017
Date Collected: 10/12/17 09:52
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**450**	**B**	5.0	2.6	mg/L			10/16/17 20:55	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/16/17 20:55	1
Hardness as calcium carbonate	**640**		25	12	mg/L			10/16/17 16:45	1
Chloride	**120**		1.0	0.28	mg/L			10/13/17 14:37	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/13/17 14:37	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/13/17 14:37	1
Sulfate	**11**		1.0	0.35	mg/L			10/13/17 14:37	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/18/17 09:45	10/18/17 13:14	1
Total Organic Carbon	**19**		1.0	0.14	mg/L			10/19/17 07:23	1

Client Sample ID: GW-101217-BE-018
Date Collected: 10/12/17 11:23
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**310**	**B**	5.0	2.6	mg/L			10/16/17 21:21	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/16/17 21:21	1
Hardness as calcium carbonate	**380**		25	12	mg/L			10/16/17 16:45	1
Chloride	**7.7**		1.0	0.28	mg/L			10/13/17 16:38	1
Nitrite as N	**0.11**		0.10	0.014	mg/L			10/13/17 16:38	1
Nitrate as N	**2.2**		0.10	0.014	mg/L			10/13/17 16:38	1
Sulfate	**59**		1.0	0.35	mg/L			10/13/17 16:38	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/18/17 09:45	10/18/17 13:30	1
Total Organic Carbon	**3.3**		1.0	0.14	mg/L			10/19/17 16:03	1

Client Sample ID: GW-101217-BE-019
Date Collected: 10/12/17 13:43
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**410**	**B**	5.0	2.6	mg/L			10/16/17 21:35	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/16/17 21:35	1
Hardness as calcium carbonate	**570**		25	12	mg/L			10/16/17 16:45	1
Chloride	**19**		1.0	0.28	mg/L			10/13/17 17:58	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/13/17 17:58	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/13/17 17:58	1
Sulfate	**170**		1.0	0.35	mg/L			10/13/17 17:58	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/18/17 09:45	10/18/17 13:36	1
Total Organic Carbon	**1.6**		1.0	0.14	mg/L			10/19/17 12:40	1

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86451-1

General Chemistry - Dissolved

Client Sample ID: GW-101217-BE-017
Date Collected: 10/12/17 09:52
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	18		1.0	0.14	mg/L			10/17/17 08:31	1

Client Sample ID: GW-101217-BE-018
Date Collected: 10/12/17 11:23
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	3.5		1.0	0.14	mg/L			10/17/17 12:45	1

Client Sample ID: GW-101217-BE-019
Date Collected: 10/12/17 13:43
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.7		1.0	0.14	mg/L			10/17/17 13:12	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86451-1

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	rifluoroet (60-140)
240-86451-1	GW-101217-BE-017	82
240-86451-1 MS	GW-101217-BE-017	82
240-86451-1 MSD	GW-101217-BE-017	73
240-86451-2	GW-101217-BE-018	84
240-86451-3	GW-101217-BE-019	84
LCS 240-300319/5	Lab Control Sample	86
MB 240-300319/4	Method Blank	87

Surrogate Legend

1,1,1-Trifluoroethane = 1,1,1-Trifluoroethane

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 240-300319/4
Matrix: Water
Analysis Batch: 300319

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	1.0	U	1.0	0.17	ug/L			10/24/17 11:45	1
Ethane	1.0	U	1.0	0.10	ug/L			10/24/17 11:45	1
Ethylene	1.0	U	1.0	0.11	ug/L			10/24/17 11:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*87*		*60 - 140*		*10/24/17 11:45*	*1*

Lab Sample ID: LCS 240-300319/5
Matrix: Water
Analysis Batch: 300319

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	285	287		ug/L		101	80 - 120
Ethane	536	577		ug/L		108	80 - 120
Ethylene	501	531		ug/L		106	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,1,1-Trifluoroethane	*86*		*60 - 140*

Lab Sample ID: 240-86451-1 MS
Matrix: Water
Analysis Batch: 300319

Client Sample ID: GW-101217-BE-017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	2400		285	2740	4	ug/L		131	50 - 150
Ethane	190		536	786		ug/L		111	50 - 150
Ethylene	4700		501	5330	4	ug/L		127	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,1,1-Trifluoroethane	*82*		*60 - 140*

Lab Sample ID: 240-86451-1 MSD
Matrix: Water
Analysis Batch: 300319

Client Sample ID: GW-101217-BE-017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane	2400		285	2770	4	ug/L		140	50 - 150	1	30
Ethane	190		536	757		ug/L		105	50 - 150	4	30
Ethylene	4700		501	5300	4	ug/L		120	50 - 150	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,1,1-Trifluoroethane	*73*		*60 - 140*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-299174/1-A
Matrix: Water
Analysis Batch: 299409

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 299174

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	15	U	15	5.1	ug/L		10/16/17 14:00	10/17/17 12:06	1

Lab Sample ID: LCS 240-299174/2-A
Matrix: Water
Analysis Batch: 299409

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 299174

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	500	526		ug/L		105	80 - 120

Lab Sample ID: 240-86451-1 MS
Matrix: Water
Analysis Batch: 299409

Client Sample ID: GW-101217-BE-017
Prep Type: Dissolved
Prep Batch: 299174

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	560		500	1070		ug/L		102	75 - 125

Lab Sample ID: 240-86451-1 MSD
Matrix: Water
Analysis Batch: 299409

Client Sample ID: GW-101217-BE-017
Prep Type: Dissolved
Prep Batch: 299174

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	560		500	1060		ug/L		100	75 - 125	1	20

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-299304/30
Matrix: Water
Analysis Batch: 299304

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	2.61	J	5.0	2.6	mg/L			10/16/17 17:28	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/16/17 17:28	1

Lab Sample ID: 240-86451-1 DU
Matrix: Water
Analysis Batch: 299304

Client Sample ID: GW-101217-BE-017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO3	450	B	446		mg/L		0	20
Carbonate Alkalinity as CaCO3	5.0	U	5.0	U	mg/L		NC	20

Method: 2340C-1997 - Hardness, Total

Lab Sample ID: MB 240-299266/1
Matrix: Water
Analysis Batch: 299266

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	5.0	U	5.0	2.4	mg/L			10/16/17 16:45	1

Lab Sample ID: LCS 240-299266/2
Matrix: Water
Analysis Batch: 299266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness as calcium carbonate	184	200		mg/L		109	90 - 110

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-298990/3
Matrix: Water
Analysis Batch: 298990

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.28	mg/L			10/13/17 13:56	1
Sulfate	1.0	U	1.0	0.35	mg/L			10/13/17 13:56	1

Lab Sample ID: LCS 240-298990/4
Matrix: Water
Analysis Batch: 298990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.1		mg/L		100	90 - 110
Sulfate	50.0	51.9		mg/L		104	90 - 110

Lab Sample ID: 240-86451-1 MS
Matrix: Water
Analysis Batch: 298990

Client Sample ID: GW-101217-BE-017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	120		50.0	167		mg/L		91	80 - 120
Sulfate	11		50.0	63.0		mg/L		104	80 - 120

Lab Sample ID: 240-86451-1 MSD
Matrix: Water
Analysis Batch: 298990

Client Sample ID: GW-101217-BE-017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	120		50.0	169		mg/L		94	80 - 120	1	15
Sulfate	11		50.0	63.6		mg/L		105	80 - 120	1	15

Lab Sample ID: MB 240-298991/3
Matrix: Water
Analysis Batch: 298991

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/13/17 13:56	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/13/17 13:56	1

Lab Sample ID: LCS 240-298991/4
Matrix: Water
Analysis Batch: 298991

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	2.50	2.46		mg/L		98	90 - 110
Nitrate as N	2.50	2.52		mg/L		101	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 240-86451-1 MS — **Client Sample ID: GW-101217-BE-017**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 298991

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.10	U	2.50	2.60		mg/L		104	80 - 120
Nitrate as N	0.10	U	2.50	2.35		mg/L		94	80 - 120

Lab Sample ID: 240-86451-1 MSD — **Client Sample ID: GW-101217-BE-017**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 298991

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	0.10	U	2.50	2.57		mg/L		103	80 - 120	1	15
Nitrate as N	0.10	U	2.50	2.40		mg/L		96	80 - 120	2	15

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-299569/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 299610 — **Prep Batch: 299569**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	3.0	U	3.0	1.4	mg/L		10/18/17 09:45	10/18/17 13:03	1

Lab Sample ID: LCS 240-299569/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 299610 — **Prep Batch: 299569**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	8.00	9.07		mg/L		113	70 - 120

Lab Sample ID: 240-86451-1 MS — **Client Sample ID: GW-101217-BE-017**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 299610 — **Prep Batch: 299569**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	3.0	U	8.00	6.27		mg/L		78	32 - 130

Lab Sample ID: 240-86451-1 MSD — **Client Sample ID: GW-101217-BE-017**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 299610 — **Prep Batch: 299569**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	3.0	U	8.00	6.27		mg/L		78	32 - 130	0	30

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 240-299875/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 299875

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.14	mg/L			10/19/17 06:59	1

Lab Sample ID: LCS 240-299875/6
Matrix: Water
Analysis Batch: 299875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	21.8	21.9		mg/L		101	80 - 120

Lab Sample ID: LLCS 240-299875/5
Matrix: Water
Analysis Batch: 299875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	2.18	2.26		mg/L		104	88 - 115

Lab Sample ID: 240-86451-1 MS
Matrix: Water
Analysis Batch: 299875

Client Sample ID: GW-101217-BE-017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	19		25.0	42.9		mg/L		94	65 - 134

Lab Sample ID: 240-86451-1 MSD
Matrix: Water
Analysis Batch: 299875

Client Sample ID: GW-101217-BE-017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	19		25.0	43.1		mg/L		95	65 - 134	1	10

Lab Sample ID: 240-86451-3 MS
Matrix: Water
Analysis Batch: 299875

Client Sample ID: GW-101217-BE-019
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	1.6		25.0	25.1		mg/L		94	65 - 134

Lab Sample ID: 240-86451-3 MSD
Matrix: Water
Analysis Batch: 299875

Client Sample ID: GW-101217-BE-019
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	1.6		25.0	25.4		mg/L		95	65 - 134	1	10

Method: 9060 - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 240-299497/4
Matrix: Water
Analysis Batch: 299497

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.0	U	1.0	0.14	mg/L			10/17/17 08:08	1

Lab Sample ID: LCS 240-299497/6
Matrix: Water
Analysis Batch: 299497

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	21.8	20.0		mg/L		92	80 - 120

QC Sample Results

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86451-1

Lab Sample ID: LLCS 240-299497/5
Matrix: Water
Analysis Batch: 299497

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Dissolved Organic Carbon			2.18	2.04		mg/L		93	88 - 115		

Lab Sample ID: 240-86451-1 MS
Matrix: Water
Analysis Batch: 299497

Client Sample ID: GW-101217-BE-017
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Dissolved Organic Carbon	18		25.0	42.0		mg/L		97	65 - 134		

Lab Sample ID: 240-86451-1 MSD
Matrix: Water
Analysis Batch: 299497

Client Sample ID: GW-101217-BE-017
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dissolved Organic Carbon	18		25.0	42.5		mg/L		99	65 - 134	1	10

GC VOA

Analysis Batch: 300319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86451-1	GW-101217-BE-017	Total/NA	Water	RSK-175	
240-86451-2	GW-101217-BE-018	Total/NA	Water	RSK-175	
240-86451-3	GW-101217-BE-019	Total/NA	Water	RSK-175	
MB 240-300319/4	Method Blank	Total/NA	Water	RSK-175	
LCS 240-300319/5	Lab Control Sample	Total/NA	Water	RSK-175	
240-86451-1 MS	GW-101217-BE-017	Total/NA	Water	RSK-175	
240-86451-1 MSD	GW-101217-BE-017	Total/NA	Water	RSK-175	

Metals

Prep Batch: 299174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86451-1	GW-101217-BE-017	Dissolved	Water	3005A	
240-86451-2	GW-101217-BE-018	Dissolved	Water	3005A	
240-86451-3	GW-101217-BE-019	Dissolved	Water	3005A	
MB 240-299174/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-299174/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-86451-1 MS	GW-101217-BE-017	Dissolved	Water	3005A	
240-86451-1 MSD	GW-101217-BE-017	Dissolved	Water	3005A	

Analysis Batch: 299409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86451-1	GW-101217-BE-017	Dissolved	Water	6010B	299174
240-86451-2	GW-101217-BE-018	Dissolved	Water	6010B	299174
240-86451-3	GW-101217-BE-019	Dissolved	Water	6010B	299174
MB 240-299174/1-A	Method Blank	Total Recoverable	Water	6010B	299174
LCS 240-299174/2-A	Lab Control Sample	Total Recoverable	Water	6010B	299174
240-86451-1 MS	GW-101217-BE-017	Dissolved	Water	6010B	299174
240-86451-1 MSD	GW-101217-BE-017	Dissolved	Water	6010B	299174

General Chemistry

Analysis Batch: 298990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86451-1	GW-101217-BE-017	Total/NA	Water	300.0	
240-86451-2	GW-101217-BE-018	Total/NA	Water	300.0	
240-86451-3	GW-101217-BE-019	Total/NA	Water	300.0	
MB 240-298990/3	Method Blank	Total/NA	Water	300.0	
LCS 240-298990/4	Lab Control Sample	Total/NA	Water	300.0	
240-86451-1 MS	GW-101217-BE-017	Total/NA	Water	300.0	
240-86451-1 MSD	GW-101217-BE-017	Total/NA	Water	300.0	

Analysis Batch: 298991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86451-1	GW-101217-BE-017	Total/NA	Water	300.0	
240-86451-2	GW-101217-BE-018	Total/NA	Water	300.0	
240-86451-3	GW-101217-BE-019	Total/NA	Water	300.0	
MB 240-298991/3	Method Blank	Total/NA	Water	300.0	
LCS 240-298991/4	Lab Control Sample	Total/NA	Water	300.0	
240-86451-1 MS	GW-101217-BE-017	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 298991 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86451-1 MSD	GW-101217-BE-017	Total/NA	Water	300.0	

Analysis Batch: 299266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86451-1	GW-101217-BE-017	Total/NA	Water	2340C-1997	
240-86451-2	GW-101217-BE-018	Total/NA	Water	2340C-1997	
240-86451-3	GW-101217-BE-019	Total/NA	Water	2340C-1997	
MB 240-299266/1	Method Blank	Total/NA	Water	2340C-1997	
LCS 240-299266/2	Lab Control Sample	Total/NA	Water	2340C-1997	

Analysis Batch: 299304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86451-1	GW-101217-BE-017	Total/NA	Water	2320B-1997	
240-86451-2	GW-101217-BE-018	Total/NA	Water	2320B-1997	
240-86451-3	GW-101217-BE-019	Total/NA	Water	2320B-1997	
MB 240-299304/30	Method Blank	Total/NA	Water	2320B-1997	
240-86451-1 DU	GW-101217-BE-017	Total/NA	Water	2320B-1997	

Analysis Batch: 299497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86451-1	GW-101217-BE-017	Dissolved	Water	9060	
240-86451-2	GW-101217-BE-018	Dissolved	Water	9060	
240-86451-3	GW-101217-BE-019	Dissolved	Water	9060	
MB 240-299497/4	Method Blank	Dissolved	Water	9060	
LCS 240-299497/6	Lab Control Sample	Dissolved	Water	9060	
LLCS 240-299497/5	Lab Control Sample	Dissolved	Water	9060	
240-86451-1 MS	GW-101217-BE-017	Dissolved	Water	9060	
240-86451-1 MSD	GW-101217-BE-017	Dissolved	Water	9060	

Prep Batch: 299569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86451-1	GW-101217-BE-017	Total/NA	Water	9030B	
240-86451-2	GW-101217-BE-018	Total/NA	Water	9030B	
240-86451-3	GW-101217-BE-019	Total/NA	Water	9030B	
MB 240-299569/1-A	Method Blank	Total/NA	Water	9030B	
LCS 240-299569/2-A	Lab Control Sample	Total/NA	Water	9030B	
240-86451-1 MS	GW-101217-BE-017	Total/NA	Water	9030B	
240-86451-1 MSD	GW-101217-BE-017	Total/NA	Water	9030B	

Analysis Batch: 299610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86451-1	GW-101217-BE-017	Total/NA	Water	9034	299569
240-86451-2	GW-101217-BE-018	Total/NA	Water	9034	299569
240-86451-3	GW-101217-BE-019	Total/NA	Water	9034	299569
MB 240-299569/1-A	Method Blank	Total/NA	Water	9034	299569
LCS 240-299569/2-A	Lab Control Sample	Total/NA	Water	9034	299569
240-86451-1 MS	GW-101217-BE-017	Total/NA	Water	9034	299569
240-86451-1 MSD	GW-101217-BE-017	Total/NA	Water	9034	299569

General Chemistry (Continued)

Analysis Batch: 299875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86451-1	GW-101217-BE-017	Total/NA	Water	9060	
240-86451-2	GW-101217-BE-018	Total/NA	Water	9060	
240-86451-3	GW-101217-BE-019	Total/NA	Water	9060	
MB 240-299875/4	Method Blank	Total/NA	Water	9060	
LCS 240-299875/6	Lab Control Sample	Total/NA	Water	9060	
LLCS 240-299875/5	Lab Control Sample	Total/NA	Water	9060	
240-86451-1 MS	GW-101217-BE-017	Total/NA	Water	9060	
240-86451-1 MSD	GW-101217-BE-017	Total/NA	Water	9060	
240-86451-3 MS	GW-101217-BE-019	Total/NA	Water	9060	
240-86451-3 MSD	GW-101217-BE-019	Total/NA	Water	9060	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86451-1

Client Sample ID: GW-101217-BE-017

Lab Sample ID: 240-86451-1

Date Collected: 10/12/17 09:52

Matrix: Water

Date Received: 10/13/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	300319	10/24/17 15:10	BPM	TAL CAN
Dissolved	Prep	3005A			299174	10/16/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	299409	10/17/17 12:15	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	299304	10/16/17 20:55	LKG	TAL CAN
Total/NA	Analysis	2340C-1997		1	299266	10/16/17 16:45	CL	TAL CAN
Total/NA	Analysis	300.0		1	298990	10/13/17 14:37	LKG	TAL CAN
Total/NA	Analysis	300.0		1	298991	10/13/17 14:37	LKG	TAL CAN
Total/NA	Prep	9030B			299569	10/18/17 09:45	JMB	TAL CAN
Total/NA	Analysis	9034		1	299610	10/18/17 13:14	JMB	TAL CAN
Dissolved	Analysis	9060		1	299497	10/17/17 08:31	TPH	TAL CAN
Total/NA	Analysis	9060		1	299875	10/19/17 07:23	TPH	TAL CAN

Client Sample ID: GW-101217-BE-018

Lab Sample ID: 240-86451-2

Date Collected: 10/12/17 11:23

Matrix: Water

Date Received: 10/13/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	300319	10/24/17 16:01	BPM	TAL CAN
Dissolved	Prep	3005A			299174	10/16/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	299409	10/17/17 23:19	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	299304	10/16/17 21:21	LKG	TAL CAN
Total/NA	Analysis	2340C-1997		1	299266	10/16/17 16:45	CL	TAL CAN
Total/NA	Analysis	300.0		1	298990	10/13/17 16:38	LKG	TAL CAN
Total/NA	Analysis	300.0		1	298991	10/13/17 16:38	LKG	TAL CAN
Total/NA	Prep	9030B			299569	10/18/17 09:45	JMB	TAL CAN
Total/NA	Analysis	9034		1	299610	10/18/17 13:30	JMB	TAL CAN
Dissolved	Analysis	9060		1	299497	10/17/17 12:45	TPH	TAL CAN
Total/NA	Analysis	9060		1	299875	10/19/17 16:03	TPH	TAL CAN

Client Sample ID: GW-101217-BE-019

Lab Sample ID: 240-86451-3

Date Collected: 10/12/17 13:43

Matrix: Water

Date Received: 10/13/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	300319	10/24/17 16:18	BPM	TAL CAN
Dissolved	Prep	3005A			299174	10/16/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	299409	10/17/17 23:24	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	299304	10/16/17 21:35	LKG	TAL CAN
Total/NA	Analysis	2340C-1997		1	299266	10/16/17 16:45	CL	TAL CAN
Total/NA	Analysis	300.0		1	298990	10/13/17 17:58	LKG	TAL CAN
Total/NA	Analysis	300.0		1	298991	10/13/17 17:58	LKG	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86451-1

Client Sample ID: GW-101217-BE-019
Date Collected: 10/12/17 13:43
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9030B			299569	10/18/17 09:45	JMB	TAL CAN
Total/NA	Analysis	9034		1	299610	10/18/17 13:36	JMB	TAL CAN
Dissolved	Analysis	9060		1	299497	10/17/17 13:12	TPH	TAL CAN
Total/NA	Analysis	9060		1	299875	10/19/17 12:40	TPH	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86451-1

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-18 *
West Virginia DEP	State Program	3	210	12-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

CHAIN OF CUSTODY RECORD

COC NO.: IN- 14976

PAGE 1 OF 1

(See Reverse Side for Instructions)

CONESTOGA-ROVERS & ASSOCIATES
6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

Project No/ Phase/Task Code: 017302 -T07	Laboratory Name: TestAmerica North Canton	Lab Location: North Canton	SSOW ID: 017302 -T07
Project Name: MLK	Lab Contact: Denise Heckler	Lab Quote No:	Cooler No: 1 of 1
Project Location: Anderson, IN			Carrier: Fed Ex
Chemistry Contact: Deborah Andrasko			Airbill No:
Sampler(s): Brynn Eindler			Date Shipped: 10/12/17

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	VOC	Alk, bicarb/carb	Dissolved Gas	DOC	TDC	Manganese	Calc Sulfide	Hardness	Chloride, Sulfide	Nitrite, Nitrate	MS/MSD Request	Comments/ Special Instructions:
1	GW-101217-BE-017	10/12/17	952	WG	G	4	15	4	12	2				37	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2	GW-101217-BE-018	10/12/17	1123	WG	G	2	6	2	6	1				17	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	GW-101217-BE-019		1343	WG	G	2	6	2	6	1				17	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4	GW-101217-BE-020		1453	WG	G		3							3	✓											
5	GW-101217-BE-021		1457	WG	G		3							3	✓											
6	GW-101217-BE-022		1556	WG	G		3							3	✓											
7	TB-101217-BE-003	10/12/17	1600	WG	G		1							1	✓											
8																										
9																										
10																										
11																										
12																										
13																										
14																										
15																										

240-86451 Chain of Custody

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 81

All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1. Brynn Eindler	GHD	10/12/17	1800	1.	TAL	10-13-17	930
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 84451

Client CRA Site Name —

Cooler Received on 10-13-17 Opened on 10-13-17

Cooler unpacked by: BOP

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp. 3.2 °C Corrected Cooler Temp. 3.2 °C

IR GUN #36 (CF +0.3°C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C

IR GUN # 627 (CF -1.3°C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes	No
-Were the seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels be reconciled with the COC?	Yes	No
9. Were correct bottle(s) used for the test(s) indicated?	Yes	No
10. Sufficient quantity received to perform indicated analyses?	Yes	No
11. Are these work share samples?	Yes	No
If yes, Questions 11-15 have been checked at the originating laboratory.		
11. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC697954
12. Were VOAs on the COC?	Yes	No
13. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # COVERED	Yes	No
15. Was a LL Hg or Me Hg trip blank present? ____	Yes	No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM ____ Date ____ by ____ via Verbal Voice Mail Other

Concerning ____

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

17. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.

Sample(s) ____ were received in a broken container.

Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in the laboratory.

Time preserved: ____ Preservative(s) added/Lot number(s): ____

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
GW-101217-BE-017	240-86451-AD-1	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-101217-BE-017	240-86451-AE-1	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-101217-BE-017	240-86451-AH-1	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-101217-BE-017	240-86451-AI-1	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-101217-BE-017	240-86451-AJ-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-101217-BE-017	240-86451-AK-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-101217-BE-018	240-86451-N-2	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-101217-BE-018	240-86451-P-2	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-101217-BE-018	240-86451-Q-2	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-101217-BE-019	240-86451-N-3	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-101217-BE-019	240-86451-P-3	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-101217-BE-019	240-86451-Q-3	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-86451-2
Client Project/Site: 17302, RACER Delphi Anderson
Revision: 1

For:
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko

Denise D Heckler

Authorized for release by:
11/27/2017 2:25:45 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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.

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86451-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
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	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)

Case Narrative

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86451-2

Job ID: 240-86451-2

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-86451-2

Comments
A revised report was provided on November 27, 2017. The correct compound list was reported.

Receipt
The samples were received on 10/13/2017 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2º C.

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

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

Method Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86451-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN

Protocol References:

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

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86451-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-86451-1	GW-101217-BE-017	Water	10/12/17 09:52	10/13/17 09:30
240-86451-2	GW-101217-BE-018	Water	10/12/17 11:23	10/13/17 09:30
240-86451-3	GW-101217-BE-019	Water	10/12/17 13:43	10/13/17 09:30
240-86451-4	GW-101217-BE-020	Water	10/12/17 14:53	10/13/17 09:30
240-86451-5	GW-101217-BE-021	Water	10/12/17 14:57	10/13/17 09:30
240-86451-6	GW-101217-BE-022	Water	10/12/17 15:56	10/13/17 09:30
240-86451-7	TB-101217-BE-003	Water	10/12/17 16:00	10/13/17 09:30

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86451-2

Client Sample ID: GW-101217-BE-017 — Lab Sample ID: 240-86451-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1200		830	210	ug/L	833.333		8260B	Total/NA
1,1-Dichloroethene	380	J	830	220	ug/L	833.333		8260B	Total/NA
Ethylbenzene	740	J	830	220	ug/L	833.333		8260B	Total/NA
Toluene	3600		830	190	ug/L	833.333		8260B	Total/NA
Vinyl chloride	9000		830	370	ug/L	833.333		8260B	Total/NA
Xylenes, Total	2100		1700	200	ug/L	833.333		8260B	Total/NA
cis-1,2-Dichloroethene	69000		830	250	ug/L	833.333		8260B	Total/NA

Client Sample ID: GW-101217-BE-018 — Lab Sample ID: 240-86451-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	99	J	100	25	ug/L	100		8260B	Total/NA
1,1-Dichloroethene	74	J	100	27	ug/L	100		8260B	Total/NA
Trichloroethene	4400		100	33	ug/L	100		8260B	Total/NA
1,1,1-Trichloroethane	250		100	23	ug/L	100		8260B	Total/NA
cis-1,2-Dichloroethene	1600		100	30	ug/L	100		8260B	Total/NA

Client Sample ID: GW-101217-BE-019 — Lab Sample ID: 240-86451-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	47	J	100	25	ug/L	100		8260B	Total/NA
1,1-Dichloroethene	49	J	100	27	ug/L	100		8260B	Total/NA
Trichloroethene	370		100	33	ug/L	100		8260B	Total/NA
Vinyl chloride	1300		100	45	ug/L	100		8260B	Total/NA
cis-1,2-Dichloroethene	4000		100	30	ug/L	100		8260B	Total/NA

Client Sample ID: GW-101217-BE-020 — Lab Sample ID: 240-86451-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.2	J	10	1.8	ug/L	1		8260B	Total/NA
Toluene	0.40	J	1.0	0.23	ug/L	1		8260B	Total/NA
Trichloroethene	0.97	J	1.0	0.33	ug/L	1		8260B	Total/NA
Xylenes, Total	0.27	J	2.0	0.24	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	2.0		1.0	0.30	ug/L	1		8260B	Total/NA

Client Sample ID: GW-101217-BE-021 — Lab Sample ID: 240-86451-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.8	J	10	1.8	ug/L	1		8260B	Total/NA
Toluene	0.38	J	1.0	0.23	ug/L	1		8260B	Total/NA
Trichloroethene	0.96	J	1.0	0.33	ug/L	1		8260B	Total/NA
Xylenes, Total	0.28	J	2.0	0.24	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	2.0		1.0	0.30	ug/L	1		8260B	Total/NA

Client Sample ID: GW-101217-BE-022 — Lab Sample ID: 240-86451-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.0	J	10	1.8	ug/L	1		8260B	Total/NA
Toluene	0.27	J	1.0	0.23	ug/L	1		8260B	Total/NA
Trichloroethene	1.7		1.0	0.33	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86451-2

Client Sample ID: GW-101217-BE-022 (Continued) — Lab Sample ID: 240-86451-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	30		1.0	0.45	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	1.9		1.0	0.30	ug/L	1		8260B	Total/NA

Client Sample ID: TB-101217-BE-003 — Lab Sample ID: 240-86451-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.1	J	10	1.8	ug/L	1		8260B	Total/NA
Methylene Chloride	1.0		1.0	0.53	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: GW-101217-BE-017
Date Collected: 10/12/17 09:52
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	8300	U	8300	1500	ug/L			10/24/17 21:39	833.333
Benzene	830	U	830	230	ug/L			10/24/17 21:39	833.333
Dichlorobromomethane	830	U	830	250	ug/L			10/24/17 21:39	833.333
Bromoform	830	U	830	360	ug/L			10/24/17 21:39	833.333
Bromomethane	830	U	830	350	ug/L			10/24/17 21:39	833.333
2-Butanone (MEK)	8300	U	8300	850	ug/L			10/24/17 21:39	833.333
Carbon disulfide	830	U	830	280	ug/L			10/24/17 21:39	833.333
Carbon tetrachloride	830	U	830	290	ug/L			10/24/17 21:39	833.333
Chlorobenzene	830	U	830	270	ug/L			10/24/17 21:39	833.333
Chloroethane	830	U	830	340	ug/L			10/24/17 21:39	833.333
Chloroform	830	U	830	260	ug/L			10/24/17 21:39	833.333
Chloromethane	830	U	830	360	ug/L			10/24/17 21:39	833.333
1,1-Dichloroethane	**1200**		830	210	ug/L			10/24/17 21:39	833.333
1,2-Dichloroethane	830	U	830	250	ug/L			10/24/17 21:39	833.333
1,1-Dichloroethene	**380**	**J**	830	220	ug/L			10/24/17 21:39	833.333
1,2-Dichloropropane	830	U	830	250	ug/L			10/24/17 21:39	833.333
cis-1,3-Dichloropropene	830	U	830	220	ug/L			10/24/17 21:39	833.333
trans-1,3-Dichloropropene	830	U	830	260	ug/L			10/24/17 21:39	833.333
Ethylbenzene	**740**	**J**	830	220	ug/L			10/24/17 21:39	833.333
2-Hexanone	8300	U	8300	1000	ug/L			10/24/17 21:39	833.333
Methylene Chloride	830	U	830	440	ug/L			10/24/17 21:39	833.333
4-Methyl-2-pentanone (MIBK)	8300	U	8300	590	ug/L			10/24/17 21:39	833.333
Styrene	830	U	830	190	ug/L			10/24/17 21:39	833.333
1,1,2,2-Tetrachloroethane	830	U	830	270	ug/L			10/24/17 21:39	833.333
Tetrachloroethene	830	U	830	250	ug/L			10/24/17 21:39	833.333
Toluene	**3600**		830	190	ug/L			10/24/17 21:39	833.333
Trichloroethene	830	U	830	270	ug/L			10/24/17 21:39	833.333
Vinyl chloride	**9000**		830	370	ug/L			10/24/17 21:39	833.333
Xylenes, Total	**2100**		1700	200	ug/L			10/24/17 21:39	833.333
1,1,1-Trichloroethane	830	U	830	190	ug/L			10/24/17 21:39	833.333
1,1,2-Trichloroethane	830	U	830	280	ug/L			10/24/17 21:39	833.333
cis-1,2-Dichloroethene	**69000**		830	250	ug/L			10/24/17 21:39	833.333
trans-1,2-Dichloroethene	830	U	830	240	ug/L			10/24/17 21:39	833.333
Chlorodibromomethane	830	U	830	210	ug/L			10/24/17 21:39	833.333

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*61 - 138*		*10/24/17 21:39*	*833.333*
4-Bromofluorobenzene (Surr)	*98*		*69 - 120*		*10/24/17 21:39*	*833.333*
Toluene-d8 (Surr)	*110*		*73 - 120*		*10/24/17 21:39*	*833.333*
Dibromofluoromethane (Surr)	*101*		*69 - 124*		*10/24/17 21:39*	*833.333*

Client Sample ID: GW-101217-BE-018
Date Collected: 10/12/17 11:23
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1000	U	1000	180	ug/L			10/24/17 20:49	100
Benzene	100	U	100	28	ug/L			10/24/17 20:49	100
Dichlorobromomethane	100	U	100	30	ug/L			10/24/17 20:49	100
Bromoform	100	U	100	43	ug/L			10/24/17 20:49	100
Bromomethane	100	U	100	42	ug/L			10/24/17 20:49	100

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

Client Sample ID: GW-101217-BE-018
Date Collected: 10/12/17 11:23
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	1000	U	1000	100	ug/L			10/24/17 20:49	100
Carbon disulfide	100	U	100	34	ug/L			10/24/17 20:49	100
Carbon tetrachloride	100	U	100	35	ug/L			10/24/17 20:49	100
Chlorobenzene	100	U	100	32	ug/L			10/24/17 20:49	100
Chloroethane	100	U	100	41	ug/L			10/24/17 20:49	100
Chloroform	100	U	100	31	ug/L			10/24/17 20:49	100
Chloromethane	100	U	100	43	ug/L			10/24/17 20:49	100
1,1-Dichloroethane	**99**	**J**	100	25	ug/L			10/24/17 20:49	100
1,2-Dichloroethane	100	U	100	30	ug/L			10/24/17 20:49	100
1,1-Dichloroethene	**74**	**J**	100	27	ug/L			10/24/17 20:49	100
1,2-Dichloropropane	100	U	100	30	ug/L			10/24/17 20:49	100
cis-1,3-Dichloropropene	100	U	100	26	ug/L			10/24/17 20:49	100
trans-1,3-Dichloropropene	100	U	100	31	ug/L			10/24/17 20:49	100
Ethylbenzene	100	U	100	26	ug/L			10/24/17 20:49	100
2-Hexanone	1000	U	1000	120	ug/L			10/24/17 20:49	100
Methylene Chloride	100	U	100	53	ug/L			10/24/17 20:49	100
4-Methyl-2-pentanone (MIBK)	1000	U	1000	71	ug/L			10/24/17 20:49	100
Styrene	100	U	100	23	ug/L			10/24/17 20:49	100
1,1,2,2-Tetrachloroethane	100	U	100	32	ug/L			10/24/17 20:49	100
Tetrachloroethene	100	U	100	30	ug/L			10/24/17 20:49	100
Toluene	100	U	100	23	ug/L			10/24/17 20:49	100
Trichloroethene	**4400**		100	33	ug/L			10/24/17 20:49	100
Vinyl chloride	100	U	100	45	ug/L			10/24/17 20:49	100
Xylenes, Total	200	U	200	24	ug/L			10/24/17 20:49	100
1,1,1-Trichloroethane	**250**		100	23	ug/L			10/24/17 20:49	100
1,1,2-Trichloroethane	100	U	100	34	ug/L			10/24/17 20:49	100
cis-1,2-Dichloroethene	**1600**		100	30	ug/L			10/24/17 20:49	100
trans-1,2-Dichloroethene	100	U	100	29	ug/L			10/24/17 20:49	100
Chlorodibromomethane	100	U	100	25	ug/L			10/24/17 20:49	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*61 - 138*		*10/24/17 20:49*	*100*
4-Bromofluorobenzene (Surr)	*98*		*69 - 120*		*10/24/17 20:49*	*100*
Toluene-d8 (Surr)	*107*		*73 - 120*		*10/24/17 20:49*	*100*
Dibromofluoromethane (Surr)	*102*		*69 - 124*		*10/24/17 20:49*	*100*

Client Sample ID: GW-101217-BE-019
Date Collected: 10/12/17 13:43
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1000	U	1000	180	ug/L			10/24/17 21:14	100
Benzene	100	U	100	28	ug/L			10/24/17 21:14	100
Dichlorobromomethane	100	U	100	30	ug/L			10/24/17 21:14	100
Bromoform	100	U	100	43	ug/L			10/24/17 21:14	100
Bromomethane	100	U	100	42	ug/L			10/24/17 21:14	100
2-Butanone (MEK)	1000	U	1000	100	ug/L			10/24/17 21:14	100
Carbon disulfide	100	U	100	34	ug/L			10/24/17 21:14	100
Carbon tetrachloride	100	U	100	35	ug/L			10/24/17 21:14	100
Chlorobenzene	100	U	100	32	ug/L			10/24/17 21:14	100
Chloroethane	100	U	100	41	ug/L			10/24/17 21:14	100

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

Client Sample ID: GW-101217-BE-019
Date Collected: 10/12/17 13:43
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	100	U	100	31	ug/L			10/24/17 21:14	100
Chloromethane	100	U	100	43	ug/L			10/24/17 21:14	100
1,1-Dichloroethane	**47**	**J**	100	25	ug/L			10/24/17 21:14	100
1,2-Dichloroethane	100	U	100	30	ug/L			10/24/17 21:14	100
1,1-Dichloroethene	**49**	**J**	100	27	ug/L			10/24/17 21:14	100
1,2-Dichloropropane	100	U	100	30	ug/L			10/24/17 21:14	100
cis-1,3-Dichloropropene	100	U	100	26	ug/L			10/24/17 21:14	100
trans-1,3-Dichloropropene	100	U	100	31	ug/L			10/24/17 21:14	100
Ethylbenzene	100	U	100	26	ug/L			10/24/17 21:14	100
2-Hexanone	1000	U	1000	120	ug/L			10/24/17 21:14	100
Methylene Chloride	100	U	100	53	ug/L			10/24/17 21:14	100
4-Methyl-2-pentanone (MIBK)	1000	U	1000	71	ug/L			10/24/17 21:14	100
Styrene	100	U	100	23	ug/L			10/24/17 21:14	100
1,1,2,2-Tetrachloroethane	100	U	100	32	ug/L			10/24/17 21:14	100
Tetrachloroethene	100	U	100	30	ug/L			10/24/17 21:14	100
Toluene	100	U	100	23	ug/L			10/24/17 21:14	100
Trichloroethene	**370**		100	33	ug/L			10/24/17 21:14	100
Vinyl chloride	**1300**		100	45	ug/L			10/24/17 21:14	100
Xylenes, Total	200	U	200	24	ug/L			10/24/17 21:14	100
1,1,1-Trichloroethane	100	U	100	23	ug/L			10/24/17 21:14	100
1,1,2-Trichloroethane	100	U	100	34	ug/L			10/24/17 21:14	100
cis-1,2-Dichloroethene	**4000**		100	30	ug/L			10/24/17 21:14	100
trans-1,2-Dichloroethene	100	U	100	29	ug/L			10/24/17 21:14	100
Chlorodibromomethane	100	U	100	25	ug/L			10/24/17 21:14	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*61 - 138*		*10/24/17 21:14*	*100*
4-Bromofluorobenzene (Surr)	*96*		*69 - 120*		*10/24/17 21:14*	*100*
Toluene-d8 (Surr)	*107*		*73 - 120*		*10/24/17 21:14*	*100*
Dibromofluoromethane (Surr)	*100*		*69 - 124*		*10/24/17 21:14*	*100*

Client Sample ID: GW-101217-BE-020
Date Collected: 10/12/17 14:53
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**3.2**	**J**	10	1.8	ug/L			10/24/17 19:10	1
Benzene	1.0	U	1.0	0.28	ug/L			10/24/17 19:10	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/24/17 19:10	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/24/17 19:10	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/24/17 19:10	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/24/17 19:10	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/24/17 19:10	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/24/17 19:10	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/24/17 19:10	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/24/17 19:10	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/24/17 19:10	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/24/17 19:10	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/24/17 19:10	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/24/17 19:10	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/24/17 19:10	1

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

Client Sample ID: GW-101217-BE-020
Date Collected: 10/12/17 14:53
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/24/17 19:10	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/24/17 19:10	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/24/17 19:10	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/24/17 19:10	1
2-Hexanone	10	U	10	1.2	ug/L			10/24/17 19:10	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			10/24/17 19:10	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/24/17 19:10	1
Styrene	1.0	U	1.0	0.23	ug/L			10/24/17 19:10	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/24/17 19:10	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/24/17 19:10	1
Toluene	**0.40**	**J**	1.0	0.23	ug/L			10/24/17 19:10	1
Trichloroethene	**0.97**	**J**	1.0	0.33	ug/L			10/24/17 19:10	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/24/17 19:10	1
Xylenes, Total	**0.27**	**J**	2.0	0.24	ug/L			10/24/17 19:10	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/24/17 19:10	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/24/17 19:10	1
cis-1,2-Dichloroethene	**2.0**		1.0	0.30	ug/L			10/24/17 19:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/24/17 19:10	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/24/17 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*61 - 138*		*10/24/17 19:10*	*1*
4-Bromofluorobenzene (Surr)	*97*		*69 - 120*		*10/24/17 19:10*	*1*
Toluene-d8 (Surr)	*107*		*73 - 120*		*10/24/17 19:10*	*1*
Dibromofluoromethane (Surr)	*99*		*69 - 124*		*10/24/17 19:10*	*1*

Client Sample ID: GW-101217-BE-021
Date Collected: 10/12/17 14:57
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**1.8**	**J**	10	1.8	ug/L			10/24/17 19:34	1
Benzene	1.0	U	1.0	0.28	ug/L			10/24/17 19:34	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/24/17 19:34	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/24/17 19:34	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/24/17 19:34	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/24/17 19:34	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/24/17 19:34	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/24/17 19:34	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/24/17 19:34	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/24/17 19:34	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/24/17 19:34	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/24/17 19:34	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/24/17 19:34	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/24/17 19:34	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/24/17 19:34	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/24/17 19:34	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/24/17 19:34	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/24/17 19:34	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/24/17 19:34	1
2-Hexanone	10	U	10	1.2	ug/L			10/24/17 19:34	1

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

Client Sample ID: GW-101217-BE-021
Date Collected: 10/12/17 14:57
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.0	U	1.0	0.53	ug/L			10/24/17 19:34	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/24/17 19:34	1
Styrene	1.0	U	1.0	0.23	ug/L			10/24/17 19:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/24/17 19:34	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/24/17 19:34	1
Toluene	**0.38**	**J**	1.0	0.23	ug/L			10/24/17 19:34	1
Trichloroethene	**0.96**	**J**	1.0	0.33	ug/L			10/24/17 19:34	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/24/17 19:34	1
Xylenes, Total	**0.28**	**J**	2.0	0.24	ug/L			10/24/17 19:34	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/24/17 19:34	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/24/17 19:34	1
cis-1,2-Dichloroethene	**2.0**		1.0	0.30	ug/L			10/24/17 19:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/24/17 19:34	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/24/17 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*61 - 138*		*10/24/17 19:34*	*1*
4-Bromofluorobenzene (Surr)	*97*		*69 - 120*		*10/24/17 19:34*	*1*
Toluene-d8 (Surr)	*108*		*73 - 120*		*10/24/17 19:34*	*1*
Dibromofluoromethane (Surr)	*102*		*69 - 124*		*10/24/17 19:34*	*1*

Client Sample ID: GW-101217-BE-022
Date Collected: 10/12/17 15:56
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**3.0**	**J**	10	1.8	ug/L			10/24/17 19:59	1
Benzene	1.0	U	1.0	0.28	ug/L			10/24/17 19:59	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/24/17 19:59	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/24/17 19:59	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/24/17 19:59	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/24/17 19:59	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/24/17 19:59	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/24/17 19:59	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/24/17 19:59	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/24/17 19:59	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/24/17 19:59	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/24/17 19:59	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/24/17 19:59	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/24/17 19:59	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/24/17 19:59	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/24/17 19:59	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/24/17 19:59	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/24/17 19:59	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/24/17 19:59	1
2-Hexanone	10	U	10	1.2	ug/L			10/24/17 19:59	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			10/24/17 19:59	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/24/17 19:59	1
Styrene	1.0	U	1.0	0.23	ug/L			10/24/17 19:59	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/24/17 19:59	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/24/17 19:59	1

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

Client Sample ID: GW-101217-BE-022
Date Collected: 10/12/17 15:56
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	**0.27**	**J**	1.0	0.23	ug/L			10/24/17 19:59	1
Trichloroethene	**1.7**		1.0	0.33	ug/L			10/24/17 19:59	1
Vinyl chloride	**30**		1.0	0.45	ug/L			10/24/17 19:59	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/24/17 19:59	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/24/17 19:59	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/24/17 19:59	1
cis-1,2-Dichloroethene	**1.9**		1.0	0.30	ug/L			10/24/17 19:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/24/17 19:59	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/24/17 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*61 - 138*		*10/24/17 19:59*	*1*
4-Bromofluorobenzene (Surr)	*99*		*69 - 120*		*10/24/17 19:59*	*1*
Toluene-d8 (Surr)	*108*		*73 - 120*		*10/24/17 19:59*	*1*
Dibromofluoromethane (Surr)	*101*		*69 - 124*		*10/24/17 19:59*	*1*

Client Sample ID: TB-101217-BE-003
Date Collected: 10/12/17 16:00
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**4.1**	**J**	10	1.8	ug/L			10/24/17 20:24	1
Benzene	1.0	U	1.0	0.28	ug/L			10/24/17 20:24	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/24/17 20:24	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/24/17 20:24	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/24/17 20:24	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/24/17 20:24	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/24/17 20:24	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/24/17 20:24	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/24/17 20:24	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/24/17 20:24	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/24/17 20:24	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/24/17 20:24	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/24/17 20:24	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/24/17 20:24	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/24/17 20:24	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/24/17 20:24	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/24/17 20:24	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/24/17 20:24	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/24/17 20:24	1
2-Hexanone	10	U	10	1.2	ug/L			10/24/17 20:24	1
Methylene Chloride	**1.0**		1.0	0.53	ug/L			10/24/17 20:24	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/24/17 20:24	1
Styrene	1.0	U	1.0	0.23	ug/L			10/24/17 20:24	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/24/17 20:24	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/24/17 20:24	1
Toluene	1.0	U	1.0	0.23	ug/L			10/24/17 20:24	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/24/17 20:24	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/24/17 20:24	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/24/17 20:24	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/24/17 20:24	1

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

Client Sample ID: TB-101217-BE-003
Date Collected: 10/12/17 16:00
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/24/17 20:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/24/17 20:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/24/17 20:24	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/24/17 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*61 - 138*		*10/24/17 20:24*	*1*
4-Bromofluorobenzene (Surr)	*94*		*69 - 120*		*10/24/17 20:24*	*1*
Toluene-d8 (Surr)	*106*		*73 - 120*		*10/24/17 20:24*	*1*
Dibromofluoromethane (Surr)	*101*		*69 - 124*		*10/24/17 20:24*	*1*

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86451-2

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(61-138)	(69-120)	(73-120)	(69-124)
240-86451-1	GW-101217-BE-017	97	98	110	101
240-86451-1 MS	GW-101217-BE-017	94	99	113	101
240-86451-1 MSD	GW-101217-BE-017	92	99	112	98
240-86451-2	GW-101217-BE-018	98	98	107	102
240-86451-3	GW-101217-BE-019	98	96	107	100
240-86451-4	GW-101217-BE-020	98	97	107	99
240-86451-5	GW-101217-BE-021	101	97	108	102
240-86451-6	GW-101217-BE-022	100	99	108	101
240-86451-7	TB-101217-BE-003	99	94	106	101
LCS 240-300356/4	Lab Control Sample	98	100	108	101
MB 240-300356/6	Method Blank	97	97	108	99

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Lab Sample ID: MB 240-300356/6
Matrix: Water
Analysis Batch: 300356

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			10/24/17 12:35	1
Benzene	1.0	U	1.0	0.28	ug/L			10/24/17 12:35	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/24/17 12:35	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/24/17 12:35	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/24/17 12:35	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/24/17 12:35	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/24/17 12:35	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/24/17 12:35	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/24/17 12:35	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/24/17 12:35	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/24/17 12:35	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/24/17 12:35	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/24/17 12:35	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/24/17 12:35	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/24/17 12:35	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/24/17 12:35	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/24/17 12:35	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/24/17 12:35	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/24/17 12:35	1
2-Hexanone	10	U	10	1.2	ug/L			10/24/17 12:35	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			10/24/17 12:35	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/24/17 12:35	1
Styrene	1.0	U	1.0	0.23	ug/L			10/24/17 12:35	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/24/17 12:35	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/24/17 12:35	1
Toluene	1.0	U	1.0	0.23	ug/L			10/24/17 12:35	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/24/17 12:35	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/24/17 12:35	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/24/17 12:35	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/24/17 12:35	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/24/17 12:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/24/17 12:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/24/17 12:35	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/24/17 12:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*61 - 138*		*10/24/17 12:35*	*1*
4-Bromofluorobenzene (Surr)	*97*		*69 - 120*		*10/24/17 12:35*	*1*
Toluene-d8 (Surr)	*108*		*73 - 120*		*10/24/17 12:35*	*1*
Dibromofluoromethane (Surr)	*99*		*69 - 124*		*10/24/17 12:35*	*1*

Lab Sample ID: LCS 240-300356/4
Matrix: Water
Analysis Batch: 300356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acetone			50.0	47.0		ug/L		94	35 - 131		
Benzene			25.0	25.4		ug/L		102	79 - 120		

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

Lab Sample ID: LCS 240-300356/4
Matrix: Water
Analysis Batch: 300356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorobromomethane	25.0	26.5		ug/L		106	79 - 125
Bromoform	25.0	21.5		ug/L		86	55 - 145
Bromomethane	10.0	7.01		ug/L		70	17 - 158
2-Butanone (MEK)	50.0	49.1		ug/L		98	43 - 149
Carbon disulfide	25.0	23.7		ug/L		95	49 - 141
Carbon tetrachloride	25.0	20.7		ug/L		83	55 - 171
Chlorobenzene	25.0	25.8		ug/L		103	80 - 120
Chloroethane	10.0	7.16		ug/L		72	10 - 149
Chloroform	25.0	25.7		ug/L		103	80 - 120
Chloromethane	10.0	11.3		ug/L		113	59 - 124
1,1-Dichloroethane	25.0	25.7		ug/L		103	74 - 120
1,2-Dichloroethane	25.0	26.2		ug/L		105	68 - 133
1,1-Dichloroethene	25.0	22.1		ug/L		88	65 - 127
1,2-Dichloropropane	25.0	26.1		ug/L		104	78 - 127
cis-1,3-Dichloropropene	25.0	23.0		ug/L		92	75 - 120
trans-1,3-Dichloropropene	25.0	21.1		ug/L		84	67 - 120
Ethylbenzene	25.0	26.1		ug/L		104	80 - 120
2-Hexanone	50.0	55.3		ug/L		111	28 - 169
Methylene Chloride	25.0	23.4		ug/L		94	64 - 140
4-Methyl-2-pentanone (MIBK)	50.0	55.4		ug/L		111	53 - 144
Styrene	25.0	26.4		ug/L		106	80 - 121
1,1,2,2-Tetrachloroethane	25.0	28.3		ug/L		113	58 - 122
Tetrachloroethene	25.0	26.9		ug/L		108	80 - 122
Toluene	25.0	26.1		ug/L		104	78 - 120
Trichloroethene	25.0	25.6		ug/L		102	76 - 124
Vinyl chloride	10.0	8.85		ug/L		89	65 - 124
Xylenes, Total	50.0	52.3		ug/L		105	80 - 120
1,1,1-Trichloroethane	25.0	21.9		ug/L		88	64 - 147
1,1,2-Trichloroethane	25.0	27.6		ug/L		110	76 - 121
cis-1,2-Dichloroethene	25.0	25.4		ug/L		101	77 - 120
trans-1,2-Dichloroethene	25.0	26.5		ug/L		106	74 - 124
Chlorodibromomethane	25.0	23.3		ug/L		93	64 - 129
m-Xylene & p-Xylene	25.0	25.9		ug/L		104	80 - 120
o-Xylene	25.0	26.4		ug/L		105	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*61 - 138*
4-Bromofluorobenzene (Surr)	*100*		*69 - 120*
Toluene-d8 (Surr)	*108*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*69 - 124*

Lab Sample ID: 240-86451-1 MS
Matrix: Water
Analysis Batch: 300356

Client Sample ID: GW-101217-BE-017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	8300	U	41700	35000		ug/L		84	19 - 133
Benzene	830	U	20800	19000		ug/L		91	69 - 127

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

Lab Sample ID: 240-86451-1 MS
Matrix: Water
Analysis Batch: 300356

Client Sample ID: GW-101217-BE-017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorobromomethane	830	U	20800	19600		ug/L		94	75 - 128
Bromoform	830	U	20800	14700		ug/L		71	61 - 135
Bromomethane	830	U	8330	6100		ug/L		73	10 - 148
2-Butanone (MEK)	8300	U	41700	36300		ug/L		87	34 - 153
Carbon disulfide	830	U	20800	17000		ug/L		81	46 - 143
Carbon tetrachloride	830	U	20800	12300		ug/L		59	53 - 175
Chlorobenzene	830	U	20800	17300		ug/L		83	76 - 120
Chloroethane	830	U	8330	5670		ug/L		68	10 - 141
Chloroform	830	U	20800	19800		ug/L		95	74 - 125
Chloromethane	830	U	8330	7850		ug/L		94	34 - 127
1,1-Dichloroethane	1200		20800	20900		ug/L		94	69 - 122
1,2-Dichloroethane	830	U	20800	20800		ug/L		100	64 - 138
1,1-Dichloroethene	380	J	20800	15700		ug/L		74	62 - 127
1,2-Dichloropropane	830	U	20800	20000		ug/L		96	72 - 131
cis-1,3-Dichloropropene	830	U	20800	15700		ug/L		75	68 - 120
trans-1,3-Dichloropropene	830	U	20800	14400		ug/L		69	59 - 120
Ethylbenzene	740	J	20800	16700		ug/L		77	72 - 121
2-Hexanone	8300	U	41700	38700		ug/L		93	21 - 184
Methylene Chloride	830	U	20800	19000		ug/L		91	52 - 137
4-Methyl-2-pentanone (MIBK)	8300	U	41700	40200		ug/L		96	53 - 147
Styrene	830	U	20800	17300		ug/L		83	74 - 125
1,1,2,2-Tetrachloroethane	830	U	20800	20800		ug/L		100	51 - 123
Tetrachloroethene	830	U	20800	15300		ug/L		73	69 - 126
Toluene	3600		20800	21500		ug/L		86	69 - 125
Trichloroethene	830	U	20800	17200		ug/L		83	68 - 129
Vinyl chloride	9000		8330	14900		ug/L		71	55 - 123
Xylenes, Total	2100		41700	34300		ug/L		77	71 - 122
1,1,1-Trichloroethane	830	U	20800	14800		ug/L		71	57 - 156
1,1,2-Trichloroethane	830	U	20800	21700		ug/L		104	68 - 127
cis-1,2-Dichloroethene	69000		20800	86600		ug/L		87	69 - 127
trans-1,2-Dichloroethene	830	U	20800	19200		ug/L		92	66 - 131
Chlorodibromomethane	830	U	20800	17000		ug/L		82	62 - 131
m-Xylene & p-Xylene	1400	J	20800	16900		ug/L		75	70 - 121
o-Xylene	710	J	20800	17400		ug/L		80	71 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*61 - 138*
4-Bromofluorobenzene (Surr)	*99*		*69 - 120*
Toluene-d8 (Surr)	*113*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*69 - 124*

Lab Sample ID: 240-86451-1 MSD
Matrix: Water
Analysis Batch: 300356

Client Sample ID: GW-101217-BE-017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	8300	U	41700	32700		ug/L		78	19 - 133	7	35
Benzene	830	U	20800	19400		ug/L		93	69 - 127	2	10

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

Lab Sample ID: 240-86451-1 MSD
Matrix: Water
Analysis Batch: 300356

Client Sample ID: GW-101217-BE-017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorobromomethane	830	U	20800	19700		ug/L		94	75 - 128	0	13
Bromoform	830	U	20800	14800		ug/L		71	61 - 135	1	13
Bromomethane	830	U	8330	6630		ug/L		80	10 - 148	8	35
2-Butanone (MEK)	8300	U	41700	33200		ug/L		80	34 - 153	9	23
Carbon disulfide	830	U	20800	17400		ug/L		84	46 - 143	3	18
Carbon tetrachloride	830	U	20800	13000		ug/L		62	53 - 175	5	17
Chlorobenzene	830	U	20800	18800		ug/L		90	76 - 120	8	12
Chloroethane	830	U	8330	6130		ug/L		74	10 - 141	8	35
Chloroform	830	U	20800	20100		ug/L		96	74 - 125	1	11
Chloromethane	830	U	8330	8090		ug/L		97	34 - 127	3	25
1,1-Dichloroethane	1200		20800	21100		ug/L		95	69 - 122	1	11
1,2-Dichloroethane	830	U	20800	20000		ug/L		96	64 - 138	4	11
1,1-Dichloroethene	380	J	20800	16200		ug/L		76	62 - 127	3	14
1,2-Dichloropropane	830	U	20800	20100		ug/L		97	72 - 131	0	12
cis-1,3-Dichloropropene	830	U	20800	16300		ug/L		78	68 - 120	3	13
trans-1,3-Dichloropropene	830	U	20800	14900		ug/L		71	59 - 120	3	14
Ethylbenzene	740	J	20800	18400		ug/L		85	72 - 121	10	15
2-Hexanone	8300	U	41700	36100		ug/L		87	21 - 184	7	12
Methylene Chloride	830	U	20800	18300		ug/L		88	52 - 137	4	12
4-Methyl-2-pentanone (MIBK)	8300	U	41700	37900		ug/L		91	53 - 147	6	16
Styrene	830	U	20800	19200		ug/L		92	74 - 125	10	14
1,1,2,2-Tetrachloroethane	830	U	20800	20400		ug/L		98	51 - 123	2	17
Tetrachloroethene	830	U	20800	17100		ug/L		82	69 - 126	11	18
Toluene	3600		20800	22900		ug/L		93	69 - 125	7	14
Trichloroethene	830	U	20800	18000		ug/L		87	68 - 129	5	12
Vinyl chloride	9000		8330	15400		ug/L		77	55 - 123	3	12
Xylenes, Total	2100		41700	38500		ug/L		87	71 - 122	12	14
1,1,1-Trichloroethane	830	U	20800	15500		ug/L		74	57 - 156	4	13
1,1,2-Trichloroethane	830	U	20800	20700		ug/L		99	68 - 127	5	11
cis-1,2-Dichloroethene	69000		20800	88200		ug/L		95	69 - 127	2	11
trans-1,2-Dichloroethene	830	U	20800	19500		ug/L		94	66 - 131	2	11
Chlorodibromomethane	830	U	20800	17200		ug/L		83	62 - 131	1	15
m-Xylene & p-Xylene	1400	J	20800	18900		ug/L		84	70 - 121	11	15
o-Xylene	710	J	20800	19600		ug/L		91	71 - 125	12	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*61 - 138*
4-Bromofluorobenzene (Surr)	*99*		*69 - 120*
Toluene-d8 (Surr)	*112*		*73 - 120*
Dibromofluoromethane (Surr)	*98*		*69 - 124*

QC Association Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86451-2

GC/MS VOA

Analysis Batch: 300356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86451-1	GW-101217-BE-017	Total/NA	Water	8260B	
240-86451-2	GW-101217-BE-018	Total/NA	Water	8260B	
240-86451-3	GW-101217-BE-019	Total/NA	Water	8260B	
240-86451-4	GW-101217-BE-020	Total/NA	Water	8260B	
240-86451-5	GW-101217-BE-021	Total/NA	Water	8260B	
240-86451-6	GW-101217-BE-022	Total/NA	Water	8260B	
240-86451-7	TB-101217-BE-003	Total/NA	Water	8260B	
MB 240-300356/6	Method Blank	Total/NA	Water	8260B	
LCS 240-300356/4	Lab Control Sample	Total/NA	Water	8260B	
240-86451-1 MS	GW-101217-BE-017	Total/NA	Water	8260B	
240-86451-1 MSD	GW-101217-BE-017	Total/NA	Water	8260B	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86451-2

Client Sample ID: GW-101217-BE-017
Date Collected: 10/12/17 09:52
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		833.333	300356	10/24/17 21:39	SAM	TAL CAN

Client Sample ID: GW-101217-BE-018
Date Collected: 10/12/17 11:23
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	300356	10/24/17 20:49	SAM	TAL CAN

Client Sample ID: GW-101217-BE-019
Date Collected: 10/12/17 13:43
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	300356	10/24/17 21:14	SAM	TAL CAN

Client Sample ID: GW-101217-BE-020
Date Collected: 10/12/17 14:53
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300356	10/24/17 19:10	SAM	TAL CAN

Client Sample ID: GW-101217-BE-021
Date Collected: 10/12/17 14:57
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300356	10/24/17 19:34	SAM	TAL CAN

Client Sample ID: GW-101217-BE-022
Date Collected: 10/12/17 15:56
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300356	10/24/17 19:59	SAM	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86451-2

Client Sample ID: TB-101217-BE-003
Date Collected: 10/12/17 16:00
Date Received: 10/13/17 09:30

Lab Sample ID: 240-86451-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300356	10/24/17 20:24	SAM	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86451-2

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-18 *
West Virginia DEP	State Program	3	210	12-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

CHAIN OF CUSTODY RECORD

COC NO.: IN- 14976

PAGE 1 OF 1

(See Reverse Side for Instructions)

CONESTOGA-ROVERS & ASSOCIATES

6520 Corporate Drive, Indianapolis, Indiana 46278

Phone: (317) 291-7007 Fax: (317) 328-2666

Project No/ Phase/Task Code: 017302-T07	Laboratory Name: TestAmerica North Canton	Lab Location: North Canton	SSOW ID: 017302-T07
Project Name: MLK	Lab Contact: Denise Heckler	Lab Quote No:	Cooler No: 1 of 1
Project Location: Anderson, IN			Carrier: Fed Ex
Chemistry Contact: Deborah Andrasko			Airbill No:
Sampler(s): Brynn Eindler			Date Shipped: 10/12/17

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Container Quantity & Preservation: Unpreserved	HCl	HNO_3	H_2SO_4	NaOH	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	VOC	Alk, bicarb/carb	Dissolved Gas	DOC	TDC	Manganese	Calc Sulfide	Hardness	Chloride, Sulfide	Nitrite, Nitrate	MS/MSD Request	Comments/ Special Instructions:
1	GW-101217-BE-017	10/12/17	952	WG	G	4	15	4	12	2				37	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2	GW-101217-BE-018	10/12/17	1123	WG	G	2	6	2	6	1				17	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	GW-101217-BE-019		1343	WG	G	2	6	2	6	1				17	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4	GW-101217-BE-020		1453	WG	G		3							3	✓											
5	GW-101217-BE-021		1457	WG	G		3							3	✓											
6	GW-101217-BE-022		1556	WG	G		3							3	✓											
7	TB-101217-BE-003	10/12/17	1600	WG	G		1							1	✓											
8																										
9																										
10																										
11																										
12																										
13																										
14																										
15																										

240-86451 Chain of Custody

TAT Required in business days (use separate COCs for different TATs):

☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 81

All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Brynn Eindler	GHD	10/12/17	1800	1.	TAL	10-13-17	930
				2.			
				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 84451

Client CRA Site Name —

Cooler Received on 10-13-17 Opened on 10-13-17

Cooler unpacked by: POP

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp. 3.2 °C Corrected Cooler Temp. 3.2 °C

IR GUN #36 (CF +0.3°C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C

IR GUN # 627 (CF -1.3°C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C

2.	Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes No
	-Were the seals on the outside of the cooler(s) signed & dated?	Yes No NA
	-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes No
	-Were tamper/custody seals intact and uncompromised?	Yes No NA
3.	Shippers' packing slip attached to the cooler(s)?	Yes No
4.	Did custody papers accompany the sample(s)?	Yes No
5.	Were the custody papers relinquished & signed in the appropriate place?	Yes No
6.	Was/were the person(s) who collected the samples clearly identified on the COC?	Yes No
7.	Did all bottles arrive in good condition (Unbroken)?	Yes No
8.	Could all bottle labels be reconciled with the COC?	Yes No
9.	Were correct bottle(s) used for the test(s) indicated?	Yes No
10.	Sufficient quantity received to perform indicated analyses?	Yes No
11.	Are these work share samples?	Yes No
	If yes, Questions 11-15 have been checked at the originating laboratory.	
11.	Were all preserved sample(s) at the correct pH upon receipt?	Yes No NA pH Strip Lot# HC697954
12.	Were VOAs on the COC?	Yes No
13.	Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes No NA
14.	Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # COVERED	Yes No
15.	Was a LL Hg or Me Hg trip blank present? ____	Yes No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM ____ Date ____ by ____ via Verbal Voice Mail Other

Concerning ____

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

17. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.

Sample(s) ____ were received in a broken container.

Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in the laboratory.

Time preserved: ____ Preservative(s) added/Lot number(s): ____

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
GW-101217-BE-017	240-86451-AD-1	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-101217-BE-017	240-86451-AE-1	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-101217-BE-017	240-86451-AH-1	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-101217-BE-017	240-86451-AI-1	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-101217-BE-017	240-86451-AJ-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-101217-BE-017	240-86451-AK-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-101217-BE-018	240-86451-N-2	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-101217-BE-018	240-86451-P-2	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-101217-BE-018	240-86451-Q-2	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-101217-BE-019	240-86451-N-3	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-101217-BE-019	240-86451-P-3	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-101217-BE-019	240-86451-Q-3	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-86639-1
Client Project/Site: 17302, RACER Delphi Anderson

For:
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko

Denise D Heckler

Authorized for release by:
10/29/2017 1:47:19 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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.

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Qualifiers

GC 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.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

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	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)

Job ID: 240-86639-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-86639-1

Comments
For DOC samples GW-101717-BE-032 (240-86639-12) and GW-101717-BE-033 (240-86639-13). All DOC vials labeled in the field as 32. Per GHD these are duplicates of each other so OK to use vial 32 for 33.

Receipt
The samples were received on 10/18/2017 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.8º C and 2.6º C.

GC VOA
Method(s) RSK-175: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-300703.

Method(s) RSK-175: The associated RSK samples were analyzed following the requirements of a revised RSK SOP. Samples were analyzed to avoid hold time violations while the SOP is still waiting final approval signatures.

GW-101717-BE-032 (240-86639-12), GW-101717-BE-033 (240-86639-13), GW-101717-BE-034 (240-86639-14), GW-101717-BE-035 (240-86639-15), GW-101717-BE-036 (240-86639-17), GW-101717-BE-037 (240-86639-18), (CCV 240-300703/19), (CCVRT 240-300703/3), (LCS 240-300703/5), (LCSD 240-300703/6) and (MB 240-300703/4)

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.

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

Method Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86639-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
2320B-1997	Alkalinity, Total	SM	TAL CAN
2340C-1997	Hardness, Total	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL CAN
9060	Organic Carbon, Dissolved (DOC)	SW846	TAL CAN
9060	Organic Carbon, Total (TOC)	SW846	TAL CAN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86639-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-86639-12	GW-101717-BE-032	Water	10/17/17 10:43	10/18/17 09:30
240-86639-13	GW-101717-BE-033	Water	10/17/17 10:47	10/18/17 09:30
240-86639-14	GW-101717-BE-034	Water	10/17/17 13:18	10/18/17 09:30
240-86639-15	GW-101717-BE-035	Water	10/17/17 14:33	10/18/17 09:30
240-86639-17	GW-101717-BE-036	Water	10/17/17 16:00	10/18/17 09:30
240-86639-18	GW-101717-BE-037	Water	10/17/17 18:03	10/18/17 09:30

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86639-1

Client Sample ID: GW-101717-BE-032 — Lab Sample ID: 240-86639-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	12		1.0	0.17	ug/L	1		RSK-175	Total/NA
Ethane	1.1		1.0	0.10	ug/L	1		RSK-175	Total/NA
Ethylene	11		1.0	0.11	ug/L	1		RSK-175	Total/NA
Manganese	130		15	5.1	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	310		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	410		25	12	mg/L	1		2340C-1997	Total/NA
Chloride	51		1.0	0.28	mg/L	1		300.0	Total/NA
Sulfate	71		1.0	0.35	mg/L	1		300.0	Total/NA
Total Organic Carbon	1.8		1.0	0.14	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	1.6		1.0	0.14	mg/L	1		9060	Dissolved

Client Sample ID: GW-101717-BE-033 — Lab Sample ID: 240-86639-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	11		1.0	0.17	ug/L	1		RSK-175	Total/NA
Ethane	0.86	J	1.0	0.10	ug/L	1		RSK-175	Total/NA
Ethylene	10		1.0	0.11	ug/L	1		RSK-175	Total/NA
Manganese	140		15	5.1	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	310		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	400		25	12	mg/L	1		2340C-1997	Total/NA
Chloride	51		1.0	0.28	mg/L	1		300.0	Total/NA
Sulfate	71		1.0	0.35	mg/L	1		300.0	Total/NA
Total Organic Carbon	1.7		1.0	0.14	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	1.7		1.0	0.14	mg/L	1		9060	Dissolved

Client Sample ID: GW-101717-BE-034 — Lab Sample ID: 240-86639-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	16		1.0	0.17	ug/L	1		RSK-175	Total/NA
Ethane	0.84	J	1.0	0.10	ug/L	1		RSK-175	Total/NA
Ethylene	2.6		1.0	0.11	ug/L	1		RSK-175	Total/NA
Manganese	150		15	5.1	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	340		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	430		25	12	mg/L	1		2340C-1997	Total/NA
Chloride	93		1.0	0.28	mg/L	1		300.0	Total/NA
Sulfate	70		1.0	0.35	mg/L	1		300.0	Total/NA
Total Organic Carbon	1.6		1.0	0.14	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	1.6		1.0	0.14	mg/L	1		9060	Dissolved

Client Sample ID: GW-101717-BE-035 — Lab Sample ID: 240-86639-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	8.2		1.0	0.17	ug/L	1		RSK-175	Total/NA
Ethane	0.29	J	1.0	0.10	ug/L	1		RSK-175	Total/NA
Ethylene	0.41	J	1.0	0.11	ug/L	1		RSK-175	Total/NA
Manganese	380		15	5.1	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	390		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	470		25	12	mg/L	1		2340C-1997	Total/NA
Chloride	31		1.0	0.28	mg/L	1		300.0	Total/NA
Sulfate	95		1.0	0.35	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86639-1

Client Sample ID: GW-101717-BE-035 (Continued) — Lab Sample ID: 240-86639-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	2.1		1.0	0.14	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	2.1		1.0	0.14	mg/L	1		9060	Dissolved

Client Sample ID: GW-101717-BE-036 — Lab Sample ID: 240-86639-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	4.3		1.0	0.17	ug/L	1		RSK-175	Total/NA
Manganese	100		15	5.1	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	350	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	460		25	12	mg/L	1		2340C-1997	Total/NA
Chloride	19		1.0	0.28	mg/L	1		300.0	Total/NA
Nitrite as N	0.029	J	0.10	0.014	mg/L	1		300.0	Total/NA
Nitrate as N	1.7		0.10	0.014	mg/L	1		300.0	Total/NA
Sulfate	50		1.0	0.35	mg/L	1		300.0	Total/NA
Total Organic Carbon	2.7		1.0	0.14	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	2.8		1.0	0.14	mg/L	1		9060	Dissolved

Client Sample ID: GW-101717-BE-037 — Lab Sample ID: 240-86639-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	75		15	5.1	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	390	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	420		25	12	mg/L	1		2340C-1997	Total/NA
Chloride	34		1.0	0.28	mg/L	1		300.0	Total/NA
Nitrate as N	4.1		0.10	0.014	mg/L	1		300.0	Total/NA
Sulfate	55		1.0	0.35	mg/L	1		300.0	Total/NA
Total Organic Carbon	1.3		1.0	0.14	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	2.1		1.0	0.14	mg/L	1		9060	Dissolved

This Detection Summary does not include radiochemical test results.

Method: RSK-175 - Dissolved Gases (GC)

Client Sample ID: GW-101717-BE-032
Date Collected: 10/17/17 10:43
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	12		1.0	0.17	ug/L			10/26/17 14:15	1
Ethane	1.1		1.0	0.10	ug/L			10/26/17 14:15	1
Ethylene	11		1.0	0.11	ug/L			10/26/17 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*86*		*60 - 140*		*10/26/17 14:15*	*1*

Client Sample ID: GW-101717-BE-033
Date Collected: 10/17/17 10:47
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	11		1.0	0.17	ug/L			10/26/17 14:32	1
Ethane	0.86	J	1.0	0.10	ug/L			10/26/17 14:32	1
Ethylene	10		1.0	0.11	ug/L			10/26/17 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*86*		*60 - 140*		*10/26/17 14:32*	*1*

Client Sample ID: GW-101717-BE-034
Date Collected: 10/17/17 13:18
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	16		1.0	0.17	ug/L			10/26/17 14:50	1
Ethane	0.84	J	1.0	0.10	ug/L			10/26/17 14:50	1
Ethylene	2.6		1.0	0.11	ug/L			10/26/17 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*84*		*60 - 140*		*10/26/17 14:50*	*1*

Client Sample ID: GW-101717-BE-035
Date Collected: 10/17/17 14:33
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	8.2		1.0	0.17	ug/L			10/26/17 15:07	1
Ethane	0.29	J	1.0	0.10	ug/L			10/26/17 15:07	1
Ethylene	0.41	J	1.0	0.11	ug/L			10/26/17 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*83*		*60 - 140*		*10/26/17 15:07*	*1*

Client Sample ID: GW-101717-BE-036
Date Collected: 10/17/17 16:00
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	4.3		1.0	0.17	ug/L			10/26/17 15:24	1
Ethane	1.0	U	1.0	0.10	ug/L			10/26/17 15:24	1
Ethylene	1.0	U	1.0	0.11	ug/L			10/26/17 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*84*		*60 - 140*		*10/26/17 15:24*	*1*

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86639-1

Method: RSK-175 - Dissolved Gases (GC)

Client Sample ID: GW-101717-BE-037
Date Collected: 10/17/17 18:03
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-18
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	1.0	U	1.0	0.17	ug/L			10/26/17 15:41	1
Ethane	1.0	U	1.0	0.10	ug/L			10/26/17 15:41	1
Ethylene	1.0	U	1.0	0.11	ug/L			10/26/17 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*84*		*60 - 140*		*10/26/17 15:41*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-101717-BE-032
Date Collected: 10/17/17 10:43
Date Received: 10/18/17 09:30
Lab Sample ID: 240-86639-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	130		15	5.1	ug/L		10/19/17 14:00	10/21/17 03:03	1

Client Sample ID: GW-101717-BE-033
Date Collected: 10/17/17 10:47
Date Received: 10/18/17 09:30
Lab Sample ID: 240-86639-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	140		15	5.1	ug/L		10/19/17 14:00	10/21/17 03:08	1

Client Sample ID: GW-101717-BE-034
Date Collected: 10/17/17 13:18
Date Received: 10/18/17 09:30
Lab Sample ID: 240-86639-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	150		15	5.1	ug/L		10/19/17 14:00	10/21/17 03:12	1

Client Sample ID: GW-101717-BE-035
Date Collected: 10/17/17 14:33
Date Received: 10/18/17 09:30
Lab Sample ID: 240-86639-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	380		15	5.1	ug/L		10/19/17 14:00	10/21/17 03:17	1

Client Sample ID: GW-101717-BE-036
Date Collected: 10/17/17 16:00
Date Received: 10/18/17 09:30
Lab Sample ID: 240-86639-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	100		15	5.1	ug/L		10/19/17 14:00	10/21/17 03:22	1

Client Sample ID: GW-101717-BE-037
Date Collected: 10/17/17 18:03
Date Received: 10/18/17 09:30
Lab Sample ID: 240-86639-18
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	75		15	5.1	ug/L		10/19/17 14:00	10/21/17 03:26	1

General Chemistry

Client Sample ID: GW-101717-BE-032
Date Collected: 10/17/17 10:43
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**310**		5.0	2.6	mg/L			10/27/17 15:50	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/27/17 15:50	1
Hardness as calcium carbonate	**410**		25	12	mg/L			10/19/17 09:01	1
Chloride	**51**		1.0	0.28	mg/L			10/19/17 00:31	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/19/17 00:31	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/19/17 00:31	1
Sulfate	**71**		1.0	0.35	mg/L			10/19/17 00:31	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/19/17 11:04	10/19/17 13:28	1
Total Organic Carbon	**1.8**		1.0	0.14	mg/L			10/23/17 12:16	1

Client Sample ID: GW-101717-BE-033
Date Collected: 10/17/17 10:47
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**310**		5.0	2.6	mg/L			10/27/17 16:06	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/27/17 16:06	1
Hardness as calcium carbonate	**400**		25	12	mg/L			10/19/17 09:05	1
Chloride	**51**		1.0	0.28	mg/L			10/19/17 02:36	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/19/17 02:36	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/19/17 02:36	1
Sulfate	**71**		1.0	0.35	mg/L			10/19/17 02:36	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/19/17 11:04	10/19/17 13:28	1
Total Organic Carbon	**1.7**		1.0	0.14	mg/L			10/23/17 12:43	1

Client Sample ID: GW-101717-BE-034
Date Collected: 10/17/17 13:18
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**340**		5.0	2.6	mg/L			10/27/17 16:31	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/27/17 16:31	1
Hardness as calcium carbonate	**430**		25	12	mg/L			10/19/17 09:09	1
Chloride	**93**		1.0	0.28	mg/L			10/19/17 03:17	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/19/17 03:17	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/19/17 03:17	1
Sulfate	**70**		1.0	0.35	mg/L			10/19/17 03:17	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/19/17 11:04	10/19/17 13:28	1
Total Organic Carbon	**1.6**		1.0	0.14	mg/L			10/23/17 13:10	1

Client Sample ID: GW-101717-BE-035
Date Collected: 10/17/17 14:33
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**390**		5.0	2.6	mg/L			10/27/17 16:45	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/27/17 16:45	1
Hardness as calcium carbonate	**470**		25	12	mg/L			10/19/17 09:13	1
Chloride	**31**		1.0	0.28	mg/L			10/19/17 03:59	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/19/17 03:59	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/19/17 03:59	1
Sulfate	**95**		1.0	0.35	mg/L			10/19/17 03:59	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/19/17 11:04	10/19/17 13:28	1

General Chemistry (Continued)

Client Sample ID: GW-101717-BE-035
Date Collected: 10/17/17 14:33
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**2.1**		1.0	0.14	mg/L			10/23/17 13:54	1

Client Sample ID: GW-101717-BE-036
Date Collected: 10/17/17 16:00
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**350**	**B**	5.0	2.6	mg/L			10/26/17 13:17	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/26/17 13:17	1
Hardness as calcium carbonate	**460**		25	12	mg/L			10/19/17 09:17	1
Chloride	**19**		1.0	0.28	mg/L			10/19/17 04:40	1
Nitrite as N	**0.029**	**J**	0.10	0.014	mg/L			10/19/17 04:40	1
Nitrate as N	**1.7**		0.10	0.014	mg/L			10/19/17 04:40	1
Sulfate	**50**		1.0	0.35	mg/L			10/19/17 04:40	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/20/17 10:57	10/20/17 14:18	1
Total Organic Carbon	**2.7**		1.0	0.14	mg/L			10/23/17 14:21	1

Client Sample ID: GW-101717-BE-037
Date Collected: 10/17/17 18:03
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-18
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**390**	**B**	5.0	2.6	mg/L			10/26/17 13:32	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/26/17 13:32	1
Hardness as calcium carbonate	**420**		25	12	mg/L			10/19/17 09:21	1
Chloride	**34**		1.0	0.28	mg/L			10/19/17 06:04	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/19/17 06:04	1
Nitrate as N	**4.1**		0.10	0.014	mg/L			10/19/17 06:04	1
Sulfate	**55**		1.0	0.35	mg/L			10/19/17 06:04	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/20/17 10:57	10/20/17 14:18	1
Total Organic Carbon	**1.3**		1.0	0.14	mg/L			10/23/17 14:48	1

General Chemistry - Dissolved

Client Sample ID: GW-101717-BE-032
Date Collected: 10/17/17 10:43
Date Received: 10/18/17 09:30
Lab Sample ID: 240-86639-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.6		1.0	0.14	mg/L			10/26/17 06:40	1

Client Sample ID: GW-101717-BE-033
Date Collected: 10/17/17 10:47
Date Received: 10/18/17 09:30
Lab Sample ID: 240-86639-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.7		1.0	0.14	mg/L			10/26/17 07:23	1

Client Sample ID: GW-101717-BE-034
Date Collected: 10/17/17 13:18
Date Received: 10/18/17 09:30
Lab Sample ID: 240-86639-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.6		1.0	0.14	mg/L			10/26/17 07:51	1

Client Sample ID: GW-101717-BE-035
Date Collected: 10/17/17 14:33
Date Received: 10/18/17 09:30
Lab Sample ID: 240-86639-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	2.1		1.0	0.14	mg/L			10/26/17 08:18	1

Client Sample ID: GW-101717-BE-036
Date Collected: 10/17/17 16:00
Date Received: 10/18/17 09:30
Lab Sample ID: 240-86639-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	2.8		1.0	0.14	mg/L			10/26/17 08:45	1

Client Sample ID: GW-101717-BE-037
Date Collected: 10/17/17 18:03
Date Received: 10/18/17 09:30
Lab Sample ID: 240-86639-18
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	2.1		1.0	0.14	mg/L			10/26/17 09:12	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86639-1

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	rifluoroet (60-140)							
240-86639-12	GW-101717-BE-032	86							
240-86639-13	GW-101717-BE-033	86							
240-86639-14	GW-101717-BE-034	84							
240-86639-15	GW-101717-BE-035	83							
240-86639-17	GW-101717-BE-036	84							
240-86639-18	GW-101717-BE-037	84							
LCS 240-300703/5	Lab Control Sample	88							
LCSD 240-300703/6	Lab Control Sample Dup	86							
MB 240-300703/4	Method Blank	89							

Surrogate Legend

1,1,1-Trifluoroethane = 1,1,1-Trifluoroethane

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 240-300703/4
Matrix: Water
Analysis Batch: 300703

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	1.0	U	1.0	0.17	ug/L			10/26/17 12:16	1
Ethane	1.0	U	1.0	0.10	ug/L			10/26/17 12:16	1
Ethylene	1.0	U	1.0	0.11	ug/L			10/26/17 12:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*89*		*60 - 140*		*10/26/17 12:16*	*1*

Lab Sample ID: LCS 240-300703/5
Matrix: Water
Analysis Batch: 300703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	285	288		ug/L		101	80 - 120
Ethane	536	576		ug/L		107	80 - 120
Ethylene	501	533		ug/L		106	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,1,1-Trifluoroethane	*88*		*60 - 140*

Lab Sample ID: LCSD 240-300703/6
Matrix: Water
Analysis Batch: 300703

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane	285	288		ug/L		101	80 - 120	0	35
Ethane	536	579		ug/L		108	80 - 120	1	35
Ethylene	501	532		ug/L		106	80 - 120	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,1,1-Trifluoroethane	*86*		*60 - 140*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-299759/1-A
Matrix: Water
Analysis Batch: 300014

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 299759

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	15	U	15	5.1	ug/L		10/19/17 14:00	10/21/17 01:22	1

Lab Sample ID: LCS 240-299759/2-A
Matrix: Water
Analysis Batch: 300014

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 299759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	500	498		ug/L		100	80 - 120

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-300808/5
Matrix: Water
Analysis Batch: 300808

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	2.69	J	5.0	2.6	mg/L			10/26/17 12:33	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/26/17 12:33	1

Lab Sample ID: MB 240-301027/5
Matrix: Water
Analysis Batch: 301027

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/27/17 13:54	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/27/17 13:54	1

Lab Sample ID: 240-86639-14 DU
Matrix: Water
Analysis Batch: 301027

Client Sample ID: GW-101717-BE-034
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO3	340		337		mg/L		0	20
Carbonate Alkalinity as CaCO3	5.0	U	5.0	U	mg/L		NC	20

Method: 2340C-1997 - Hardness, Total

Lab Sample ID: MB 240-299717/1
Matrix: Water
Analysis Batch: 299717

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	5.0	U	5.0	2.4	mg/L			10/19/17 07:59	1

Lab Sample ID: LCS 240-299717/2
Matrix: Water
Analysis Batch: 299717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness as calcium carbonate	184	180		mg/L		98	90 - 110

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-299598/3
Matrix: Water
Analysis Batch: 299598

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.28	mg/L			10/18/17 13:26	1
Sulfate	1.0	U	1.0	0.35	mg/L			10/18/17 13:26	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 240-299598/39
Matrix: Water
Analysis Batch: 299598

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.28	mg/L			10/19/17 01:54	1
Sulfate	1.0	U	1.0	0.35	mg/L			10/19/17 01:54	1

Lab Sample ID: LCS 240-299598/4
Matrix: Water
Analysis Batch: 299598

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	51.2		mg/L		102	90 - 110
Sulfate	50.0	51.8		mg/L		104	90 - 110

Lab Sample ID: LCS 240-299598/40
Matrix: Water
Analysis Batch: 299598

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	51.3		mg/L		103	90 - 110
Sulfate	50.0	51.8		mg/L		104	90 - 110

Lab Sample ID: MB 240-299599/3
Matrix: Water
Analysis Batch: 299599

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/18/17 13:26	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/18/17 13:26	1

Lab Sample ID: MB 240-299599/39
Matrix: Water
Analysis Batch: 299599

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/19/17 01:54	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/19/17 01:54	1

Lab Sample ID: LCS 240-299599/4
Matrix: Water
Analysis Batch: 299599

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	2.50	2.43		mg/L		97	90 - 110
Nitrate as N	2.50	2.62		mg/L		105	90 - 110

Lab Sample ID: LCS 240-299599/40
Matrix: Water
Analysis Batch: 299599

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	2.50	2.41		mg/L		97	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 240-299599/40
Matrix: Water
Analysis Batch: 299599

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.50	2.62		mg/L		105	90 - 110

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-299774/1-A
Matrix: Water
Analysis Batch: 299811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 299774

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	3.0	U	3.0	1.4	mg/L		10/19/17 11:04	10/19/17 13:28	1

Lab Sample ID: LCS 240-299774/2-A
Matrix: Water
Analysis Batch: 299811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 299774

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	7.60	5.47		mg/L		72	70 - 120

Lab Sample ID: MB 240-299978/1-A
Matrix: Water
Analysis Batch: 300019

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 299978

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	3.0	U	3.0	1.4	mg/L		10/20/17 10:57	10/20/17 14:18	1

Lab Sample ID: LCS 240-299978/2-A
Matrix: Water
Analysis Batch: 300019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 299978

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	7.73	6.13		mg/L		79	70 - 120

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 240-300315/4
Matrix: Water
Analysis Batch: 300315

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.14	mg/L			10/23/17 10:40	1

Lab Sample ID: LCS 240-300315/6
Matrix: Water
Analysis Batch: 300315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	21.8	22.4		mg/L		103	80 - 120

Method: 9060 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LLCS 240-300315/5
Matrix: Water
Analysis Batch: 300315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	2.18	2.35		mg/L		108	88 - 115

Method: 9060 - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 240-300752/4
Matrix: Water
Analysis Batch: 300752

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.0	U	1.0	0.14	mg/L			10/26/17 06:23	1

Lab Sample ID: LLCS 240-300752/5
Matrix: Water
Analysis Batch: 300752

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	2.18	2.35		mg/L		108	88 - 115

Lab Sample ID: 240-86639-12 MS
Matrix: Water
Analysis Batch: 300752

Client Sample ID: GW-101717-BE-032
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	1.6		5.00	6.89		mg/L		105	65 - 134

Lab Sample ID: 240-86639-12 MSD
Matrix: Water
Analysis Batch: 300752

Client Sample ID: GW-101717-BE-032
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dissolved Organic Carbon	1.6		5.00	6.87		mg/L		105	65 - 134	0	10

GC VOA

Analysis Batch: 300703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86639-12	GW-101717-BE-032	Total/NA	Water	RSK-175	
240-86639-13	GW-101717-BE-033	Total/NA	Water	RSK-175	
240-86639-14	GW-101717-BE-034	Total/NA	Water	RSK-175	
240-86639-15	GW-101717-BE-035	Total/NA	Water	RSK-175	
240-86639-17	GW-101717-BE-036	Total/NA	Water	RSK-175	
240-86639-18	GW-101717-BE-037	Total/NA	Water	RSK-175	
MB 240-300703/4	Method Blank	Total/NA	Water	RSK-175	
LCS 240-300703/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 240-300703/6	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Metals

Prep Batch: 299759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86639-12	GW-101717-BE-032	Dissolved	Water	3005A	
240-86639-13	GW-101717-BE-033	Dissolved	Water	3005A	
240-86639-14	GW-101717-BE-034	Dissolved	Water	3005A	
240-86639-15	GW-101717-BE-035	Dissolved	Water	3005A	
240-86639-17	GW-101717-BE-036	Dissolved	Water	3005A	
240-86639-18	GW-101717-BE-037	Dissolved	Water	3005A	
MB 240-299759/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-299759/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 300014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86639-12	GW-101717-BE-032	Dissolved	Water	6010B	299759
240-86639-13	GW-101717-BE-033	Dissolved	Water	6010B	299759
240-86639-14	GW-101717-BE-034	Dissolved	Water	6010B	299759
240-86639-15	GW-101717-BE-035	Dissolved	Water	6010B	299759
240-86639-17	GW-101717-BE-036	Dissolved	Water	6010B	299759
240-86639-18	GW-101717-BE-037	Dissolved	Water	6010B	299759
MB 240-299759/1-A	Method Blank	Total Recoverable	Water	6010B	299759
LCS 240-299759/2-A	Lab Control Sample	Total Recoverable	Water	6010B	299759

General Chemistry

Analysis Batch: 299598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86639-12	GW-101717-BE-032	Total/NA	Water	300.0	
240-86639-13	GW-101717-BE-033	Total/NA	Water	300.0	
240-86639-14	GW-101717-BE-034	Total/NA	Water	300.0	
240-86639-15	GW-101717-BE-035	Total/NA	Water	300.0	
240-86639-17	GW-101717-BE-036	Total/NA	Water	300.0	
240-86639-18	GW-101717-BE-037	Total/NA	Water	300.0	
MB 240-299598/3	Method Blank	Total/NA	Water	300.0	
MB 240-299598/39	Method Blank	Total/NA	Water	300.0	
LCS 240-299598/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 240-299598/40	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 299599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86639-12	GW-101717-BE-032	Total/NA	Water	300.0	
240-86639-13	GW-101717-BE-033	Total/NA	Water	300.0	
240-86639-14	GW-101717-BE-034	Total/NA	Water	300.0	
240-86639-15	GW-101717-BE-035	Total/NA	Water	300.0	
240-86639-17	GW-101717-BE-036	Total/NA	Water	300.0	
240-86639-18	GW-101717-BE-037	Total/NA	Water	300.0	
MB 240-299599/3	Method Blank	Total/NA	Water	300.0	
MB 240-299599/39	Method Blank	Total/NA	Water	300.0	
LCS 240-299599/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 240-299599/40	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 299717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86639-12	GW-101717-BE-032	Total/NA	Water	2340C-1997	
240-86639-13	GW-101717-BE-033	Total/NA	Water	2340C-1997	
240-86639-14	GW-101717-BE-034	Total/NA	Water	2340C-1997	
240-86639-15	GW-101717-BE-035	Total/NA	Water	2340C-1997	
240-86639-17	GW-101717-BE-036	Total/NA	Water	2340C-1997	
240-86639-18	GW-101717-BE-037	Total/NA	Water	2340C-1997	
MB 240-299717/1	Method Blank	Total/NA	Water	2340C-1997	
LCS 240-299717/2	Lab Control Sample	Total/NA	Water	2340C-1997	

Prep Batch: 299774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86639-12	GW-101717-BE-032	Total/NA	Water	9030B	
240-86639-13	GW-101717-BE-033	Total/NA	Water	9030B	
240-86639-14	GW-101717-BE-034	Total/NA	Water	9030B	
240-86639-15	GW-101717-BE-035	Total/NA	Water	9030B	
MB 240-299774/1-A	Method Blank	Total/NA	Water	9030B	
LCS 240-299774/2-A	Lab Control Sample	Total/NA	Water	9030B	

Analysis Batch: 299811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86639-12	GW-101717-BE-032	Total/NA	Water	9034	299774
240-86639-13	GW-101717-BE-033	Total/NA	Water	9034	299774
240-86639-14	GW-101717-BE-034	Total/NA	Water	9034	299774
240-86639-15	GW-101717-BE-035	Total/NA	Water	9034	299774
MB 240-299774/1-A	Method Blank	Total/NA	Water	9034	299774
LCS 240-299774/2-A	Lab Control Sample	Total/NA	Water	9034	299774

Prep Batch: 299978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86639-17	GW-101717-BE-036	Total/NA	Water	9030B	
240-86639-18	GW-101717-BE-037	Total/NA	Water	9030B	
MB 240-299978/1-A	Method Blank	Total/NA	Water	9030B	
LCS 240-299978/2-A	Lab Control Sample	Total/NA	Water	9030B	

Analysis Batch: 300019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86639-17	GW-101717-BE-036	Total/NA	Water	9034	299978
240-86639-18	GW-101717-BE-037	Total/NA	Water	9034	299978

General Chemistry (Continued)

Analysis Batch: 300019 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-299978/1-A	Method Blank	Total/NA	Water	9034	299978
LCS 240-299978/2-A	Lab Control Sample	Total/NA	Water	9034	299978

Analysis Batch: 300315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86639-12	GW-101717-BE-032	Total/NA	Water	9060	
240-86639-13	GW-101717-BE-033	Total/NA	Water	9060	
240-86639-14	GW-101717-BE-034	Total/NA	Water	9060	
240-86639-15	GW-101717-BE-035	Total/NA	Water	9060	
240-86639-17	GW-101717-BE-036	Total/NA	Water	9060	
240-86639-18	GW-101717-BE-037	Total/NA	Water	9060	
MB 240-300315/4	Method Blank	Total/NA	Water	9060	
LCS 240-300315/6	Lab Control Sample	Total/NA	Water	9060	
LLCS 240-300315/5	Lab Control Sample	Total/NA	Water	9060	

Analysis Batch: 300752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86639-12	GW-101717-BE-032	Dissolved	Water	9060	
240-86639-13	GW-101717-BE-033	Dissolved	Water	9060	
240-86639-14	GW-101717-BE-034	Dissolved	Water	9060	
240-86639-15	GW-101717-BE-035	Dissolved	Water	9060	
240-86639-17	GW-101717-BE-036	Dissolved	Water	9060	
240-86639-18	GW-101717-BE-037	Dissolved	Water	9060	
MB 240-300752/4	Method Blank	Dissolved	Water	9060	
LLCS 240-300752/5	Lab Control Sample	Dissolved	Water	9060	
240-86639-12 MS	GW-101717-BE-032	Dissolved	Water	9060	
240-86639-12 MSD	GW-101717-BE-032	Dissolved	Water	9060	

Analysis Batch: 300808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86639-17	GW-101717-BE-036	Total/NA	Water	2320B-1997	
240-86639-18	GW-101717-BE-037	Total/NA	Water	2320B-1997	
MB 240-300808/5	Method Blank	Total/NA	Water	2320B-1997	

Analysis Batch: 301027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86639-12	GW-101717-BE-032	Total/NA	Water	2320B-1997	
240-86639-13	GW-101717-BE-033	Total/NA	Water	2320B-1997	
240-86639-14	GW-101717-BE-034	Total/NA	Water	2320B-1997	
240-86639-15	GW-101717-BE-035	Total/NA	Water	2320B-1997	
MB 240-301027/5	Method Blank	Total/NA	Water	2320B-1997	
240-86639-14 DU	GW-101717-BE-034	Total/NA	Water	2320B-1997	

Client Sample ID: GW-101717-BE-032

Lab Sample ID: 240-86639-12

Date Collected: 10/17/17 10:43

Matrix: Water

Date Received: 10/18/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	300703	10/26/17 14:15	BPM	TAL CAN
Dissolved	Prep	3005A			299759	10/19/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	300014	10/21/17 03:03	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	301027	10/27/17 15:50	MM	TAL CAN
Total/NA	Analysis	2340C-1997		1	299717	10/19/17 09:01	JAS	TAL CAN
Total/NA	Analysis	300.0		1	299598	10/19/17 00:31	LKG	TAL CAN
Total/NA	Analysis	300.0		1	299599	10/19/17 00:31	LKG	TAL CAN
Total/NA	Prep	9030B			299774	10/19/17 11:04	CL	TAL CAN
Total/NA	Analysis	9034		1	299811	10/19/17 13:28	CL	TAL CAN
Dissolved	Analysis	9060		1	300752	10/26/17 06:40	TPH	TAL CAN
Total/NA	Analysis	9060		1	300315	10/23/17 12:16	TPH	TAL CAN

Client Sample ID: GW-101717-BE-033

Lab Sample ID: 240-86639-13

Date Collected: 10/17/17 10:47

Matrix: Water

Date Received: 10/18/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	300703	10/26/17 14:32	BPM	TAL CAN
Dissolved	Prep	3005A			299759	10/19/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	300014	10/21/17 03:08	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	301027	10/27/17 16:06	MM	TAL CAN
Total/NA	Analysis	2340C-1997		1	299717	10/19/17 09:05	JAS	TAL CAN
Total/NA	Analysis	300.0		1	299598	10/19/17 02:36	LKG	TAL CAN
Total/NA	Analysis	300.0		1	299599	10/19/17 02:36	LKG	TAL CAN
Total/NA	Prep	9030B			299774	10/19/17 11:04	CL	TAL CAN
Total/NA	Analysis	9034		1	299811	10/19/17 13:28	CL	TAL CAN
Dissolved	Analysis	9060		1	300752	10/26/17 07:23	TPH	TAL CAN
Total/NA	Analysis	9060		1	300315	10/23/17 12:43	TPH	TAL CAN

Client Sample ID: GW-101717-BE-034

Lab Sample ID: 240-86639-14

Date Collected: 10/17/17 13:18

Matrix: Water

Date Received: 10/18/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	300703	10/26/17 14:50	BPM	TAL CAN
Dissolved	Prep	3005A			299759	10/19/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	300014	10/21/17 03:12	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	301027	10/27/17 16:31	MM	TAL CAN
Total/NA	Analysis	2340C-1997		1	299717	10/19/17 09:09	JAS	TAL CAN
Total/NA	Analysis	300.0		1	299598	10/19/17 03:17	LKG	TAL CAN
Total/NA	Analysis	300.0		1	299599	10/19/17 03:17	LKG	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86639-1

Client Sample ID: GW-101717-BE-034

Lab Sample ID: 240-86639-14

Date Collected: 10/17/17 13:18
Matrix: Water
Date Received: 10/18/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9030B			299774	10/19/17 11:04	CL	TAL CAN
Total/NA	Analysis	9034		1	299811	10/19/17 13:28	CL	TAL CAN
Dissolved	Analysis	9060		1	300752	10/26/17 07:51	TPH	TAL CAN
Total/NA	Analysis	9060		1	300315	10/23/17 13:10	TPH	TAL CAN

Client Sample ID: GW-101717-BE-035

Lab Sample ID: 240-86639-15

Date Collected: 10/17/17 14:33
Matrix: Water
Date Received: 10/18/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	300703	10/26/17 15:07	BPM	TAL CAN
Dissolved	Prep	3005A			299759	10/19/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	300014	10/21/17 03:17	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	301027	10/27/17 16:45	MM	TAL CAN
Total/NA	Analysis	2340C-1997		1	299717	10/19/17 09:13	JAS	TAL CAN
Total/NA	Analysis	300.0		1	299598	10/19/17 03:59	LKG	TAL CAN
Total/NA	Analysis	300.0		1	299599	10/19/17 03:59	LKG	TAL CAN
Total/NA	Prep	9030B			299774	10/19/17 11:04	CL	TAL CAN
Total/NA	Analysis	9034		1	299811	10/19/17 13:28	CL	TAL CAN
Dissolved	Analysis	9060		1	300752	10/26/17 08:18	TPH	TAL CAN
Total/NA	Analysis	9060		1	300315	10/23/17 13:54	TPH	TAL CAN

Client Sample ID: GW-101717-BE-036

Lab Sample ID: 240-86639-17

Date Collected: 10/17/17 16:00
Matrix: Water
Date Received: 10/18/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	300703	10/26/17 15:24	BPM	TAL CAN
Dissolved	Prep	3005A			299759	10/19/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	300014	10/21/17 03:22	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	300808	10/26/17 13:17	MM	TAL CAN
Total/NA	Analysis	2340C-1997		1	299717	10/19/17 09:17	JAS	TAL CAN
Total/NA	Analysis	300.0		1	299598	10/19/17 04:40	LKG	TAL CAN
Total/NA	Analysis	300.0		1	299599	10/19/17 04:40	LKG	TAL CAN
Total/NA	Prep	9030B			299978	10/20/17 10:57	CL	TAL CAN
Total/NA	Analysis	9034		1	300019	10/20/17 14:18	CL	TAL CAN
Dissolved	Analysis	9060		1	300752	10/26/17 08:45	TPH	TAL CAN
Total/NA	Analysis	9060		1	300315	10/23/17 14:21	TPH	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86639-1

Client Sample ID: GW-101717-BE-037
Date Collected: 10/17/17 18:03
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	300703	10/26/17 15:41	BPM	TAL CAN
Dissolved	Prep	3005A			299759	10/19/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	300014	10/21/17 03:26	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	300808	10/26/17 13:32	MM	TAL CAN
Total/NA	Analysis	2340C-1997		1	299717	10/19/17 09:21	JAS	TAL CAN
Total/NA	Analysis	300.0		1	299598	10/19/17 06:04	LKG	TAL CAN
Total/NA	Analysis	300.0		1	299599	10/19/17 06:04	LKG	TAL CAN
Total/NA	Prep	9030B			299978	10/20/17 10:57	CL	TAL CAN
Total/NA	Analysis	9034		1	300019	10/20/17 14:18	CL	TAL CAN
Dissolved	Analysis	9060		1	300752	10/26/17 09:12	TPH	TAL CAN
Total/NA	Analysis	9060		1	300315	10/23/17 14:48	TPH	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86639-1

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-18 *
West Virginia DEP	State Program	3	210	12-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

2.6/C2.6 1.8/C1.8

CHAIN OF CUSTODY RECORD

COC NO.: IN- 14977

PAGE 1 OF 3

CONESTOGA-ROVERS & ASSOCIATES
6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017302-TO7	Laboratory Name: North America - N Canton	Lab Location: North Canton, OH	SSOW ID: 17302-TO7
Project Name: MLK	Lab Contact: Denise Hekler	Lab Quote No:	Cooler No: 1 of 2
Project Location: Anderson, IN			Carrier: fedex
Chemistry Contact: Deborah Andrasko			Airbill No:
Sampler(s): Brynn Einecker			Date Shipped: 10/17/17

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Sample Type: Matrix Code (see back of COC)	Sample Type: Grab (G) or Comp (C)	Container Quantity & Preservation: Unpreserved	HCl	HNO_3	H_2SO_4	NaOH	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	Analysis Requested: VOC	dissolved gas	TDC	DISS-DOC	MS/MSD Request	Comments/ Special Instructions:
1	GW-101317-BE-023	10/13/17	1013	WG	G		3							3	✓					
2	EB-101317-BE-002		1026				3							3	✓					
3	GW-101317-BE-024		1128				9							9	✓				✓	
4	GW-101317-BE-025		1308				3							3	✓					
5	GW-101317-BE-026		1503				3							3	✓					
6	GW-101317-BE-027		1506				3							3	✓					
7	GW-101617-BE-028	10/16/17	1143				9							9	✓				✓	
8	EB-101617-BE-003		1200				3							3	✓					
9	~~1323~~ GW-101617-BE-029		1323				3							3	✓					
10	GW-101617-BE-030		1638				3							3	✓					
11	GW-101617-BE-031		1733				3							3	✓					
12	GW-101717-BE-032	10/17/17	1043				6		6					12	✓	✓	✓	✓		
13	GW-101717-BE-033		1047				6		6					12	✓	✓	✓	✓		
14	GW-101717-BE-034		1318				6		6					12	✓	✓	✓	✓		
15	GW-101717-BE-035		1433				6		6					12	✓	✓	✓	✓		

240-86639 Chain of Custody

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 93

All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1. Brynn Einecker	GHD	10/17/17	1945	1.	TA	10-18-17	930
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES
6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: IN- 14979
PAGE 2 OF 3
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017302-T07	Laboratory Name: Test America Nashville	Lab Location: North Canton, OH	SSOW ID:
Project Name: MLK	Lab Contact: Denise Heckler	Lab Quote No:	Cooler No: 1 of 2
Project Location: Anderson, IN			Carrier: fedex
Chemistry Contact: Deborah Andaiski			Airbill No:
Sampler(s): Bryan Gierek			Date Shipped: 10/17/17

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd//yy)	Time (hh.mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Container Quantity & Preservation: Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	Analysis Requested: VOC	Dissolved Mercury	TOC	Diss-Doc	MS/MSD Request	Comments/ Special Instructions:
1	EB-101717-BE-004	10/17/17	1521	WG	G		3							3	✓					
2	GW-101717-BE-036	10/17/17	1608				3		6					12	✓	✓	✓	✓		
3	GW-101717-BE-037	10/17/17	1803				6		6					12	✓	✓	✓	✓		
4	TB-101717-BE-004	10/17/17	1830				1							1	✓					
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 28
All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1. Bryan Gierek	GHD	10/17/17	1945	1.	TA	10.18.17	930
2.				2.			
				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: IN- 14978
PAGE 2 OF 3
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017302-007	Laboratory Name: TestAmerica North Canton	Lab Location: North Canton, OH	SSOW ID: 017302-007
Project Name: MLK	Lab Contact: Denise Heckler	Lab Quote No:	Cooler No: 1 of 2
Project Location: Anderson, IN			Carrier: fed ex
Chemistry Contact: Deborah, Andrasko			Airbill No:
Sampler(s): Bryan Eirecker			Date Shipped: 10/17/17

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Sample Type: Matrix Code (see back of COC)	Sample Type: Grab (G) or Comp (C)	Container Quantity & Preservation: Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	Analysis Requested: MLK, Diss	Carb	Calc-Sulfide	Manganese-Diss	Hardness	Sulfate	Chloride	Nitrite, Nitrate			MS/MSD Request	Comments/ Special Instructions:
1	GW-101717-BE-032	10/17/17	1043	WG	G	2	X	2		1				5	✓	✓	✓	✓	✓	✓	✓	2				
2	GW-101717-BE-033	"	1047	"	"	2	X	2		1				5	✓	✓	✓	✓	✓	✓	✓	✓				
3	GW-101717-BE-034	"	1318	"	"	2		2		1				5	✓	✓	✓	✓	✓	✓	✓	✓				
4	GW-101717-BE-035	"	1433	"	"	2		2		1				5	✓	✓	✓	✓	✓	✓	✓	✓				
5	GW-101717-BE-036	"	1608	"	"	2		2		1				5	✓	✓	✓	✓	✓	✓	✓	✓				
6	GW-101717-BE-037	"	1803	"	"	2		2		1				5	✓	✓	✓	✓	✓	✓	✓	✓				
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14																									
15																									

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 30

All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1. [signature]	GHD	10/17/17	1945	1. [signature]	TA	10-18-17	930
2.				2.			
				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 486639**
Canton Facility

Client GHD Site Name

Cooler Received on 10-18-17 Opened on 10-18-17

Cooler unpacked by:

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☑ See Multiple Cooler Form
   IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp. 2.6 °C Corrected Cooler Temp. 2.6 °C
   IR GUN #36 (CF +0.3°C) Observed Cooler Temp. °C Corrected Cooler Temp. °C
   IR GUN # 627 (CF -1.3°C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 2	Yes	No
-Were the seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels be reconciled with the COC?	Yes	No
9. Were correct bottle(s) used for the test(s) indicated?	Yes	No
10. Sufficient quantity received to perform indicated analyses?	Yes	No
11. Are these work share samples?	Yes	No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

If yes, Questions 11-15 have been checked at the originating laboratory.

11. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No	NA	pH Strip Lot# **HC697954**
12. Were VOAs on the COC?	Yes	No		
13. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No	NA	
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No		
15. Was a LL Hg or Me Hg trip blank present?	Yes	No		

Contacted PM DDH Date 10-18-17 by NS via Verbal Voice Mail Other

Concerning #16

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

Rec'd 6x40 DOC vials for -032, did not recv any
DOC vials for -033, no times written on Bottles, unable to determine
which 3 vials should be -033.

17. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.
Time preserved: Preservative(s) added/Lot number(s):

TestAmerica Multiple Cooler Receipt Form/Narrative **Login # :** 86639
Canton Facility

Cooler #	IR Gun #	Observed Temp °C	Corrected Temp °C	Coolant
Client	8	2.4	2.6	ICE
⊥	⊥	1.8	1.8	⊥

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
GW-101717-BE-032	240-86639-N-12	Plastic 250ml - with Nitric Acid	<2		
GW-101717-BE-032	240-86639-P-12	Plastic 500ml - with Zn Acetate and	>9		
GW-101717-BE-032	240-86639-Q-12	Plastic 500ml - with Nitric Acid	<2		
GW-101717-BE-033	240-86639-N-13	Plastic 250ml - with Nitric Acid	<2		
GW-101717-BE-033	240-86639-P-13	Plastic 500ml - with Zn Acetate and	>9		
GW-101717-BE-033	240-86639-Q-13	Plastic 500ml - with Nitric Acid	<2		
GW-101717-BE-034	240-86639-N-14	Plastic 250ml - with Nitric Acid	<2		
GW-101717-BE-034	240-86639-P-14	Plastic 500ml - with Zn Acetate and	>9		
GW-101717-BE-034	240-86639-Q-14	Plastic 500ml - with Nitric Acid	<2		
GW-101717-BE-035	240-86639-N-15	Plastic 250ml - with Nitric Acid	<2		
GW-101717-BE-035	240-86639-P-15	Plastic 500ml - with Zn Acetate and	>9		
GW-101717-BE-035	240-86639-Q-15	Plastic 500ml - with Nitric Acid	<2		
GW-101717-BE-036	240-86639-N-17	Plastic 250ml - with Nitric Acid	<2		
GW-101717-BE-036	240-86639-P-17	Plastic 500ml - with Zn Acetate and	>9		
GW-101717-BE-036	240-86639-Q-17	Plastic 500ml - with Nitric Acid	<2		
GW-101717-BE-037	240-86639-N-18	Plastic 250ml - with Nitric Acid	<2		
GW-101717-BE-037	240-86639-P-18	Plastic 500ml - with Zn Acetate and	>9		
GW-101717-BE-037	240-86639-Q-18	Plastic 500ml - with Nitric Acid	<2		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-86639-2
Client Project/Site: 17302, RACER Delphi Anderson
Revision: 1

For:
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko

Denise D Heckler

Authorized for release by:
11/27/2017 2:27:33 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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.

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86639-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits

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	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)

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86639-2

Job ID: 240-86639-2

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-86639-2

Comments
A revised report was provided on November 27, 2017. The correct compound list was reported.

Receipt
The samples were received on 10/18/2017 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.8º C and 2.6º C.

GC/MS VOA
Method(s) 8260B: The method blank for analytical batch 240-300739 contained Methylene Chloride above the reporting limit (RL). This compound is considered a common laboratory contaminant. The associated samples: GW-101617-BE-028 (240-86639-7), GW-101617-BE-028 (240-86639-7[MS]), GW-101617-BE-028 (240-86639-7[MSD]), EB-101617-BE-003 (240-86639-8), GW-101617-BE-029 (240-86639-9), GW-101617-BE-030 (240-86639-10), GW-101617-BE-031 (240-86639-11), GW-101717-BE-032 (240-86639-12), GW-101717-BE-033 (240-86639-13), GW-101717-BE-034 (240-86639-14), GW-101717-BE-035 (240-86639-15) and (MB 240-300739/6) were not re-extracted and/or re-analyzed because the concentration of the common lab contaminant in the method blank was less than 5 times the RL.

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

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

Method Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86639-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN

Protocol References:

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

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86639-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-86639-1	GW-101317-BE-023	Water	10/13/17 10:13	10/18/17 09:30
240-86639-2	EB-101317-BE-002	Water	10/13/17 10:26	10/18/17 09:30
240-86639-3	GW-101317-BE-024	Water	10/13/17 11:28	10/18/17 09:30
240-86639-4	GW-101317-BE-025	Water	10/13/17 13:08	10/18/17 09:30
240-86639-5	GW-101317-BE-026	Water	10/13/17 15:03	10/18/17 09:30
240-86639-6	GW-101317-BE-027	Water	10/13/17 15:06	10/18/17 09:30
240-86639-7	GW-101617-BE-028	Water	10/16/17 11:43	10/18/17 09:30
240-86639-8	EB-101617-BE-003	Water	10/16/17 12:00	10/18/17 09:30
240-86639-9	GW-101617-BE-029	Water	10/16/17 13:23	10/18/17 09:30
240-86639-10	GW-101617-BE-030	Water	10/16/17 16:38	10/18/17 09:30
240-86639-11	GW-101617-BE-031	Water	10/16/17 17:33	10/18/17 09:30
240-86639-12	GW-101717-BE-032	Water	10/17/17 10:43	10/18/17 09:30
240-86639-13	GW-101717-BE-033	Water	10/17/17 10:47	10/18/17 09:30
240-86639-14	GW-101717-BE-034	Water	10/17/17 13:18	10/18/17 09:30
240-86639-15	GW-101717-BE-035	Water	10/17/17 14:33	10/18/17 09:30
240-86639-16	EB-101717-BE-004	Water	10/17/17 15:21	10/18/17 09:30
240-86639-17	GW-101717-BE-036	Water	10/17/17 16:00	10/18/17 09:30
240-86639-18	GW-101717-BE-037	Water	10/17/17 18:03	10/18/17 09:30
240-86639-19	TB-101717-BE-004	Water	10/17/17 18:30	10/18/17 09:30

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86639-2

Client Sample ID: GW-101317-BE-023 — Lab Sample ID: 240-86639-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	2.3		1.0	0.45	ug/L	1		8260B	Total/NA

Client Sample ID: EB-101317-BE-002 — Lab Sample ID: 240-86639-2

No Detections.

Client Sample ID: GW-101317-BE-024 — Lab Sample ID: 240-86639-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.3	J	10	1.8	ug/L	1		8260B	Total/NA

Client Sample ID: GW-101317-BE-025 — Lab Sample ID: 240-86639-4

No Detections.

Client Sample ID: GW-101317-BE-026 — Lab Sample ID: 240-86639-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	150	J	200	90	ug/L	200		8260B	Total/NA
cis-1,2-Dichloroethene	4100		200	60	ug/L	200		8260B	Total/NA

Client Sample ID: GW-101317-BE-027 — Lab Sample ID: 240-86639-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	150	J	200	90	ug/L	200		8260B	Total/NA
cis-1,2-Dichloroethene	4000		200	60	ug/L	200		8260B	Total/NA

Client Sample ID: GW-101617-BE-028 — Lab Sample ID: 240-86639-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	13	B	1.0	0.53	ug/L	1		8260B	Total/NA

Client Sample ID: EB-101617-BE-003 — Lab Sample ID: 240-86639-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.9	J	10	1.8	ug/L	1		8260B	Total/NA
Methylene Chloride	14	B	1.0	0.53	ug/L	1		8260B	Total/NA

Client Sample ID: GW-101617-BE-029 — Lab Sample ID: 240-86639-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	12	B	1.0	0.53	ug/L	1		8260B	Total/NA

Client Sample ID: GW-101617-BE-030 — Lab Sample ID: 240-86639-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	13	B	1.0	0.53	ug/L	1		8260B	Total/NA

Client Sample ID: GW-101617-BE-031 — Lab Sample ID: 240-86639-11

This Detection Summary does not include radiochemical test results.

Client Sample ID: GW-101617-BE-031 (Continued) — Lab Sample ID: 240-86639-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.4	J	3.3	0.90	ug/L	3.333		8260B	Total/NA
Methylene Chloride	65	B	3.3	1.8	ug/L	3.333		8260B	Total/NA
Trichloroethene	150		3.3	1.1	ug/L	3.333		8260B	Total/NA
Vinyl chloride	7.3		3.3	1.5	ug/L	3.333		8260B	Total/NA
cis-1,2-Dichloroethene	28		3.3	1.0	ug/L	3.333		8260B	Total/NA

Client Sample ID: GW-101717-BE-032 — Lab Sample ID: 240-86639-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	370		170	42	ug/L	166.667		8260B	Total/NA
1,1-Dichloroethene	120	J	170	45	ug/L	166.667		8260B	Total/NA
Methylene Chloride	3200	B	170	88	ug/L	166.667		8260B	Total/NA
Trichloroethene	2400		170	55	ug/L	166.667		8260B	Total/NA
Vinyl chloride	730		170	75	ug/L	166.667		8260B	Total/NA
1,1,1-Trichloroethane	160	J	170	38	ug/L	166.667		8260B	Total/NA
cis-1,2-Dichloroethene	8600		170	50	ug/L	166.667		8260B	Total/NA
trans-1,2-Dichloroethene	200		170	48	ug/L	166.667		8260B	Total/NA

Client Sample ID: GW-101717-BE-033 — Lab Sample ID: 240-86639-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	330		170	42	ug/L	166.667		8260B	Total/NA
1,1-Dichloroethene	120	J	170	45	ug/L	166.667		8260B	Total/NA
Methylene Chloride	3500	B	170	88	ug/L	166.667		8260B	Total/NA
Trichloroethene	2100		170	55	ug/L	166.667		8260B	Total/NA
Vinyl chloride	660		170	75	ug/L	166.667		8260B	Total/NA
cis-1,2-Dichloroethene	8000		170	50	ug/L	166.667		8260B	Total/NA
trans-1,2-Dichloroethene	190		170	48	ug/L	166.667		8260B	Total/NA

Client Sample ID: GW-101717-BE-034 — Lab Sample ID: 240-86639-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	310		200	50	ug/L	200		8260B	Total/NA
Methylene Chloride	4300	B	200	110	ug/L	200		8260B	Total/NA
Vinyl chloride	450		200	90	ug/L	200		8260B	Total/NA
cis-1,2-Dichloroethene	8600		200	60	ug/L	200		8260B	Total/NA
trans-1,2-Dichloroethene	290		200	58	ug/L	200		8260B	Total/NA

Client Sample ID: GW-101717-BE-035 — Lab Sample ID: 240-86639-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	77		50	13	ug/L	50		8260B	Total/NA
Methylene Chloride	1100	B	50	27	ug/L	50		8260B	Total/NA
Vinyl chloride	59		50	23	ug/L	50		8260B	Total/NA
cis-1,2-Dichloroethene	2200		50	15	ug/L	50		8260B	Total/NA
trans-1,2-Dichloroethene	81		50	15	ug/L	50		8260B	Total/NA

Client Sample ID: EB-101717-BE-004 — Lab Sample ID: 240-86639-16

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86639-2

Client Sample ID: GW-101717-BE-036 — Lab Sample ID: 240-86639-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.3	J	10	1.8	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	1.4		1.0	0.30	ug/L	1		8260B	Total/NA

Client Sample ID: GW-101717-BE-037 — Lab Sample ID: 240-86639-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.59	J	1.0	0.27	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	2.6		1.0	0.23	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.59	J	1.0	0.30	ug/L	1		8260B	Total/NA

Client Sample ID: TB-101717-BE-004 — Lab Sample ID: 240-86639-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.0	J	10	1.8	ug/L	1		8260B	Total/NA
Methylene Chloride	1.1		1.0	0.53	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: GW-101317-BE-023
Date Collected: 10/13/17 10:13
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			10/25/17 17:37	1
Benzene	1.0	U	1.0	0.28	ug/L			10/25/17 17:37	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/25/17 17:37	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/25/17 17:37	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/25/17 17:37	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/25/17 17:37	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/25/17 17:37	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/25/17 17:37	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/25/17 17:37	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/25/17 17:37	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/25/17 17:37	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/25/17 17:37	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/25/17 17:37	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/25/17 17:37	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/25/17 17:37	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/25/17 17:37	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/25/17 17:37	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/25/17 17:37	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/25/17 17:37	1
2-Hexanone	10	U	10	1.2	ug/L			10/25/17 17:37	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			10/25/17 17:37	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/25/17 17:37	1
Styrene	1.0	U	1.0	0.23	ug/L			10/25/17 17:37	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/25/17 17:37	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/25/17 17:37	1
Toluene	1.0	U	1.0	0.23	ug/L			10/25/17 17:37	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/25/17 17:37	1
Vinyl chloride	**2.3**		1.0	0.45	ug/L			10/25/17 17:37	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/25/17 17:37	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/25/17 17:37	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/25/17 17:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/25/17 17:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/25/17 17:37	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/25/17 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*61 - 138*		*10/25/17 17:37*	*1*
4-Bromofluorobenzene (Surr)	*100*		*69 - 120*		*10/25/17 17:37*	*1*
Toluene-d8 (Surr)	*94*		*73 - 120*		*10/25/17 17:37*	*1*
Dibromofluoromethane (Surr)	*96*		*69 - 124*		*10/25/17 17:37*	*1*

Client Sample ID: EB-101317-BE-002
Date Collected: 10/13/17 10:26
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			10/25/17 17:59	1
Benzene	1.0	U	1.0	0.28	ug/L			10/25/17 17:59	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/25/17 17:59	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/25/17 17:59	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/25/17 17:59	1

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

Client Sample ID: EB-101317-BE-002
Date Collected: 10/13/17 10:26
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/25/17 17:59	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/25/17 17:59	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/25/17 17:59	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/25/17 17:59	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/25/17 17:59	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/25/17 17:59	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/25/17 17:59	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/25/17 17:59	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/25/17 17:59	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/25/17 17:59	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/25/17 17:59	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/25/17 17:59	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/25/17 17:59	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/25/17 17:59	1
2-Hexanone	10	U	10	1.2	ug/L			10/25/17 17:59	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			10/25/17 17:59	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/25/17 17:59	1
Styrene	1.0	U	1.0	0.23	ug/L			10/25/17 17:59	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/25/17 17:59	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/25/17 17:59	1
Toluene	1.0	U	1.0	0.23	ug/L			10/25/17 17:59	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/25/17 17:59	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/25/17 17:59	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/25/17 17:59	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/25/17 17:59	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/25/17 17:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/25/17 17:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/25/17 17:59	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/25/17 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*61 - 138*		*10/25/17 17:59*	*1*
4-Bromofluorobenzene (Surr)	*107*		*69 - 120*		*10/25/17 17:59*	*1*
Toluene-d8 (Surr)	*94*		*73 - 120*		*10/25/17 17:59*	*1*
Dibromofluoromethane (Surr)	*105*		*69 - 124*		*10/25/17 17:59*	*1*

Client Sample ID: GW-101317-BE-024
Date Collected: 10/13/17 11:28
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**2.3**	**J**	10	1.8	ug/L			10/25/17 23:52	1
Benzene	1.0	U	1.0	0.28	ug/L			10/25/17 23:52	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/25/17 23:52	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/25/17 23:52	1
Bromomethane	1.0	U F2	1.0	0.42	ug/L			10/25/17 23:52	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/25/17 23:52	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/25/17 23:52	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/25/17 23:52	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/25/17 23:52	1
Chloroethane	1.0	U F2	1.0	0.41	ug/L			10/25/17 23:52	1

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

Client Sample ID: GW-101317-BE-024
Date Collected: 10/13/17 11:28
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	1.0	U	1.0	0.31	ug/L			10/25/17 23:52	1
Chloromethane	1.0	U F2	1.0	0.43	ug/L			10/25/17 23:52	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/25/17 23:52	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/25/17 23:52	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/25/17 23:52	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/25/17 23:52	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/25/17 23:52	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/25/17 23:52	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/25/17 23:52	1
2-Hexanone	10	U	10	1.2	ug/L			10/25/17 23:52	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			10/25/17 23:52	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/25/17 23:52	1
Styrene	1.0	U	1.0	0.23	ug/L			10/25/17 23:52	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/25/17 23:52	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/25/17 23:52	1
Toluene	1.0	U	1.0	0.23	ug/L			10/25/17 23:52	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/25/17 23:52	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/25/17 23:52	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/25/17 23:52	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/25/17 23:52	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/25/17 23:52	1
cis-1,2-Dichloroethene	1.0	U F2	1.0	0.30	ug/L			10/25/17 23:52	1
trans-1,2-Dichloroethene	1.0	U F2	1.0	0.29	ug/L			10/25/17 23:52	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/25/17 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*61 - 138*		*10/25/17 23:52*	*1*
4-Bromofluorobenzene (Surr)	*116*		*69 - 120*		*10/25/17 23:52*	*1*
Toluene-d8 (Surr)	*91*		*73 - 120*		*10/25/17 23:52*	*1*
Dibromofluoromethane (Surr)	*119*		*69 - 124*		*10/25/17 23:52*	*1*

Client Sample ID: GW-101317-BE-025
Date Collected: 10/13/17 13:08
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			10/25/17 18:21	1
Benzene	1.0	U	1.0	0.28	ug/L			10/25/17 18:21	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/25/17 18:21	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/25/17 18:21	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/25/17 18:21	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/25/17 18:21	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/25/17 18:21	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/25/17 18:21	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/25/17 18:21	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/25/17 18:21	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/25/17 18:21	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/25/17 18:21	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/25/17 18:21	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/25/17 18:21	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/25/17 18:21	1

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

Client Sample ID: GW-101317-BE-025
Date Collected: 10/13/17 13:08
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/25/17 18:21	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/25/17 18:21	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/25/17 18:21	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/25/17 18:21	1
2-Hexanone	10	U	10	1.2	ug/L			10/25/17 18:21	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			10/25/17 18:21	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/25/17 18:21	1
Styrene	1.0	U	1.0	0.23	ug/L			10/25/17 18:21	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/25/17 18:21	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/25/17 18:21	1
Toluene	1.0	U	1.0	0.23	ug/L			10/25/17 18:21	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/25/17 18:21	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/25/17 18:21	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/25/17 18:21	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/25/17 18:21	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/25/17 18:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/25/17 18:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/25/17 18:21	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/25/17 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*61 - 138*		*10/25/17 18:21*	*1*
4-Bromofluorobenzene (Surr)	*103*		*69 - 120*		*10/25/17 18:21*	*1*
Toluene-d8 (Surr)	*93*		*73 - 120*		*10/25/17 18:21*	*1*
Dibromofluoromethane (Surr)	*105*		*69 - 124*		*10/25/17 18:21*	*1*

Client Sample ID: GW-101317-BE-026
Date Collected: 10/13/17 15:03
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2000	U	2000	350	ug/L			10/25/17 18:43	200
Benzene	200	U	200	56	ug/L			10/25/17 18:43	200
Dichlorobromomethane	200	U	200	60	ug/L			10/25/17 18:43	200
Bromoform	200	U	200	86	ug/L			10/25/17 18:43	200
Bromomethane	200	U	200	84	ug/L			10/25/17 18:43	200
2-Butanone (MEK)	2000	U	2000	200	ug/L			10/25/17 18:43	200
Carbon disulfide	200	U	200	68	ug/L			10/25/17 18:43	200
Carbon tetrachloride	200	U	200	70	ug/L			10/25/17 18:43	200
Chlorobenzene	200	U	200	64	ug/L			10/25/17 18:43	200
Chloroethane	200	U	200	82	ug/L			10/25/17 18:43	200
Chloroform	200	U	200	62	ug/L			10/25/17 18:43	200
Chloromethane	200	U	200	86	ug/L			10/25/17 18:43	200
1,1-Dichloroethane	200	U	200	50	ug/L			10/25/17 18:43	200
1,2-Dichloroethane	200	U	200	60	ug/L			10/25/17 18:43	200
1,1-Dichloroethene	200	U	200	54	ug/L			10/25/17 18:43	200
1,2-Dichloropropane	200	U	200	60	ug/L			10/25/17 18:43	200
cis-1,3-Dichloropropene	200	U	200	52	ug/L			10/25/17 18:43	200
trans-1,3-Dichloropropene	200	U	200	62	ug/L			10/25/17 18:43	200
Ethylbenzene	200	U	200	52	ug/L			10/25/17 18:43	200
2-Hexanone	2000	U	2000	250	ug/L			10/25/17 18:43	200

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

Client Sample ID: GW-101317-BE-026
Date Collected: 10/13/17 15:03
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	200	U	200	110	ug/L			10/25/17 18:43	200
4-Methyl-2-pentanone (MIBK)	2000	U	2000	140	ug/L			10/25/17 18:43	200
Styrene	200	U	200	46	ug/L			10/25/17 18:43	200
1,1,2,2-Tetrachloroethane	200	U	200	64	ug/L			10/25/17 18:43	200
Tetrachloroethene	200	U	200	60	ug/L			10/25/17 18:43	200
Toluene	200	U	200	46	ug/L			10/25/17 18:43	200
Trichloroethene	200	U	200	66	ug/L			10/25/17 18:43	200
Vinyl chloride	**150**	**J**	200	90	ug/L			10/25/17 18:43	200
Xylenes, Total	400	U	400	48	ug/L			10/25/17 18:43	200
1,1,1-Trichloroethane	200	U	200	46	ug/L			10/25/17 18:43	200
1,1,2-Trichloroethane	200	U	200	68	ug/L			10/25/17 18:43	200
cis-1,2-Dichloroethene	**4100**		200	60	ug/L			10/25/17 18:43	200
trans-1,2-Dichloroethene	200	U	200	58	ug/L			10/25/17 18:43	200
Chlorodibromomethane	200	U	200	50	ug/L			10/25/17 18:43	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*61 - 138*		*10/25/17 18:43*	*200*
4-Bromofluorobenzene (Surr)	*103*		*69 - 120*		*10/25/17 18:43*	*200*
Toluene-d8 (Surr)	*94*		*73 - 120*		*10/25/17 18:43*	*200*
Dibromofluoromethane (Surr)	*104*		*69 - 124*		*10/25/17 18:43*	*200*

Client Sample ID: GW-101317-BE-027
Date Collected: 10/13/17 15:06
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2000	U	2000	350	ug/L			10/25/17 19:05	200
Benzene	200	U	200	56	ug/L			10/25/17 19:05	200
Dichlorobromomethane	200	U	200	60	ug/L			10/25/17 19:05	200
Bromoform	200	U	200	86	ug/L			10/25/17 19:05	200
Bromomethane	200	U	200	84	ug/L			10/25/17 19:05	200
2-Butanone (MEK)	2000	U	2000	200	ug/L			10/25/17 19:05	200
Carbon disulfide	200	U	200	68	ug/L			10/25/17 19:05	200
Carbon tetrachloride	200	U	200	70	ug/L			10/25/17 19:05	200
Chlorobenzene	200	U	200	64	ug/L			10/25/17 19:05	200
Chloroethane	200	U	200	82	ug/L			10/25/17 19:05	200
Chloroform	200	U	200	62	ug/L			10/25/17 19:05	200
Chloromethane	200	U	200	86	ug/L			10/25/17 19:05	200
1,1-Dichloroethane	200	U	200	50	ug/L			10/25/17 19:05	200
1,2-Dichloroethane	200	U	200	60	ug/L			10/25/17 19:05	200
1,1-Dichloroethene	200	U	200	54	ug/L			10/25/17 19:05	200
1,2-Dichloropropane	200	U	200	60	ug/L			10/25/17 19:05	200
cis-1,3-Dichloropropene	200	U	200	52	ug/L			10/25/17 19:05	200
trans-1,3-Dichloropropene	200	U	200	62	ug/L			10/25/17 19:05	200
Ethylbenzene	200	U	200	52	ug/L			10/25/17 19:05	200
2-Hexanone	2000	U	2000	250	ug/L			10/25/17 19:05	200
Methylene Chloride	200	U	200	110	ug/L			10/25/17 19:05	200
4-Methyl-2-pentanone (MIBK)	2000	U	2000	140	ug/L			10/25/17 19:05	200
Styrene	200	U	200	46	ug/L			10/25/17 19:05	200
1,1,2,2-Tetrachloroethane	200	U	200	64	ug/L			10/25/17 19:05	200
Tetrachloroethene	200	U	200	60	ug/L			10/25/17 19:05	200

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

Client Sample ID: GW-101317-BE-027
Date Collected: 10/13/17 15:06
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	200	U	200	46	ug/L			10/25/17 19:05	200
Trichloroethene	200	U	200	66	ug/L			10/25/17 19:05	200
Vinyl chloride	**150**	**J**	200	90	ug/L			10/25/17 19:05	200
Xylenes, Total	400	U	400	48	ug/L			10/25/17 19:05	200
1,1,1-Trichloroethane	200	U	200	46	ug/L			10/25/17 19:05	200
1,1,2-Trichloroethane	200	U	200	68	ug/L			10/25/17 19:05	200
cis-1,2-Dichloroethene	**4000**		200	60	ug/L			10/25/17 19:05	200
trans-1,2-Dichloroethene	200	U	200	58	ug/L			10/25/17 19:05	200
Chlorodibromomethane	200	U	200	50	ug/L			10/25/17 19:05	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*61 - 138*		*10/25/17 19:05*	*200*
4-Bromofluorobenzene (Surr)	*103*		*69 - 120*		*10/25/17 19:05*	*200*
Toluene-d8 (Surr)	*93*		*73 - 120*		*10/25/17 19:05*	*200*
Dibromofluoromethane (Surr)	*100*		*69 - 124*		*10/25/17 19:05*	*200*

Client Sample ID: GW-101617-BE-028
Date Collected: 10/16/17 11:43
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			10/26/17 14:20	1
Benzene	1.0	U	1.0	0.28	ug/L			10/26/17 14:20	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/26/17 14:20	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/26/17 14:20	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/26/17 14:20	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/26/17 14:20	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/26/17 14:20	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/26/17 14:20	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/26/17 14:20	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/26/17 14:20	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/26/17 14:20	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/26/17 14:20	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/26/17 14:20	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/26/17 14:20	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/26/17 14:20	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/26/17 14:20	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/26/17 14:20	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/26/17 14:20	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/26/17 14:20	1
2-Hexanone	10	U	10	1.2	ug/L			10/26/17 14:20	1
Methylene Chloride	**13**	**B**	1.0	0.53	ug/L			10/26/17 14:20	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/26/17 14:20	1
Styrene	1.0	U	1.0	0.23	ug/L			10/26/17 14:20	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/26/17 14:20	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/26/17 14:20	1
Toluene	1.0	U	1.0	0.23	ug/L			10/26/17 14:20	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/26/17 14:20	1
Vinyl chloride	1.0	U F2	1.0	0.45	ug/L			10/26/17 14:20	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/26/17 14:20	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/26/17 14:20	1

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

Client Sample ID: GW-101617-BE-028
Date Collected: 10/16/17 11:43
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/26/17 14:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/26/17 14:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/26/17 14:20	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/26/17 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*61 - 138*		*10/26/17 14:20*	*1*
4-Bromofluorobenzene (Surr)	*100*		*69 - 120*		*10/26/17 14:20*	*1*
Toluene-d8 (Surr)	*108*		*73 - 120*		*10/26/17 14:20*	*1*
Dibromofluoromethane (Surr)	*103*		*69 - 124*		*10/26/17 14:20*	*1*

Client Sample ID: EB-101617-BE-003
Date Collected: 10/16/17 12:00
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**1.9**	**J**	10	1.8	ug/L			10/26/17 13:07	1
Benzene	1.0	U	1.0	0.28	ug/L			10/26/17 13:07	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/26/17 13:07	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/26/17 13:07	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/26/17 13:07	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/26/17 13:07	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/26/17 13:07	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/26/17 13:07	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/26/17 13:07	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/26/17 13:07	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/26/17 13:07	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/26/17 13:07	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/26/17 13:07	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/26/17 13:07	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/26/17 13:07	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/26/17 13:07	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/26/17 13:07	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/26/17 13:07	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/26/17 13:07	1
2-Hexanone	10	U	10	1.2	ug/L			10/26/17 13:07	1
Methylene Chloride	**14**	**B**	1.0	0.53	ug/L			10/26/17 13:07	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/26/17 13:07	1
Styrene	1.0	U	1.0	0.23	ug/L			10/26/17 13:07	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/26/17 13:07	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/26/17 13:07	1
Toluene	1.0	U	1.0	0.23	ug/L			10/26/17 13:07	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/26/17 13:07	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/26/17 13:07	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/26/17 13:07	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/26/17 13:07	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/26/17 13:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/26/17 13:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/26/17 13:07	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/26/17 13:07	1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*98*		*61 - 138*		*10/26/17 13:07*	*1*
4-Bromofluorobenzene (Surr)	*94*		*69 - 120*		*10/26/17 13:07*	*1*
Toluene-d8 (Surr)	*107*		*73 - 120*		*10/26/17 13:07*	*1*
Dibromofluoromethane (Surr)	*101*		*69 - 124*		*10/26/17 13:07*	*1*

Client Sample ID: GW-101617-BE-029
Date Collected: 10/16/17 13:23
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			10/26/17 13:32	1
Benzene	1.0	U	1.0	0.28	ug/L			10/26/17 13:32	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/26/17 13:32	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/26/17 13:32	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/26/17 13:32	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/26/17 13:32	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/26/17 13:32	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/26/17 13:32	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/26/17 13:32	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/26/17 13:32	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/26/17 13:32	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/26/17 13:32	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/26/17 13:32	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/26/17 13:32	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/26/17 13:32	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/26/17 13:32	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/26/17 13:32	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/26/17 13:32	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/26/17 13:32	1
2-Hexanone	10	U	10	1.2	ug/L			10/26/17 13:32	1
Methylene Chloride	**12**	**B**	1.0	0.53	ug/L			10/26/17 13:32	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/26/17 13:32	1
Styrene	1.0	U	1.0	0.23	ug/L			10/26/17 13:32	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/26/17 13:32	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/26/17 13:32	1
Toluene	1.0	U	1.0	0.23	ug/L			10/26/17 13:32	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/26/17 13:32	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/26/17 13:32	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/26/17 13:32	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/26/17 13:32	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/26/17 13:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/26/17 13:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/26/17 13:32	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/26/17 13:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*97*		*61 - 138*		*10/26/17 13:32*	*1*
4-Bromofluorobenzene (Surr)	*95*		*69 - 120*		*10/26/17 13:32*	*1*
Toluene-d8 (Surr)	*108*		*73 - 120*		*10/26/17 13:32*	*1*
Dibromofluoromethane (Surr)	*102*		*69 - 124*		*10/26/17 13:32*	*1*

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

Client Sample ID: GW-101617-BE-030
Date Collected: 10/16/17 16:38
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			10/26/17 13:56	1
Benzene	1.0	U	1.0	0.28	ug/L			10/26/17 13:56	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/26/17 13:56	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/26/17 13:56	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/26/17 13:56	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/26/17 13:56	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/26/17 13:56	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/26/17 13:56	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/26/17 13:56	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/26/17 13:56	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/26/17 13:56	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/26/17 13:56	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/26/17 13:56	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/26/17 13:56	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/26/17 13:56	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/26/17 13:56	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/26/17 13:56	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/26/17 13:56	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/26/17 13:56	1
2-Hexanone	10	U	10	1.2	ug/L			10/26/17 13:56	1
Methylene Chloride	**13**	**B**	1.0	0.53	ug/L			10/26/17 13:56	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/26/17 13:56	1
Styrene	1.0	U	1.0	0.23	ug/L			10/26/17 13:56	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/26/17 13:56	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/26/17 13:56	1
Toluene	1.0	U	1.0	0.23	ug/L			10/26/17 13:56	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/26/17 13:56	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/26/17 13:56	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/26/17 13:56	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/26/17 13:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/26/17 13:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/26/17 13:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/26/17 13:56	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/26/17 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*61 - 138*		*10/26/17 13:56*	*1*
4-Bromofluorobenzene (Surr)	*97*		*69 - 120*		*10/26/17 13:56*	*1*
Toluene-d8 (Surr)	*108*		*73 - 120*		*10/26/17 13:56*	*1*
Dibromofluoromethane (Surr)	*103*		*69 - 124*		*10/26/17 13:56*	*1*

Client Sample ID: GW-101617-BE-031
Date Collected: 10/16/17 17:33
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	33	U	33	5.9	ug/L			10/26/17 15:35	3.333
Benzene	3.3	U	3.3	0.93	ug/L			10/26/17 15:35	3.333
Dichlorobromomethane	3.3	U	3.3	1.0	ug/L			10/26/17 15:35	3.333
Bromoform	3.3	U	3.3	1.4	ug/L			10/26/17 15:35	3.333
Bromomethane	3.3	U	3.3	1.4	ug/L			10/26/17 15:35	3.333

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

Client Sample ID: GW-101617-BE-031
Date Collected: 10/16/17 17:33
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	33	U	33	3.4	ug/L			10/26/17 15:35	3.333
Carbon disulfide	3.3	U	3.3	1.1	ug/L			10/26/17 15:35	3.333
Carbon tetrachloride	3.3	U	3.3	1.2	ug/L			10/26/17 15:35	3.333
Chlorobenzene	3.3	U	3.3	1.1	ug/L			10/26/17 15:35	3.333
Chloroethane	3.3	U	3.3	1.4	ug/L			10/26/17 15:35	3.333
Chloroform	3.3	U	3.3	1.0	ug/L			10/26/17 15:35	3.333
Chloromethane	3.3	U	3.3	1.4	ug/L			10/26/17 15:35	3.333
1,1-Dichloroethane	3.3	U	3.3	0.83	ug/L			10/26/17 15:35	3.333
1,2-Dichloroethane	3.3	U	3.3	1.0	ug/L			10/26/17 15:35	3.333
1,1-Dichloroethene	**1.4**	**J**	3.3	0.90	ug/L			10/26/17 15:35	3.333
1,2-Dichloropropane	3.3	U	3.3	1.0	ug/L			10/26/17 15:35	3.333
cis-1,3-Dichloropropene	3.3	U	3.3	0.87	ug/L			10/26/17 15:35	3.333
trans-1,3-Dichloropropene	3.3	U	3.3	1.0	ug/L			10/26/17 15:35	3.333
Ethylbenzene	3.3	U	3.3	0.87	ug/L			10/26/17 15:35	3.333
2-Hexanone	33	U	33	4.1	ug/L			10/26/17 15:35	3.333
Methylene Chloride	**65**	**B**	3.3	1.8	ug/L			10/26/17 15:35	3.333
4-Methyl-2-pentanone (MIBK)	33	U	33	2.4	ug/L			10/26/17 15:35	3.333
Styrene	3.3	U	3.3	0.77	ug/L			10/26/17 15:35	3.333
1,1,2,2-Tetrachloroethane	3.3	U	3.3	1.1	ug/L			10/26/17 15:35	3.333
Tetrachloroethene	3.3	U	3.3	1.0	ug/L			10/26/17 15:35	3.333
Toluene	3.3	U	3.3	0.77	ug/L			10/26/17 15:35	3.333
Trichloroethene	**150**		3.3	1.1	ug/L			10/26/17 15:35	3.333
Vinyl chloride	**7.3**		3.3	1.5	ug/L			10/26/17 15:35	3.333
Xylenes, Total	6.7	U	6.7	0.80	ug/L			10/26/17 15:35	3.333
1,1,1-Trichloroethane	3.3	U	3.3	0.77	ug/L			10/26/17 15:35	3.333
1,1,2-Trichloroethane	3.3	U	3.3	1.1	ug/L			10/26/17 15:35	3.333
cis-1,2-Dichloroethene	**28**		3.3	1.0	ug/L			10/26/17 15:35	3.333
trans-1,2-Dichloroethene	3.3	U	3.3	0.97	ug/L			10/26/17 15:35	3.333
Chlorodibromomethane	3.3	U	3.3	0.83	ug/L			10/26/17 15:35	3.333

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*61 - 138*		*10/26/17 15:35*	*3.333*
4-Bromofluorobenzene (Surr)	*95*		*69 - 120*		*10/26/17 15:35*	*3.333*
Toluene-d8 (Surr)	*106*		*73 - 120*		*10/26/17 15:35*	*3.333*
Dibromofluoromethane (Surr)	*102*		*69 - 124*		*10/26/17 15:35*	*3.333*

Client Sample ID: GW-101717-BE-032
Date Collected: 10/17/17 10:43
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1700	U	1700	290	ug/L			10/26/17 16:24	166.667
Benzene	170	U	170	47	ug/L			10/26/17 16:24	166.667
Dichlorobromomethane	170	U	170	50	ug/L			10/26/17 16:24	166.667
Bromoform	170	U	170	72	ug/L			10/26/17 16:24	166.667
Bromomethane	170	U	170	70	ug/L			10/26/17 16:24	166.667
2-Butanone (MEK)	1700	U	1700	170	ug/L			10/26/17 16:24	166.667
Carbon disulfide	170	U	170	57	ug/L			10/26/17 16:24	166.667
Carbon tetrachloride	170	U	170	58	ug/L			10/26/17 16:24	166.667
Chlorobenzene	170	U	170	53	ug/L			10/26/17 16:24	166.667
Chloroethane	170	U	170	68	ug/L			10/26/17 16:24	166.667

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

Client Sample ID: GW-101717-BE-032
Date Collected: 10/17/17 10:43
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	170	U	170	52	ug/L			10/26/17 16:24	166.667
Chloromethane	170	U	170	72	ug/L			10/26/17 16:24	166.667
1,1-Dichloroethane	**370**		170	42	ug/L			10/26/17 16:24	166.667
1,2-Dichloroethane	170	U	170	50	ug/L			10/26/17 16:24	166.667
1,1-Dichloroethene	**120**	**J**	170	45	ug/L			10/26/17 16:24	166.667
1,2-Dichloropropane	170	U	170	50	ug/L			10/26/17 16:24	166.667
cis-1,3-Dichloropropene	170	U	170	43	ug/L			10/26/17 16:24	166.667
trans-1,3-Dichloropropene	170	U	170	52	ug/L			10/26/17 16:24	166.667
Ethylbenzene	170	U	170	43	ug/L			10/26/17 16:24	166.667
2-Hexanone	1700	U	1700	210	ug/L			10/26/17 16:24	166.667
Methylene Chloride	**3200**	**B**	170	88	ug/L			10/26/17 16:24	166.667
4-Methyl-2-pentanone (MIBK)	1700	U	1700	120	ug/L			10/26/17 16:24	166.667
Styrene	170	U	170	38	ug/L			10/26/17 16:24	166.667
1,1,2,2-Tetrachloroethane	170	U	170	53	ug/L			10/26/17 16:24	166.667
Tetrachloroethene	170	U	170	50	ug/L			10/26/17 16:24	166.667
Toluene	170	U	170	38	ug/L			10/26/17 16:24	166.667
Trichloroethene	**2400**		170	55	ug/L			10/26/17 16:24	166.667
Vinyl chloride	**730**		170	75	ug/L			10/26/17 16:24	166.667
Xylenes, Total	330	U	330	40	ug/L			10/26/17 16:24	166.667
1,1,1-Trichloroethane	**160**	**J**	170	38	ug/L			10/26/17 16:24	166.667
1,1,2-Trichloroethane	170	U	170	57	ug/L			10/26/17 16:24	166.667
cis-1,2-Dichloroethene	**8600**		170	50	ug/L			10/26/17 16:24	166.667
trans-1,2-Dichloroethene	**200**		170	48	ug/L			10/26/17 16:24	166.667
Chlorodibromomethane	170	U	170	42	ug/L			10/26/17 16:24	166.667

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*61 - 138*		*10/26/17 16:24*	*166.667*
4-Bromofluorobenzene (Surr)	*97*		*69 - 120*		*10/26/17 16:24*	*166.667*
Toluene-d8 (Surr)	*107*		*73 - 120*		*10/26/17 16:24*	*166.667*
Dibromofluoromethane (Surr)	*101*		*69 - 124*		*10/26/17 16:24*	*166.667*

Client Sample ID: GW-101717-BE-033
Date Collected: 10/17/17 10:47
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1700	U	1700	290	ug/L			10/26/17 16:49	166.667
Benzene	170	U	170	47	ug/L			10/26/17 16:49	166.667
Dichlorobromomethane	170	U	170	50	ug/L			10/26/17 16:49	166.667
Bromoform	170	U	170	72	ug/L			10/26/17 16:49	166.667
Bromomethane	170	U	170	70	ug/L			10/26/17 16:49	166.667
2-Butanone (MEK)	1700	U	1700	170	ug/L			10/26/17 16:49	166.667
Carbon disulfide	170	U	170	57	ug/L			10/26/17 16:49	166.667
Carbon tetrachloride	170	U	170	58	ug/L			10/26/17 16:49	166.667
Chlorobenzene	170	U	170	53	ug/L			10/26/17 16:49	166.667
Chloroethane	170	U	170	68	ug/L			10/26/17 16:49	166.667
Chloroform	170	U	170	52	ug/L			10/26/17 16:49	166.667
Chloromethane	170	U	170	72	ug/L			10/26/17 16:49	166.667
1,1-Dichloroethane	**330**		170	42	ug/L			10/26/17 16:49	166.667
1,2-Dichloroethane	170	U	170	50	ug/L			10/26/17 16:49	166.667
1,1-Dichloroethene	**120**	**J**	170	45	ug/L			10/26/17 16:49	166.667

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

Client Sample ID: GW-101717-BE-033
Date Collected: 10/17/17 10:47
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	170	U	170	50	ug/L			10/26/17 16:49	166.667
cis-1,3-Dichloropropene	170	U	170	43	ug/L			10/26/17 16:49	166.667
trans-1,3-Dichloropropene	170	U	170	52	ug/L			10/26/17 16:49	166.667
Ethylbenzene	170	U	170	43	ug/L			10/26/17 16:49	166.667
2-Hexanone	1700	U	1700	210	ug/L			10/26/17 16:49	166.667
Methylene Chloride	**3500**	**B**	170	88	ug/L			10/26/17 16:49	166.667
4-Methyl-2-pentanone (MIBK)	1700	U	1700	120	ug/L			10/26/17 16:49	166.667
Styrene	170	U	170	38	ug/L			10/26/17 16:49	166.667
1,1,2,2-Tetrachloroethane	170	U	170	53	ug/L			10/26/17 16:49	166.667
Tetrachloroethene	170	U	170	50	ug/L			10/26/17 16:49	166.667
Toluene	170	U	170	38	ug/L			10/26/17 16:49	166.667
Trichloroethene	**2100**		170	55	ug/L			10/26/17 16:49	166.667
Vinyl chloride	**660**		170	75	ug/L			10/26/17 16:49	166.667
Xylenes, Total	330	U	330	40	ug/L			10/26/17 16:49	166.667
1,1,1-Trichloroethane	170	U	170	38	ug/L			10/26/17 16:49	166.667
1,1,2-Trichloroethane	170	U	170	57	ug/L			10/26/17 16:49	166.667
cis-1,2-Dichloroethene	**8000**		170	50	ug/L			10/26/17 16:49	166.667
trans-1,2-Dichloroethene	**190**		170	48	ug/L			10/26/17 16:49	166.667
Chlorodibromomethane	170	U	170	42	ug/L			10/26/17 16:49	166.667

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*61 - 138*		*10/26/17 16:49*	*166.667*
4-Bromofluorobenzene (Surr)	*96*		*69 - 120*		*10/26/17 16:49*	*166.667*
Toluene-d8 (Surr)	*108*		*73 - 120*		*10/26/17 16:49*	*166.667*
Dibromofluoromethane (Surr)	*101*		*69 - 124*		*10/26/17 16:49*	*166.667*

Client Sample ID: GW-101717-BE-034
Date Collected: 10/17/17 13:18
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2000	U	2000	350	ug/L			10/26/17 17:13	200
Benzene	200	U	200	56	ug/L			10/26/17 17:13	200
Dichlorobromomethane	200	U	200	60	ug/L			10/26/17 17:13	200
Bromoform	200	U	200	86	ug/L			10/26/17 17:13	200
Bromomethane	200	U	200	84	ug/L			10/26/17 17:13	200
2-Butanone (MEK)	2000	U	2000	200	ug/L			10/26/17 17:13	200
Carbon disulfide	200	U	200	68	ug/L			10/26/17 17:13	200
Carbon tetrachloride	200	U	200	70	ug/L			10/26/17 17:13	200
Chlorobenzene	200	U	200	64	ug/L			10/26/17 17:13	200
Chloroethane	200	U	200	82	ug/L			10/26/17 17:13	200
Chloroform	200	U	200	62	ug/L			10/26/17 17:13	200
Chloromethane	200	U	200	86	ug/L			10/26/17 17:13	200
1,1-Dichloroethane	**310**		200	50	ug/L			10/26/17 17:13	200
1,2-Dichloroethane	200	U	200	60	ug/L			10/26/17 17:13	200
1,1-Dichloroethene	200	U	200	54	ug/L			10/26/17 17:13	200
1,2-Dichloropropane	200	U	200	60	ug/L			10/26/17 17:13	200
cis-1,3-Dichloropropene	200	U	200	52	ug/L			10/26/17 17:13	200
trans-1,3-Dichloropropene	200	U	200	62	ug/L			10/26/17 17:13	200
Ethylbenzene	200	U	200	52	ug/L			10/26/17 17:13	200
2-Hexanone	2000	U	2000	250	ug/L			10/26/17 17:13	200

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

Client Sample ID: GW-101717-BE-034
Date Collected: 10/17/17 13:18
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	**4300**	**B**	200	110	ug/L			10/26/17 17:13	200
4-Methyl-2-pentanone (MIBK)	2000	U	2000	140	ug/L			10/26/17 17:13	200
Styrene	200	U	200	46	ug/L			10/26/17 17:13	200
1,1,2,2-Tetrachloroethane	200	U	200	64	ug/L			10/26/17 17:13	200
Tetrachloroethene	200	U	200	60	ug/L			10/26/17 17:13	200
Toluene	200	U	200	46	ug/L			10/26/17 17:13	200
Trichloroethene	200	U	200	66	ug/L			10/26/17 17:13	200
Vinyl chloride	**450**		200	90	ug/L			10/26/17 17:13	200
Xylenes, Total	400	U	400	48	ug/L			10/26/17 17:13	200
1,1,1-Trichloroethane	200	U	200	46	ug/L			10/26/17 17:13	200
1,1,2-Trichloroethane	200	U	200	68	ug/L			10/26/17 17:13	200
cis-1,2-Dichloroethene	**8600**		200	60	ug/L			10/26/17 17:13	200
trans-1,2-Dichloroethene	**290**		200	58	ug/L			10/26/17 17:13	200
Chlorodibromomethane	200	U	200	50	ug/L			10/26/17 17:13	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*61 - 138*		*10/26/17 17:13*	*200*
4-Bromofluorobenzene (Surr)	*94*		*69 - 120*		*10/26/17 17:13*	*200*
Toluene-d8 (Surr)	*110*		*73 - 120*		*10/26/17 17:13*	*200*
Dibromofluoromethane (Surr)	*104*		*69 - 124*		*10/26/17 17:13*	*200*

Client Sample ID: GW-101717-BE-035
Date Collected: 10/17/17 14:33
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	500	U	500	88	ug/L			10/26/17 16:00	50
Benzene	50	U	50	14	ug/L			10/26/17 16:00	50
Dichlorobromomethane	50	U	50	15	ug/L			10/26/17 16:00	50
Bromoform	50	U	50	22	ug/L			10/26/17 16:00	50
Bromomethane	50	U	50	21	ug/L			10/26/17 16:00	50
2-Butanone (MEK)	500	U	500	51	ug/L			10/26/17 16:00	50
Carbon disulfide	50	U	50	17	ug/L			10/26/17 16:00	50
Carbon tetrachloride	50	U	50	18	ug/L			10/26/17 16:00	50
Chlorobenzene	50	U	50	16	ug/L			10/26/17 16:00	50
Chloroethane	50	U	50	21	ug/L			10/26/17 16:00	50
Chloroform	50	U	50	16	ug/L			10/26/17 16:00	50
Chloromethane	50	U	50	22	ug/L			10/26/17 16:00	50
1,1-Dichloroethane	**77**		50	13	ug/L			10/26/17 16:00	50
1,2-Dichloroethane	50	U	50	15	ug/L			10/26/17 16:00	50
1,1-Dichloroethene	50	U	50	14	ug/L			10/26/17 16:00	50
1,2-Dichloropropane	50	U	50	15	ug/L			10/26/17 16:00	50
cis-1,3-Dichloropropene	50	U	50	13	ug/L			10/26/17 16:00	50
trans-1,3-Dichloropropene	50	U	50	16	ug/L			10/26/17 16:00	50
Ethylbenzene	50	U	50	13	ug/L			10/26/17 16:00	50
2-Hexanone	500	U	500	62	ug/L			10/26/17 16:00	50
Methylene Chloride	**1100**	**B**	50	27	ug/L			10/26/17 16:00	50
4-Methyl-2-pentanone (MIBK)	500	U	500	36	ug/L			10/26/17 16:00	50
Styrene	50	U	50	12	ug/L			10/26/17 16:00	50
1,1,2,2-Tetrachloroethane	50	U	50	16	ug/L			10/26/17 16:00	50
Tetrachloroethene	50	U	50	15	ug/L			10/26/17 16:00	50

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

Client Sample ID: GW-101717-BE-035
Date Collected: 10/17/17 14:33
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	50	U	50	12	ug/L			10/26/17 16:00	50
Trichloroethene	50	U	50	17	ug/L			10/26/17 16:00	50
Vinyl chloride	**59**		50	23	ug/L			10/26/17 16:00	50
Xylenes, Total	100	U	100	12	ug/L			10/26/17 16:00	50
1,1,1-Trichloroethane	50	U	50	12	ug/L			10/26/17 16:00	50
1,1,2-Trichloroethane	50	U	50	17	ug/L			10/26/17 16:00	50
cis-1,2-Dichloroethene	**2200**		50	15	ug/L			10/26/17 16:00	50
trans-1,2-Dichloroethene	**81**		50	15	ug/L			10/26/17 16:00	50
Chlorodibromomethane	50	U	50	13	ug/L			10/26/17 16:00	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*61 - 138*		*10/26/17 16:00*	*50*
4-Bromofluorobenzene (Surr)	*94*		*69 - 120*		*10/26/17 16:00*	*50*
Toluene-d8 (Surr)	*107*		*73 - 120*		*10/26/17 16:00*	*50*
Dibromofluoromethane (Surr)	*101*		*69 - 124*		*10/26/17 16:00*	*50*

Client Sample ID: EB-101717-BE-004
Date Collected: 10/17/17 15:21
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			10/25/17 22:17	1
Benzene	1.0	U	1.0	0.28	ug/L			10/25/17 22:17	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/25/17 22:17	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/25/17 22:17	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/25/17 22:17	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/25/17 22:17	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/25/17 22:17	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/25/17 22:17	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/25/17 22:17	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/25/17 22:17	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/25/17 22:17	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/25/17 22:17	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/25/17 22:17	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/25/17 22:17	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/25/17 22:17	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/25/17 22:17	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/25/17 22:17	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/25/17 22:17	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/25/17 22:17	1
2-Hexanone	10	U	10	1.2	ug/L			10/25/17 22:17	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			10/25/17 22:17	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/25/17 22:17	1
Styrene	1.0	U	1.0	0.23	ug/L			10/25/17 22:17	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/25/17 22:17	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/25/17 22:17	1
Toluene	1.0	U	1.0	0.23	ug/L			10/25/17 22:17	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/25/17 22:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/25/17 22:17	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/25/17 22:17	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/25/17 22:17	1

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

Client Sample ID: EB-101717-BE-004
Date Collected: 10/17/17 15:21
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/25/17 22:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/25/17 22:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/25/17 22:17	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/25/17 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*61 - 138*		*10/25/17 22:17*	*1*
4-Bromofluorobenzene (Surr)	*97*		*69 - 120*		*10/25/17 22:17*	*1*
Toluene-d8 (Surr)	*107*		*73 - 120*		*10/25/17 22:17*	*1*
Dibromofluoromethane (Surr)	*102*		*69 - 124*		*10/25/17 22:17*	*1*

Client Sample ID: GW-101717-BE-036
Date Collected: 10/17/17 16:00
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**2.3**	**J**	10	1.8	ug/L			10/25/17 22:43	1
Benzene	1.0	U	1.0	0.28	ug/L			10/25/17 22:43	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/25/17 22:43	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/25/17 22:43	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/25/17 22:43	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/25/17 22:43	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/25/17 22:43	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/25/17 22:43	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/25/17 22:43	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/25/17 22:43	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/25/17 22:43	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/25/17 22:43	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/25/17 22:43	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/25/17 22:43	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/25/17 22:43	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/25/17 22:43	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/25/17 22:43	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/25/17 22:43	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/25/17 22:43	1
2-Hexanone	10	U	10	1.2	ug/L			10/25/17 22:43	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			10/25/17 22:43	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/25/17 22:43	1
Styrene	1.0	U	1.0	0.23	ug/L			10/25/17 22:43	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/25/17 22:43	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/25/17 22:43	1
Toluene	1.0	U	1.0	0.23	ug/L			10/25/17 22:43	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/25/17 22:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/25/17 22:43	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/25/17 22:43	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/25/17 22:43	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/25/17 22:43	1
cis-1,2-Dichloroethene	**1.4**		1.0	0.30	ug/L			10/25/17 22:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/25/17 22:43	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/25/17 22:43	1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*97*		*61 - 138*		*10/25/17 22:43*	*1*
4-Bromofluorobenzene (Surr)	*96*		*69 - 120*		*10/25/17 22:43*	*1*
Toluene-d8 (Surr)	*109*		*73 - 120*		*10/25/17 22:43*	*1*
Dibromofluoromethane (Surr)	*100*		*69 - 124*		*10/25/17 22:43*	*1*

Client Sample ID: GW-101717-BE-037
Date Collected: 10/17/17 18:03
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-18
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			10/25/17 23:08	1
Benzene	1.0	U	1.0	0.28	ug/L			10/25/17 23:08	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/25/17 23:08	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/25/17 23:08	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/25/17 23:08	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/25/17 23:08	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/25/17 23:08	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/25/17 23:08	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/25/17 23:08	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/25/17 23:08	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/25/17 23:08	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/25/17 23:08	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/25/17 23:08	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/25/17 23:08	1
1,1-Dichloroethene	**0.59**	**J**	1.0	0.27	ug/L			10/25/17 23:08	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/25/17 23:08	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/25/17 23:08	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/25/17 23:08	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/25/17 23:08	1
2-Hexanone	10	U	10	1.2	ug/L			10/25/17 23:08	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			10/25/17 23:08	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/25/17 23:08	1
Styrene	1.0	U	1.0	0.23	ug/L			10/25/17 23:08	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/25/17 23:08	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/25/17 23:08	1
Toluene	1.0	U	1.0	0.23	ug/L			10/25/17 23:08	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/25/17 23:08	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/25/17 23:08	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/25/17 23:08	1
1,1,1-Trichloroethane	**2.6**		1.0	0.23	ug/L			10/25/17 23:08	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/25/17 23:08	1
cis-1,2-Dichloroethene	**0.59**	**J**	1.0	0.30	ug/L			10/25/17 23:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/25/17 23:08	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/25/17 23:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*98*		*61 - 138*		*10/25/17 23:08*	*1*
4-Bromofluorobenzene (Surr)	*97*		*69 - 120*		*10/25/17 23:08*	*1*
Toluene-d8 (Surr)	*106*		*73 - 120*		*10/25/17 23:08*	*1*
Dibromofluoromethane (Surr)	*103*		*69 - 124*		*10/25/17 23:08*	*1*

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

Client Sample ID: TB-101717-BE-004
Date Collected: 10/17/17 18:30
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-19
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**5.0**	**J**	10	1.8	ug/L			10/25/17 21:53	1
Benzene	1.0	U	1.0	0.28	ug/L			10/25/17 21:53	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/25/17 21:53	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/25/17 21:53	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/25/17 21:53	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/25/17 21:53	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/25/17 21:53	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/25/17 21:53	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/25/17 21:53	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/25/17 21:53	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/25/17 21:53	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/25/17 21:53	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/25/17 21:53	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/25/17 21:53	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/25/17 21:53	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/25/17 21:53	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/25/17 21:53	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/25/17 21:53	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/25/17 21:53	1
2-Hexanone	10	U	10	1.2	ug/L			10/25/17 21:53	1
Methylene Chloride	**1.1**		1.0	0.53	ug/L			10/25/17 21:53	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/25/17 21:53	1
Styrene	1.0	U	1.0	0.23	ug/L			10/25/17 21:53	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/25/17 21:53	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/25/17 21:53	1
Toluene	1.0	U	1.0	0.23	ug/L			10/25/17 21:53	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/25/17 21:53	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/25/17 21:53	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/25/17 21:53	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/25/17 21:53	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/25/17 21:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/25/17 21:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/25/17 21:53	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/25/17 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*61 - 138*		*10/25/17 21:53*	*1*
4-Bromofluorobenzene (Surr)	*98*		*69 - 120*		*10/25/17 21:53*	*1*
Toluene-d8 (Surr)	*107*		*73 - 120*		*10/25/17 21:53*	*1*
Dibromofluoromethane (Surr)	*99*		*69 - 124*		*10/25/17 21:53*	*1*

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86639-2

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(61-138)	(69-120)	(73-120)	(69-124)
240-86639-1	GW-101317-BE-023	92	100	94	96
240-86639-2	EB-101317-BE-002	100	107	94	105
240-86639-3	GW-101317-BE-024	107	116	91	119
240-86639-3 MS	GW-101317-BE-024	100	108	97	110
240-86639-3 MSD	GW-101317-BE-024	99	103	93	101
240-86639-4	GW-101317-BE-025	99	103	93	105
240-86639-5	GW-101317-BE-026	96	103	94	104
240-86639-6	GW-101317-BE-027	91	103	93	100
240-86639-7	GW-101617-BE-028	96	100	108	103
240-86639-7 MS	GW-101617-BE-028	99	98	112	103
240-86639-7 MSD	GW-101617-BE-028	95	100	110	100
240-86639-8	EB-101617-BE-003	98	94	107	101
240-86639-9	GW-101617-BE-029	97	95	108	102
240-86639-10	GW-101617-BE-030	96	97	108	103
240-86639-11	GW-101617-BE-031	97	95	106	102
240-86639-12	GW-101717-BE-032	95	97	107	101
240-86639-13	GW-101717-BE-033	97	96	108	101
240-86639-14	GW-101717-BE-034	98	94	110	104
240-86639-15	GW-101717-BE-035	98	94	107	101
240-86639-16	EB-101717-BE-004	99	97	107	102
240-86639-17	GW-101717-BE-036	97	96	109	100
240-86639-18	GW-101717-BE-037	98	97	106	103
240-86639-19	TB-101717-BE-004	100	98	107	99
LCS 240-300535/4	Lab Control Sample	96	99	110	100
LCS 240-300561/4	Lab Control Sample	98	105	98	105
LCS 240-300739/4	Lab Control Sample	92	98	110	101
MB 240-300535/6	Method Blank	98	97	109	103
MB 240-300561/6	Method Blank	92	107	90	102
MB 240-300739/6	Method Blank	100	97	105	102

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Lab Sample ID: MB 240-300535/6
Matrix: Water
Analysis Batch: 300535

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			10/25/17 13:15	1
Benzene	1.0	U	1.0	0.28	ug/L			10/25/17 13:15	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/25/17 13:15	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/25/17 13:15	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/25/17 13:15	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/25/17 13:15	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/25/17 13:15	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/25/17 13:15	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/25/17 13:15	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/25/17 13:15	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/25/17 13:15	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/25/17 13:15	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/25/17 13:15	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/25/17 13:15	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/25/17 13:15	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/25/17 13:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/25/17 13:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/25/17 13:15	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/25/17 13:15	1
2-Hexanone	10	U	10	1.2	ug/L			10/25/17 13:15	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			10/25/17 13:15	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/25/17 13:15	1
Styrene	1.0	U	1.0	0.23	ug/L			10/25/17 13:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/25/17 13:15	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/25/17 13:15	1
Toluene	1.0	U	1.0	0.23	ug/L			10/25/17 13:15	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/25/17 13:15	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/25/17 13:15	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/25/17 13:15	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/25/17 13:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/25/17 13:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/25/17 13:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/25/17 13:15	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/25/17 13:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*61 - 138*		*10/25/17 13:15*	*1*
4-Bromofluorobenzene (Surr)	*97*		*69 - 120*		*10/25/17 13:15*	*1*
Toluene-d8 (Surr)	*109*		*73 - 120*		*10/25/17 13:15*	*1*
Dibromofluoromethane (Surr)	*103*		*69 - 124*		*10/25/17 13:15*	*1*

Lab Sample ID: LCS 240-300535/4
Matrix: Water
Analysis Batch: 300535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acetone			50.0	44.1		ug/L		88	35 - 131		
Benzene			25.0	26.1		ug/L		104	79 - 120		

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

Lab Sample ID: LCS 240-300535/4
Matrix: Water
Analysis Batch: 300535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorobromomethane	25.0	26.8		ug/L		107	79 - 125
Bromoform	25.0	23.0		ug/L		92	55 - 145
Bromomethane	10.0	8.46		ug/L		85	17 - 158
2-Butanone (MEK)	50.0	43.5		ug/L		87	43 - 149
Carbon disulfide	25.0	27.3		ug/L		109	49 - 141
Carbon tetrachloride	25.0	23.0		ug/L		92	55 - 171
Chlorobenzene	25.0	26.3		ug/L		105	80 - 120
Chloroethane	10.0	7.99		ug/L		80	10 - 149
Chloroform	25.0	26.3		ug/L		105	80 - 120
Chloromethane	10.0	11.0		ug/L		110	59 - 124
1,1-Dichloroethane	25.0	26.4		ug/L		106	74 - 120
1,2-Dichloroethane	25.0	25.6		ug/L		102	68 - 133
1,1-Dichloroethene	25.0	24.6		ug/L		98	65 - 127
1,2-Dichloropropane	25.0	26.1		ug/L		105	78 - 127
cis-1,3-Dichloropropene	25.0	23.0		ug/L		92	75 - 120
trans-1,3-Dichloropropene	25.0	21.0		ug/L		84	67 - 120
Ethylbenzene	25.0	27.4		ug/L		110	80 - 120
2-Hexanone	50.0	49.4		ug/L		99	28 - 169
Methylene Chloride	25.0	24.0		ug/L		96	64 - 140
4-Methyl-2-pentanone (MIBK)	50.0	49.6		ug/L		99	53 - 144
Styrene	25.0	27.2		ug/L		109	80 - 121
1,1,2,2-Tetrachloroethane	25.0	26.4		ug/L		106	58 - 122
Tetrachloroethene	25.0	29.1		ug/L		117	80 - 122
Toluene	25.0	27.3		ug/L		109	78 - 120
Trichloroethene	25.0	26.6		ug/L		106	76 - 124
Vinyl chloride	10.0	10.2		ug/L		102	65 - 124
Xylenes, Total	50.0	55.2		ug/L		110	80 - 120
1,1,1-Trichloroethane	25.0	24.2		ug/L		97	64 - 147
1,1,2-Trichloroethane	25.0	27.0		ug/L		108	76 - 121
cis-1,2-Dichloroethene	25.0	25.8		ug/L		103	77 - 120
trans-1,2-Dichloroethene	25.0	27.8		ug/L		111	74 - 124
Chlorodibromomethane	25.0	23.8		ug/L		95	64 - 129
m-Xylene & p-Xylene	25.0	27.8		ug/L		111	80 - 120
o-Xylene	25.0	27.4		ug/L		110	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*61 - 138*
4-Bromofluorobenzene (Surr)	*99*		*69 - 120*
Toluene-d8 (Surr)	*110*		*73 - 120*
Dibromofluoromethane (Surr)	*100*		*69 - 124*

Lab Sample ID: MB 240-300561/6
Matrix: Water
Analysis Batch: 300561

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			10/25/17 16:10	1
Benzene	1.0	U	1.0	0.28	ug/L			10/25/17 16:10	1

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

Lab Sample ID: MB 240-300561/6
Matrix: Water
Analysis Batch: 300561

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/25/17 16:10	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/25/17 16:10	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/25/17 16:10	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/25/17 16:10	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/25/17 16:10	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/25/17 16:10	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/25/17 16:10	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/25/17 16:10	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/25/17 16:10	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/25/17 16:10	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/25/17 16:10	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/25/17 16:10	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/25/17 16:10	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/25/17 16:10	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/25/17 16:10	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/25/17 16:10	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/25/17 16:10	1
2-Hexanone	10	U	10	1.2	ug/L			10/25/17 16:10	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			10/25/17 16:10	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/25/17 16:10	1
Styrene	1.0	U	1.0	0.23	ug/L			10/25/17 16:10	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/25/17 16:10	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/25/17 16:10	1
Toluene	1.0	U	1.0	0.23	ug/L			10/25/17 16:10	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/25/17 16:10	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/25/17 16:10	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/25/17 16:10	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/25/17 16:10	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/25/17 16:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/25/17 16:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/25/17 16:10	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/25/17 16:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*61 - 138*		*10/25/17 16:10*	*1*
4-Bromofluorobenzene (Surr)	*107*		*69 - 120*		*10/25/17 16:10*	*1*
Toluene-d8 (Surr)	*90*		*73 - 120*		*10/25/17 16:10*	*1*
Dibromofluoromethane (Surr)	*102*		*69 - 124*		*10/25/17 16:10*	*1*

Lab Sample ID: LCS 240-300561/4
Matrix: Water
Analysis Batch: 300561

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	20.0		ug/L		100	35 - 131
Benzene	10.0	10.1		ug/L		101	79 - 120
Dichlorobromomethane	10.0	9.61		ug/L		96	79 - 125
Bromoform	10.0	10.5		ug/L		105	55 - 145

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

Lab Sample ID: LCS 240-300561/4
Matrix: Water
Analysis Batch: 300561

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	10.0	12.4		ug/L		124	17 - 158
2-Butanone (MEK)	20.0	20.8		ug/L		104	43 - 149
Carbon disulfide	10.0	11.1		ug/L		111	49 - 141
Carbon tetrachloride	10.0	10.9		ug/L		109	55 - 171
Chlorobenzene	10.0	9.86		ug/L		99	80 - 120
Chloroethane	10.0	12.3		ug/L		123	10 - 149
Chloroform	10.0	10.6		ug/L		106	80 - 120
Chloromethane	10.0	11.6		ug/L		116	59 - 124
1,1-Dichloroethane	10.0	10.6		ug/L		106	74 - 120
1,2-Dichloroethane	10.0	10.1		ug/L		101	68 - 133
1,1-Dichloroethene	10.0	10.6		ug/L		106	65 - 127
1,2-Dichloropropane	10.0	9.75		ug/L		98	78 - 127
cis-1,3-Dichloropropene	10.0	9.70		ug/L		97	75 - 120
trans-1,3-Dichloropropene	10.0	8.80		ug/L		88	67 - 120
Ethylbenzene	10.0	9.92		ug/L		99	80 - 120
2-Hexanone	20.0	20.5		ug/L		102	28 - 169
Methylene Chloride	10.0	10.7		ug/L		107	64 - 140
4-Methyl-2-pentanone (MIBK)	20.0	18.1		ug/L		91	53 - 144
Styrene	10.0	9.83		ug/L		98	80 - 121
1,1,2,2-Tetrachloroethane	10.0	9.40		ug/L		94	58 - 122
Tetrachloroethene	10.0	10.1		ug/L		101	80 - 122
Toluene	10.0	9.71		ug/L		97	78 - 120
Trichloroethene	10.0	10.0		ug/L		100	76 - 124
Vinyl chloride	10.0	12.2		ug/L		122	65 - 124
Xylenes, Total	20.0	19.7		ug/L		98	80 - 120
1,1,1-Trichloroethane	10.0	11.2		ug/L		112	64 - 147
1,1,2-Trichloroethane	10.0	9.48		ug/L		95	76 - 121
cis-1,2-Dichloroethene	10.0	10.3		ug/L		103	77 - 120
trans-1,2-Dichloroethene	10.0	11.1		ug/L		111	74 - 124
Chlorodibromomethane	10.0	9.66		ug/L		97	64 - 129
m-Xylene & p-Xylene	10.0	9.59		ug/L		96	80 - 120
o-Xylene	10.0	10.1		ug/L		101	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*61 - 138*
4-Bromofluorobenzene (Surr)	*105*		*69 - 120*
Toluene-d8 (Surr)	*98*		*73 - 120*
Dibromofluoromethane (Surr)	*105*		*69 - 124*

Lab Sample ID: 240-86639-3 MS
Matrix: Water
Analysis Batch: 300561

Client Sample ID: GW-101317-BE-024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	2.3	J	20.0	19.7		ug/L		87	19 - 133
Benzene	1.0	U	10.0	9.87		ug/L		99	69 - 127
Dichlorobromomethane	1.0	U	10.0	9.42		ug/L		94	75 - 128
Bromoform	1.0	U	10.0	10.0		ug/L		100	61 - 135

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

Lab Sample ID: 240-86639-3 MS
Matrix: Water
Analysis Batch: 300561

Client Sample ID: GW-101317-BE-024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	1.0	U F2	10.0	13.1		ug/L		131	10 - 148
2-Butanone (MEK)	10	U	20.0	18.4		ug/L		92	34 - 153
Carbon disulfide	1.0	U	10.0	11.1		ug/L		111	46 - 143
Carbon tetrachloride	1.0	U	10.0	10.5		ug/L		105	53 - 175
Chlorobenzene	1.0	U	10.0	9.07		ug/L		91	76 - 120
Chloroethane	1.0	U F2	10.0	13.2		ug/L		132	10 - 141
Chloroform	1.0	U	10.0	10.8		ug/L		108	74 - 125
Chloromethane	1.0	U F2	10.0	11.2		ug/L		112	34 - 127
1,1-Dichloroethane	1.0	U	10.0	10.6		ug/L		106	69 - 122
1,2-Dichloroethane	1.0	U	10.0	10.3		ug/L		103	64 - 138
1,1-Dichloroethene	1.0	U	10.0	11.0		ug/L		110	62 - 127
1,2-Dichloropropane	1.0	U	10.0	9.68		ug/L		97	72 - 131
cis-1,3-Dichloropropene	1.0	U	10.0	8.69		ug/L		87	68 - 120
trans-1,3-Dichloropropene	1.0	U	10.0	7.88		ug/L		79	59 - 120
Ethylbenzene	1.0	U	10.0	9.66		ug/L		97	72 - 121
2-Hexanone	10	U	20.0	21.5		ug/L		107	21 - 184
Methylene Chloride	1.0	U	10.0	11.0		ug/L		110	52 - 137
4-Methyl-2-pentanone (MIBK)	10	U	20.0	19.7		ug/L		98	53 - 147
Styrene	1.0	U	10.0	9.62		ug/L		96	74 - 125
1,1,2,2-Tetrachloroethane	1.0	U	10.0	8.96		ug/L		90	51 - 123
Tetrachloroethene	1.0	U	10.0	8.80		ug/L		88	69 - 126
Toluene	1.0	U	10.0	9.19		ug/L		92	69 - 125
Trichloroethene	1.0	U	10.0	9.48		ug/L		95	68 - 129
Vinyl chloride	1.0	U	10.0	12.3		ug/L		123	55 - 123
Xylenes, Total	2.0	U	20.0	19.0		ug/L		95	71 - 122
1,1,1-Trichloroethane	1.0	U	10.0	11.2		ug/L		112	57 - 156
1,1,2-Trichloroethane	1.0	U	10.0	9.44		ug/L		94	68 - 127
cis-1,2-Dichloroethene	1.0	U F2	10.0	11.2		ug/L		112	69 - 127
trans-1,2-Dichloroethene	1.0	U F2	10.0	11.2		ug/L		112	66 - 131
Chlorodibromomethane	1.0	U	10.0	9.24		ug/L		92	62 - 131
m-Xylene & p-Xylene	2.0	U	10.0	9.27		ug/L		93	70 - 121
o-Xylene	1.0	U	10.0	9.73		ug/L		97	71 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*61 - 138*
4-Bromofluorobenzene (Surr)	*108*		*69 - 120*
Toluene-d8 (Surr)	*97*		*73 - 120*
Dibromofluoromethane (Surr)	*110*		*69 - 124*

Lab Sample ID: 240-86639-3 MSD
Matrix: Water
Analysis Batch: 300561

Client Sample ID: GW-101317-BE-024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	2.3	J	20.0	17.1		ug/L		74	19 - 133	14	35
Benzene	1.0	U	10.0	9.38		ug/L		94	69 - 127	5	10
Dichlorobromomethane	1.0	U	10.0	9.30		ug/L		93	75 - 128	1	13
Bromoform	1.0	U	10.0	9.45		ug/L		94	61 - 135	6	13

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

Lab Sample ID: 240-86639-3 MSD
Matrix: Water
Analysis Batch: 300561

Client Sample ID: GW-101317-BE-024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane	1.0	U F2	10.0	8.14	F2	ug/L		81	10 - 148	47	35
2-Butanone (MEK)	10	U	20.0	19.6		ug/L		98	34 - 153	6	23
Carbon disulfide	1.0	U	10.0	9.83		ug/L		98	46 - 143	12	18
Carbon tetrachloride	1.0	U	10.0	9.63		ug/L		96	53 - 175	9	17
Chlorobenzene	1.0	U	10.0	9.10		ug/L		91	76 - 120	0	12
Chloroethane	1.0	U F2	10.0	7.01	F2	ug/L		70	10 - 141	61	35
Chloroform	1.0	U	10.0	9.93		ug/L		99	74 - 125	9	11
Chloromethane	1.0	U F2	10.0	8.18	F2	ug/L		82	34 - 127	31	25
1,1-Dichloroethane	1.0	U	10.0	9.94		ug/L		99	69 - 122	6	11
1,2-Dichloroethane	1.0	U	10.0	9.98		ug/L		100	64 - 138	4	11
1,1-Dichloroethene	1.0	U	10.0	9.70		ug/L		97	62 - 127	12	14
1,2-Dichloropropane	1.0	U	10.0	9.41		ug/L		94	72 - 131	3	12
cis-1,3-Dichloropropene	1.0	U	10.0	9.44		ug/L		94	68 - 120	8	13
trans-1,3-Dichloropropene	1.0	U	10.0	8.36		ug/L		84	59 - 120	6	14
Ethylbenzene	1.0	U	10.0	8.94		ug/L		89	72 - 121	8	15
2-Hexanone	10	U	20.0	20.1		ug/L		100	21 - 184	7	12
Methylene Chloride	1.0	U	10.0	10.3		ug/L		103	52 - 137	7	12
4-Methyl-2-pentanone (MIBK)	10	U	20.0	19.3		ug/L		96	53 - 147	2	16
Styrene	1.0	U	10.0	9.17		ug/L		92	74 - 125	5	14
1,1,2,2-Tetrachloroethane	1.0	U	10.0	9.10		ug/L		91	51 - 123	2	17
Tetrachloroethene	1.0	U	10.0	8.56		ug/L		86	69 - 126	3	18
Toluene	1.0	U	10.0	8.77		ug/L		88	69 - 125	5	14
Trichloroethene	1.0	U	10.0	9.60		ug/L		96	68 - 129	1	12
Vinyl chloride	1.0	U	10.0	11.3		ug/L		113	55 - 123	9	12
Xylenes, Total	2.0	U	20.0	17.6		ug/L		88	71 - 122	8	14
1,1,1-Trichloroethane	1.0	U	10.0	10.1		ug/L		101	57 - 156	10	13
1,1,2-Trichloroethane	1.0	U	10.0	8.98		ug/L		90	68 - 127	5	11
cis-1,2-Dichloroethene	1.0	U F2	10.0	10.0	F2	ug/L		100	69 - 127	12	11
trans-1,2-Dichloroethene	1.0	U F2	10.0	9.78	F2	ug/L		98	66 - 131	14	11
Chlorodibromomethane	1.0	U	10.0	8.99		ug/L		90	62 - 131	3	15
m-Xylene & p-Xylene	2.0	U	10.0	8.68		ug/L		87	70 - 121	7	15
o-Xylene	1.0	U	10.0	8.94		ug/L		89	71 - 125	8	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*61 - 138*
4-Bromofluorobenzene (Surr)	*103*		*69 - 120*
Toluene-d8 (Surr)	*93*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*69 - 124*

Lab Sample ID: MB 240-300739/6
Matrix: Water
Analysis Batch: 300739

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			10/26/17 12:43	1
Benzene	1.0	U	1.0	0.28	ug/L			10/26/17 12:43	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/26/17 12:43	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/26/17 12:43	1

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

Lab Sample ID: MB 240-300739/6
Matrix: Water
Analysis Batch: 300739

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	1.0	U	1.0	0.42	ug/L			10/26/17 12:43	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/26/17 12:43	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/26/17 12:43	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/26/17 12:43	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/26/17 12:43	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/26/17 12:43	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/26/17 12:43	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/26/17 12:43	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/26/17 12:43	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/26/17 12:43	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/26/17 12:43	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/26/17 12:43	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/26/17 12:43	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/26/17 12:43	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/26/17 12:43	1
2-Hexanone	10	U	10	1.2	ug/L			10/26/17 12:43	1
Methylene Chloride	4.94		1.0	0.53	ug/L			10/26/17 12:43	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/26/17 12:43	1
Styrene	1.0	U	1.0	0.23	ug/L			10/26/17 12:43	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/26/17 12:43	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/26/17 12:43	1
Toluene	1.0	U	1.0	0.23	ug/L			10/26/17 12:43	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/26/17 12:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/26/17 12:43	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/26/17 12:43	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/26/17 12:43	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/26/17 12:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/26/17 12:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/26/17 12:43	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/26/17 12:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*61 - 138*		*10/26/17 12:43*	*1*
4-Bromofluorobenzene (Surr)	*97*		*69 - 120*		*10/26/17 12:43*	*1*
Toluene-d8 (Surr)	*105*		*73 - 120*		*10/26/17 12:43*	*1*
Dibromofluoromethane (Surr)	*102*		*69 - 124*		*10/26/17 12:43*	*1*

Lab Sample ID: LCS 240-300739/4
Matrix: Water
Analysis Batch: 300739

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	39.4		ug/L		79	35 - 131
Benzene	25.0	26.3		ug/L		105	79 - 120
Dichlorobromomethane	25.0	26.6		ug/L		106	79 - 125
Bromoform	25.0	21.1		ug/L		85	55 - 145
Bromomethane	10.0	7.28		ug/L		73	17 - 158
2-Butanone (MEK)	50.0	41.4		ug/L		83	43 - 149

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

Lab Sample ID: LCS 240-300739/4
Matrix: Water
Analysis Batch: 300739

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	25.0	27.4		ug/L		109	49 - 141
Carbon tetrachloride	25.0	23.2		ug/L		93	55 - 171
Chlorobenzene	25.0	27.1		ug/L		109	80 - 120
Chloroethane	10.0	6.57		ug/L		66	10 - 149
Chloroform	25.0	26.4		ug/L		105	80 - 120
Chloromethane	10.0	10.4		ug/L		104	59 - 124
1,1-Dichloroethane	25.0	26.7		ug/L		107	74 - 120
1,2-Dichloroethane	25.0	25.7		ug/L		103	68 - 133
1,1-Dichloroethene	25.0	25.2		ug/L		101	65 - 127
1,2-Dichloropropane	25.0	26.6		ug/L		106	78 - 127
cis-1,3-Dichloropropene	25.0	22.7		ug/L		91	75 - 120
trans-1,3-Dichloropropene	25.0	20.4		ug/L		82	67 - 120
Ethylbenzene	25.0	29.0		ug/L		116	80 - 120
2-Hexanone	50.0	45.1		ug/L		90	28 - 169
Methylene Chloride	25.0	28.2		ug/L		113	64 - 140
4-Methyl-2-pentanone (MIBK)	50.0	46.1		ug/L		92	53 - 144
Styrene	25.0	27.6		ug/L		110	80 - 121
1,1,2,2-Tetrachloroethane	25.0	25.5		ug/L		102	58 - 122
Tetrachloroethene	25.0	30.0		ug/L		120	80 - 122
Toluene	25.0	27.9		ug/L		111	78 - 120
Trichloroethene	25.0	27.6		ug/L		111	76 - 124
Vinyl chloride	10.0	8.92		ug/L		89	65 - 124
Xylenes, Total	50.0	56.7		ug/L		113	80 - 120
1,1,1-Trichloroethane	25.0	24.3		ug/L		97	64 - 147
1,1,2-Trichloroethane	25.0	26.0		ug/L		104	76 - 121
cis-1,2-Dichloroethene	25.0	26.0		ug/L		104	77 - 120
trans-1,2-Dichloroethene	25.0	28.7		ug/L		115	74 - 124
Chlorodibromomethane	25.0	23.9		ug/L		95	64 - 129
m-Xylene & p-Xylene	25.0	28.8		ug/L		115	80 - 120
o-Xylene	25.0	27.9		ug/L		112	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*61 - 138*
4-Bromofluorobenzene (Surr)	*98*		*69 - 120*
Toluene-d8 (Surr)	*110*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*69 - 124*

Lab Sample ID: 240-86639-7 MS
Matrix: Water
Analysis Batch: 300739

Client Sample ID: GW-101617-BE-028
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	10	U	50.0	48.0		ug/L		96	19 - 133
Benzene	1.0	U	25.0	25.2		ug/L		101	69 - 127
Dichlorobromomethane	1.0	U	25.0	26.0		ug/L		104	75 - 128
Bromoform	1.0	U	25.0	20.2		ug/L		81	61 - 135
Bromomethane	1.0	U	10.0	7.87		ug/L		79	10 - 148
2-Butanone (MEK)	10	U	50.0	46.0		ug/L		92	34 - 153

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

Lab Sample ID: 240-86639-7 MS
Matrix: Water
Analysis Batch: 300739

Client Sample ID: GW-101617-BE-028
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	1.0	U	25.0	24.7		ug/L		99	46 - 143
Carbon tetrachloride	1.0	U	25.0	18.8		ug/L		75	53 - 175
Chlorobenzene	1.0	U	25.0	25.7		ug/L		103	76 - 120
Chloroethane	1.0	U	10.0	6.78		ug/L		68	10 - 141
Chloroform	1.0	U	25.0	25.5		ug/L		102	74 - 125
Chloromethane	1.0	U	10.0	9.79		ug/L		98	34 - 127
1,1-Dichloroethane	1.0	U	25.0	24.9		ug/L		100	69 - 122
1,2-Dichloroethane	1.0	U	25.0	26.2		ug/L		105	64 - 138
1,1-Dichloroethene	1.0	U	25.0	22.4		ug/L		90	62 - 127
1,2-Dichloropropane	1.0	U	25.0	25.9		ug/L		104	72 - 131
cis-1,3-Dichloropropene	1.0	U	25.0	21.4		ug/L		86	68 - 120
trans-1,3-Dichloropropene	1.0	U	25.0	19.6		ug/L		78	59 - 120
Ethylbenzene	1.0	U	25.0	25.4		ug/L		101	72 - 121
2-Hexanone	10	U	50.0	51.0		ug/L		102	21 - 184
Methylene Chloride	13	B	25.0	37.9		ug/L		99	52 - 137
4-Methyl-2-pentanone (MIBK)	10	U	50.0	51.9		ug/L		104	53 - 147
Styrene	1.0	U	25.0	26.4		ug/L		106	74 - 125
1,1,2,2-Tetrachloroethane	1.0	U	25.0	27.7		ug/L		111	51 - 123
Tetrachloroethene	1.0	U	25.0	26.3		ug/L		105	69 - 126
Toluene	1.0	U	25.0	25.9		ug/L		103	69 - 125
Trichloroethene	1.0	U	25.0	24.9		ug/L		100	68 - 129
Vinyl chloride	1.0	U F2	10.0	8.98		ug/L		90	55 - 123
Xylenes, Total	2.0	U	50.0	51.4		ug/L		103	71 - 122
1,1,1-Trichloroethane	1.0	U	25.0	20.8		ug/L		83	57 - 156
1,1,2-Trichloroethane	1.0	U	25.0	27.9		ug/L		112	68 - 127
cis-1,2-Dichloroethene	1.0	U	25.0	25.5		ug/L		102	69 - 127
trans-1,2-Dichloroethene	1.0	U	25.0	26.1		ug/L		104	66 - 131
Chlorodibromomethane	1.0	U	25.0	23.1		ug/L		92	62 - 131
m-Xylene & p-Xylene	2.0	U	25.0	25.4		ug/L		101	70 - 121
o-Xylene	1.0	U	25.0	26.0		ug/L		104	71 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*61 - 138*
4-Bromofluorobenzene (Surr)	*98*		*69 - 120*
Toluene-d8 (Surr)	*112*		*73 - 120*
Dibromofluoromethane (Surr)	*103*		*69 - 124*

Lab Sample ID: 240-86639-7 MSD
Matrix: Water
Analysis Batch: 300739

Client Sample ID: GW-101617-BE-028
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	10	U	50.0	41.3		ug/L		83	19 - 133	15	35
Benzene	1.0	U	25.0	25.5		ug/L		102	69 - 127	1	10
Dichlorobromomethane	1.0	U	25.0	26.4		ug/L		105	75 - 128	1	13
Bromoform	1.0	U	25.0	21.5		ug/L		86	61 - 135	6	13
Bromomethane	1.0	U	10.0	5.98		ug/L		60	10 - 148	27	35
2-Butanone (MEK)	10	U	50.0	46.9		ug/L		94	34 - 153	2	23

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

Lab Sample ID: 240-86639-7 MSD
Matrix: Water
Analysis Batch: 300739

Client Sample ID: GW-101617-BE-028
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon disulfide	1.0	U	25.0	22.6		ug/L		90	46 - 143	9	18
Carbon tetrachloride	1.0	U	25.0	19.4		ug/L		77	53 - 175	3	17
Chlorobenzene	1.0	U	25.0	26.1		ug/L		104	76 - 120	1	12
Chloroethane	1.0	U	10.0	5.25		ug/L		53	10 - 141	25	35
Chloroform	1.0	U	25.0	25.9		ug/L		103	74 - 125	1	11
Chloromethane	1.0	U	10.0	9.55		ug/L		95	34 - 127	2	25
1,1-Dichloroethane	1.0	U	25.0	25.4		ug/L		102	69 - 122	2	11
1,2-Dichloroethane	1.0	U	25.0	26.5		ug/L		106	64 - 138	1	11
1,1-Dichloroethene	1.0	U	25.0	20.6		ug/L		83	62 - 127	8	14
1,2-Dichloropropane	1.0	U	25.0	26.4		ug/L		106	72 - 131	2	12
cis-1,3-Dichloropropene	1.0	U	25.0	22.3		ug/L		89	68 - 120	4	13
trans-1,3-Dichloropropene	1.0	U	25.0	20.5		ug/L		82	59 - 120	5	14
Ethylbenzene	1.0	U	25.0	27.0		ug/L		108	72 - 121	6	15
2-Hexanone	10	U	50.0	52.5		ug/L		105	21 - 184	3	12
Methylene Chloride	13	B	25.0	35.1		ug/L		88	52 - 137	8	12
4-Methyl-2-pentanone (MIBK)	10	U	50.0	52.5		ug/L		105	53 - 147	1	16
Styrene	1.0	U	25.0	27.0		ug/L		108	74 - 125	2	14
1,1,2,2-Tetrachloroethane	1.0	U	25.0	28.2		ug/L		113	51 - 123	2	17
Tetrachloroethene	1.0	U	25.0	27.4		ug/L		110	69 - 126	4	18
Toluene	1.0	U	25.0	26.6		ug/L		106	69 - 125	3	14
Trichloroethene	1.0	U	25.0	26.1		ug/L		105	68 - 129	5	12
Vinyl chloride	1.0	U F2	10.0	7.40	F2	ug/L		74	55 - 123	19	12
Xylenes, Total	2.0	U	50.0	53.2		ug/L		106	71 - 122	3	14
1,1,1-Trichloroethane	1.0	U	25.0	21.4		ug/L		85	57 - 156	3	13
1,1,2-Trichloroethane	1.0	U	25.0	27.8		ug/L		111	68 - 127	0	11
cis-1,2-Dichloroethene	1.0	U	25.0	25.6		ug/L		102	69 - 127	0	11
trans-1,2-Dichloroethene	1.0	U	25.0	26.4		ug/L		106	66 - 131	1	11
Chlorodibromomethane	1.0	U	25.0	23.3		ug/L		93	62 - 131	1	15
m-Xylene & p-Xylene	2.0	U	25.0	26.5		ug/L		106	70 - 121	4	15
o-Xylene	1.0	U	25.0	26.7		ug/L		107	71 - 125	3	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*61 - 138*
4-Bromofluorobenzene (Surr)	*100*		*69 - 120*
Toluene-d8 (Surr)	*110*		*73 - 120*
Dibromofluoromethane (Surr)	*100*		*69 - 124*

QC Association Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86639-2

GC/MS VOA

Analysis Batch: 300535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86639-16	EB-101717-BE-004	Total/NA	Water	8260B	
240-86639-17	GW-101717-BE-036	Total/NA	Water	8260B	
240-86639-18	GW-101717-BE-037	Total/NA	Water	8260B	
240-86639-19	TB-101717-BE-004	Total/NA	Water	8260B	
MB 240-300535/6	Method Blank	Total/NA	Water	8260B	
LCS 240-300535/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 300561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86639-1	GW-101317-BE-023	Total/NA	Water	8260B	
240-86639-2	EB-101317-BE-002	Total/NA	Water	8260B	
240-86639-3	GW-101317-BE-024	Total/NA	Water	8260B	
240-86639-4	GW-101317-BE-025	Total/NA	Water	8260B	
240-86639-5	GW-101317-BE-026	Total/NA	Water	8260B	
240-86639-6	GW-101317-BE-027	Total/NA	Water	8260B	
MB 240-300561/6	Method Blank	Total/NA	Water	8260B	
LCS 240-300561/4	Lab Control Sample	Total/NA	Water	8260B	
240-86639-3 MS	GW-101317-BE-024	Total/NA	Water	8260B	
240-86639-3 MSD	GW-101317-BE-024	Total/NA	Water	8260B	

Analysis Batch: 300739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86639-7	GW-101617-BE-028	Total/NA	Water	8260B	
240-86639-8	EB-101617-BE-003	Total/NA	Water	8260B	
240-86639-9	GW-101617-BE-029	Total/NA	Water	8260B	
240-86639-10	GW-101617-BE-030	Total/NA	Water	8260B	
240-86639-11	GW-101617-BE-031	Total/NA	Water	8260B	
240-86639-12	GW-101717-BE-032	Total/NA	Water	8260B	
240-86639-13	GW-101717-BE-033	Total/NA	Water	8260B	
240-86639-14	GW-101717-BE-034	Total/NA	Water	8260B	
240-86639-15	GW-101717-BE-035	Total/NA	Water	8260B	
MB 240-300739/6	Method Blank	Total/NA	Water	8260B	
LCS 240-300739/4	Lab Control Sample	Total/NA	Water	8260B	
240-86639-7 MS	GW-101617-BE-028	Total/NA	Water	8260B	
240-86639-7 MSD	GW-101617-BE-028	Total/NA	Water	8260B	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86639-2

Client Sample ID: GW-101317-BE-023
Date Collected: 10/13/17 10:13
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300561	10/25/17 17:37	LRW	TAL CAN

Client Sample ID: EB-101317-BE-002
Date Collected: 10/13/17 10:26
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300561	10/25/17 17:59	LRW	TAL CAN

Client Sample ID: GW-101317-BE-024
Date Collected: 10/13/17 11:28
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300561	10/25/17 23:52	LRW	TAL CAN

Client Sample ID: GW-101317-BE-025
Date Collected: 10/13/17 13:08
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300561	10/25/17 18:21	LRW	TAL CAN

Client Sample ID: GW-101317-BE-026
Date Collected: 10/13/17 15:03
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	300561	10/25/17 18:43	LRW	TAL CAN

Client Sample ID: GW-101317-BE-027
Date Collected: 10/13/17 15:06
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	300561	10/25/17 19:05	LRW	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86639-2

Client Sample ID: GW-101617-BE-028
Lab Sample ID: 240-86639-7
Date Collected: 10/16/17 11:43
Matrix: Water
Date Received: 10/18/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300739	10/26/17 14:20	SAM	TAL CAN

Client Sample ID: EB-101617-BE-003
Lab Sample ID: 240-86639-8
Date Collected: 10/16/17 12:00
Matrix: Water
Date Received: 10/18/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300739	10/26/17 13:07	SAM	TAL CAN

Client Sample ID: GW-101617-BE-029
Lab Sample ID: 240-86639-9
Date Collected: 10/16/17 13:23
Matrix: Water
Date Received: 10/18/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300739	10/26/17 13:32	SAM	TAL CAN

Client Sample ID: GW-101617-BE-030
Lab Sample ID: 240-86639-10
Date Collected: 10/16/17 16:38
Matrix: Water
Date Received: 10/18/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300739	10/26/17 13:56	SAM	TAL CAN

Client Sample ID: GW-101617-BE-031
Lab Sample ID: 240-86639-11
Date Collected: 10/16/17 17:33
Matrix: Water
Date Received: 10/18/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		3.333	300739	10/26/17 15:35	SAM	TAL CAN

Client Sample ID: GW-101717-BE-032
Lab Sample ID: 240-86639-12
Date Collected: 10/17/17 10:43
Matrix: Water
Date Received: 10/18/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		166.667	300739	10/26/17 16:24	SAM	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86639-2

Client Sample ID: GW-101717-BE-033
Date Collected: 10/17/17 10:47
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		166.667	300739	10/26/17 16:49	SAM	TAL CAN

Client Sample ID: GW-101717-BE-034
Date Collected: 10/17/17 13:18
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	300739	10/26/17 17:13	SAM	TAL CAN

Client Sample ID: GW-101717-BE-035
Date Collected: 10/17/17 14:33
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	300739	10/26/17 16:00	SAM	TAL CAN

Client Sample ID: EB-101717-BE-004
Date Collected: 10/17/17 15:21
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300535	10/25/17 22:17	SAM	TAL CAN

Client Sample ID: GW-101717-BE-036
Date Collected: 10/17/17 16:00
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300535	10/25/17 22:43	SAM	TAL CAN

Client Sample ID: GW-101717-BE-037
Date Collected: 10/17/17 18:03
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300535	10/25/17 23:08	SAM	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86639-2

Client Sample ID: TB-101717-BE-004
Date Collected: 10/17/17 18:30
Date Received: 10/18/17 09:30

Lab Sample ID: 240-86639-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300535	10/25/17 21:53	SAM	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86639-2

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-18 *
West Virginia DEP	State Program	3	210	12-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

2.6/C2.6 1.8/C1.8

CHAIN OF CUSTODY RECORD

COC NO.: IN- 14977

PAGE 1 OF 3

(See Reverse Side for Instructions)

CONESTOGA-ROVERS & ASSOCIATES
6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

Project No/ Phase/Task Code: 017302-TO7	Laboratory Name: North America - N Canton	Lab Location: North Canton, OH	SSOW ID: 17302-TO7
Project Name: MLK	Lab Contact: Denise Hekler	Lab Quote No:	Cooler No: 1 of 2
Project Location: Anderson, IN			Carrier: fedex
Chemistry Contact: Deborah Andrasko			Airbill No:
Sampler(s): Brynn Einecker			Date Shipped: 10/17/17

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Sample Type: Matrix Code (see back of COC)	Sample Type: Grab (G) or Comp (C)	Container Quantity & Preservation: Unpreserved	HCl	HNO_3	H_2SO_4	NaOH	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	Analysis Requested: VOC	dissolved gas	TDC	DISS-DOC	MS/MSD Request	Comments/ Special Instructions:
1	GW-101317-BE-023	10/13/17	1013	WG	G		3							3	✓					
2	EB-101317-BE-002		1026				3							3	✓					
3	GW-101317-BE-024		1128				9							9	✓				✓	
4	GW-101317-BE-025		1308				3							3	✓					
5	GW-101317-BE-026		1503				3							3	✓					
6	GW-101317-BE-027		1506				3							3	✓					
7	GW-101617-BE-028	10/16/17	1143				9							9	✓				✓	
8	EB-101617-BE-003		1200				3							3	✓					
9	~~1323~~ GW-101617-BE-029		1323				3							3	✓					
10	GW-101617-BE-030		1638				3							3	✓					
11	GW-101617-BE-031		1733				3							3	✓					
12	GW-101717-BE-032	10/17/17	1043				6		6					12	✓	✓	✓	✓		
13	GW-101717-BE-033		1047				6		6					12	✓	✓	✓	✓		
14	GW-101717-BE-034		1318				6		6					12	✓	✓	✓	✓		
15	GW-101717-BE-035		1433				6		6					12	✓	✓	✓	✓		

240-86639 Chain of Custody

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 93

All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Brynn Einecker	GHD	10/17/17	1945	1.	TA	10-18-17	930
				2.			
				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

11/27/2017 (Rev. 1)

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES
6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: IN- 14979
PAGE 2 OF 3
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017302-T07	Laboratory Name: Test America Nashville	Lab Location: North Canton, OH	SSOW ID:
Project Name: MLK	Lab Contact: Denise Heckler	Lab Quote No:	Cooler No: 1 of 2
Project Location: Anderson, IN			Carrier: fedex
Chemistry Contact: Deborah Andrisko			Airbill No:
Sampler(s): Bryan Gierek			Date Shipped: 10/17/17

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh.mm)	Sample Type: Matrix Code (see back of COC)	Sample Type: Grab (G) or Comp (C)	Container Quantity & Preservation: Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	Analysis Requested: VOC	Dissolved Mercury	TOC	Diss-Doc	MS/MSD Request	Comments/ Special Instructions:
1	EB-101717-BE-004	10/17/17	1521	WG	G		3							3	✓					
2	GW-101717-BE-036	10/17/17	1608				6		6					12	✓	✓	✓	✓		
3	GW-101717-BE-037	10/17/17	1803				6		6					12	✓	✓	✓	✓		
4	TB-101717-BE-004	10/17/17	1830				1							1	✓					
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 28
All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Bryan Gierek	GHD	10/17/17	1945	1.	TA	10.18.17	930
				2.			
				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

CHAIN OF CUSTODY RECORD

COC NO.: IN- 14978

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(See Reverse Side for Instructions)

CONESTOGA-ROVERS & ASSOCIATES

6520 Corporate Drive, Indianapolis, Indiana 46278

Phone: (317) 291-7007 Fax: (317) 328-2666

Project No/ Phase/Task Code: 017302-007	**Laboratory Name:** TestAmerica North Canton	**Lab Location:** North Canton, OH	**SSOW ID:** 017302-007
Project Name: MLK	**Lab Contact:** Denise Heckler	**Lab Quote No:**	**Cooler No:** 1 of 2
Project Location: Anderson, IN			**Carrier:** fed ex
Chemistry Contact: Deborah, Andrasko			**Airbill No:**
Sampler(s): Bryan Eisecker			**Date Shipped:** 10/17/17

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Sample Type: Matrix Code (see back of COC)	Sample Type: Grab (G) or Comp (C)	Container Quantity & Preservation: Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	Analysis Requested: MLK, Diarb	Carb	Calc-Sulfide	Manganese-Dis	Hardness	Sulfate	Chloride	Nitrite, Nitrate			MS/MSD Request	Comments/ Special Instructions:
1	GW-101717-BE-032	10/17/17	1043	WG	G	2	X	2		1				5	✓	✓	✓	✓	✓	✓	✓	✓			
2	GW-101717-BE-033	"	1047	"	"	2	X	2		1				5	✓	✓	✓	✓	✓	✓	✓	✓			
3	GW-101717-BE-034	"	1318	"	"	2		2		1				5	✓	✓	✓	✓	✓	✓	✓	✓			
4	GW-101717-BE-035	"	1433	"	"	2		2		1				5	✓	✓	✓	✓	✓	✓	✓	✓			
5	GW-101717-BE-036	"	1608	"	"	2		2		1				5	✓	✓	✓	✓	✓	✓	✓				
6	GW-101717-BE-037	"	1803	"	"	2		2		1				5	✓	✓	✓	✓	✓	✓	✓	✓			
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14																									
15																									

TAT Required in business days (use separate COCs for different TATs):

☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 30

All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Bryan Eisecker	GHD	10/17/17	1945	1.	TA	10-18-17	930
				2.			
				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 486639**
Canton Facility

Client GHD Site Name

Cooler Received on 10-18-17 Opened on 10-18-17

Cooler unpacked by:

FedEx: 1st Grd ~~Exp~~ UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box ~~Client Cooler~~ Box Other

Packing material used: ~~Bubble Wrap~~ Foam Plastic Bag None Other

COOLANT: ~~Wet Ice~~ Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☑ See Multiple Cooler Form
   IR GUN# IR-8 (CF **+0** °C) Observed Cooler Temp. ~~2.6~~ °C Corrected Cooler Temp. ~~2.6~~ °C
   IR GUN #36 (CF **+0.3**°C) Observed Cooler Temp. °C Corrected Cooler Temp. °C
   IR GUN # 627 (CF **-1.3**°C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 2	~~Yes~~	No
-Were the seals on the outside of the cooler(s) signed & dated?	~~Yes~~	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	~~No~~
-Were tamper/custody seals intact and uncompromised?	~~Yes~~	No NA
3. Shippers' packing slip attached to the cooler(s)?	~~Yes~~	No
4. Did custody papers accompany the sample(s)?	~~Yes~~	No
5. Were the custody papers relinquished & signed in the appropriate place?	~~Yes~~	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	~~Yes~~	No
7. Did all bottles arrive in good condition (Unbroken)?	~~Yes~~	No
8. Could all bottle labels be reconciled with the COC?	~~Yes~~	No
9. Were correct bottle(s) used for the test(s) indicated?	~~Yes~~	No
10. Sufficient quantity received to perform indicated analyses?	~~Yes~~	No
11. Are these work share samples?	Yes	~~No~~

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

If yes, Questions 11-15 have been checked at the originating laboratory.

11. Were all preserved sample(s) at the correct pH upon receipt?	~~Yes~~	No	NA	pH Strip Lot# **HC697954**
12. Were VOAs on the COC?	~~Yes~~	No		
13. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	~~No~~	NA	
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	~~Yes~~	No		
15. Was a LL Hg or Me Hg trip blank present?	Yes	~~No~~		

Contacted PM DDH Date 10-18-17 by NS via Verbal ~~Voice Mail~~ Other

Concerning #16

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

Rec'd 6x40 DOC vials for -032, did not recv any
DOC vials for -033, no times written on Bottles, unable to determine
which 3 vials should be -033.

17. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.
Time preserved: Preservative(s) added/Lot number(s):

TestAmerica Multiple Cooler Receipt Form/Narrative **Login # :** 86639
Canton Facility

Cooler #	IR Gun #	Observed Temp °C	Corrected Temp °C	Coolant
Client	8	2.4	2.6	Ice
1	1	1.8	1.8	1

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
GW-101717-BE-032	240-86639-N-12	Plastic 250ml - with Nitric Acid	<2		
GW-101717-BE-032	240-86639-P-12	Plastic 500ml - with Zn Acetate and	>9		
GW-101717-BE-032	240-86639-Q-12	Plastic 500ml - with Nitric Acid	<2		
GW-101717-BE-033	240-86639-N-13	Plastic 250ml - with Nitric Acid	<2		
GW-101717-BE-033	240-86639-P-13	Plastic 500ml - with Zn Acetate and	>9		
GW-101717-BE-033	240-86639-Q-13	Plastic 500ml - with Nitric Acid	<2		
GW-101717-BE-034	240-86639-N-14	Plastic 250ml - with Nitric Acid	<2		
GW-101717-BE-034	240-86639-P-14	Plastic 500ml - with Zn Acetate and	>9		
GW-101717-BE-034	240-86639-Q-14	Plastic 500ml - with Nitric Acid	<2		
GW-101717-BE-035	240-86639-N-15	Plastic 250ml - with Nitric Acid	<2		
GW-101717-BE-035	240-86639-P-15	Plastic 500ml - with Zn Acetate and	>9		
GW-101717-BE-035	240-86639-Q-15	Plastic 500ml - with Nitric Acid	<2		
GW-101717-BE-036	240-86639-N-17	Plastic 250ml - with Nitric Acid	<2		
GW-101717-BE-036	240-86639-P-17	Plastic 500ml - with Zn Acetate and	>9		
GW-101717-BE-036	240-86639-Q-17	Plastic 500ml - with Nitric Acid	<2		
GW-101717-BE-037	240-86639-N-18	Plastic 250ml - with Nitric Acid	<2		
GW-101717-BE-037	240-86639-P-18	Plastic 500ml - with Zn Acetate and	>9		
GW-101717-BE-037	240-86639-Q-18	Plastic 500ml - with Nitric Acid	<2		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-86677-1
Client Project/Site: 17302, RACER Delphi Anderson

For:
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko

Denise D Heckler

Authorized for release by:
10/29/2017 1:41:19 PM

Denise Heckler, Project Manager II
(330)966-9477
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LINKS

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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.

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86677-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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	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)

Case Narrative

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86677-1

Job ID: 240-86677-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-86677-1

Comments
No additional comments.

Receipt
The samples were received on 10/19/2017 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

GC VOA
Method(s) RSK-175: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-300703.

Method(s) RSK-175: The associated RSK samples were analyzed following the requirements of a revised RSK SOP. Samples were analyzed to avoid hold time violations while the SOP is still waiting final approval signatures.

GW-101817-BE-039 (240-86677-2), GW-101817-BE-043 (240-86677-6), (CCV 240-300703/19), (CCV 240-300703/27), (CCVRT 240-300703/3), (LCS 240-300703/5), (LCSD 240-300703/6) and (MB 240-300703/4)

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.

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

Method Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86677-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
2320B-1997	Alkalinity, Total	SM	TAL CAN
2340C-1997	Hardness, Total	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL CAN
9060	Organic Carbon, Dissolved (DOC)	SW846	TAL CAN
9060	Organic Carbon, Total (TOC)	SW846	TAL CAN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86677-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-86677-2	GW-101817-BE-039	Water	10/18/17 11:00	10/19/17 09:10
240-86677-6	GW-101817-BE-043	Water	10/18/17 15:48	10/19/17 09:10

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86677-1

Client Sample ID: GW-101817-BE-039 — Lab Sample ID: 240-86677-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	2.1		1.0	0.17	ug/L	1		RSK-175	Total/NA
Manganese	240		15	5.1	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	330		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	410		25	12	mg/L	1		2340C-1997	Total/NA
Chloride	41		1.0	0.28	mg/L	1		300.0	Total/NA
Sulfate	51		1.0	0.35	mg/L	1		300.0	Total/NA
Total Organic Carbon	3.5		1.0	0.14	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	5.0		1.0	0.14	mg/L	1		9060	Dissolved

Client Sample ID: GW-101817-BE-043 — Lab Sample ID: 240-86677-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	57		1.0	0.17	ug/L	1		RSK-175	Total/NA
Ethane	5.2		1.0	0.10	ug/L	1		RSK-175	Total/NA
Ethylene	7.2		1.0	0.11	ug/L	1		RSK-175	Total/NA
Manganese	310		15	5.1	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	380		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	490		25	12	mg/L	1		2340C-1997	Total/NA
Chloride	32		1.0	0.28	mg/L	1		300.0	Total/NA
Sulfate	94		1.0	0.35	mg/L	1		300.0	Total/NA
Total Organic Carbon	3.9		1.0	0.14	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	3.7		1.0	0.14	mg/L	1		9060	Dissolved

This Detection Summary does not include radiochemical test results.

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86677-1

Method: RSK-175 - Dissolved Gases (GC)

Client Sample ID: GW-101817-BE-039
Date Collected: 10/18/17 11:00
Date Received: 10/19/17 09:10

Lab Sample ID: 240-86677-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**2.1**		1.0	0.17	ug/L			10/26/17 17:07	1
Ethane	1.0	U	1.0	0.10	ug/L			10/26/17 17:07	1
Ethylene	1.0	U	1.0	0.11	ug/L			10/26/17 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*84*		*60 - 140*		*10/26/17 17:07*	*1*

Client Sample ID: GW-101817-BE-043
Date Collected: 10/18/17 15:48
Date Received: 10/19/17 09:10

Lab Sample ID: 240-86677-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**57**		1.0	0.17	ug/L			10/26/17 17:24	1
Ethane	**5.2**		1.0	0.10	ug/L			10/26/17 17:24	1
Ethylene	**7.2**		1.0	0.11	ug/L			10/26/17 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*85*		*60 - 140*		*10/26/17 17:24*	*1*

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86677-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-101817-BE-039
Date Collected: 10/18/17 11:00
Date Received: 10/19/17 09:10

Lab Sample ID: 240-86677-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	240		15	5.1	ug/L		10/20/17 14:00	10/23/17 17:07	1

Client Sample ID: GW-101817-BE-043
Date Collected: 10/18/17 15:48
Date Received: 10/19/17 09:10

Lab Sample ID: 240-86677-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	310		15	5.1	ug/L		10/20/17 14:00	10/23/17 18:26	1

General Chemistry

Client Sample ID: GW-101817-BE-039
Date Collected: 10/18/17 11:00
Date Received: 10/19/17 09:10

Lab Sample ID: 240-86677-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**330**		5.0	2.6	mg/L			10/26/17 19:46	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/26/17 19:46	1
Hardness as calcium carbonate	**410**		25	12	mg/L			10/25/17 18:15	1
Chloride	**41**		1.0	0.28	mg/L			10/19/17 17:09	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/19/17 17:09	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/19/17 17:09	1
Sulfate	**51**		1.0	0.35	mg/L			10/19/17 17:09	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/20/17 10:57	10/20/17 14:18	1
Total Organic Carbon	**3.5**		1.0	0.14	mg/L			10/23/17 15:15	1

Client Sample ID: GW-101817-BE-043
Date Collected: 10/18/17 15:48
Date Received: 10/19/17 09:10

Lab Sample ID: 240-86677-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**380**		5.0	2.6	mg/L			10/26/17 20:00	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/26/17 20:00	1
Hardness as calcium carbonate	**490**		25	12	mg/L			10/25/17 18:15	1
Chloride	**32**		1.0	0.28	mg/L			10/19/17 17:50	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/19/17 17:50	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/19/17 17:50	1
Sulfate	**94**		1.0	0.35	mg/L			10/19/17 17:50	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/20/17 10:57	10/20/17 14:18	1
Total Organic Carbon	**3.9**		1.0	0.14	mg/L			10/23/17 15:42	1

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86677-1

General Chemistry - Dissolved

Client Sample ID: GW-101817-BE-039
Date Collected: 10/18/17 11:00
Date Received: 10/19/17 09:10

Lab Sample ID: 240-86677-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	5.0		1.0	0.14	mg/L			10/26/17 09:56	1

Client Sample ID: GW-101817-BE-043
Date Collected: 10/18/17 15:48
Date Received: 10/19/17 09:10

Lab Sample ID: 240-86677-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	3.7		1.0	0.14	mg/L			10/26/17 10:24	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86677-1

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	rifluoroet (60-140)
240-86677-2	GW-101817-BE-039	84
240-86677-6	GW-101817-BE-043	85
LCS 240-300703/5	Lab Control Sample	88
LCSD 240-300703/6	Lab Control Sample Dup	86
MB 240-300703/4	Method Blank	89

Surrogate Legend

1,1,1-Trifluoroethane = 1,1,1-Trifluoroethane

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 240-300703/4
Matrix: Water
Analysis Batch: 300703

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	1.0	U	1.0	0.17	ug/L			10/26/17 12:16	1
Ethane	1.0	U	1.0	0.10	ug/L			10/26/17 12:16	1
Ethylene	1.0	U	1.0	0.11	ug/L			10/26/17 12:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*89*		*60 - 140*		*10/26/17 12:16*	*1*

Lab Sample ID: LCS 240-300703/5
Matrix: Water
Analysis Batch: 300703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	285	288		ug/L		101	80 - 120
Ethane	536	576		ug/L		107	80 - 120
Ethylene	501	533		ug/L		106	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,1,1-Trifluoroethane	*88*		*60 - 140*

Lab Sample ID: LCSD 240-300703/6
Matrix: Water
Analysis Batch: 300703

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane	285	288		ug/L		101	80 - 120	0	35
Ethane	536	579		ug/L		108	80 - 120	1	35
Ethylene	501	532		ug/L		106	80 - 120	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,1,1-Trifluoroethane	*86*		*60 - 140*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-299988/1-A
Matrix: Water
Analysis Batch: 300202

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 299988

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	15	U	15	5.1	ug/L		10/20/17 14:00	10/23/17 16:58	1

Lab Sample ID: LCS 240-299988/2-A
Matrix: Water
Analysis Batch: 300202

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 299988

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	500	519		ug/L		104	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 240-86677-2 MS
Matrix: Water
Analysis Batch: 300202

Client Sample ID: GW-101817-BE-039
Prep Type: Dissolved
Prep Batch: 299988

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	240		500	764		ug/L		106	75 - 125

Lab Sample ID: 240-86677-2 MSD
Matrix: Water
Analysis Batch: 300202

Client Sample ID: GW-101817-BE-039
Prep Type: Dissolved
Prep Batch: 299988

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	240		500	769		ug/L		107	75 - 125	1	20

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-300884/5
Matrix: Water
Analysis Batch: 300884

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/26/17 16:49	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/26/17 16:49	1

Method: 2340C-1997 - Hardness, Total

Lab Sample ID: MB 240-300626/1
Matrix: Water
Analysis Batch: 300626

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	5.0	U	5.0	2.4	mg/L			10/25/17 18:15	1

Lab Sample ID: LCS 240-300626/2
Matrix: Water
Analysis Batch: 300626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness as calcium carbonate	184	196		mg/L		107	90 - 110

Lab Sample ID: 240-86677-2 MS
Matrix: Water
Analysis Batch: 300626

Client Sample ID: GW-101817-BE-039
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness as calcium carbonate	410		1000	1420		mg/L		101	80 - 120

Lab Sample ID: 240-86677-2 MSD
Matrix: Water
Analysis Batch: 300626

Client Sample ID: GW-101817-BE-039
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hardness as calcium carbonate	410		1000	1410		mg/L		100	80 - 120	1	10

Method: 2340C-1997 - Hardness, Total (Continued)

Lab Sample ID: 240-86677-6 DU
Matrix: Water
Analysis Batch: 300626

Client Sample ID: GW-101817-BE-043
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Hardness as calcium carbonate	490			500		mg/L				2	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-299820/3
Matrix: Water
Analysis Batch: 299820

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.28	mg/L			10/19/17 15:08	1
Sulfate	1.0	U	1.0	0.35	mg/L			10/19/17 15:08	1

Lab Sample ID: LCS 240-299820/4
Matrix: Water
Analysis Batch: 299820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			50.0	49.5		mg/L		99	90 - 110		
Sulfate			50.0	51.3		mg/L		103	90 - 110		

Lab Sample ID: MB 240-299821/3
Matrix: Water
Analysis Batch: 299821

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/19/17 15:08	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/19/17 15:08	1

Lab Sample ID: LCS 240-299821/4
Matrix: Water
Analysis Batch: 299821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrite as N			2.50	2.41		mg/L		97	90 - 110		
Nitrate as N			2.50	2.49		mg/L		100	90 - 110		

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-299978/1-A
Matrix: Water
Analysis Batch: 300019

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 299978

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	3.0	U	3.0	1.4	mg/L		10/20/17 10:57	10/20/17 14:18	1

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: LCS 240-299978/2-A
Matrix: Water
Analysis Batch: 300019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 299978

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	7.73	6.13		mg/L		79	70 - 120

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 240-300315/4
Matrix: Water
Analysis Batch: 300315

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.14	mg/L			10/23/17 10:40	1

Lab Sample ID: LCS 240-300315/6
Matrix: Water
Analysis Batch: 300315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	21.8	22.4		mg/L		103	80 - 120

Lab Sample ID: LLCS 240-300315/5
Matrix: Water
Analysis Batch: 300315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	2.18	2.35		mg/L		108	88 - 115

Method: 9060 - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 240-300752/4
Matrix: Water
Analysis Batch: 300752

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.0	U	1.0	0.14	mg/L			10/26/17 06:23	1

Lab Sample ID: LLCS 240-300752/5
Matrix: Water
Analysis Batch: 300752

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	2.18	2.35		mg/L		108	88 - 115

QC Association Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86677-1

GC VOA

Analysis Batch: 300703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86677-2	GW-101817-BE-039	Total/NA	Water	RSK-175	
240-86677-6	GW-101817-BE-043	Total/NA	Water	RSK-175	
MB 240-300703/4	Method Blank	Total/NA	Water	RSK-175	
LCS 240-300703/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 240-300703/6	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Metals

Prep Batch: 299988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86677-2	GW-101817-BE-039	Dissolved	Water	3005A	
240-86677-6	GW-101817-BE-043	Dissolved	Water	3005A	
MB 240-299988/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-299988/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-86677-2 MS	GW-101817-BE-039	Dissolved	Water	3005A	
240-86677-2 MSD	GW-101817-BE-039	Dissolved	Water	3005A	

Analysis Batch: 300202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86677-2	GW-101817-BE-039	Dissolved	Water	6010B	299988
240-86677-6	GW-101817-BE-043	Dissolved	Water	6010B	299988
MB 240-299988/1-A	Method Blank	Total Recoverable	Water	6010B	299988
LCS 240-299988/2-A	Lab Control Sample	Total Recoverable	Water	6010B	299988
240-86677-2 MS	GW-101817-BE-039	Dissolved	Water	6010B	299988
240-86677-2 MSD	GW-101817-BE-039	Dissolved	Water	6010B	299988

General Chemistry

Analysis Batch: 299820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86677-2	GW-101817-BE-039	Total/NA	Water	300.0	
240-86677-6	GW-101817-BE-043	Total/NA	Water	300.0	
MB 240-299820/3	Method Blank	Total/NA	Water	300.0	
LCS 240-299820/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 299821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86677-2	GW-101817-BE-039	Total/NA	Water	300.0	
240-86677-6	GW-101817-BE-043	Total/NA	Water	300.0	
MB 240-299821/3	Method Blank	Total/NA	Water	300.0	
LCS 240-299821/4	Lab Control Sample	Total/NA	Water	300.0	

Prep Batch: 299978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86677-2	GW-101817-BE-039	Total/NA	Water	9030B	
240-86677-6	GW-101817-BE-043	Total/NA	Water	9030B	
MB 240-299978/1-A	Method Blank	Total/NA	Water	9030B	
LCS 240-299978/2-A	Lab Control Sample	Total/NA	Water	9030B	

General Chemistry (Continued)

Analysis Batch: 300019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86677-2	GW-101817-BE-039	Total/NA	Water	9034	299978
240-86677-6	GW-101817-BE-043	Total/NA	Water	9034	299978
MB 240-299978/1-A	Method Blank	Total/NA	Water	9034	299978
LCS 240-299978/2-A	Lab Control Sample	Total/NA	Water	9034	299978

Analysis Batch: 300315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86677-2	GW-101817-BE-039	Total/NA	Water	9060	
240-86677-6	GW-101817-BE-043	Total/NA	Water	9060	
MB 240-300315/4	Method Blank	Total/NA	Water	9060	
LCS 240-300315/6	Lab Control Sample	Total/NA	Water	9060	
LLCS 240-300315/5	Lab Control Sample	Total/NA	Water	9060	

Analysis Batch: 300626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86677-2	GW-101817-BE-039	Total/NA	Water	2340C-1997	
240-86677-6	GW-101817-BE-043	Total/NA	Water	2340C-1997	
MB 240-300626/1	Method Blank	Total/NA	Water	2340C-1997	
LCS 240-300626/2	Lab Control Sample	Total/NA	Water	2340C-1997	
240-86677-2 MS	GW-101817-BE-039	Total/NA	Water	2340C-1997	
240-86677-2 MSD	GW-101817-BE-039	Total/NA	Water	2340C-1997	
240-86677-6 DU	GW-101817-BE-043	Total/NA	Water	2340C-1997	

Analysis Batch: 300752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86677-2	GW-101817-BE-039	Dissolved	Water	9060	
240-86677-6	GW-101817-BE-043	Dissolved	Water	9060	
MB 240-300752/4	Method Blank	Dissolved	Water	9060	
LLCS 240-300752/5	Lab Control Sample	Dissolved	Water	9060	

Analysis Batch: 300884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86677-2	GW-101817-BE-039	Total/NA	Water	2320B-1997	
240-86677-6	GW-101817-BE-043	Total/NA	Water	2320B-1997	
MB 240-300884/5	Method Blank	Total/NA	Water	2320B-1997	
LCS 240-300884/4	Lab Control Sample	Total/NA	Water	2320B-1997	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86677-1

Client Sample ID: GW-101817-BE-039

Lab Sample ID: 240-86677-2

Date Collected: 10/18/17 11:00

Matrix: Water

Date Received: 10/19/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	300703	10/26/17 17:07	BPM	TAL CAN
Dissolved	Prep	3005A			299988	10/20/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	300202	10/23/17 17:07	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	300884	10/26/17 19:46	LKG	TAL CAN
Total/NA	Analysis	2340C-1997		1	300626	10/25/17 18:15	CL	TAL CAN
Total/NA	Analysis	300.0		1	299820	10/19/17 17:09	JWW	TAL CAN
Total/NA	Analysis	300.0		1	299821	10/19/17 17:09	JWW	TAL CAN
Total/NA	Prep	9030B			299978	10/20/17 10:57	CL	TAL CAN
Total/NA	Analysis	9034		1	300019	10/20/17 14:18	CL	TAL CAN
Dissolved	Analysis	9060		1	300752	10/26/17 09:56	TPH	TAL CAN
Total/NA	Analysis	9060		1	300315	10/23/17 15:15	TPH	TAL CAN

Client Sample ID: GW-101817-BE-043

Lab Sample ID: 240-86677-6

Date Collected: 10/18/17 15:48

Matrix: Water

Date Received: 10/19/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	300703	10/26/17 17:24	BPM	TAL CAN
Dissolved	Prep	3005A			299988	10/20/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	300202	10/23/17 18:26	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	300884	10/26/17 20:00	LKG	TAL CAN
Total/NA	Analysis	2340C-1997		1	300626	10/25/17 18:15	CL	TAL CAN
Total/NA	Analysis	300.0		1	299820	10/19/17 17:50	JWW	TAL CAN
Total/NA	Analysis	300.0		1	299821	10/19/17 17:50	JWW	TAL CAN
Total/NA	Prep	9030B			299978	10/20/17 10:57	CL	TAL CAN
Total/NA	Analysis	9034		1	300019	10/20/17 14:18	CL	TAL CAN
Dissolved	Analysis	9060		1	300752	10/26/17 10:24	TPH	TAL CAN
Total/NA	Analysis	9060		1	300315	10/23/17 15:42	TPH	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86677-1

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-18 *
West Virginia DEP	State Program	3	210	12-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

2,8/C2,8

CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: IN- 14980
PAGE 1 OF 1
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017302 -T07	Laboratory Name: TestAmerica Nashville	Lab Location: Northampton, OH	SSOW ID: 017302 T07
Project Name: MLK	Lab Contact: Denise Heckler	Lab Quote No:	Cooler No: 1 of 1
Project Location: Anderson, IN			Carrier: Fedex
Chemistry Contact: Deborah Andrasko			Airbill No:
Sampler(s): Brynn Eineker			Date Shipped:

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd//yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	1,4 VOC	TOC	diss DOC	dissolved gas	diss Manganese	CAC - Sulfide	Chloride, Nitrate, Nitrite, Sulfate	Hardness	MLK, barium & cations	MS/MSD Request	Comments/ Special Instructions:
1	GW-101817-BE-038	10/18/17	1007	GW	G		3							3	✓										
2	GW-101817-BE-039	10/18/17	11:00	WG	G	2	6	2	6	1				17	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	GW-101817-BE-040	10/18/17	1323	WG	G		3							3	✓										
4	GW-101817-BE-041	10/18/17	1326	WG	G		3							3	✓										
5	GW-101817-BE-042	10/18/17	1508	WG	G		3							3	✓										
6	GW-101817-BE-043	10/18/17	1548	WG	G	2	6	2	6	1				17	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
7	GW-101817-BE-044	10/18/17	1652	WG	G		3							3	✓										
8	TB-101817-BE-005	10/18/17	1730	WG	G		1							1	✓										
9																									
10																									
11																									
12																									
13																									
14																									
15																									

240-86677 Chain of Custody

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 50

All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1. Brynn Eineker	GHD	10/18/17	1800	1. POP	TAL	10-19-17	910
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

TestAmerica Canton Sample Receipt Form/Narrative **Login # :** 86677
Canton Facility

Client CRA Site Name —

Cooler Received on 10-19-17 Opened on 10-19-17

Cooler unpacked by: BP

FedEx: 1st Grd (Exp) UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box (Client Cooler) Box Other

Packing material used: (Bubble Wrap) Foam (Plastic Bag) None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp. 2.8 °C Corrected Cooler Temp. 2.8 °C

IR GUN #36 (CF +0.3°C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C

IR GUN # 627 (CF -1.3°C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes) No	
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes) No	NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes (No)	
-Were tamper/custody seals intact and uncompromised?	(Yes) No	NA
3. Shippers' packing slip attached to the cooler(s)?	(Yes) No	
4. Did custody papers accompany the sample(s)?	(Yes) No	
5. Were the custody papers relinquished & signed in the appropriate place?	(Yes) No	
6. Was/were the person(s) who collected the samples clearly identified on the COC?	(Yes) No	
7. Did all bottles arrive in good condition (Unbroken)?	(Yes) No	
8. Could all bottle labels be reconciled with the COC?	(Yes) No	
9. Were correct bottle(s) used for the test(s) indicated?	(Yes) No	
10. Sufficient quantity received to perform indicated analyses?	(Yes) No	
11. Are these work share samples?	Yes (No)	

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

If yes, Questions 11-15 have been checked at the originating laboratory.

11. Were all preserved sample(s) at the correct pH upon receipt?	(Yes) No	NA pH Strip Lot# **HC697954**
12. Were VOAs on the COC?	(Yes) No	
13. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes (No)	NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # COVERED	(Yes) No	
15. Was a LL Hg or Me Hg trip blank present? ____	Yes (No)	

Contacted PM ____ Date ____ by ____ via Verbal Voice Mail Other

Concerning ____

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

17. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.

Sample(s) ____ were received in a broken container.

Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in the laboratory.

Time preserved: ____ Preservative(s) added/Lot number(s): ____

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
GW-101817-BE-039	240-86677-N-2	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-101817-BE-039	240-86677-P-2	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-101817-BE-039	240-86677-Q-2	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-101817-BE-043	240-86677-N-6	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-101817-BE-043	240-86677-P-6	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-101817-BE-043	240-86677-Q-6	Plastic 500ml - with Nitric Acid	<2	_____	_____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-86677-2
Client Project/Site: 17302, RACER Delphi Anderson
Revision: 1

For:
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko

Denise D Heckler

Authorized for release by:
11/27/2017 2:30:43 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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.

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86677-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
B	Compound was found in the blank and sample.
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	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)

Case Narrative

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86677-2

Job ID: 240-86677-2

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-86677-2

Comments
A revised report was provided on November 27, 2017. The correct compound list was reported.

Receipt
The samples were received on 10/19/2017 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

GC/MS VOA
Method(s) 8260B: The method blank for preparation batch 240-300804 contained Methylene Chloride above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed: GW-101817-BE-038 (240-86677-1), GW-101817-BE-039 (240-86677-2), GW-101817-BE-040 (240-86677-3) and (MB 240-300804/6).

Method(s) 8260B: The method blank for analytical batch 240-300954 contained Methylene Chloride above the reporting limit (RL). This compound is considered a common laboratory contaminant. The associated sample(s) was not re-extracted and/or re-analyzed because the concentration of the common lab contaminant in the method blank was less than 5 times the RL: GW-101817-BE-041 (240-86677-4), GW-101817-BE-042 (240-86677-5), GW-101817-BE-043 (240-86677-6), GW-101817-BE-044 (240-86677-7), TB-101817-BE-005 (240-86677-8) and (MB 240-300954/6).

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

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

Method Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86677-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN

Protocol References:

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

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86677-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-86677-1	GW-101817-BE-038	Water	10/18/17 10:07	10/19/17 09:10
240-86677-2	GW-101817-BE-039	Water	10/18/17 11:00	10/19/17 09:10
240-86677-3	GW-101817-BE-040	Water	10/18/17 13:23	10/19/17 09:10
240-86677-4	GW-101817-BE-041	Water	10/18/17 13:26	10/19/17 09:10
240-86677-5	GW-101817-BE-042	Water	10/18/17 15:08	10/19/17 09:10
240-86677-6	GW-101817-BE-043	Water	10/18/17 15:48	10/19/17 09:10
240-86677-7	GW-101817-BE-044	Water	10/18/17 16:52	10/19/17 09:10
240-86677-8	TB-101817-BE-005	Water	10/18/17 17:30	10/19/17 09:10

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86677-2

Client Sample ID: GW-101817-BE-038 — Lab Sample ID: 240-86677-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.7		1.0	0.30	ug/L	1		8260B	Total/NA

Client Sample ID: GW-101817-BE-039 — Lab Sample ID: 240-86677-2

No Detections.

Client Sample ID: GW-101817-BE-040 — Lab Sample ID: 240-86677-3

No Detections.

Client Sample ID: GW-101817-BE-041 — Lab Sample ID: 240-86677-4

No Detections.

Client Sample ID: GW-101817-BE-042 — Lab Sample ID: 240-86677-5

No Detections.

Client Sample ID: GW-101817-BE-043 — Lab Sample ID: 240-86677-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	3.7	B	3.3	1.8	ug/L	3.33		8260B	Total/NA
Vinyl chloride	96		3.3	1.5	ug/L	3.33		8260B	Total/NA

Client Sample ID: GW-101817-BE-044 — Lab Sample ID: 240-86677-7

No Detections.

Client Sample ID: TB-101817-BE-005 — Lab Sample ID: 240-86677-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.5	J	10	1.8	ug/L	1		8260B	Total/NA
Methylene Chloride	1.3	B	1.0	0.53	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: GW-101817-BE-038
Date Collected: 10/18/17 10:07
Date Received: 10/19/17 09:10

Lab Sample ID: 240-86677-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			10/27/17 01:08	1
Benzene	1.0	U	1.0	0.28	ug/L			10/27/17 01:08	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/27/17 01:08	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/27/17 01:08	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/27/17 01:08	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/27/17 01:08	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/27/17 01:08	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/27/17 01:08	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/27/17 01:08	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/27/17 01:08	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/27/17 01:08	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/27/17 01:08	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/27/17 01:08	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/27/17 01:08	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/27/17 01:08	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/27/17 01:08	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/27/17 01:08	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/27/17 01:08	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/27/17 01:08	1
2-Hexanone	10	U	10	1.2	ug/L			10/27/17 01:08	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			10/27/17 01:08	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/27/17 01:08	1
Styrene	1.0	U	1.0	0.23	ug/L			10/27/17 01:08	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/27/17 01:08	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/27/17 01:08	1
Toluene	1.0	U	1.0	0.23	ug/L			10/27/17 01:08	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/27/17 01:08	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/27/17 01:08	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/27/17 01:08	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/27/17 01:08	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/27/17 01:08	1
cis-1,2-Dichloroethene	**2.7**		1.0	0.30	ug/L			10/27/17 01:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/27/17 01:08	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/27/17 01:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*61 - 138*		*10/27/17 01:08*	*1*
4-Bromofluorobenzene (Surr)	*106*		*69 - 120*		*10/27/17 01:08*	*1*
Toluene-d8 (Surr)	*91*		*73 - 120*		*10/27/17 01:08*	*1*
Dibromofluoromethane (Surr)	*104*		*69 - 124*		*10/27/17 01:08*	*1*

Client Sample ID: GW-101817-BE-039
Date Collected: 10/18/17 11:00
Date Received: 10/19/17 09:10

Lab Sample ID: 240-86677-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			10/27/17 01:30	1
Benzene	1.0	U	1.0	0.28	ug/L			10/27/17 01:30	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/27/17 01:30	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/27/17 01:30	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/27/17 01:30	1

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

Client Sample ID: GW-101817-BE-039
Date Collected: 10/18/17 11:00
Date Received: 10/19/17 09:10

Lab Sample ID: 240-86677-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/27/17 01:30	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/27/17 01:30	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/27/17 01:30	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/27/17 01:30	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/27/17 01:30	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/27/17 01:30	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/27/17 01:30	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/27/17 01:30	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/27/17 01:30	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/27/17 01:30	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/27/17 01:30	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/27/17 01:30	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/27/17 01:30	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/27/17 01:30	1
2-Hexanone	10	U	10	1.2	ug/L			10/27/17 01:30	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			10/27/17 01:30	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/27/17 01:30	1
Styrene	1.0	U	1.0	0.23	ug/L			10/27/17 01:30	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/27/17 01:30	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/27/17 01:30	1
Toluene	1.0	U	1.0	0.23	ug/L			10/27/17 01:30	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/27/17 01:30	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/27/17 01:30	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/27/17 01:30	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/27/17 01:30	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/27/17 01:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/27/17 01:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/27/17 01:30	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/27/17 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*61 - 138*		*10/27/17 01:30*	*1*
4-Bromofluorobenzene (Surr)	*106*		*69 - 120*		*10/27/17 01:30*	*1*
Toluene-d8 (Surr)	*91*		*73 - 120*		*10/27/17 01:30*	*1*
Dibromofluoromethane (Surr)	*107*		*69 - 124*		*10/27/17 01:30*	*1*

Client Sample ID: GW-101817-BE-040
Date Collected: 10/18/17 13:23
Date Received: 10/19/17 09:10

Lab Sample ID: 240-86677-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			10/27/17 02:17	1
Benzene	1.0	U	1.0	0.28	ug/L			10/27/17 02:17	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/27/17 02:17	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/27/17 02:17	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/27/17 02:17	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/27/17 02:17	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/27/17 02:17	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/27/17 02:17	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/27/17 02:17	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/27/17 02:17	1

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

Client Sample ID: GW-101817-BE-040
Date Collected: 10/18/17 13:23
Date Received: 10/19/17 09:10

Lab Sample ID: 240-86677-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	1.0	U	1.0	0.31	ug/L			10/27/17 02:17	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/27/17 02:17	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/27/17 02:17	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/27/17 02:17	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/27/17 02:17	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/27/17 02:17	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/27/17 02:17	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/27/17 02:17	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/27/17 02:17	1
2-Hexanone	10	U	10	1.2	ug/L			10/27/17 02:17	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			10/27/17 02:17	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/27/17 02:17	1
Styrene	1.0	U	1.0	0.23	ug/L			10/27/17 02:17	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/27/17 02:17	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/27/17 02:17	1
Toluene	1.0	U	1.0	0.23	ug/L			10/27/17 02:17	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/27/17 02:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/27/17 02:17	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/27/17 02:17	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/27/17 02:17	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/27/17 02:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/27/17 02:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/27/17 02:17	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/27/17 02:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*61 - 138*		*10/27/17 02:17*	*1*
4-Bromofluorobenzene (Surr)	*97*		*69 - 120*		*10/27/17 02:17*	*1*
Toluene-d8 (Surr)	*94*		*73 - 120*		*10/27/17 02:17*	*1*
Dibromofluoromethane (Surr)	*97*		*69 - 124*		*10/27/17 02:17*	*1*

Client Sample ID: GW-101817-BE-041
Date Collected: 10/18/17 13:26
Date Received: 10/19/17 09:10

Lab Sample ID: 240-86677-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			10/27/17 15:36	1
Benzene	1.0	U	1.0	0.28	ug/L			10/27/17 15:36	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/27/17 15:36	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/27/17 15:36	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/27/17 15:36	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/27/17 15:36	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/27/17 15:36	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/27/17 15:36	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/27/17 15:36	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/27/17 15:36	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/27/17 15:36	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/27/17 15:36	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/27/17 15:36	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/27/17 15:36	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/27/17 15:36	1

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

Client Sample ID: GW-101817-BE-041
Date Collected: 10/18/17 13:26
Date Received: 10/19/17 09:10

Lab Sample ID: 240-86677-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/27/17 15:36	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/27/17 15:36	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/27/17 15:36	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/27/17 15:36	1
2-Hexanone	10	U	10	1.2	ug/L			10/27/17 15:36	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			10/27/17 15:36	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/27/17 15:36	1
Styrene	1.0	U	1.0	0.23	ug/L			10/27/17 15:36	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/27/17 15:36	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/27/17 15:36	1
Toluene	1.0	U	1.0	0.23	ug/L			10/27/17 15:36	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/27/17 15:36	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/27/17 15:36	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/27/17 15:36	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/27/17 15:36	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/27/17 15:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/27/17 15:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/27/17 15:36	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/27/17 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*61 - 138*		*10/27/17 15:36*	*1*
4-Bromofluorobenzene (Surr)	*110*		*69 - 120*		*10/27/17 15:36*	*1*
Toluene-d8 (Surr)	*94*		*73 - 120*		*10/27/17 15:36*	*1*
Dibromofluoromethane (Surr)	*118*		*69 - 124*		*10/27/17 15:36*	*1*

Client Sample ID: GW-101817-BE-042
Date Collected: 10/18/17 15:08
Date Received: 10/19/17 09:10

Lab Sample ID: 240-86677-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			10/27/17 15:58	1
Benzene	1.0	U	1.0	0.28	ug/L			10/27/17 15:58	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/27/17 15:58	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/27/17 15:58	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/27/17 15:58	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/27/17 15:58	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/27/17 15:58	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/27/17 15:58	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/27/17 15:58	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/27/17 15:58	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/27/17 15:58	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/27/17 15:58	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/27/17 15:58	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/27/17 15:58	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/27/17 15:58	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/27/17 15:58	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/27/17 15:58	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/27/17 15:58	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/27/17 15:58	1
2-Hexanone	10	U	10	1.2	ug/L			10/27/17 15:58	1

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

Client Sample ID: GW-101817-BE-042
Date Collected: 10/18/17 15:08
Date Received: 10/19/17 09:10

Lab Sample ID: 240-86677-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.0	U	1.0	0.53	ug/L			10/27/17 15:58	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/27/17 15:58	1
Styrene	1.0	U	1.0	0.23	ug/L			10/27/17 15:58	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/27/17 15:58	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/27/17 15:58	1
Toluene	1.0	U	1.0	0.23	ug/L			10/27/17 15:58	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/27/17 15:58	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/27/17 15:58	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/27/17 15:58	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/27/17 15:58	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/27/17 15:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/27/17 15:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/27/17 15:58	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/27/17 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*61 - 138*		*10/27/17 15:58*	*1*
4-Bromofluorobenzene (Surr)	*108*		*69 - 120*		*10/27/17 15:58*	*1*
Toluene-d8 (Surr)	*97*		*73 - 120*		*10/27/17 15:58*	*1*
Dibromofluoromethane (Surr)	*106*		*69 - 124*		*10/27/17 15:58*	*1*

Client Sample ID: GW-101817-BE-043
Date Collected: 10/18/17 15:48
Date Received: 10/19/17 09:10

Lab Sample ID: 240-86677-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	33	U	33	5.9	ug/L			10/27/17 16:20	3.33
Benzene	3.3	U	3.3	0.93	ug/L			10/27/17 16:20	3.33
Dichlorobromomethane	3.3	U	3.3	1.0	ug/L			10/27/17 16:20	3.33
Bromoform	3.3	U	3.3	1.4	ug/L			10/27/17 16:20	3.33
Bromomethane	3.3	U	3.3	1.4	ug/L			10/27/17 16:20	3.33
2-Butanone (MEK)	33	U	33	3.4	ug/L			10/27/17 16:20	3.33
Carbon disulfide	3.3	U	3.3	1.1	ug/L			10/27/17 16:20	3.33
Carbon tetrachloride	3.3	U	3.3	1.2	ug/L			10/27/17 16:20	3.33
Chlorobenzene	3.3	U	3.3	1.1	ug/L			10/27/17 16:20	3.33
Chloroethane	3.3	U	3.3	1.4	ug/L			10/27/17 16:20	3.33
Chloroform	3.3	U	3.3	1.0	ug/L			10/27/17 16:20	3.33
Chloromethane	3.3	U	3.3	1.4	ug/L			10/27/17 16:20	3.33
1,1-Dichloroethane	3.3	U	3.3	0.83	ug/L			10/27/17 16:20	3.33
1,2-Dichloroethane	3.3	U	3.3	1.0	ug/L			10/27/17 16:20	3.33
1,1-Dichloroethene	3.3	U	3.3	0.90	ug/L			10/27/17 16:20	3.33
1,2-Dichloropropane	3.3	U	3.3	1.0	ug/L			10/27/17 16:20	3.33
cis-1,3-Dichloropropene	3.3	U	3.3	0.87	ug/L			10/27/17 16:20	3.33
trans-1,3-Dichloropropene	3.3	U	3.3	1.0	ug/L			10/27/17 16:20	3.33
Ethylbenzene	3.3	U	3.3	0.87	ug/L			10/27/17 16:20	3.33
2-Hexanone	33	U	33	4.1	ug/L			10/27/17 16:20	3.33
Methylene Chloride	**3.7**	**B**	3.3	1.8	ug/L			10/27/17 16:20	3.33
4-Methyl-2-pentanone (MIBK)	33	U	33	2.4	ug/L			10/27/17 16:20	3.33
Styrene	3.3	U	3.3	0.77	ug/L			10/27/17 16:20	3.33
1,1,2,2-Tetrachloroethane	3.3	U	3.3	1.1	ug/L			10/27/17 16:20	3.33
Tetrachloroethene	3.3	U	3.3	1.0	ug/L			10/27/17 16:20	3.33

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

Client Sample ID: GW-101817-BE-043
Date Collected: 10/18/17 15:48
Date Received: 10/19/17 09:10

Lab Sample ID: 240-86677-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	3.3	U	3.3	0.77	ug/L			10/27/17 16:20	3.33
Trichloroethene	3.3	U	3.3	1.1	ug/L			10/27/17 16:20	3.33
Vinyl chloride	**96**		3.3	1.5	ug/L			10/27/17 16:20	3.33
Xylenes, Total	6.7	U	6.7	0.80	ug/L			10/27/17 16:20	3.33
1,1,1-Trichloroethane	3.3	U	3.3	0.77	ug/L			10/27/17 16:20	3.33
1,1,2-Trichloroethane	3.3	U	3.3	1.1	ug/L			10/27/17 16:20	3.33
cis-1,2-Dichloroethene	3.3	U	3.3	1.0	ug/L			10/27/17 16:20	3.33
trans-1,2-Dichloroethene	3.3	U	3.3	0.97	ug/L			10/27/17 16:20	3.33
Chlorodibromomethane	3.3	U	3.3	0.83	ug/L			10/27/17 16:20	3.33

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*61 - 138*		*10/27/17 16:20*	*3.33*
4-Bromofluorobenzene (Surr)	*109*		*69 - 120*		*10/27/17 16:20*	*3.33*
Toluene-d8 (Surr)	*94*		*73 - 120*		*10/27/17 16:20*	*3.33*
Dibromofluoromethane (Surr)	*107*		*69 - 124*		*10/27/17 16:20*	*3.33*

Client Sample ID: GW-101817-BE-044
Date Collected: 10/18/17 16:52
Date Received: 10/19/17 09:10

Lab Sample ID: 240-86677-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			10/27/17 16:41	1
Benzene	1.0	U	1.0	0.28	ug/L			10/27/17 16:41	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/27/17 16:41	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/27/17 16:41	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/27/17 16:41	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/27/17 16:41	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/27/17 16:41	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/27/17 16:41	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/27/17 16:41	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/27/17 16:41	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/27/17 16:41	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/27/17 16:41	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/27/17 16:41	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/27/17 16:41	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/27/17 16:41	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/27/17 16:41	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/27/17 16:41	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/27/17 16:41	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/27/17 16:41	1
2-Hexanone	10	U	10	1.2	ug/L			10/27/17 16:41	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			10/27/17 16:41	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/27/17 16:41	1
Styrene	1.0	U	1.0	0.23	ug/L			10/27/17 16:41	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/27/17 16:41	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/27/17 16:41	1
Toluene	1.0	U	1.0	0.23	ug/L			10/27/17 16:41	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/27/17 16:41	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/27/17 16:41	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/27/17 16:41	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/27/17 16:41	1

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

Client Sample ID: GW-101817-BE-044
Date Collected: 10/18/17 16:52
Date Received: 10/19/17 09:10

Lab Sample ID: 240-86677-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/27/17 16:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/27/17 16:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/27/17 16:41	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/27/17 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*61 - 138*		*10/27/17 16:41*	*1*
4-Bromofluorobenzene (Surr)	*112*		*69 - 120*		*10/27/17 16:41*	*1*
Toluene-d8 (Surr)	*96*		*73 - 120*		*10/27/17 16:41*	*1*
Dibromofluoromethane (Surr)	*110*		*69 - 124*		*10/27/17 16:41*	*1*

Client Sample ID: TB-101817-BE-005
Date Collected: 10/18/17 17:30
Date Received: 10/19/17 09:10

Lab Sample ID: 240-86677-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**3.5**	**J**	10	1.8	ug/L			10/27/17 17:03	1
Benzene	1.0	U	1.0	0.28	ug/L			10/27/17 17:03	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/27/17 17:03	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/27/17 17:03	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/27/17 17:03	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/27/17 17:03	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/27/17 17:03	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/27/17 17:03	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/27/17 17:03	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/27/17 17:03	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/27/17 17:03	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/27/17 17:03	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/27/17 17:03	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/27/17 17:03	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/27/17 17:03	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/27/17 17:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/27/17 17:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/27/17 17:03	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/27/17 17:03	1
2-Hexanone	10	U	10	1.2	ug/L			10/27/17 17:03	1
Methylene Chloride	**1.3**	**B**	1.0	0.53	ug/L			10/27/17 17:03	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/27/17 17:03	1
Styrene	1.0	U	1.0	0.23	ug/L			10/27/17 17:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/27/17 17:03	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/27/17 17:03	1
Toluene	1.0	U	1.0	0.23	ug/L			10/27/17 17:03	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/27/17 17:03	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/27/17 17:03	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/27/17 17:03	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/27/17 17:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/27/17 17:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/27/17 17:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/27/17 17:03	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/27/17 17:03	1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		61 - 138		10/27/17 17:03	1
4-Bromofluorobenzene (Surr)	112		69 - 120		10/27/17 17:03	1
Toluene-d8 (Surr)	94		73 - 120		10/27/17 17:03	1
Dibromofluoromethane (Surr)	111		69 - 124		10/27/17 17:03	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86677-2

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(61-138)	(69-120)	(73-120)	(69-124)
240-86677-1	GW-101817-BE-038	97	106	91	104
240-86677-2	GW-101817-BE-039	94	106	91	107
240-86677-3	GW-101817-BE-040	91	97	94	97
240-86677-4	GW-101817-BE-041	115	110	94	118
240-86677-5	GW-101817-BE-042	100	108	97	106
240-86677-6	GW-101817-BE-043	102	109	94	107
240-86677-7	GW-101817-BE-044	104	112	96	110
240-86677-8	TB-101817-BE-005	103	112	94	111
LCS 240-300804/4	Lab Control Sample	94	102	96	102
LCS 240-300954/4	Lab Control Sample	102	109	97	106
MB 240-300804/6	Method Blank	98	108	92	107
MB 240-300954/6	Method Blank	99	94	96	92

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Lab Sample ID: MB 240-300804/6
Matrix: Water
Analysis Batch: 300804

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			10/26/17 23:17	1
Benzene	1.0	U	1.0	0.28	ug/L			10/26/17 23:17	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/26/17 23:17	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/26/17 23:17	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/26/17 23:17	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/26/17 23:17	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/26/17 23:17	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/26/17 23:17	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/26/17 23:17	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/26/17 23:17	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/26/17 23:17	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/26/17 23:17	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/26/17 23:17	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/26/17 23:17	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/26/17 23:17	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/26/17 23:17	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/26/17 23:17	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/26/17 23:17	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/26/17 23:17	1
2-Hexanone	10	U	10	1.2	ug/L			10/26/17 23:17	1
Methylene Chloride	2.31		1.0	0.53	ug/L			10/26/17 23:17	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/26/17 23:17	1
Styrene	1.0	U	1.0	0.23	ug/L			10/26/17 23:17	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/26/17 23:17	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/26/17 23:17	1
Toluene	1.0	U	1.0	0.23	ug/L			10/26/17 23:17	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/26/17 23:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/26/17 23:17	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/26/17 23:17	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/26/17 23:17	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/26/17 23:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/26/17 23:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/26/17 23:17	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/26/17 23:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*61 - 138*		*10/26/17 23:17*	*1*
4-Bromofluorobenzene (Surr)	*108*		*69 - 120*		*10/26/17 23:17*	*1*
Toluene-d8 (Surr)	*92*		*73 - 120*		*10/26/17 23:17*	*1*
Dibromofluoromethane (Surr)	*107*		*69 - 124*		*10/26/17 23:17*	*1*

Lab Sample ID: LCS 240-300804/4
Matrix: Water
Analysis Batch: 300804

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acetone			20.0	14.8		ug/L		74	35 - 131		
Benzene			10.0	9.68		ug/L		97	79 - 120		

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

Lab Sample ID: LCS 240-300804/4
Matrix: Water
Analysis Batch: 300804

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorobromomethane	10.0	9.34		ug/L		93	79 - 125
Bromoform	10.0	9.97		ug/L		100	55 - 145
Bromomethane	10.0	12.0		ug/L		120	17 - 158
2-Butanone (MEK)	20.0	17.0		ug/L		85	43 - 149
Carbon disulfide	10.0	10.5		ug/L		105	49 - 141
Carbon tetrachloride	10.0	10.2		ug/L		102	55 - 171
Chlorobenzene	10.0	9.25		ug/L		93	80 - 120
Chloroethane	10.0	10.2		ug/L		102	10 - 149
Chloroform	10.0	10.6		ug/L		106	80 - 120
Chloromethane	10.0	10.4		ug/L		104	59 - 124
1,1-Dichloroethane	10.0	10.3		ug/L		103	74 - 120
1,2-Dichloroethane	10.0	9.90		ug/L		99	68 - 133
1,1-Dichloroethene	10.0	10.3		ug/L		103	65 - 127
1,2-Dichloropropane	10.0	9.56		ug/L		96	78 - 127
cis-1,3-Dichloropropene	10.0	8.63		ug/L		86	75 - 120
trans-1,3-Dichloropropene	10.0	8.15		ug/L		81	67 - 120
Ethylbenzene	10.0	9.32		ug/L		93	80 - 120
2-Hexanone	20.0	20.8		ug/L		104	28 - 169
Methylene Chloride	10.0	13.1		ug/L		131	64 - 140
4-Methyl-2-pentanone (MIBK)	20.0	17.3		ug/L		87	53 - 144
Styrene	10.0	9.33		ug/L		93	80 - 121
1,1,2,2-Tetrachloroethane	10.0	9.19		ug/L		92	58 - 122
Tetrachloroethene	10.0	9.04		ug/L		90	80 - 122
Toluene	10.0	9.19		ug/L		92	78 - 120
Trichloroethene	10.0	9.16		ug/L		92	76 - 124
Vinyl chloride	10.0	11.8		ug/L		118	65 - 124
Xylenes, Total	20.0	18.6		ug/L		93	80 - 120
1,1,1-Trichloroethane	10.0	10.7		ug/L		107	64 - 147
1,1,2-Trichloroethane	10.0	9.41		ug/L		94	76 - 121
cis-1,2-Dichloroethene	10.0	10.1		ug/L		101	77 - 120
trans-1,2-Dichloroethene	10.0	10.5		ug/L		105	74 - 124
Chlorodibromomethane	10.0	9.35		ug/L		93	64 - 129
m-Xylene & p-Xylene	10.0	9.17		ug/L		92	80 - 120
o-Xylene	10.0	9.40		ug/L		94	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*61 - 138*
4-Bromofluorobenzene (Surr)	*102*		*69 - 120*
Toluene-d8 (Surr)	*96*		*73 - 120*
Dibromofluoromethane (Surr)	*102*		*69 - 124*

Lab Sample ID: MB 240-300954/6
Matrix: Water
Analysis Batch: 300954

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			10/27/17 14:41	1
Benzene	1.0	U	1.0	0.28	ug/L			10/27/17 14:41	1

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

Lab Sample ID: MB 240-300954/6
Matrix: Water
Analysis Batch: 300954

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/27/17 14:41	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/27/17 14:41	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/27/17 14:41	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/27/17 14:41	1
Carbon disulfide	0.393	J	1.0	0.34	ug/L			10/27/17 14:41	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/27/17 14:41	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/27/17 14:41	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/27/17 14:41	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/27/17 14:41	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/27/17 14:41	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/27/17 14:41	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/27/17 14:41	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/27/17 14:41	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/27/17 14:41	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/27/17 14:41	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/27/17 14:41	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/27/17 14:41	1
2-Hexanone	10	U	10	1.2	ug/L			10/27/17 14:41	1
Methylene Chloride	1.11		1.0	0.53	ug/L			10/27/17 14:41	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/27/17 14:41	1
Styrene	1.0	U	1.0	0.23	ug/L			10/27/17 14:41	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/27/17 14:41	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/27/17 14:41	1
Toluene	1.0	U	1.0	0.23	ug/L			10/27/17 14:41	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/27/17 14:41	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/27/17 14:41	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/27/17 14:41	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/27/17 14:41	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/27/17 14:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/27/17 14:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/27/17 14:41	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/27/17 14:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*61 - 138*		*10/27/17 14:41*	*1*
4-Bromofluorobenzene (Surr)	*94*		*69 - 120*		*10/27/17 14:41*	*1*
Toluene-d8 (Surr)	*96*		*73 - 120*		*10/27/17 14:41*	*1*
Dibromofluoromethane (Surr)	*92*		*69 - 124*		*10/27/17 14:41*	*1*

Lab Sample ID: LCS 240-300954/4
Matrix: Water
Analysis Batch: 300954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	16.7		ug/L		84	35 - 131
Benzene	10.0	9.62		ug/L		96	79 - 120
Dichlorobromomethane	10.0	9.16		ug/L		92	79 - 125
Bromoform	10.0	10.6		ug/L		106	55 - 145

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

Lab Sample ID: LCS 240-300954/4
Matrix: Water
Analysis Batch: 300954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	10.0	13.0		ug/L		130	17 - 158
2-Butanone (MEK)	20.0	18.5		ug/L		93	43 - 149
Carbon disulfide	10.0	10.8		ug/L		108	49 - 141
Carbon tetrachloride	10.0	9.92		ug/L		99	55 - 171
Chlorobenzene	10.0	9.73		ug/L		97	80 - 120
Chloroethane	10.0	11.5		ug/L		115	10 - 149
Chloroform	10.0	10.5		ug/L		105	80 - 120
Chloromethane	10.0	9.89		ug/L		99	59 - 124
1,1-Dichloroethane	10.0	10.3		ug/L		103	74 - 120
1,2-Dichloroethane	10.0	10.1		ug/L		101	68 - 133
1,1-Dichloroethene	10.0	10.2		ug/L		102	65 - 127
1,2-Dichloropropane	10.0	9.49		ug/L		95	78 - 127
cis-1,3-Dichloropropene	10.0	9.17		ug/L		92	75 - 120
trans-1,3-Dichloropropene	10.0	8.55		ug/L		85	67 - 120
Ethylbenzene	10.0	9.90		ug/L		99	80 - 120
2-Hexanone	20.0	22.0		ug/L		110	28 - 169
Methylene Chloride	10.0	12.0		ug/L		120	64 - 140
4-Methyl-2-pentanone (MIBK)	20.0	18.7		ug/L		93	53 - 144
Styrene	10.0	10.2		ug/L		102	80 - 121
1,1,2,2-Tetrachloroethane	10.0	9.95		ug/L		99	58 - 122
Tetrachloroethene	10.0	9.66		ug/L		97	80 - 122
Toluene	10.0	9.58		ug/L		96	78 - 120
Trichloroethene	10.0	9.49		ug/L		95	76 - 124
Vinyl chloride	10.0	11.5		ug/L		115	65 - 124
Xylenes, Total	20.0	20.1		ug/L		101	80 - 120
1,1,1-Trichloroethane	10.0	10.7		ug/L		107	64 - 147
1,1,2-Trichloroethane	10.0	9.69		ug/L		97	76 - 121
cis-1,2-Dichloroethene	10.0	10.4		ug/L		104	77 - 120
trans-1,2-Dichloroethene	10.0	10.6		ug/L		106	74 - 124
Chlorodibromomethane	10.0	9.90		ug/L		99	64 - 129
m-Xylene & p-Xylene	10.0	9.92		ug/L		99	80 - 120
o-Xylene	10.0	10.2		ug/L		102	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*61 - 138*
4-Bromofluorobenzene (Surr)	*109*		*69 - 120*
Toluene-d8 (Surr)	*97*		*73 - 120*
Dibromofluoromethane (Surr)	*106*		*69 - 124*

QC Association Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86677-2

GC/MS VOA

Analysis Batch: 300804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86677-1	GW-101817-BE-038	Total/NA	Water	8260B	
240-86677-2	GW-101817-BE-039	Total/NA	Water	8260B	
240-86677-3	GW-101817-BE-040	Total/NA	Water	8260B	
MB 240-300804/6	Method Blank	Total/NA	Water	8260B	
LCS 240-300804/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 300954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86677-4	GW-101817-BE-041	Total/NA	Water	8260B	
240-86677-5	GW-101817-BE-042	Total/NA	Water	8260B	
240-86677-6	GW-101817-BE-043	Total/NA	Water	8260B	
240-86677-7	GW-101817-BE-044	Total/NA	Water	8260B	
240-86677-8	TB-101817-BE-005	Total/NA	Water	8260B	
MB 240-300954/6	Method Blank	Total/NA	Water	8260B	
LCS 240-300954/4	Lab Control Sample	Total/NA	Water	8260B	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86677-2

Client Sample ID: GW-101817-BE-038
Lab Sample ID: 240-86677-1
Date Collected: 10/18/17 10:07
Matrix: Water
Date Received: 10/19/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300804	10/27/17 01:08	LRW	TAL CAN

Client Sample ID: GW-101817-BE-039
Lab Sample ID: 240-86677-2
Date Collected: 10/18/17 11:00
Matrix: Water
Date Received: 10/19/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300804	10/27/17 01:30	LRW	TAL CAN

Client Sample ID: GW-101817-BE-040
Lab Sample ID: 240-86677-3
Date Collected: 10/18/17 13:23
Matrix: Water
Date Received: 10/19/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300804	10/27/17 02:17	LRW	TAL CAN

Client Sample ID: GW-101817-BE-041
Lab Sample ID: 240-86677-4
Date Collected: 10/18/17 13:26
Matrix: Water
Date Received: 10/19/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300954	10/27/17 15:36	LRW	TAL CAN

Client Sample ID: GW-101817-BE-042
Lab Sample ID: 240-86677-5
Date Collected: 10/18/17 15:08
Matrix: Water
Date Received: 10/19/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300954	10/27/17 15:58	LRW	TAL CAN

Client Sample ID: GW-101817-BE-043
Lab Sample ID: 240-86677-6
Date Collected: 10/18/17 15:48
Matrix: Water
Date Received: 10/19/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		3.33	300954	10/27/17 16:20	LRW	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86677-2

Client Sample ID: GW-101817-BE-044

Lab Sample ID: 240-86677-7

Date Collected: 10/18/17 16:52

Matrix: Water

Date Received: 10/19/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300954	10/27/17 16:41	LRW	TAL CAN

Client Sample ID: TB-101817-BE-005

Lab Sample ID: 240-86677-8

Date Collected: 10/18/17 17:30

Matrix: Water

Date Received: 10/19/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300954	10/27/17 17:03	LRW	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86677-2

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-18 *
West Virginia DEP	State Program	3	210	12-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

2.8/C2.8

CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: IN- 14980
PAGE 1 OF 1
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017302-T07	Laboratory Name: TestAmerica Nashville	Lab Location: Nashville, TN	SSOW ID: 017302 T07
Project Name: MLK	Lab Contact: Denise Heckler	Lab Quote No:	Cooler No: 1 of 1
Project Location: Anderson, IN			Carrier: Fedex
Chemistry Contact: Deborah Andrasko			Airbill No:
Sampler(s): Brynn Einecker			Date Shipped:

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd//yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Container Quantity & Preservation: Unpreserved	HCl	HNO_3	H_2SO_4	NaOH	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	Analysis Requested: VOC	TOC	diss DOC	dissolved gas	diss Manganese	CAC - Sulfide	Chloride, Nitrate, Nitrite, Sulfate	Hardness	MLK, barium & cations	MS/MSD Request	Comments/ Special Instructions:
1	GW-101817-BE-038	10/18/17	1007	GW	G		3							3	✓										
2	GW-101817-BE-039	10/18/17	11:00	WG	G	2	6	2	6	1				17	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	GW-101817-BE-040	10/18/17	1323	WG	G		3							3	✓										
4	GW-101817-BE-041	10/18/17	1326	WG	G		3							3	✓										
5	GW-101817-BE-042	10/18/17	1508	WG	G		3							3	✓										
6	GW-101817-BE-043	10/18/17	1548	WG	G	2	6	2	6	1				17	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
7	GW-101817-BE-044	10/18/17	1652	WG	G		3							3	✓										
8	TB-101817-BE-005	10/18/17	1730	WG	G		1							1	✓										
9																									
10																									
11																									
12																									
13																									
14																									
15																									

240-86677 Chain of Custody

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 50

All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Brynn Einecker	GHD	10/18/17	1800	1. [illegible]	TAL	10-19-17	910
				2.			
				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

Page 25 of 27

11/27/2017 (Rev. 1)

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 86677**
Canton Facility

Client CRA Site Name —

Cooler Received on 10-19-17 Opened on 10-19-17

Cooler unpacked by: BP

FedEx: 1st Grd (Exp) UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box (Client Cooler) Box Other

Packing material used: (Bubble Wrap) Foam (Plastic Bag) None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp. 2.8 °C Corrected Cooler Temp. 2.8 °C

IR GUN #36 (CF +0.3°C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C

IR GUN # 627 (CF -1.3°C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes) No	
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes) No	NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes (No)	
-Were tamper/custody seals intact and uncompromised?	(Yes) No	NA
3. Shippers' packing slip attached to the cooler(s)?	(Yes) No	
4. Did custody papers accompany the sample(s)?	(Yes) No	
5. Were the custody papers relinquished & signed in the appropriate place?	(Yes) No	
6. Was/were the person(s) who collected the samples clearly identified on the COC?	(Yes) No	
7. Did all bottles arrive in good condition (Unbroken)?	(Yes) No	
8. Could all bottle labels be reconciled with the COC?	(Yes) No	
9. Were correct bottle(s) used for the test(s) indicated?	(Yes) No	
10. Sufficient quantity received to perform indicated analyses?	(Yes) No	
11. Are these work share samples?	Yes (No)	

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

If yes, Questions 11-15 have been checked at the originating laboratory.

11. Were all preserved sample(s) at the correct pH upon receipt?	(Yes) No	NA	pH Strip Lot# **HC697954**
12. Were VOAs on the COC?	(Yes) No		
13. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes (No)	NA	
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # COVERED	(Yes) No		
15. Was a LL Hg or Me Hg trip blank present? ____	Yes (No)		

Contacted PM ____ Date ____ by ____ via Verbal Voice Mail Other

Concerning ____

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

17. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.

Sample(s) ____ were received in a broken container.

Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in the laboratory.

Time preserved: ____ Preservative(s) added/Lot number(s): ____

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
GW-101817-BE-039	240-86677-N-2	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-101817-BE-039	240-86677-P-2	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-101817-BE-039	240-86677-Q-2	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-101817-BE-043	240-86677-N-6	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-101817-BE-043	240-86677-P-6	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-101817-BE-043	240-86677-Q-6	Plastic 500ml - with Nitric Acid	<2	_____	_____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
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TestAmerica Job ID: 240-86803-1
Client Project/Site: 17302, RACER Delphi Anderson
Revision: 1

For:
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko

Denise D Heckler

Authorized for release by:
11/29/2017 8:26:10 AM

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

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86803-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

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	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)

Case Narrative

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86803-1

Job ID: 240-86803-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-86803-1

Comments
A revised COC was received on October 25, 2017.

A revised report was provided on November 29, 2017. The correct compound list was reported.

Receipt
The samples were received on 10/20/2017 9:15 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 VOA
Method(s) 8260B: The laboratory control sample (LCS) for 301050 recovered outside control limits for the following analyte(s): Chloroethane. Chloroethane has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. SW-101917-BE-001 (240-86803-1), SW-101917-BE-002 (240-86803-2), EB-101917-BE-005 (240-86803-3), TB-101917-BE-006 (240-86803-5) and (LCS 240-301050/4)

Method(s) 8260B: The laboratory control sample (LCS) for 301050 recovered outside control limits for the following analytes: 1,1,2,2-Tetrachloroethane and/or Acrolein. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.SW-101917-BE-001 (240-86803-1), SW-101917-BE-002 (240-86803-2), EB-101917-BE-005 (240-86803-3), TB-101917-BE-006 (240-86803-5) and (LCS 240-301050/4)

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

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

Method Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86803-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN

Protocol References:

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

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86803-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-86803-1	SW-101917-BE-001	Water	10/19/17 12:20	10/20/17 09:15
240-86803-2	SW-101917-BE-002	Water	10/19/17 12:30	10/20/17 09:15
240-86803-3	EB-101917-BE-005	Water	10/19/17 13:10	10/20/17 09:15
240-86803-5	TB-101917-BE-006	Water	10/19/17 15:03	10/20/17 09:15

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86803-1

Client Sample ID: SW-101917-BE-001 — Lab Sample ID: 240-86803-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.9		2.0	0.50	ug/L	2		8260B	Total/NA
Vinyl chloride	4.8		2.0	0.90	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	52		2.0	0.60	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	1.4	J	2.0	0.58	ug/L	2		8260B	Total/NA

Client Sample ID: SW-101917-BE-002 — Lab Sample ID: 240-86803-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	17		10	2.5	ug/L	10		8260B	Total/NA
Vinyl chloride	17		10	4.5	ug/L	10		8260B	Total/NA
cis-1,2-Dichloroethene	350		10	3.0	ug/L	10		8260B	Total/NA
trans-1,2-Dichloroethene	14		10	2.9	ug/L	10		8260B	Total/NA

Client Sample ID: EB-101917-BE-005 — Lab Sample ID: 240-86803-3

No Detections.

Client Sample ID: TB-101917-BE-006 — Lab Sample ID: 240-86803-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.3	J	10	1.8	ug/L	1		8260B	Total/NA
Methylene Chloride	0.75	J B	1.0	0.53	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: SW-101917-BE-001
Date Collected: 10/19/17 12:20
Date Received: 10/20/17 09:15

Lab Sample ID: 240-86803-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	20	U	20	3.5	ug/L			10/28/17 12:31	2
Benzene	2.0	U	2.0	0.56	ug/L			10/28/17 12:31	2
Dichlorobromomethane	2.0	U	2.0	0.60	ug/L			10/28/17 12:31	2
Bromoform	2.0	U	2.0	0.86	ug/L			10/28/17 12:31	2
Bromomethane	2.0	U	2.0	0.84	ug/L			10/28/17 12:31	2
2-Butanone (MEK)	20	U	20	2.0	ug/L			10/28/17 12:31	2
Carbon disulfide	2.0	U	2.0	0.68	ug/L			10/28/17 12:31	2
Carbon tetrachloride	2.0	U	2.0	0.70	ug/L			10/28/17 12:31	2
Chlorobenzene	2.0	U	2.0	0.64	ug/L			10/28/17 12:31	2
Chloroethane	2.0	U *	2.0	0.82	ug/L			10/28/17 12:31	2
Chloroform	2.0	U	2.0	0.62	ug/L			10/28/17 12:31	2
Chloromethane	2.0	U	2.0	0.86	ug/L			10/28/17 12:31	2
1,1-Dichloroethane	**2.9**		2.0	0.50	ug/L			10/28/17 12:31	2
1,2-Dichloroethane	2.0	U	2.0	0.60	ug/L			10/28/17 12:31	2
1,1-Dichloroethene	2.0	U	2.0	0.54	ug/L			10/28/17 12:31	2
1,2-Dichloropropane	2.0	U	2.0	0.60	ug/L			10/28/17 12:31	2
cis-1,3-Dichloropropene	2.0	U	2.0	0.52	ug/L			10/28/17 12:31	2
trans-1,3-Dichloropropene	2.0	U	2.0	0.62	ug/L			10/28/17 12:31	2
Ethylbenzene	2.0	U	2.0	0.52	ug/L			10/28/17 12:31	2
2-Hexanone	20	U	20	2.5	ug/L			10/28/17 12:31	2
Methylene Chloride	2.0	U	2.0	1.1	ug/L			10/28/17 12:31	2
4-Methyl-2-pentanone (MIBK)	20	U	20	1.4	ug/L			10/28/17 12:31	2
Styrene	2.0	U	2.0	0.46	ug/L			10/28/17 12:31	2
1,1,2,2-Tetrachloroethane	2.0	U *	2.0	0.64	ug/L			10/28/17 12:31	2
Tetrachloroethene	2.0	U	2.0	0.60	ug/L			10/28/17 12:31	2
Toluene	2.0	U	2.0	0.46	ug/L			10/28/17 12:31	2
Trichloroethene	2.0	U	2.0	0.66	ug/L			10/28/17 12:31	2
Vinyl chloride	**4.8**		2.0	0.90	ug/L			10/28/17 12:31	2
Xylenes, Total	4.0	U	4.0	0.48	ug/L			10/28/17 12:31	2
1,1,1-Trichloroethane	2.0	U	2.0	0.46	ug/L			10/28/17 12:31	2
1,1,2-Trichloroethane	2.0	U	2.0	0.68	ug/L			10/28/17 12:31	2
cis-1,2-Dichloroethene	**52**		2.0	0.60	ug/L			10/28/17 12:31	2
trans-1,2-Dichloroethene	**1.4**	**J**	2.0	0.58	ug/L			10/28/17 12:31	2
Chlorodibromomethane	2.0	U	2.0	0.50	ug/L			10/28/17 12:31	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*61 - 138*		*10/28/17 12:31*	*2*
4-Bromofluorobenzene (Surr)	*77*		*69 - 120*		*10/28/17 12:31*	*2*
Toluene-d8 (Surr)	*90*		*73 - 120*		*10/28/17 12:31*	*2*
Dibromofluoromethane (Surr)	*89*		*69 - 124*		*10/28/17 12:31*	*2*

Client Sample ID: SW-101917-BE-002
Date Collected: 10/19/17 12:30
Date Received: 10/20/17 09:15

Lab Sample ID: 240-86803-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	100	U	100	18	ug/L			10/28/17 12:54	10
Benzene	10	U	10	2.8	ug/L			10/28/17 12:54	10
Dichlorobromomethane	10	U	10	3.0	ug/L			10/28/17 12:54	10
Bromoform	10	U	10	4.3	ug/L			10/28/17 12:54	10
Bromomethane	10	U	10	4.2	ug/L			10/28/17 12:54	10

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

Client Sample ID: SW-101917-BE-002
Date Collected: 10/19/17 12:30
Date Received: 10/20/17 09:15

Lab Sample ID: 240-86803-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	100	U	100	10	ug/L			10/28/17 12:54	10
Carbon disulfide	10	U	10	3.4	ug/L			10/28/17 12:54	10
Carbon tetrachloride	10	U	10	3.5	ug/L			10/28/17 12:54	10
Chlorobenzene	10	U	10	3.2	ug/L			10/28/17 12:54	10
Chloroethane	10	U *	10	4.1	ug/L			10/28/17 12:54	10
Chloroform	10	U	10	3.1	ug/L			10/28/17 12:54	10
Chloromethane	10	U	10	4.3	ug/L			10/28/17 12:54	10
1,1-Dichloroethane	**17**		10	2.5	ug/L			10/28/17 12:54	10
1,2-Dichloroethane	10	U	10	3.0	ug/L			10/28/17 12:54	10
1,1-Dichloroethene	10	U	10	2.7	ug/L			10/28/17 12:54	10
1,2-Dichloropropane	10	U	10	3.0	ug/L			10/28/17 12:54	10
cis-1,3-Dichloropropene	10	U	10	2.6	ug/L			10/28/17 12:54	10
trans-1,3-Dichloropropene	10	U	10	3.1	ug/L			10/28/17 12:54	10
Ethylbenzene	10	U	10	2.6	ug/L			10/28/17 12:54	10
2-Hexanone	100	U	100	12	ug/L			10/28/17 12:54	10
Methylene Chloride	10	U	10	5.3	ug/L			10/28/17 12:54	10
4-Methyl-2-pentanone (MIBK)	100	U	100	7.1	ug/L			10/28/17 12:54	10
Styrene	10	U	10	2.3	ug/L			10/28/17 12:54	10
1,1,2,2-Tetrachloroethane	10	U *	10	3.2	ug/L			10/28/17 12:54	10
Tetrachloroethene	10	U	10	3.0	ug/L			10/28/17 12:54	10
Toluene	10	U	10	2.3	ug/L			10/28/17 12:54	10
Trichloroethene	10	U	10	3.3	ug/L			10/28/17 12:54	10
Vinyl chloride	**17**		10	4.5	ug/L			10/28/17 12:54	10
Xylenes, Total	20	U	20	2.4	ug/L			10/28/17 12:54	10
1,1,1-Trichloroethane	10	U	10	2.3	ug/L			10/28/17 12:54	10
1,1,2-Trichloroethane	10	U	10	3.4	ug/L			10/28/17 12:54	10
cis-1,2-Dichloroethene	**350**		10	3.0	ug/L			10/28/17 12:54	10
trans-1,2-Dichloroethene	**14**		10	2.9	ug/L			10/28/17 12:54	10
Chlorodibromomethane	10	U	10	2.5	ug/L			10/28/17 12:54	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*61 - 138*		*10/28/17 12:54*	*10*
4-Bromofluorobenzene (Surr)	*77*		*69 - 120*		*10/28/17 12:54*	*10*
Toluene-d8 (Surr)	*88*		*73 - 120*		*10/28/17 12:54*	*10*
Dibromofluoromethane (Surr)	*90*		*69 - 124*		*10/28/17 12:54*	*10*

Client Sample ID: EB-101917-BE-005
Date Collected: 10/19/17 13:10
Date Received: 10/20/17 09:15

Lab Sample ID: 240-86803-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			10/28/17 13:16	1
Benzene	1.0	U	1.0	0.28	ug/L			10/28/17 13:16	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/28/17 13:16	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/28/17 13:16	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/28/17 13:16	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/28/17 13:16	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/28/17 13:16	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/28/17 13:16	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/28/17 13:16	1
Chloroethane	1.0	U *	1.0	0.41	ug/L			10/28/17 13:16	1

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

Client Sample ID: EB-101917-BE-005
Date Collected: 10/19/17 13:10
Date Received: 10/20/17 09:15

Lab Sample ID: 240-86803-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	1.0	U	1.0	0.31	ug/L			10/28/17 13:16	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/28/17 13:16	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/28/17 13:16	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/28/17 13:16	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/28/17 13:16	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/28/17 13:16	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/28/17 13:16	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/28/17 13:16	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/28/17 13:16	1
2-Hexanone	10	U	10	1.2	ug/L			10/28/17 13:16	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			10/28/17 13:16	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/28/17 13:16	1
Styrene	1.0	U	1.0	0.23	ug/L			10/28/17 13:16	1
1,1,2,2-Tetrachloroethane	1.0	U *	1.0	0.32	ug/L			10/28/17 13:16	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/28/17 13:16	1
Toluene	1.0	U	1.0	0.23	ug/L			10/28/17 13:16	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/28/17 13:16	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/28/17 13:16	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/28/17 13:16	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/28/17 13:16	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/28/17 13:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/28/17 13:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/28/17 13:16	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/28/17 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*61 - 138*		*10/28/17 13:16*	*1*
4-Bromofluorobenzene (Surr)	*76*		*69 - 120*		*10/28/17 13:16*	*1*
Toluene-d8 (Surr)	*87*		*73 - 120*		*10/28/17 13:16*	*1*
Dibromofluoromethane (Surr)	*92*		*69 - 124*		*10/28/17 13:16*	*1*

Client Sample ID: TB-101917-BE-006
Date Collected: 10/19/17 15:03
Date Received: 10/20/17 09:15

Lab Sample ID: 240-86803-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**4.3**	**J**	10	1.8	ug/L			10/28/17 14:01	1
Benzene	1.0	U	1.0	0.28	ug/L			10/28/17 14:01	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/28/17 14:01	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/28/17 14:01	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/28/17 14:01	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/28/17 14:01	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/28/17 14:01	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/28/17 14:01	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/28/17 14:01	1
Chloroethane	1.0	U *	1.0	0.41	ug/L			10/28/17 14:01	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/28/17 14:01	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/28/17 14:01	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/28/17 14:01	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/28/17 14:01	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/28/17 14:01	1

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

Client Sample ID: TB-101917-BE-006
Date Collected: 10/19/17 15:03
Date Received: 10/20/17 09:15

Lab Sample ID: 240-86803-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/28/17 14:01	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/28/17 14:01	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/28/17 14:01	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/28/17 14:01	1
2-Hexanone	10	U	10	1.2	ug/L			10/28/17 14:01	1
Methylene Chloride	**0.75**	**J B**	1.0	0.53	ug/L			10/28/17 14:01	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/28/17 14:01	1
Styrene	1.0	U	1.0	0.23	ug/L			10/28/17 14:01	1
1,1,2,2-Tetrachloroethane	1.0	U *	1.0	0.32	ug/L			10/28/17 14:01	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/28/17 14:01	1
Toluene	1.0	U	1.0	0.23	ug/L			10/28/17 14:01	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/28/17 14:01	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/28/17 14:01	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/28/17 14:01	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/28/17 14:01	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/28/17 14:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/28/17 14:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/28/17 14:01	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/28/17 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*61 - 138*		*10/28/17 14:01*	*1*
4-Bromofluorobenzene (Surr)	*76*		*69 - 120*		*10/28/17 14:01*	*1*
Toluene-d8 (Surr)	*87*		*73 - 120*		*10/28/17 14:01*	*1*
Dibromofluoromethane (Surr)	*96*		*69 - 124*		*10/28/17 14:01*	*1*

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86803-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(61-138)	(69-120)	(73-120)	(69-124)
240-86803-1	SW-101917-BE-001	99	77	90	89
240-86803-2	SW-101917-BE-002	101	77	88	90
240-86803-3	EB-101917-BE-005	105	76	87	92
240-86803-5	TB-101917-BE-006	104	76	87	96
LCS 240-301050/4	Lab Control Sample	98	91	91	88
MB 240-301050/6	Method Blank	100	82	89	90

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Lab Sample ID: MB 240-301050/6
Matrix: Water
Analysis Batch: 301050

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			10/28/17 10:05	1
Benzene	1.0	U	1.0	0.28	ug/L			10/28/17 10:05	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			10/28/17 10:05	1
Bromoform	1.0	U	1.0	0.43	ug/L			10/28/17 10:05	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/28/17 10:05	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			10/28/17 10:05	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			10/28/17 10:05	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			10/28/17 10:05	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			10/28/17 10:05	1
Chloroethane	1.0	U	1.0	0.41	ug/L			10/28/17 10:05	1
Chloroform	1.0	U	1.0	0.31	ug/L			10/28/17 10:05	1
Chloromethane	1.0	U	1.0	0.43	ug/L			10/28/17 10:05	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/28/17 10:05	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/28/17 10:05	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			10/28/17 10:05	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			10/28/17 10:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			10/28/17 10:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			10/28/17 10:05	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			10/28/17 10:05	1
2-Hexanone	10	U	10	1.2	ug/L			10/28/17 10:05	1
Methylene Chloride	0.672	J	1.0	0.53	ug/L			10/28/17 10:05	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			10/28/17 10:05	1
Styrene	1.0	U	1.0	0.23	ug/L			10/28/17 10:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			10/28/17 10:05	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			10/28/17 10:05	1
Toluene	1.0	U	1.0	0.23	ug/L			10/28/17 10:05	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			10/28/17 10:05	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			10/28/17 10:05	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			10/28/17 10:05	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/28/17 10:05	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			10/28/17 10:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/28/17 10:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/28/17 10:05	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			10/28/17 10:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*61 - 138*		*10/28/17 10:05*	*1*
4-Bromofluorobenzene (Surr)	*82*		*69 - 120*		*10/28/17 10:05*	*1*
Toluene-d8 (Surr)	*89*		*73 - 120*		*10/28/17 10:05*	*1*
Dibromofluoromethane (Surr)	*90*		*69 - 124*		*10/28/17 10:05*	*1*

Lab Sample ID: LCS 240-301050/4
Matrix: Water
Analysis Batch: 301050

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acetone			20.0	26.1		ug/L		131	35 - 131		
Benzene			10.0	10.4		ug/L		104	79 - 120		

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

Lab Sample ID: LCS 240-301050/4
Matrix: Water
Analysis Batch: 301050

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorobromomethane	10.0	10.5		ug/L		105	79 - 125
Bromoform	10.0	9.30		ug/L		93	55 - 145
Bromomethane	10.0	2.45		ug/L		24	17 - 158
2-Butanone (MEK)	20.0	25.8		ug/L		129	43 - 149
Carbon disulfide	10.0	8.97		ug/L		90	49 - 141
Carbon tetrachloride	10.0	10.0		ug/L		100	55 - 171
Chlorobenzene	10.0	10.4		ug/L		104	80 - 120
Chloroethane	10.0	0.941	J *	ug/L		9	10 - 149
Chloroform	10.0	10.8		ug/L		108	80 - 120
Chloromethane	10.0	7.41		ug/L		74	59 - 124
1,1-Dichloroethane	10.0	11.0		ug/L		110	74 - 120
1,2-Dichloroethane	10.0	11.8		ug/L		118	68 - 133
1,1-Dichloroethene	10.0	11.7		ug/L		117	65 - 127
1,2-Dichloropropane	10.0	11.5		ug/L		115	78 - 127
cis-1,3-Dichloropropene	10.0	10.2		ug/L		102	75 - 120
trans-1,3-Dichloropropene	10.0	10.2		ug/L		102	67 - 120
Ethylbenzene	10.0	10.2		ug/L		102	80 - 120
2-Hexanone	20.0	26.1		ug/L		130	28 - 169
Methylene Chloride	10.0	10.3		ug/L		103	64 - 140
4-Methyl-2-pentanone (MIBK)	20.0	24.8		ug/L		124	53 - 144
Styrene	10.0	10.0		ug/L		100	80 - 121
1,1,2,2-Tetrachloroethane	10.0	12.6	*	ug/L		126	58 - 122
Tetrachloroethene	10.0	9.88		ug/L		99	80 - 122
Toluene	10.0	10.8		ug/L		108	78 - 120
Trichloroethene	10.0	9.71		ug/L		97	76 - 124
Vinyl chloride	10.0	10.8		ug/L		108	65 - 124
Xylenes, Total	20.0	20.1		ug/L		101	80 - 120
1,1,1-Trichloroethane	10.0	9.31		ug/L		93	64 - 147
1,1,2-Trichloroethane	10.0	11.7		ug/L		117	76 - 121
cis-1,2-Dichloroethene	10.0	10.1		ug/L		101	77 - 120
trans-1,2-Dichloroethene	10.0	10.5		ug/L		105	74 - 124
Chlorodibromomethane	10.0	10.8		ug/L		108	64 - 129
m-Xylene & p-Xylene	10.0	10.2		ug/L		102	80 - 120
o-Xylene	10.0	9.90		ug/L		99	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*61 - 138*
4-Bromofluorobenzene (Surr)	*91*		*69 - 120*
Toluene-d8 (Surr)	*91*		*73 - 120*
Dibromofluoromethane (Surr)	*88*		*69 - 124*

QC Association Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86803-1

GC/MS VOA

Analysis Batch: 301050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-86803-1	SW-101917-BE-001	Total/NA	Water	8260B	
240-86803-2	SW-101917-BE-002	Total/NA	Water	8260B	
240-86803-3	EB-101917-BE-005	Total/NA	Water	8260B	
240-86803-5	TB-101917-BE-006	Total/NA	Water	8260B	
MB 240-301050/6	Method Blank	Total/NA	Water	8260B	
LCS 240-301050/4	Lab Control Sample	Total/NA	Water	8260B	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86803-1

Client Sample ID: SW-101917-BE-001
Lab Sample ID: 240-86803-1
Date Collected: 10/19/17 12:20
Matrix: Water
Date Received: 10/20/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	301050	10/28/17 12:31	LEE	TAL CAN

Client Sample ID: SW-101917-BE-002
Lab Sample ID: 240-86803-2
Date Collected: 10/19/17 12:30
Matrix: Water
Date Received: 10/20/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	301050	10/28/17 12:54	LEE	TAL CAN

Client Sample ID: EB-101917-BE-005
Lab Sample ID: 240-86803-3
Date Collected: 10/19/17 13:10
Matrix: Water
Date Received: 10/20/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	301050	10/28/17 13:16	LEE	TAL CAN

Client Sample ID: TB-101917-BE-006
Lab Sample ID: 240-86803-5
Date Collected: 10/19/17 15:03
Matrix: Water
Date Received: 10/20/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	301050	10/28/17 14:01	LEE	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 17302, RACER Delphi Anderson

TestAmerica Job ID: 240-86803-1

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-18 *
West Virginia DEP	State Program	3	210	12-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

CONESTOGA-ROVERS & ASSOCIATES

3.4/C3.4

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: IN- 14981
PAGE 1 OF 1
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017302-T07	Laboratory Name: TestAmerica NorthCanton	Lab Location: NorthCanton, OH	SSOW ID: 017302-T07
Project Name: MLK	Lab Contact: Renee Heckler	Lab Quote No:	Cooler No: 1 of 1
Project Location: Anderson, IN			Carrier: fed ex
Chemistry Contact: Deborah Andraska			Airbill No:
Sampler(s): Brynn Einelker			Date Shipped: 10/19/17

Item	Sample Identification (# of containers for each sample may be continued on next line)	Date (mm/dd/yy)	Time (hh:mm)	Sample Type: Matrix Code (see back of COC)	Sample Type: Grab (G) or Comp (C)	Container Quantity & Preservation: Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x3-g, 1x25-g	Other:	Total Containers/Sample	Analysis Requested: VOC	MS/MSD Request	Comments/ Special Instructions:
1	SW-101917-BE-001	10/19/17	1220	WS	G		3							3	✓		
2	SW-101917-BE-002	10/19/17	1230	WS	G		3							3	✓		
3	EB-101917-BE-005	10/19/17	1310	EB	G		3							3	✓		
4	W-101917-BE-001	10/19/17	1405	WW	G		3							3	✓		
5	TB-101917-BE-006	10/19/17	1503	TB	G		1							1	✓		
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

240-96803 Chain of Custody

JRA 10/25/2017

TAT Required in business days (use separate COCs for different TATs)
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 13
All Samples in Cooler must be on COC

Notes/ Special Requirements:

	Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1	Brynn Einelker	GHD	10/19/17	1520	1	TA	10/20/17	915
2					2			
3					3			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form COC-10A (20130804)

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES

3.4/C3.4

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: IN- 14981
PAGE 1 OF 1
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017302-T07	Laboratory Name: TestAmerica, North Canton	Lab Location: North Canton, OH	SSOW ID: 017302-T07
Project Name: MLK	Lab Contact: Denise Hecker	Lab Quote No:	Cooler No: 1 of 1
Project Location: Anderson, IN			Carrier: fed ex
Chemistry Contact: Deborah Andraska			Airbill No:
Sampler(s): Brynn Einecker			Date Shipped: 10/19/17

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd//yy)	Time (hh:mm)	Sample Type: Matrix Code (see back of COC)	Sample Type: Grab (G) or Comp (C)	Container Quantity & Preservation: Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	Analysis Requested (See Back of COC for Definitions): VOC	MS/MSD Request	Comments/ Special Instructions:
1	SW-101917-BE-001	10/19/17	1220	WS	G		3							3	✓		
2	SW-101917-BE-002	10/19/17	1230	WS	G		3							3	✓		
3	EB-101917-BE-005	10/19/17	1310	EB	G		3							3	✓		
4	W-101917-BE-001	10/19/17	1405	WW	G		3							3	✓		
5	TB-101917-BE-006	10/19/17	1503	TB	G		1							1	✓		
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

240-86803 Chain of Custody

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 13
All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Brynn Einecker	GHD	10/19/17	1520	1.	TA	10/20/17	915
				2.			
				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

11/29/2017 (Rev. 1)

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 466403**
Canton Facility

Client CRA Site Name _____ Cooler unpacked by: Zach

Cooler Received on 10/20/17 Opened on 10/20/17

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box (Client Cooler) Box Other _____

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp. 3.4 °C Corrected Cooler Temp. 3.4 °C

IR GUN #36 (CF +0.3°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN # 627 (CF -1.3°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3. Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5. Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	(Yes)	No
7. Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8. Could all bottle labels be reconciled with the COC?	(Yes)	No
9. Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
10. Sufficient quantity received to perform indicated analyses?	(Yes)	No
11. Are these work share samples?	Yes	(No)
If yes, Questions 11-15 have been checked at the originating laboratory.		
11. Were all preserved sample(s) at the correct pH upon receipt?	Yes No	(NA)
12. Were VOAs on the COC?	(Yes)	No
13. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	(No) NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Covered	(Yes)	No
15. Was a LL Hg or Me Hg trip blank present? _____	Yes	(No)

pH Strip Lot# **HC697954**

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

17. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

Appendix C
Data Quality Assessment and Validation Reports

Appendix C.1
April 2016 Data Validation Report

Memorandum

May 15, 2017

To:	Rob Catallo	Ref. No.:	017302-T07
From:	Deb Andrasko/mkd/59-NF	Tel:	716-297-6150
cc:	Tyler Wittmaier		

Subject: **Analytical Results and Reduced Validation**
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust – MLK Boulevard Facility
Anderson, Indiana
April 2017

1. Introduction

This document details a reduced validation of analytical results for surface water and groundwater samples collected in support of the Surface Water and Site-Wide Groundwater Monitoring at the Anderson, Indiana Site during April 2017. Samples were submitted to TestAmerica Laboratory, located in North Canton, Ohio. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spikes (MS) and field QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

i). "Quality Assurance Project Plan (QAPP) for the Resource Conservation and Recovery Act (RCRA) Facility Investigation at GM Anderson, Indiana Facility", IND 980 700 801, Revision 2, October 14, 1997

ii). "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008

Items i) and ii) will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect with the exception of benzene present at a low concentration in one of the blanks. Only a trip blank was associated and no qualification was required.

4. Surrogate Spike Recoveries - Organic Analyses

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC) determinations were spiked with the appropriate number of surrogate compounds prior to sample analysis.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries met the above criteria.

5. Laboratory Control Sample Analyses

LCS are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

For this study, LCS were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

The LCS contained all analytes of interest. All LCS recoveries were within laboratory control limits, with the exception of high recoveries for some compounds. The associated sample results were non-detect and would not have been impacted. No qualification of the data was deemed necessary.

6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with known concentrations of the analytes of concern

and analyzed as MS/MSD samples. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed as specified in Table 1.

The MS/MSD samples were spiked with the analytes of interest. All percent recoveries and RPD values were within the laboratory control limits with the exception of one compound with a high RPD. The associated sample results were non-detect and would not be impacted by the implied variability.

7. Field QA/QC Samples

The field QA/QC consisted of 1 trip blank sample, 1 equipment rinse blank sample, and 2 field duplicate sample sets.

Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, a trip blank was submitted to the laboratory for VOC analysis. All results were non-detect for the compounds of interest with the exception of a low concentration of benzene. All associated samples were non-detect and were not impacted.

Rinse Blank Sample Analysis

To assess field decontamination procedures, ambient conditions at the site, and cleanliness of sample containers, rinse blanks were submitted for analysis, as identified in Table 1. All results were non-detect for the analytes of interest with the exception of cis-1,2-dichloroethene present at a low concentration. An associated sample with a similar result was qualified as non-detect (see Table 4).

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, field duplicate sample sets were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criteria is one times the RL value.

All field duplicate results were in agreement, demonstrating acceptable sampling and analytical precision.

8. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the RL but greater than the MDL were reported as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL in Table 2.

9. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific qualification noted herein.

Table 1

Sample Collection and Analysis Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
April 2017

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis: Volatiles	Comments
GW-17302-041717-TW-01	MW 68	Groundwater	04/17/2017	16:00	X	
GW-17302-041717-TW-02	MW 79	Groundwater	04/17/2017	17:30	X	
GW-17302-041717-TW-03	MW 79	Groundwater	04/17/2017	17:35	X	FD (GW-17302-041717-TW-02)
GW-17302-041817-TW-04	MW-4	Groundwater	04/18/2017	10:50	X	
GW-17302-041817-TW-05	MW 85	Groundwater	04/18/2017	12:20	X	MS/MSD
GW-17302-041817-TW-06	MW 51	Groundwater	04/18/2017	14:40	X	
GW-17302-041817-TW-07	MW 14	Groundwater	04/18/2017	15:55	X	
GW-17302-041817-TW-08	MW 14	Groundwater	04/18/2017	16:00	X	FD (GW-17302-041817-TW-07)
GW-17302-041817-TW-09	MW 8	Groundwater	04/18/2017	17:10	X	
GW-17302-041817-TW-10	MW 3	Groundwater	04/18/2017	18:15	X	
GW-17302-041917-TW-11	MW 12	Groundwater	04/19/2017	09:35	X	
GW-17302-041917-TW-12	MW 31R	Groundwater	04/19/2017	10:55	X	
GW-17302-041917-TW-13	MW89-11	Groundwater	04/19/2017	11:55	X	
GW-17302-041917-TW-14	MW 66	Groundwater	04/19/2017	13:05	X	
GW-17302-041917-TW-15	MW 40	Groundwater	04/19/2017	14:40	X	
GW-17302-041917-TW-16	MW 41	Groundwater	04/19/2017	15:40	X	MS/MSD
GW-17302-041917-TW-17	MW 42	Groundwater	04/19/2017	16:25	X	
GW-17302-041917-TW-18	MW 28	Groundwater	04/19/2017	17:30	X	
SW-17302-041817-TW-01	Pond North	Surfacewater	04/18/2017	12:10	X	
SW-17302-041817-TW-02	Pond North	Surfacewater	04/18/2017	12:15	X	
SW-17302-041817-TW-03	Pond Intake	Surfacewater	04/18/2017	12:40	X	
TB-17302-041717-TW-01	--	Water	04/17/2017	--	X	Trip Blank
EB-17302-041917-TW-01	--	Water	04/19/2017	17:50	X	Equipment Blank

Notes:

MS/MSD - Matrix Spike/Matrix Spike Duplicate
-- - Not applicable
FD - Field duplicate of sample in parantheses

Table 2

Analytical Results Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust – MLK Boulevard Facility
Anderson, Indiana
April 2017

Location ID:		MW 3	MW 8	MW 12	MW 14	MW 14
Sample Name:		GW-17302-041817-TW-10	GW-17302-041817-TW-09	GW-17302-041917-TW-11	GW-17302-041817-TW-07	GW-17302-041817-TW-08
Sample Date:		04/18/2017	04/18/2017	04/19/2017	04/18/2017	04/18/2017 Duplicate
Parameters	**Unit**					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	380	100 U	2.5 U	130 U	130 U
1,1,2,2-Tetrachloroethane	µg/L	250 U	100 U	2.5 U	130 U	130 U
1,1,2-Trichloroethane	µg/L	250 U	100 U	2.5 U	130 U	130 U
1,1-Dichloroethane	µg/L	270	36 J	0.94 J	38 J	33 J
1,1-Dichloroethene	µg/L	75 J	100 U	2.5 U	130 U	130 U
1,2-Dichloroethane	µg/L	250 U	100 U	2.5 U	130 U	130 U
1,2-Dichloropropane	µg/L	250 U	100 U	2.5 U	130 U	130 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	2500 U	1000 U	25 U	1300 U	1300 U
2-Hexanone	µg/L	2500 U	1000 U	25 U	1300 U	1300 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	2500 U	1000 U	25 U	1300 U	1300 U
Acetone	µg/L	2500 U	1000 U	25 U	1300 U	1300 U
Benzene	µg/L	250 U	100 U	2.5 U	130 U	130 U
Bromodichloromethane	µg/L	250 U	100 U	2.5 U	130 U	130 U
Bromoform	µg/L	250 U	100 U	2.5 U	130 U	130 U
Bromomethane (Methyl bromide)	µg/L	250 U	100 U	2.5 U	130 U	130 U
Carbon disulfide	µg/L	250 U	100 U	2.5 U	130 U	130 U
Carbon tetrachloride	µg/L	250 U	100 U	2.5 U	130 U	130 U
Chlorobenzene	µg/L	250 U	100 U	2.5 U	130 U	130 U
Chloroethane	µg/L	250 U	100 U	2.5 U	130 U	130 U
Chloroform (Trichloromethane)	µg/L	250 U	100 U	2.5 U	130 U	130 U
Chloromethane (Methyl chloride)	µg/L	250 U	100 U	2.5 U	130 U	130 U
cis-1,2-Dichloroethene	µg/L	7400	3100	110	4100	3900
cis-1,3-Dichloropropene	µg/L	250 U	100 U	2.5 U	130 U	130 U
Dibromochloromethane	µg/L	250 U	100 U	2.5 U	130 U	130 U
Ethylbenzene	µg/L	250 U	100 U	2.5 U	130 U	130 U
Methylene chloride	µg/L	250 U	100 U	2.5 U	130 U	130 U
Styrene	µg/L	250 U	100 U	2.5 U	130 U	130 U
Tetrachloroethene	µg/L	250 U	100 U	2.5 U	130 U	130 U
Toluene	µg/L	250 U	100 U	2.5 U	130 U	130 U
trans-1,2-Dichloroethene	µg/L	250 U	100 U	1.2 J	130 U	130 U
trans-1,3-Dichloropropene	µg/L	250 U	100 U	2.5 U	130 U	130 U
Trichloroethene	µg/L	11000	90 J	0.85 J	130 U	130 U
Vinyl chloride	µg/L	250 U	1600	2.5 U	130	130
Xylenes (total)	µg/L	500 U	200 U	5.0 U	250 U	250 U

Table 2

Analytical Results Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust – MLK Boulevard Facility
Anderson, Indiana
April 2017

Location ID:	MW 28	MW 31R	MW 40	MW 41	MW 42
Sample Name:	GW-17302-041917-TW-18	GW-17302-041917-TW-12	GW-17302-041917-TW-15	GW-17302-041917-TW-16	GW-17302-041917-TW-17
Sample Date:	04/19/2017	04/19/2017	04/19/2017	04/19/2017	04/19/2017
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	25 U	630 U	130 U	200 U	100 U
1,1,2,2-Tetrachloroethane	µg/L	25 U	630 U	130 U	200 U	100 U
1,1,2-Trichloroethane	µg/L	25 U	630 U	130 U	200 U	100 U
1,1-Dichloroethane	µg/L	25 U	400 J	170	200 U	100 U
1,1-Dichloroethene	µg/L	25 U	630 U	130 U	200 U	100 U
1,2-Dichloroethane	µg/L	25 U	630 U	130 U	200 U	100 U
1,2-Dichloropropane	µg/L	25 U	630 U	130 U	200 U	100 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	250 U	6300 U	1300 U	2000 U	1000 U
2-Hexanone	µg/L	250 U	6300 U	1300 U	2000 U	1000 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	250 U	6300 U	1300 U	2000 U	1000 U
Acetone	µg/L	250 U	6300 U	1300 U	2000 U	1000 U
Benzene	µg/L	25 U	630 U	130 U	200 U	100 U
Bromodichloromethane	µg/L	25 U	630 U	130 U	200 U	100 U
Bromoform	µg/L	25 U	630 U	130 U	200 U	100 U
Bromomethane (Methyl bromide)	µg/L	25 U	630 U	130 U	200 U	100 U
Carbon disulfide	µg/L	25 U	630 U	130 U	200 U	100 U
Carbon tetrachloride	µg/L	25 U	630 U	130 U	200 U	100 U
Chlorobenzene	µg/L	25 U	630 U	130 U	200 U	100 U
Chloroethane	µg/L	25 U	630 U	130 U	200 U	100 U
Chloroform (Trichloromethane)	µg/L	25 U	630 U	130 U	200 U	100 U
Chloromethane (Methyl chloride)	µg/L	25 U	630 U	130 U	200 U	100 U
cis-1,2-Dichloroethene	µg/L	850	18000	5400	6000	2900
cis-1,3-Dichloropropene	µg/L	25 U	630 U	130 U	200 U	100 U
Dibromochloromethane	µg/L	25 U	630 U	130 U	200 U	100 U
Ethylbenzene	µg/L	25 U	680	130 U	200 U	100 U
Methylene chloride	µg/L	25 U	630 U	130 U	200 U	100 U
Styrene	µg/L	25 U	630 U	130 U	200 U	100 U
Tetrachloroethene	µg/L	25 U	630 U	130 U	200 U	100 U
Toluene	µg/L	25 U	2000	130 U	200 U	100 U
trans-1,2-Dichloroethene	µg/L	18 J	630 U	73 J	93 J	80 J
trans-1,3-Dichloropropene	µg/L	25 U	630 U	130 U	200 U	100 U
Trichloroethene	µg/L	25 U	630 U	400	200 U	35 J
Vinyl chloride	µg/L	180	2000	260	440	220
Xylenes (total)	µg/L	50 U	1800	250 U	400 U	200 U

Table 2

Analytical Results Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust – MLK Boulevard Facility
Anderson, Indiana
April 2017

Location ID:	MW 51	MW 66	MW 68	MW 79	MW 79
Sample Name:	GW-17302-041817-TW-06	GW-17302-041917-TW-14	GW-17302-041717-TW-01	GW-17302-041717-TW-02	GW-17302-041717-TW-03
Sample Date:	04/18/2017	04/19/2017	04/17/2017	04/17/2017	04/17/2017 Duplicate
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	3.3 U	63 U	130 U	63 U	130 U
1,1,2,2-Tetrachloroethane	µg/L	3.3 U	63 U	130 U	63 U	130 U
1,1,2-Trichloroethane	µg/L	3.3 U	63 U	130 U	63 U	130 U
1,1-Dichloroethane	µg/L	3.3 U	92	160	63 U	130 U
1,1-Dichloroethene	µg/L	3.3 U	63 U	130 U	63 U	130 U
1,2-Dichloroethane	µg/L	3.3 U	63 U	130 U	63 U	130 U
1,2-Dichloropropane	µg/L	3.3 U	63 U	130 U	63 U	130 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	33 U	630 U	1300 U	630 U	1300 U
2-Hexanone	µg/L	33 U	630 U	1300 U	630 U	1300 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	33 U	630 U	1300 U	630 U	1300 U
Acetone	µg/L	33 U	630 U	1300 U	630 U	1300 U
Benzene	µg/L	3.3 U	63 U	130 U	63 U	130 U
Bromodichloromethane	µg/L	3.3 U	63 U	130 U	63 U	130 U
Bromoform	µg/L	3.3 U	63 U	130 U	63 U	130 U
Bromomethane (Methyl bromide)	µg/L	3.3 U	63 U	130 U	63 U	130 U
Carbon disulfide	µg/L	3.3 U	63 U	130 U	63 U	130 U
Carbon tetrachloride	µg/L	3.3 U	63 U	130 U	63 U	130 U
Chlorobenzene	µg/L	3.3 U	63 U	130 U	63 U	130 U
Chloroethane	µg/L	3.3 U	63 U	130 U	63 U	130 U
Chloroform (Trichloromethane)	µg/L	3.3 U	63 U	130 U	63 U	130 U
Chloromethane (Methyl chloride)	µg/L	3.3 U	63 U	130 U	63 U	130 U
cis-1,2-Dichloroethene	µg/L	15	2200	3700	2300	2300
cis-1,3-Dichloropropene	µg/L	3.3 U	63 U	130 U	63 U	130 U
Dibromochloromethane	µg/L	3.3 U	63 U	130 U	63 U	130 U
Ethylbenzene	µg/L	3.3 U	63 U	130 U	63 U	130 U
Methylene chloride	µg/L	3.3 U	63 U	130 U	63 U	130 U
Styrene	µg/L	3.3 U	63 U	130 U	63 U	130 U
Tetrachloroethene	µg/L	3.3 U	63 U	130 U	63 U	130 U
Toluene	µg/L	3.3 U	63 U	130 U	63 U	130 U
trans-1,2-Dichloroethene	µg/L	3.3 U	94	150	95	88 J
trans-1,3-Dichloropropene	µg/L	3.3 U	63 U	130 U	63 U	130 U
Trichloroethene	µg/L	140	63 U	1500	63 U	130 U
Vinyl chloride	µg/L	4.1	110	130	190	190
Xylenes (total)	µg/L	6.7 U	130 U	250 U	130 U	250 U

Table 2

Analytical Results Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust – MLK Boulevard Facility
Anderson, Indiana
April 2017

Location ID:		**MW 85**	**MW-4**	**MW89-11**	**Pond Intake**	**Pond North**
Sample Name:		**GW-17302-041817-TW-05**	**GW-17302-041817-TW-04**	**GW-17302-041917-TW-13**	**SW-17302-041817-TW-03**	**SW-17302-041817-TW-01**
Sample Date:		**04/18/2017**	**04/18/2017**	**04/19/2017**	**04/18/2017**	**04/18/2017**
Parameters	**Unit**					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	330 U	330 U	0.33 J	1.7 U	6.7 U
1,1,2,2-Tetrachloroethane	µg/L	330 U	330 U	1.0 U	1.7 U	6.7 U
1,1,2-Trichloroethane	µg/L	330 U	330 U	1.0 U	1.7 U	6.7 U
1,1-Dichloroethane	µg/L	320 J	340	1.0 U	2.8	9.8
1,1-Dichloroethene	µg/L	330 U	330 U	1.0 U	1.7 U	6.7 U
1,2-Dichloroethane	µg/L	330 U	330 U	1.0 U	1.7 U	6.7 U
1,2-Dichloropropane	µg/L	330 U	330 U	1.0 U	1.7 U	6.7 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	3300 U	3300 U	10 U	17 U	67 U
2-Hexanone	µg/L	3300 U	3300 U	10 U	17 U	67 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	3300 U	3300 U	10 U	17 U	67 U
Acetone	µg/L	3300 U	3300 U	10 U	17 U	67 U
Benzene	µg/L	330 U	330 U	1.0 U	1.7 U	6.7 U
Bromodichloromethane	µg/L	330 U	330 U	1.0 U	1.7 U	6.7 U
Bromoform	µg/L	330 U	330 U	1.0 U	1.7 U	6.7 U
Bromomethane (Methyl bromide)	µg/L	330 U	330 U	1.0 U	1.7 U	6.7 U
Carbon disulfide	µg/L	330 U	330 U	1.0 U	1.7 U	6.7 U
Carbon tetrachloride	µg/L	330 U	330 U	1.0 U	1.7 U	6.7 U
Chlorobenzene	µg/L	330 U	330 U	1.0 U	1.7 U	6.7 U
Chloroethane	µg/L	330 U	330 U	1.0 U	1.7 U	6.7 U
Chloroform (Trichloromethane)	µg/L	330 U	330 U	1.0 U	1.7 U	6.7 U
Chloromethane (Methyl chloride)	µg/L	330 U	330 U	1.0 U	1.7 U	6.7 U
cis-1,2-Dichloroethene	µg/L	8400	8600	3.3 U	59	210
cis-1,3-Dichloropropene	µg/L	330 U	330 U	1.0 U	1.7 U	6.7 U
Dibromochloromethane	µg/L	330 U	330 U	1.0 U	1.7 U	6.7 U
Ethylbenzene	µg/L	330 U	330 U	0.39 J	1.7 U	6.7 U
Methylene chloride	µg/L	330 U	330 U	1.0 U	1.7 U	6.7 U
Styrene	µg/L	330 U	330 U	1.0 U	1.7 U	6.7 U
Tetrachloroethene	µg/L	330 U	330 U	1.0 U	1.7 U	6.7 U
Toluene	µg/L	330 U	330 U	0.84 J	1.7 U	6.7 U
trans-1,2-Dichloroethene	µg/L	280 J	260 J	1.0 U	2.3	9.2
trans-1,3-Dichloropropene	µg/L	330 U	330 U	1.0 U	1.7 U	6.7 U
Trichloroethene	µg/L	330 U	1100	0.36 J	1.7 U	6.7 U
Vinyl chloride	µg/L	420	840	1.0 U	6.3	11
Xylenes (total)	µg/L	670 U	670 U	1.4 J	3.3 U	13 U

Table 2

Analytical Results Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust – MLK Boulevard Facility
Anderson, Indiana
April 2017

Location ID:	**Pond North**
Sample Name:	**SW-17302-041817-TW-02**
Sample Date:	**04/18/2017**

Parameters	**Unit**	
Volatile Organic Compounds		
1,1,1-Trichloroethane	µg/L	6.7 U
1,1,2,2-Tetrachloroethane	µg/L	6.7 U
1,1,2-Trichloroethane	µg/L	6.7 U
1,1-Dichloroethane	µg/L	9.7
1,1-Dichloroethene	µg/L	6.7 U
1,2-Dichloroethane	µg/L	6.7 U
1,2-Dichloropropane	µg/L	6.7 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	67 U
2-Hexanone	µg/L	67 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	67 U
Acetone	µg/L	67 U
Benzene	µg/L	6.7 U
Bromodichloromethane	µg/L	6.7 U
Bromoform	µg/L	6.7 U
Bromomethane (Methyl bromide)	µg/L	6.7 U
Carbon disulfide	µg/L	6.7 U
Carbon tetrachloride	µg/L	6.7 U
Chlorobenzene	µg/L	6.7 U
Chloroethane	µg/L	6.7 U
Chloroform (Trichloromethane)	µg/L	6.7 U
Chloromethane (Methyl chloride)	µg/L	6.7 U
cis-1,2-Dichloroethene	µg/L	200
cis-1,3-Dichloropropene	µg/L	6.7 U
Dibromochloromethane	µg/L	6.7 U
Ethylbenzene	µg/L	6.7 U
Methylene chloride	µg/L	6.7 U
Styrene	µg/L	6.7 U
Tetrachloroethene	µg/L	6.7 U
Toluene	µg/L	6.7 U
trans-1,2-Dichloroethene	µg/L	8.4
trans-1,3-Dichloropropene	µg/L	6.7 U
Trichloroethene	µg/L	6.7 U
Vinyl chloride	µg/L	10
Xylenes (total)	µg/L	13 U

Notes:

J - Estimated Concentration
U - Not detected at the associated reporting limit

Table 3

Analytical Methods
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
April 2017

Parameter	Method	Matrix	Holding Time Collection to Analysis (Days)
Volatiles	SW-846 8260B [1]	Water	14

Notes:

[1] - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions

Table 4

Qualified Sample Data Due to Analyte Concentrations in the Rinse Blanks
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
April 2017

Parameter	Rinse Blank ID	Blank Date (dd/mm/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
Volatiles	EB-17302-041917-TW-01	04/19/2017	cis-1,2-Dichloroethene	1.2	GW-17302-041917-TW-13	3.3	3.3 U	µg/l

Notes:

U - Not detected at the associated reporting limit

Appendix C.2
July and October 2016 Data Validation Report

Memorandum

December 1, 2017

To:	Rob Catallo	Ref. No.:	017302-T07
From:	Deb Andrasko/mkd/61-NF	Tel:	716-297-6150
cc:	Tyler Wittmaier		

Subject: **Analytical Results and Reduced Validation**
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust – MLK Boulevard Facility
Anderson, Indiana
July - October 2017

1. Introduction

This document details a reduced validation of analytical results for surface water and groundwater samples collected in support of the Surface Water and Site-Wide Groundwater Monitoring at the Anderson, Indiana Site from July to October 2017. Samples were submitted to TestAmerica Laboratory, located in North Canton, Ohio. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spikes (MS) and field QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical method referenced in Table 3 and applicable guidance from the documents entitled:

i). "Quality Assurance Project Plan (QAPP) for the Resource Conservation and Recovery Act (RCRA) Facility Investigation at GM Anderson, Indiana Facility", IND 980 700 801, Revision 2, October 14, 1997

ii). "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008

Items i) and ii) will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect with the exception of acetone and methylene chloride present at a low concentration in some of the blanks. All associated samples with similar concentrations were qualified as non-detect based on the potential laboratory contamination (see Table 4).

4. Surrogate Spike Recoveries - Organic Analyses

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC) determinations were spiked with the appropriate number of surrogate compounds prior to sample analysis.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries met criteria.

5. Laboratory Control Sample Analyses

LCS are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

For this study, LCS were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

The LCS contained all analytes of interest. Most LCS recoveries were within laboratory control limits. High recoveries were reported for two compounds. The associated sample results were non-detect and would not have been impacted. A severely low recovery of less than ten percent was reported for one compound. All

associated sample results were non-detect and were rejected based on the significantly poor analytical accuracy demonstrated (see Table 5).

6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with known concentrations of the analytes of concern and analyzed as MS/MSD samples. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed as specified in Table 1.

The MS/MSD samples were spiked with the analytes of interest. All percent recoveries and RPD values were within the laboratory control limits with the exception of a few compounds with high RPD. The associated sample results were non-detect and would not be impacted by the implied variability.

7. Field QA/QC Samples

The field QA/QC consisted of 7 trip blank samples, 5 equipment rinse blank samples, and 6 field duplicate sample sets.

Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, trip blanks were submitted to the laboratory for VOC analysis. All results were non-detect for the compounds of interest with the exception of low concentrations of acetone and methylene chloride. All associated samples with similar concentrations were qualified as non-detect (see Table 6).

Rinse Blank Sample Analysis

To assess field decontamination procedures, ambient conditions at the site, and cleanliness of sample containers, rinse blanks were submitted for analysis, as identified in Table 1. All results were non-detect for the compounds of interest with the exception of low concentrations of acetone and methylene chloride. All associated samples with similar concentrations were qualified as non-detect (see Table 7).

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, field duplicate sample sets were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criteria is one times the RL value.

All field duplicate results were in agreement, demonstrating acceptable sampling and analytical precision.

8. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the RL but greater than the MDL were reported as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL in Table 2.

9. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific qualifications and exceptions noted herein.

Table 1

Sample Collection and Analysis Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
July - October 2017

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis: Volatiles	Comments
SW-071217-TP-001	Pond Intake	Surface water	07/12/2017	10:15	X	MS/MSD
SW-071217-TP-002	Pond North	Surface water	07/12/2017	11:15	X	
SW-071217-TP-003	Pond North	Surface water	07/12/2017	12:15	X	FD (SW-071217-TP-002)
TB-071217-TP-001	-	Water	07/12/2017	13:15	X	Trip Blank
GW-100617-BE-004	MW 12	Groundwater	10/06/2017	14:15	X	
GW-100617-BE-001	MW 65	Groundwater	10/06/2017	15:15	X	
GW-100617-BE-003	MW 80	Groundwater	10/06/2017	16:15	X	
GW-100617-BE-002	MW 81	Groundwater	10/06/2017	17:15	X	
GW-100917-BE-006	MW 28	Groundwater	10/09/2017	18:15	X	
GW-100917-BE-008	MW 41	Groundwater	10/09/2017	19:15	X	
GW-100917-BE-007	MW 42	Groundwater	10/09/2017	20:15	X	
GW-100917-BE-005	MW 61	Groundwater	10/09/2017	21:15	X	
GW-101017-BE-010	MW 40	Groundwater	10/10/2017	22:15	X	
GW-101017-BE-011	MW 40	Groundwater	10/10/2017	23:15	X	FD (GW-101017-BE-010)
GW-101017-BE-009	MW 64	Groundwater	10/10/2017	00:15	X	
GW-101017-BE-012	MW 66	Groundwater	10/10/2017	01:15	X	
TB-101017-BE-001	-	Water	10/10/2017	02:15	X	Trip Blank
EB-101117-BE-001	-	Water	10/11/2017	03:15	X	Equipment Blank
GW-101117-BE-016	MW 15	Groundwater	10/11/2017	04:15	X	
GW-101117-BE-013	MW 68	Groundwater	10/11/2017	05:15	X	
GW-101117-BE-015	MW 79	Groundwater	10/11/2017	06:15	X	
GW-101117-BE-014	MW 83	Groundwater	10/11/2017	07:15	X	
TB-101117-BE-002	-	Water	10/11/2017	08:15	X	Trip Blank
GW-101217-BE-018	MW 3	Groundwater	10/12/2017	09:15	X	
GW-101217-BE-019	MW 8	Groundwater	10/12/2017	10:15	X	
GW-101217-BE-022	MW 16	Groundwater	10/12/2017	11:15	X	
GW-101217-BE-017	MW 31R	Groundwater	10/12/2017	12:15	X	MS/MSD
GW-101217-BE-020	MW 82	Groundwater	10/12/2017	13:15	X	

Table 1

Sample Collection and Analysis Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
July - October 2017

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis: Volatiles	Comments
GW-101217-BE-021	MW 82	Groundwater	10/12/2017	14:15	X	FD (GW-101217-BE-020)
TB-101217-BE-003	-	Water	10/12/2017	15:15	X	Trip Blank
EB-101317-BE-002	-	Water	10/13/2017	16:15	X	Equipment Blank
GW-101317-BE-026	MW 14	Groundwater	10/13/2017	17:15	X	
GW-101317-BE-027	MW 14	Groundwater	10/13/2017	18:15	X	FD (GW-101317-BE-026)
GW-101317-BE-025	MW 84	Groundwater	10/13/2017	19:15	X	
GW-101317-BE-024	MW 86	Groundwater	10/13/2017	20:15	X	MS/MSD
GW-101317-BE-023	MW 88	Groundwater	10/13/2017	21:15	X	
EB-101617-BE-003	-	Water	10/16/2017	22:15	X	Equipment Blank
GW-101617-BE-028	MW 37	Groundwater	10/16/2017	23:15	X	MS/MSD
GW-101617-BE-029	MW 46	Groundwater	10/16/2017	00:15	X	
GW-101617-BE-031	MW 51	Groundwater	10/16/2017	01:15	X	
GW-101617-BE-030	MW 75	Groundwater	10/16/2017	02:15	X	
EB-101717-BE-004	-	Water	10/17/2017	03:15	X	Equipment Blank
GW-101717-BE-035	MW 58	Groundwater	10/17/2017	04:15	X	
GW-101717-BE-034	MW 85	Groundwater	10/17/2017	05:15	X	
GW-101717-BE-036	MW-2	Groundwater	10/17/2017	06:15	X	
GW-101717-BE-032	MW-4	Groundwater	10/17/2017	07:15	X	
GW-101717-BE-033	MW-4	Groundwater	10/17/2017	08:15	X	FD (GW-101717-BE-032)
GW-101717-BE-037	MW89-11	Groundwater	10/17/2017	09:15	X	
TB-101717-BE-004	-	Water	10/17/2017	10:15	X	Trip Blank
GW-101817-BE-039	MW 21	Groundwater	10/18/2017	11:15	X	
GW-101817-BE-044	MW 56	Groundwater	10/18/2017	12:15	X	
GW-101817-BE-043	MW 57	Groundwater	10/18/2017	13:15	X	
GW-101817-BE-038	MW 76	Groundwater	10/18/2017	14:15	X	
GW-101817-BE-040	MW-7	Groundwater	10/18/2017	15:15	X	
GW-101817-BE-041	MW-7	Groundwater	10/18/2017	16:15	X	FD (GW-101817-BE-040)
GW-101817-BE-042	MW97R-16	Groundwater	10/18/2017	17:15	X	

Table 1

Sample Collection and Analysis Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
July - October 2017

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis: Volatiles	Comments
TB-101817-BE-005	-	Water	10/18/2017	18:15	X	Trip Blank
EB-101917-BE-005	-	Water	10/19/2017	19:15	X	Equipment Blank
SW-101917-BE-001	Pond Intake	Surface water	10/19/2017	20:15	X	
SW-101917-BE-002	Pond North	Surface water	10/19/2017	21:15	X	
TB-101917-BE-006	-	Water	10/19/2017	22:15	X	Trip Blank

Notes:

MS/MSD - Matrix Spike/Matrix Spike Duplicate
-- - Not applicable
FD - Field duplicate of sample in parantheses

Table 2

Analytical Results Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust – MLK Boulevard Facility
Anderson, Indiana
July - October 2017

Location ID:		MW 3	MW 8	MW 12	MW 14	MW 14	MW 15	MW 16
Sample Name:		GW-101217-BE-018	GW-101217-BE-019	GW-100617-BE-004	GW-101317-BE-026	GW-101317-BE-027	GW-101117-BE-016	GW-101217-BE-022
Sample Date:		10/12/2017	10/12/2017	10/06/2017	10/13/2017	10/13/2017 Duplicate	10/11/2017	10/12/2017
Parameters	**Unit**							
Volatile Organic Compounds								
1,1,1-Trichloroethane	µg/L	250	100 U	3.3 U	200 U	200 U	320	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	100 U	100 U	3.3 U	200 U	200 U	67 U	1.0 U
1,1,2-Trichloroethane	µg/L	100 U	100 U	3.3 U	200 U	200 U	67 U	1.0 U
1,1-Dichloroethane	µg/L	99 J	47 J	0.90 J	200 U	200 U	99	1.0 U
1,1-Dichloroethene	µg/L	74 J	49 J	3.3 U	200 U	200 U	79	1.0 U
1,2-Dichloroethane	µg/L	100 U	100 U	3.3 U	200 U	200 U	67 U	1.0 U
1,2-Dichloropropane	µg/L	100 U	100 U	3.3 U	200 U	200 U	67 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1000 U	1000 U	33 U	2000 U	2000 U	670 U	10 U
2-Hexanone	µg/L	1000 U	1000 U	33 U	2000 U	2000 U	670 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	1000 U	1000 U	33 U	2000 U	2000 U	670 U	10 U
Acetone	µg/L	1000 U	1000 U	33 U	2000 U	2000 U	670 U	10 U
Benzene	µg/L	100 U	100 U	3.3 U	200 U	200 U	67 U	1.0 U
Bromodichloromethane	µg/L	100 U	100 U	3.3 U	200 U	200 U	67 U	1.0 U
Bromoform	µg/L	100 U	100 U	3.3 U	200 U	200 U	67 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	100 U	100 U	3.3 U	200 U	200 U	67 U	1.0 U
Carbon disulfide	µg/L	100 U	100 U	3.3 U	200 U	200 U	67 U	1.0 U
Carbon tetrachloride	µg/L	100 U	100 U	3.3 U	200 U	200 U	67 U	1.0 U
Chlorobenzene	µg/L	100 U	100 U	3.3 U	200 U	200 U	67 U	1.0 U
Chloroethane	µg/L	100 U	100 U	3.3 U	200 U	200 U	67 U	1.0 U
Chloroform (Trichloromethane)	µg/L	100 U	100 U	3.3 U	200 U	200 U	67 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	100 U	100 U	3.3 U	200 U	200 U	67 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1600	4000	100	4100	4000	3500	1.9
cis-1,3-Dichloropropene	µg/L	100 U	100 U	3.3 U	200 U	200 U	67 U	1.0 U
Dibromochloromethane	µg/L	100 U	100 U	3.3 U	200 U	200 U	67 U	1.0 U
Ethylbenzene	µg/L	100 U	100 U	3.3 U	200 U	200 U	67 U	1.0 U
Methylene chloride	µg/L	100 U	100 U	3.3 U	200 U	200 U	67 U	1.0 U
Styrene	µg/L	100 U	100 U	3.3 U	200 U	200 U	67 U	1.0 U
Tetrachloroethene	µg/L	100 U	100 U	3.3 U	200 U	200 U	67 U	1.0 U
Toluene	µg/L	100 U	100 U	3.3 U	200 U	200 U	67 U	0.27 J
trans-1,2-Dichloroethene	µg/L	100 U	100 U	1.2 J	200 U	200 U	42 J	1.0 U
trans-1,3-Dichloropropene	µg/L	100 U	100 U	3.3 U	200 U	200 U	67 U	1.0 U
Trichloroethene	µg/L	4400	370	3.3 U	200 U	200 U	4100	1.7
Vinyl chloride	µg/L	100 U	1300	3.3 U	150 J	150 J	52 J	30
Xylenes (total)	µg/L	200 U	200 U	6.7 U	400 U	400 U	130 U	2.0 U

Notes:

J - Estimated concertation
U - Not detected at the associated reporting limit
R - Rejected

Table 2

Analytical Results Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust – MLK Boulevard Facility
Anderson, Indiana
July - October 2017

Location ID:		MW 21	MW 28	MW 31R	MW 37	MW 40	MW 40	MW 41
Sample Name:		GW-101817-BE-039	GW-100917-BE-006	GW-101217-BE-017	GW-101617-BE-028	GW-101017-BE-010	GW-101017-BE-011	GW-100917-BE-008
Sample Date:		10/18/2017	10/09/2017	10/12/2017	10/16/2017	10/10/2017	10/10/2017 Duplicate	10/09/2017
Parameters	**Unit**							
Volatile Organic Compounds								
1,1,1-Trichloroethane	µg/L	1.0 U	40 U	830 U	1.0 U	130 U	130 U	200 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	40 U	830 U	1.0 U	130 U	130 U	200 U
1,1,2-Trichloroethane	µg/L	1.0 U	40 U	830 U	1.0 U	130 U	130 U	200 U
1,1-Dichloroethane	µg/L	1.0 U	40 U	1200	1.0 U	170	160	200 U
1,1-Dichloroethene	µg/L	1.0 U	40 U	380 J	1.0 U	67 J	64 J	200 U
1,2-Dichloroethane	µg/L	1.0 U	40 U	830 U	1.0 U	130 U	130 U	200 U
1,2-Dichloropropane	µg/L	1.0 U	40 U	830 U	1.0 U	130 U	130 U	200 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	400 U	8300 U	10 U	1300 U	1300 U	2000 U
2-Hexanone	µg/L	10 U	400 U	8300 U	10 U	1300 U	1300 U	2000 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	400 U	8300 U	10 U	1300 U	1300 U	2000 U
Acetone	µg/L	10 U	400 U	8300 U	10 U	1300 U	1300 U	2000 U
Benzene	µg/L	1.0 U	40 U	830 U	1.0 U	130 U	130 U	200 U
Bromodichloromethane	µg/L	1.0 U	40 U	830 U	1.0 U	130 U	130 U	200 U
Bromoform	µg/L	1.0 U	40 U	830 U	1.0 U	130 U	130 U	200 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	40 U	830 U	1.0 U	130 U	130 U	200 U
Carbon disulfide	µg/L	1.0 U	40 U	830 U	1.0 U	130 U	130 U	200 U
Carbon tetrachloride	µg/L	1.0 U	40 U	830 U	1.0 U	130 U	130 U	200 U
Chlorobenzene	µg/L	1.0 U	40 U	830 U	1.0 U	130 U	130 U	200 U
Chloroethane	µg/L	1.0 U	40 U	830 U	1.0 U	130 U	130 U	200 U
Chloroform (Trichloromethane)	µg/L	1.0 U	40 U	830 U	1.0 U	130 U	130 U	200 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	40 U	830 U	1.0 U	130 U	130 U	200 U
cis-1,2-Dichloroethene	µg/L	1.0 U	920	69000	1.0 U	5400	5500	5400
cis-1,3-Dichloropropene	µg/L	1.0 U	40 U	830 U	1.0 U	130 U	130 U	200 U
Dibromochloromethane	µg/L	1.0 U	40 U	830 U	1.0 U	130 U	130 U	200 U
Ethylbenzene	µg/L	1.0 U	40 U	740 J	1.0 U	130 U	130 U	200 U
Methylene chloride	µg/L	1.0 U	40 U	830 U	13 U	130 U	130 U	200 U
Styrene	µg/L	1.0 U	40 U	830 U	1.0 U	130 U	130 U	200 U
Tetrachloroethene	µg/L	1.0 U	40 U	830 U	1.0 U	130 U	130 U	200 U
Toluene	µg/L	1.0 U	40 U	3600	1.0 U	130 U	130 U	200 U
trans-1,2-Dichloroethene	µg/L	1.0 U	15 J	830 U	1.0 U	61 J	57 J	68 J
trans-1,3-Dichloropropene	µg/L	1.0 U	40 U	830 U	1.0 U	130 U	130 U	200 U
Trichloroethene	µg/L	1.0 U	40 U	830 U	1.0 U	360	350	200 U
Vinyl chloride	µg/L	1.0 U	200	9000	1.0 U	170	180	380
Xylenes (total)	µg/L	2.0 U	80 U	2100	2.0 U	270 U	270 U	400 U

Notes:

J - Estimated concertation
U - Not detected at the associated reporting limit
R - Rejected

Table 2

Analytical Results Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust – MLK Boulevard Facility
Anderson, Indiana
July - October 2017

Location ID:	MW 42	MW 46	MW 51	MW 56	MW 57	MW 58	MW 61
Sample Name:	GW-100917-BE-007	GW-101617-BE-029	GW-101617-BE-031	GW-101817-BE-044	GW-101817-BE-043	GW-101717-BE-035	GW-100917-BE-005
Sample Date:	10/09/2017	10/16/2017	10/16/2017	10/18/2017	10/18/2017	10/17/2017	10/09/2017
Parameters	**Unit**						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/L	100 U	1.0 U	3.3 U	1.0 U	3.3 U	50 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	100 U	1.0 U	3.3 U	1.0 U	3.3 U	50 U	1.0 U
1,1,2-Trichloroethane	µg/L	100 U	1.0 U	3.3 U	1.0 U	3.3 U	50 U	1.0 U
1,1-Dichloroethane	µg/L	100 U	1.0 U	3.3 U	1.0 U	3.3 U	77	1.0 U
1,1-Dichloroethene	µg/L	100 U	1.0 U	1.4 J	1.0 U	3.3 U	50 U	1.0 U
1,2-Dichloroethane	µg/L	100 U	1.0 U	3.3 U	1.0 U	3.3 U	50 U	1.0 U
1,2-Dichloropropane	µg/L	100 U	1.0 U	3.3 U	1.0 U	3.3 U	50 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1000 U	10 U	33 U	10 U	33 U	500 U	10 U
2-Hexanone	µg/L	1000 U	10 U	33 U	10 U	33 U	500 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	1000 U	10 U	33 U	10 U	33 U	500 U	10 U
Acetone	µg/L	1000 U	10 U	33 U	10 U	33 U	500 U	2.1 J
Benzene	µg/L	100 U	1.0 U	3.3 U	1.0 U	3.3 U	50 U	1.0 U
Bromodichloromethane	µg/L	100 U	1.0 U	3.3 U	1.0 U	3.3 U	50 U	1.0 U
Bromoform	µg/L	100 U	1.0 U	3.3 U	1.0 U	3.3 U	50 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	100 U	1.0 U	3.3 U	1.0 U	3.3 U	50 U	1.0 U
Carbon disulfide	µg/L	100 U	1.0 U	3.3 U	1.0 U	3.3 U	50 U	1.0 U
Carbon tetrachloride	µg/L	100 U	1.0 U	3.3 U	1.0 U	3.3 U	50 U	1.0 U
Chlorobenzene	µg/L	100 U	1.0 U	3.3 U	1.0 U	3.3 U	50 U	1.0 U
Chloroethane	µg/L	100 U	1.0 U	3.3 U	1.0 U	3.3 U	50 U	1.0 U
Chloroform (Trichloromethane)	µg/L	100 U	1.0 U	3.3 U	1.0 U	3.3 U	50 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	100 U	1.0 U	3.3 U	1.0 U	3.3 U	50 U	1.0 U
cis-1,2-Dichloroethene	µg/L	3700	1.0 U	28	1.0 U	3.3 U	2200	1.0 U
cis-1,3-Dichloropropene	µg/L	100 U	1.0 U	3.3 U	1.0 U	3.3 U	50 U	1.0 U
Dibromochloromethane	µg/L	100 U	1.0 U	3.3 U	1.0 U	3.3 U	50 U	1.0 U
Ethylbenzene	µg/L	100 U	1.0 U	3.3 U	1.0 U	3.3 U	50 U	1.0 U
Methylene chloride	µg/L	100 U	12 U	65	1.0 U	3.7 U	1100	1.0 U
Styrene	µg/L	100 U	1.0 U	3.3 U	1.0 U	3.3 U	50 U	1.0 U
Tetrachloroethene	µg/L	100 U	1.0 U	3.3 U	1.0 U	3.3 U	50 U	1.0 U
Toluene	µg/L	100 U	1.0 U	3.3 U	1.0 U	3.3 U	50 U	1.0 U
trans-1,2-Dichloroethene	µg/L	95 J	1.0 U	3.3 U	1.0 U	3.3 U	81	1.0 U
trans-1,3-Dichloropropene	µg/L	100 U	1.0 U	3.3 U	1.0 U	3.3 U	50 U	1.0 U
Trichloroethene	µg/L	100 U	1.0 U	150	1.0 U	3.3 U	50 U	1.0 U
Vinyl chloride	µg/L	260	1.0 U	7.3	1.0 U	96	59	1.0 U
Xylenes (total)	µg/L	200 U	2.0 U	6.7 U	2.0 U	6.7 U	100 U	2.0 U

Notes:

J - Estimated concertation
U - Not detected at the associated reporting limit
R - Rejected

Table 2

Analytical Results Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust – MLK Boulevard Facility
Anderson, Indiana
July - October 2017

Location ID:		MW 64	MW 65	MW 66	MW 68	MW 75	MW 76	MW 79
Sample Name:		GW-101017-BE-009	GW-100617-BE-001	GW-101017-BE-012	GW-101117-BE-013	GW-101617-BE-030	GW-101817-BE-038	GW-101117-BE-015
Sample Date:		10/10/2017	10/06/2017	10/10/2017	10/11/2017	10/16/2017	10/18/2017	10/11/2017
Parameters	**Unit**							
Volatile Organic Compounds								
1,1,1-Trichloroethane	µg/L	6.7 U	1.0 U	67 U	100 U	1.0 U	1.0 U	50 U
1,1,2,2-Tetrachloroethane	µg/L	6.7 U	1.0 U	67 U	100 U	1.0 U	1.0 U	50 U
1,1,2-Trichloroethane	µg/L	6.7 U	1.0 U	67 U	100 U	1.0 U	1.0 U	50 U
1,1-Dichloroethane	µg/L	17	1.3	150	180	1.0 U	1.0 U	50 U
1,1-Dichloroethene	µg/L	6.7 U	1.0 U	67 U	55 J	1.0 U	1.0 U	50 U
1,2-Dichloroethane	µg/L	6.7 U	1.0 U	67 U	100 U	1.0 U	1.0 U	50 U
1,2-Dichloropropane	µg/L	6.7 U	1.0 U	67 U	100 U	1.0 U	1.0 U	50 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	67 U	10 U	670 U	1000 U	10 U	10 U	500 U
2-Hexanone	µg/L	67 U	10 U	670 U	1000 U	10 U	10 U	500 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	67 U	10 U	670 U	1000 U	10 U	10 U	500 U
Acetone	µg/L	67 U	10 U	670 U	1000 U	10 U	10 U	500 U
Benzene	µg/L	6.7 U	1.0 U	67 U	100 U	1.0 U	1.0 U	50 U
Bromodichloromethane	µg/L	6.7 U	1.0 U	67 U	100 U	1.0 U	1.0 U	50 U
Bromoform	µg/L	6.7 U	1.0 U	67 U	100 U	1.0 U	1.0 U	50 U
Bromomethane (Methyl bromide)	µg/L	6.7 U	1.0 U	67 U	100 U	1.0 U	1.0 U	50 U
Carbon disulfide	µg/L	6.7 U	1.0 U	67 U	100 U	1.0 U	1.0 U	50 U
Carbon tetrachloride	µg/L	6.7 U	1.0 U	67 U	100 U	1.0 U	1.0 U	50 U
Chlorobenzene	µg/L	6.7 U	1.0 U	67 U	100 U	1.0 U	1.0 U	50 U
Chloroethane	µg/L	6.7 U	1.0 U	67 U	100 U	1.0 U	1.0 U	50 U
Chloroform (Trichloromethane)	µg/L	6.7 U	1.0 U	67 U	100 U	1.0 U	1.0 U	50 U
Chloromethane (Methyl chloride)	µg/L	6.7 U	1.0 U	67 U	100 U	1.0 U	1.0 U	50 U
cis-1,2-Dichloroethene	µg/L	230	20	3000	4200	1.0 U	2.7	2500
cis-1,3-Dichloropropene	µg/L	6.7 U	1.0 U	67 U	100 U	1.0 U	1.0 U	50 U
Dibromochloromethane	µg/L	6.7 U	1.0 U	67 U	100 U	1.0 U	1.0 U	50 U
Ethylbenzene	µg/L	6.7 U	1.0 U	67 U	100 U	1.0 U	1.0 U	50 U
Methylene chloride	µg/L	6.7 U	1.0 U	67 U	100 U	13 U	1.0 U	50 U
Styrene	µg/L	6.7 U	1.0 U	67 U	100 U	1.0 U	1.0 U	50 U
Tetrachloroethene	µg/L	6.7 U	1.0 U	67 U	100 U	1.0 U	1.0 U	50 U
Toluene	µg/L	6.7 U	1.0 U	67 U	100 U	1.0 U	1.0 U	50 U
trans-1,2-Dichloroethene	µg/L	24	1.2	150	160	1.0 U	1.0 U	96
trans-1,3-Dichloropropene	µg/L	6.7 U	1.0 U	67 U	100 U	1.0 U	1.0 U	50 U
Trichloroethene	µg/L	6.7 U	1.0 U	67 U	1600	1.0 U	1.0 U	50 U
Vinyl chloride	µg/L	49	0.74 J	75	160	1.0 U	1.0 U	200
Xylenes (total)	µg/L	13 U	2.0 U	130 U	200 U	2.0 U	2.0 U	100 U

Notes:

J - Estimated concertation
U - Not detected at the associated reporting limit
R - Rejected

Table 2

Analytical Results Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust – MLK Boulevard Facility
Anderson, Indiana
July - October 2017

Location ID:		MW 80	MW 81	MW 82	MW 82	MW 83	MW 84	MW 85
Sample Name:		GW-100617-BE-003	GW-100617-BE-002	GW-101217-BE-020	GW-101217-BE-021	GW-101117-BE-014	GW-101317-BE-025	GW-101717-BE-034
Sample Date:		10/06/2017	10/06/2017	10/12/2017	10/12/2017 Duplicate	10/11/2017	10/13/2017	10/17/2017
Parameters	**Unit**							
Volatile Organic Compounds								
1,1,1-Trichloroethane	µg/L	2.0 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U
1,1,2,2-Tetrachloroethane	µg/L	2.0 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U
1,1,2-Trichloroethane	µg/L	2.0 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U
1,1-Dichloroethane	µg/L	2.0 U	1.4 J	1.0 U	1.0 U	1.0 U	1.0 U	310
1,1-Dichloroethene	µg/L	2.0 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U
1,2-Dichloroethane	µg/L	2.0 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U
1,2-Dichloropropane	µg/L	2.0 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	20 U	33 U	10 U	10 U	10 U	10 U	2000 U
2-Hexanone	µg/L	20 U	33 U	10 U	10 U	10 U	10 U	2000 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	20 U	33 U	10 U	10 U	10 U	10 U	2000 U
Acetone	µg/L	20 U	33 U	10 U	10 U	10 U	10 U	2000 U
Benzene	µg/L	2.0 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U
Bromodichloromethane	µg/L	2.0 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U
Bromoform	µg/L	2.0 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U
Bromomethane (Methyl bromide)	µg/L	2.0 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U
Carbon disulfide	µg/L	2.0 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U
Carbon tetrachloride	µg/L	2.0 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U
Chlorobenzene	µg/L	2.0 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U
Chloroethane	µg/L	2.0 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U
Chloroform (Trichloromethane)	µg/L	2.0 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U
Chloromethane (Methyl chloride)	µg/L	2.0 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U
cis-1,2-Dichloroethene	µg/L	8.6	96	2.0	2.0	0.41 J	1.0 U	8600
cis-1,3-Dichloropropene	µg/L	2.0 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U
Dibromochloromethane	µg/L	2.0 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U
Ethylbenzene	µg/L	2.0 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U
Methylene chloride	µg/L	2.0 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	4300
Styrene	µg/L	2.0 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U
Tetrachloroethene	µg/L	2.0 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U
Toluene	µg/L	2.0 U	3.3 U	0.40 J	0.38 J	1.0 U	1.0 U	200 U
trans-1,2-Dichloroethene	µg/L	2.0 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	290
trans-1,3-Dichloropropene	µg/L	2.0 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U
Trichloroethene	µg/L	2.0 U	3.3 U	0.97 J	0.96 J	0.45 J	1.0 U	200 U
Vinyl chloride	µg/L	41	42	1.0 U	1.0 U	7.6	1.0 U	450
Xylenes (total)	µg/L	4.0 U	6.7 U	0.27 J	0.28 J	2.0 U	2.0 U	400 U

Notes:

J - Estimated concertation
U - Not detected at the associated reporting limit
R - Rejected

Table 2

Analytical Results Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust – MLK Boulevard Facility
Anderson, Indiana
July - October 2017

Location ID:		MW 86	MW 88	MW-2	MW-4	MW-4	MW-7	MW-7
Sample Name:		GW-101317-BE-024	GW-101317-BE-023	GW-101717-BE-036	GW-101717-BE-032	GW-101717-BE-033	GW-101817-BE-040	GW-101817-BE-041
Sample Date:		10/13/2017	10/13/2017	10/17/2017	10/17/2017	10/17/2017 Duplicate	10/18/2017	10/18/2017 Duplicate
Parameters	**Unit**							
Volatile Organic Compounds								
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	160 J	170 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	170 U	170 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	170 U	170 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	370	330	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	120 J	120 J	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	170 U	170 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	170 U	170 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	1700 U	1700 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	1700 U	1700 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	1700 U	1700 U	10 U	10 U
Acetone	µg/L	2.3 J	10 U	10 U	1700 U	1700 U	10 U	10 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	170 U	170 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	170 U	170 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	170 U	170 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	1.0 U	170 U	170 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	170 U	170 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	170 U	170 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	170 U	170 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	170 U	170 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	170 U	170 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	170 U	170 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.4	8600	8000	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	170 U	170 U	1.0 U	1.0 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	170 U	170 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	170 U	170 U	1.0 U	1.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	3200	3500	1.0 U	1.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	170 U	170 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	170 U	170 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	170 U	170 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	200	190	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	170 U	170 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	2400	2100	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	2.3	1.0 U	730	660	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	330 U	330 U	2.0 U	2.0 U

Notes:

J - Estimated concertation
U - Not detected at the associated reporting limit
R - Rejected

Table 2

Analytical Results Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust – MLK Boulevard Facility
Anderson, Indiana
July - October 2017

Location ID:		MW89-11	MW97R-16	Pond Intake	Pond Intake	Pond North	Pond North	Pond North
Sample Name:		GW-101717-BE-037	GW-101817-BE-042	SW-071217-TP-001	SW-101917-BE-001	SW-071217-TP-002	SW-071217-TP-003	SW-101917-BE-002
Sample Date:		10/17/2017	10/18/2017	07/12/2017	10/19/2017	07/12/2017	07/12/2017 Duplicate	10/19/2017
Parameters	**Unit**							
Volatile Organic Compounds								
1,1,1-Trichloroethane	µg/L	2.6	1.0 U	0.92 J	2.0 U	0.94 J	0.95 J	10 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	4.0 U	2.0 U	3.3 U	3.3 U	10 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	4.0 U	2.0 U	3.3 U	3.3 U	10 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	5.9	2.9	5.9	5.7	17
1,1-Dichloroethene	µg/L	0.59 J	1.0 U	4.0 U	2.0 U	3.3 U	3.3 U	10 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	4.0 U	2.0 U	3.3 U	3.3 U	10 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	4.0 U	2.0 U	3.3 U	3.3 U	10 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	40 U	20 U	33 U	33 U	100 U
2-Hexanone	µg/L	10 U	10 U	40 U	20 U	33 U	33 U	100 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	40 U	20 U	33 U	33 U	100 U
Acetone	µg/L	10 U	10 U	40 U	20 U	33 U	33 U	100 U
Benzene	µg/L	1.0 U	1.0 U	4.0 U	2.0 U	3.3 U	3.3 U	10 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	4.0 U	2.0 U	3.3 U	3.3 U	10 U
Bromoform	µg/L	1.0 U	1.0 U	4.0 U	2.0 U	3.3 U	3.3 U	10 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	4.0 U	2.0 U	3.3 U	3.3 U	10 U
Carbon disulfide	µg/L	1.0 U	1.0 U	4.0 U	2.0 U	3.3 U	3.3 U	10 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	4.0 U	2.0 U	3.3 U	3.3 U	10 U
Chlorobenzene	µg/L	1.0 U	1.0 U	4.0 U	2.0 U	3.3 U	3.3 U	10 U
Chloroethane	µg/L	1.0 U	1.0 U	4.0 U	R	3.3 U	3.3 U	R
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	4.0 U	2.0 U	3.3 U	3.3 U	10 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	4.0 U	2.0 U	3.3 U	3.3 U	10 U
cis-1,2-Dichloroethene	µg/L	0.59 J	1.0 U	110	52	110	100	350
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	4.0 U	2.0 U	3.3 U	3.3 U	10 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	4.0 U	2.0 U	3.3 U	3.3 U	10 U
Ethylbenzene	µg/L	1.0 U	1.0 U	4.0 U	2.0 U	3.3 U	3.3 U	10 U
Methylene chloride	µg/L	1.0 U	1.0 U	4.0 U	2.0 U	3.3 U	3.3 U	10 U
Styrene	µg/L	1.0 U	1.0 U	4.0 U	2.0 U	3.3 U	3.3 U	10 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	4.0 U	2.0 U	3.3 U	3.3 U	10 U
Toluene	µg/L	1.0 U	1.0 U	4.0 U	2.0 U	3.3 U	3.3 U	10 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	4.3	1.4 J	4.1	4.0	14
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	4.0 U	2.0 U	3.3 U	3.3 U	10 U
Trichloroethene	µg/L	1.0 U	1.0 U	7.3	2.0 U	7.1	7.3	10 U
Vinyl chloride	µg/L	1.0 U	1.0 U	5.1	4.8	5.3	5.2	17
Xylenes (total)	µg/L	2.0 U	2.0 U	8.0 U	4.0 U	6.7 U	6.7 U	20 U

Notes:

J - Estimated concertation
U - Not detected at the associated reporting limit
R - Rejected

Table 3

Analytical Methods
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
July - October 2017

Parameter	Method	Matrix	Holding Time Collection to Analysis (Days)
Volatiles	SW-846 8260B [1]	Water	14

Notes:

[1] - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846,Third Edition, 1986, with subsequent revisions

Table 4

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust – MLK Boulevard Facility
Anderson, Indiana
July - October 2017

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Sample ID	Original Result	Qualified Result	Units
Volatiles	Acetone	10/22/2017	277 J	GW-101017-BE-011	250 J	1300 U	µg/l
			13.9 J	GW-101017-BE-009	15 J	67 U	µg/l
	Methylene chloride	10/27/2017	1.11	GW-101817-BE-043	3.7	3.7 U	µg/l

Notes:

* - Blank result adjusted for sample factors where applicable
U - Not detected at the associated reporting limit
J - Estimated concentration

Table 5

Qualified Sample Results Due to Outlying Laboratory Control Sample Results
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust – MLK Boulevard Facility
Anderson, Indiana
July - October 2017

Parameter	Analyte	LCS Date (mm/dd/yyyy)	LCS % Recovery	Control Limits % Recovery	Associated Sample ID	Qualified Results	Units
Volatiles	Chloroethane	10/28/2017	9	10-149	SW-101917-BE-001	R	µg/l
					SW-101917-BE-002	R	µg/l

Notes:

LCS - Laboratory Control Sample
R - Rejected

Table 6

Qualified Sample Data Due to Analyte Concentrations in the Trip Blanks
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust – MLK Boulevard Facility
Anderson, Indiana
July - October 2017

Parameter	Blank Date (mm/dd/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
Volatiles	10/11/2017	Acetone	5.9 J	GW-101117-BE-014	2.6 J	10 U	µg/l
	10/12/2017	Acetone	4.1 J	GW-101217-BE-020	3.2 J	10 U	µg/l
				GW-101217-BE-021	1.8 J	10 U	µg/l
				GW-101217-BE-022	3.0 J	10 U	µg/l
	10/17/2017	Acetone	5.0 J	GW-101717-BE-036	2.3 J	10 U	µg/l

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration

Table 7

Qualified Sample Data Due to Analyte Concentrations in the Rinse Blanks
Surface Water and Site-Wide Groundwater Monitoring
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Parameter	Rinse Blank ID	Blank Date (dd/mm/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
Volatiles	EB-101617-BE-003	10/16/2017	Methylene chloride	14	GW-101617-BE-030	13	13 U	µg/l
					GW-101617-BE-028	13	13 U	µg/l
					GW-101617-BE-029	12	12 U	µg/l

Notes:

U - Not detected at the associated reporting limit

Appendix D
Groundwater Data Analysis Tables and Concentration vs. Time Graphs

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Analyte	Location	Date	Result (mg/L)	Outlier	Ambiguous Data	Excluded Data
Trichloroethene	MW-2	5/9/2007	0.001 U	-	-	-
Trichloroethene	MW-2	7/10/2007	0.001 U	-	-	-
Trichloroethene	MW-2	10/17/2007	0.001 U	-	-	-
Trichloroethene	MW-2	6/25/2008	0.001 U	-	-	-
Trichloroethene	MW-2	12/17/2009	0.001 U	-	-	-
Trichloroethene	MW-2	10/28/2010	0.001 U	-	-	-
Trichloroethene	MW-2	10/6/2011	0.001 U	-	-	-
Trichloroethene	MW-2	10/16/2012	0.001 U	-	-	-
Trichloroethene	MW-2	10/29/2013	0.001 U	-	-	-
Trichloroethene	MW-2	10/29/2013	0.001 U	-	-	-
Trichloroethene	MW-2	10/29/2014	0.001 U	-	-	-
Trichloroethene	MW-2	10/19/2015	0.001 U	-	-	-
Trichloroethene	MW-2	10/24/2016	0.001 U	-	-	-
Trichloroethene	MW-2	10/17/2017	0.001 U	-	-	-
Trichloroethene	MW 3	2/1/2005	15	-	-	-
Trichloroethene	MW 3	2/1/2005	15	-	-	-
Trichloroethene	MW 3	10/18/2005	0.013	-	-	-
Trichloroethene	MW 3	1/31/2006	7.9	-	-	-
Trichloroethene	MW 3	4/18/2006	12	-	-	-
Trichloroethene	MW 3	4/18/2006	11	-	-	-
Trichloroethene	MW 3	7/19/2006	9.5	-	-	-
Trichloroethene	MW 3	7/19/2006	10	-	-	-
Trichloroethene	MW 3	10/16/2006	11 J	-	-	-
Trichloroethene	MW 3	1/24/2007	10 J	-	-	-
Trichloroethene	MW 3	4/17/2007	6.2	-	-	-
Trichloroethene	MW 3	4/17/2007	5.9	-	-	-
Trichloroethene	MW 3	7/11/2007	11	-	-	-
Trichloroethene	MW 3	10/16/2007	11	-	-	-
Trichloroethene	MW 3	2/18/2008	15	-	-	-
Trichloroethene	MW 3	6/30/2008	18	-	-	-
Trichloroethene	MW 3	6/30/2008	18	-	-	-
Trichloroethene	MW 3	12/4/2008	9.2	-	-	-
Trichloroethene	MW 3	4/30/2009	18	-	-	-
Trichloroethene	MW 3	12/15/2009	8.3	-	-	-
Trichloroethene	MW 3	12/15/2009	8	-	-	-
Trichloroethene	MW 3	10/28/2010	6.79	-	-	-
Trichloroethene	MW 3	10/28/2010	5.83	-	-	-
Trichloroethene	MW 3	4/18/2011	14	-	-	-
Trichloroethene	MW 3	10/5/2011	10	-	-	-
Trichloroethene	MW 3	5/16/2012	12 J	-	-	-
Trichloroethene	MW 3	10/15/2012	4	-	-	-
Trichloroethene	MW 3	4/9/2013	13	-	-	-
Trichloroethene	MW 3	10/24/2013	4.8	-	-	-
Trichloroethene	MW 3	10/24/2013	5.3	-	-	-
Trichloroethene	MW 3	4/15/2014	8.6	-	-	-
Trichloroethene	MW 3	10/23/2014	4.3	-	-	-
Trichloroethene	MW 3	4/28/2015	8.3	-	-	-
Trichloroethene	MW 3	10/14/2015	5.1	-	-	-
Trichloroethene	MW 3	4/20/2016	12	-	-	-
Trichloroethene	MW 3	10/25/2016	4.9	-	-	-
Trichloroethene	MW 3	4/18/2017	11	-	-	-
Trichloroethene	MW 3	10/12/2017	4.4	-	-	-
Trichloroethene	MW-4	1/11/2005	0.05	-	-	-

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Analyte	Location	Date	Result (mg/L)	Outlier	Ambiguous Data	Excluded Data
Trichloroethene	MW-4	10/19/2005	0.83 U	-	-	detection frequency
Trichloroethene	MW-4	2/1/2006	0.001 U	-	-	detection frequency
Trichloroethene	MW-4	4/18/2006	0.25 U	-	-	detection frequency
Trichloroethene	MW-4	7/18/2006	0.42 U	-	-	detection frequency
Trichloroethene	MW-4	10/17/2006	0.18 J	-	-	-
Trichloroethene	MW-4	1/24/2007	0.5 UJ	-	-	detection frequency
Trichloroethene	MW-4	4/16/2007	0.05 UJ	-	-	detection frequency
Trichloroethene	MW-4	7/10/2007	1 U	-	-	detection frequency
Trichloroethene	MW-4	7/10/2007	0.13 U	-	-	detection frequency
Trichloroethene	MW-4	10/17/2007	0.56 U	-	-	detection frequency
Trichloroethene	MW-4	10/17/2007	0.5 U	-	-	detection frequency
Trichloroethene	MW-4	2/18/2008	1 U	-	-	detection frequency
Trichloroethene	MW-4	6/25/2008	1 U	-	-	detection frequency
Trichloroethene	MW-4	6/25/2008	0.63 U	-	-	detection frequency
Trichloroethene	MW-4	12/3/2008	1 U	-	-	detection frequency
Trichloroethene	MW-4	4/30/2009	0.5 U	-	-	detection frequency
Trichloroethene	MW-4	4/30/2009	0.42 U	-	-	detection frequency
Trichloroethene	MW-4	12/16/2009	0.069 J	-	-	-
Trichloroethene	MW-4	12/16/2009	0.36 J	-	-	-
Trichloroethene	MW-4	10/28/2010	0.0112	-	-	-
Trichloroethene	MW-4	4/20/2011	0.25 U	-	-	detection frequency
Trichloroethene	MW-4	4/20/2011	0.33 U	-	-	detection frequency
Trichloroethene	MW-4	10/6/2011	0.092 J	-	-	-
Trichloroethene	MW-4	5/16/2012	0.25 J	-	-	-
Trichloroethene	MW-4	10/16/2012	0.99	-	-	-
Trichloroethene	MW-4	4/12/2013	0.74	-	-	-
Trichloroethene	MW-4	10/29/2013	1.5	-	-	-
Trichloroethene	MW-4	4/16/2014	0.47 J	-	-	-
Trichloroethene	MW-4	4/16/2014	0.52	-	-	-
Trichloroethene	MW-4	10/29/2014	1.7	-	-	-
Trichloroethene	MW-4	4/27/2015	0.5	-	-	-
Trichloroethene	MW-4	10/19/2015	1	-	-	-
Trichloroethene	MW-4	4/22/2016	0.8	-	-	-
Trichloroethene	MW-4	10/24/2016	1.7	-	-	-
Trichloroethene	MW-4	4/18/2017	1.1	-	-	-
Trichloroethene	MW-4	10/17/2017	2.4	-	-	-
Trichloroethene	MW-4	10/17/2017	2.1	-	-	-
Trichloroethene	MW-7	10/29/2014	0.001 U	-	-	-
Trichloroethene	MW-7	10/18/2017	0.001 U / 0.001 U	-	-	-
Trichloroethene	MW 8	2/2/2005	0.35	-	-	-
Trichloroethene	MW 8	10/17/2005	0.14 J	-	-	-
Trichloroethene	MW 8	10/17/2005	0.13 J	-	-	-
Trichloroethene	MW 8	2/1/2006	0.8 J	-	-	-
Trichloroethene	MW 8	4/17/2006	0.4 J	-	-	-
Trichloroethene	MW 8	7/18/2006	0.15 J	-	-	-
Trichloroethene	MW 8	10/16/2006	0.86	-	-	-
Trichloroethene	MW 8	1/23/2007	0.4 J	-	-	-
Trichloroethene	MW 8	4/16/2007	0.51 J	-	-	-
Trichloroethene	MW 8	7/10/2007	0.84	-	-	-
Trichloroethene	MW 8	10/15/2007	1.4	-	-	-
Trichloroethene	MW 8	6/27/2008	0.58 J	-	-	-
Trichloroethene	MW 8	12/15/2009	0.046	-	-	-
Trichloroethene	MW 8	10/27/2010	0.248	-	-	-

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Trichloroethene	MW 8	4/18/2011	0.33	-	-	-
Trichloroethene	MW 8	10/5/2011	0.34	-	-	-
Trichloroethene	MW 8	5/15/2012	0.085 J	-	-	-
Trichloroethene	MW 8	5/15/2012	0.071 J	-	-	-
Trichloroethene	MW 8	10/15/2012	0.44	-	-	-
Trichloroethene	MW 8	4/9/2013	0.12 J	-	-	-
Trichloroethene	MW 8	10/24/2013	0.42	-	-	-
Trichloroethene	MW 8	4/15/2014	0.19 J	-	-	-
Trichloroethene	MW 8	10/23/2014	0.31	-	-	-
Trichloroethene	MW 8	4/28/2015	0.33	-	-	-
Trichloroethene	MW 8	10/14/2015	0.42	-	-	-
Trichloroethene	MW 8	4/20/2016	0.17 J	-	-	-
Trichloroethene	MW 8	4/20/2016	0.16 J	-	-	-
Trichloroethene	MW 8	10/21/2016	0.39	-	-	-
Trichloroethene	MW 8	4/18/2017	0.09 J	-	-	-
Trichloroethene	MW 8	10/12/2017	0.37	-	-	-
Trichloroethene	MW 12	2/2/2005	0.16	-	-	-
Trichloroethene	MW 12	10/19/2005	0.11	-	-	-
Trichloroethene	MW 12	10/19/2005	0.13	-	-	-
Trichloroethene	MW 12	1/31/2006	0.15	-	-	-
Trichloroethene	MW 12	4/18/2006	0.065	-	-	-
Trichloroethene	MW 12	7/18/2006	0.041	-	-	-
Trichloroethene	MW 12	7/18/2006	0.041	-	-	-
Trichloroethene	MW 12	10/19/2006	0.09 J	-	-	-
Trichloroethene	MW 12	1/22/2007	0.038	-	-	-
Trichloroethene	MW 12	4/18/2007	0.063 U	-	-	-
Trichloroethene	MW 12	7/11/2007	0.063	-	-	-
Trichloroethene	MW 12	10/19/2007	0.061	-	-	-
Trichloroethene	MW 12	6/27/2008	0.039	-	-	-
Trichloroethene	MW 12	12/5/2008	0.036	-	-	-
Trichloroethene	MW 12	4/29/2009	0.028	-	-	-
Trichloroethene	MW 12	12/9/2009	0.024	-	-	-
Trichloroethene	MW 12	10/26/2010	0.0099	-	-	-
Trichloroethene	MW 12	4/20/2011	0.0098 J	-	-	-
Trichloroethene	MW 12	10/5/2011	0.0073 J	-	-	-
Trichloroethene	MW 12	5/15/2012	0.0058 J	-	-	-
Trichloroethene	MW 12	10/11/2012	0.004 J	-	-	-
Trichloroethene	MW 12	4/9/2013	0.0059 J	-	-	-
Trichloroethene	MW 12	10/23/2013	0.003 J	-	-	-
Trichloroethene	MW 12	4/11/2014	0.0017 J	-	-	-
Trichloroethene	MW 12	10/24/2014	0.0012 J	-	-	-
Trichloroethene	MW 12	10/24/2014	0.0013 J	-	-	-
Trichloroethene	MW 12	4/27/2015	0.0057 U	-	-	-
Trichloroethene	MW 12	10/9/2015	0.005 U	-	-	-
Trichloroethene	MW 12	4/21/2016	0.005 U	-	-	-
Trichloroethene	MW 12	10/25/2016	0.005 U	-	-	-
Trichloroethene	MW 12	4/19/2017	0.00085 J	-	-	-
Trichloroethene	MW 12	10/6/2017	0.0033 U	-	-	-
Trichloroethene	MW 14	2/2/2005	0.05 U	-	-	-
Trichloroethene	MW 14	10/17/2005	0.001 U	-	-	-
Trichloroethene	MW 14	2/1/2006	0.5 U	-	-	-
Trichloroethene	MW 14	4/18/2006	0.25 U	-	-	-
Trichloroethene	MW 14	7/19/2006	0.25 U	-	-	-

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Trichloroethene	MW 14	10/18/2006	0.36 U	-	-	-
Trichloroethene	MW 14	1/24/2007	0.25 UJ	-	-	-
Trichloroethene	MW 14	4/17/2007	0.028 UJ	-	-	-
Trichloroethene	MW 14	7/9/2007	0.33 U	-	-	-
Trichloroethene	MW 14	10/16/2007	0.42 U	-	-	-
Trichloroethene	MW 14	6/30/2008	0.001	-	-	-
Trichloroethene	MW 14	12/5/2008	0.5 U	-	-	-
Trichloroethene	MW 14	4/29/2009	0.25 U	-	-	-
Trichloroethene	MW 14	12/15/2009	0.0054 J	-	-	-
Trichloroethene	MW 14	10/27/2010	0.01 U	-	-	-
Trichloroethene	MW 14	4/18/2011	0.17 U	-	-	-
Trichloroethene	MW 14	10/5/2011	0.2 U	-	-	-
Trichloroethene	MW 14	5/15/2012	0.17 U	-	-	-
Trichloroethene	MW 14	10/15/2012	0.2 U	-	-	-
Trichloroethene	MW 14	4/9/2013	0.17 U	-	-	-
Trichloroethene	MW 14	4/9/2013	0.17 U	-	-	-
Trichloroethene	MW 14	10/25/2013	0.25 U	-	-	-
Trichloroethene	MW 14	10/25/2013	0.2 U	-	-	-
Trichloroethene	MW 14	4/15/2014	0.17 U	-	-	-
Trichloroethene	MW 14	4/15/2014	0.17 U	-	-	-
Trichloroethene	MW 14	10/24/2014	0.33 U	-	-	-
Trichloroethene	MW 14	4/29/2015	0.2 U	-	-	-
Trichloroethene	MW 14	4/29/2015	0.2 U	-	-	-
Trichloroethene	MW 14	10/12/2015	0.2 U	-	-	-
Trichloroethene	MW 14	4/19/2016	0.17 U	-	-	-
Trichloroethene	MW 14	10/25/2016	0.2 U	-	-	-
Trichloroethene	MW 14	4/18/2017	0.13 U	-	-	-
Trichloroethene	MW 14	4/18/2017	0.13 U	-	-	-
Trichloroethene	MW 14	10/13/2017	0.2 U	-	-	-
Trichloroethene	MW 14	10/13/2017	0.2 U	-	-	-
Trichloroethene	MW 15	2/1/2005	6.7	-	-	sampling frequency
Trichloroethene	MW 15	10/18/2005	6.9	-	-	-
Trichloroethene	MW 15	2/1/2006	8.3	-	-	sampling frequency
Trichloroethene	MW 15	4/18/2006	6	-	-	sampling frequency
Trichloroethene	MW 15	7/19/2006	5.3	-	-	sampling frequency
Trichloroethene	MW 15	10/17/2006	7.2 J	-	-	-
Trichloroethene	MW 15	1/24/2007	6.1	-	-	sampling frequency
Trichloroethene	MW 15	4/17/2007	4.9	-	-	sampling frequency
Trichloroethene	MW 15	7/10/2007	9.4	-	-	sampling frequency
Trichloroethene	MW 15	7/10/2007	10	-	-	sampling frequency
Trichloroethene	MW 15	10/16/2007	8	-	-	-
Trichloroethene	MW 15	2/14/2008	7.4	-	-	-
Trichloroethene	MW 15	10/24/2013	8.3	-	-	-
Trichloroethene	MW 15	10/23/2014	5.5	-	-	-
Trichloroethene	MW 15	10/14/2015	3	-	-	-
Trichloroethene	MW 15	10/21/2016	2.5	-	-	-
Trichloroethene	MW 15	10/11/2017	4.1	-	-	-
Trichloroethene	MW 16	1/17/2005	0.001 U	-	-	-
Trichloroethene	MW 16	11/14/2013	0.001 U	-	-	-
Trichloroethene	MW 16	4/10/2014	0.001 U	-	-	-
Trichloroethene	MW 16	10/12/2015	0.001 U	-	-	-
Trichloroethene	MW 16	10/23/2016	0.001 U	-	-	-
Trichloroethene	MW 16	10/12/2017	0.0017	-	-	-

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Trichloroethene	MW 21	2/1/2005	0.001 U	-	-	sampling frequency
Trichloroethene	MW 21	10/17/2005	0.001 U	-	-	-
Trichloroethene	MW 21	2/1/2006	0.00066 J	-	-	sampling frequency
Trichloroethene	MW 21	4/17/2006	0.001 U	-	-	sampling frequency
Trichloroethene	MW 21	7/18/2006	0.001 U	-	-	sampling frequency
Trichloroethene	MW 21	10/16/2006	0.001 U	-	-	-
Trichloroethene	MW 21	1/23/2007	0.001 U	-	-	sampling frequency
Trichloroethene	MW 21	4/16/2007	0.001 U	-	-	sampling frequency
Trichloroethene	MW 21	7/9/2007	0.001 U	-	-	sampling frequency
Trichloroethene	MW 21	10/15/2007	0.001 U	-	-	-
Trichloroethene	MW 21	10/14/2015	0.001 U	-	-	-
Trichloroethene	MW 21	10/21/2016	0.001 U	-	-	-
Trichloroethene	MW 21	10/18/2017	0.001 U	-	-	-
Trichloroethene	MW 28	10/18/2005	0.0063 U	-	-	-
Trichloroethene	MW 28	10/19/2006	0.00015 J	-	-	-
Trichloroethene	MW 28	10/18/2007	0.0071 U	-	-	-
Trichloroethene	MW 28	6/24/2008	0.0042 U	-	-	-
Trichloroethene	MW 28	12/4/2008	0.005 U	-	-	-
Trichloroethene	MW 28	4/29/2009	0.005 U	-	-	-
Trichloroethene	MW 28	12/4/2009	0.0063 U	-	-	-
Trichloroethene	MW 28	10/26/2010	0.005 U	-	-	-
Trichloroethene	MW 28	4/19/2011	0.002 U	-	-	-
Trichloroethene	MW 28	10/3/2011	0.0033 U	-	-	-
Trichloroethene	MW 28	5/14/2012	0.0033 U	-	-	-
Trichloroethene	MW 28	10/10/2012	0.004 U	-	-	-
Trichloroethene	MW 28	4/10/2013	0.0067 U	-	-	-
Trichloroethene	MW 28	10/23/2013	0.0091 U	-	-	-
Trichloroethene	MW 28	4/15/2014	0.014 U	-	-	-
Trichloroethene	MW 28	4/15/2014	0.014 U	-	-	-
Trichloroethene	MW 28	10/27/2014	0.02 U	-	-	-
Trichloroethene	MW 28	4/29/2015	0.025 U	-	-	-
Trichloroethene	MW 28	10/12/2015	0.04 U	-	-	-
Trichloroethene	MW 28	4/19/2016	0.033 U	-	-	-
Trichloroethene	MW 28	10/22/2016	0.05 U	-	-	-
Trichloroethene	MW 28	4/19/2017	0.025 U	-	-	-
Trichloroethene	MW 28	10/9/2017	0.04 U	-	-	-
Trichloroethene	MW 31R	10/18/2005	2.1 J	-	-	-
Trichloroethene	MW 31R	1/31/2006	2.5	-	-	-
Trichloroethene	MW 31R	4/19/2006	1.4	-	-	-
Trichloroethene	MW 31R	7/19/2006	0.18 J	-	-	-
Trichloroethene	MW 31R	10/17/2006	0.12 J	-	-	-
Trichloroethene	MW 31R	10/17/2006	0.13 J	-	-	-
Trichloroethene	MW 31R	1/23/2007	0.97 J	-	-	-
Trichloroethene	MW 31R	1/23/2007	0.87 J	-	-	-
Trichloroethene	MW 31R	4/17/2007	0.93 J	-	-	-
Trichloroethene	MW 31R	7/11/2007	1 U	-	-	detection frequency
Trichloroethene	MW 31R	10/17/2007	0.1 U	-	-	detection frequency
Trichloroethene	MW 31R	2/14/2008	0.74 J	-	-	-
Trichloroethene	MW 31R	2/14/2008	0.67 J	-	-	-
Trichloroethene	MW 31R	12/4/2008	0.83 U	-	-	detection frequency
Trichloroethene	MW 31R	4/29/2009	0.54	-	-	-
Trichloroethene	MW 31R	12/15/2009	2.3	-	-	-
Trichloroethene	MW 31R	10/28/2010	0.0416	-	-	-

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Trichloroethene	MW 31R	4/18/2011	0.34	-	-	-
Trichloroethene	MW 31R	10/4/2011	0.32	-	-	-
Trichloroethene	MW 31R	5/15/2012	0.25 U	-	-	detection frequency
Trichloroethene	MW 31R	10/15/2012	0.078 J	-	-	-
Trichloroethene	MW 31R	4/9/2013	0.057 J	-	-	-
Trichloroethene	MW 31R	10/24/2013	0.15 J	-	-	-
Trichloroethene	MW 31R	4/15/2014	0.12 J	-	-	-
Trichloroethene	MW 31R	10/27/2014	0.04 J	-	-	-
Trichloroethene	MW 31R	4/28/2015	0.5 U	-	-	detection frequency
Trichloroethene	MW 31R	10/14/2015	0.25 U	-	-	detection frequency
Trichloroethene	MW 31R	4/20/2016	0.5 U	-	-	detection frequency
Trichloroethene	MW 31R	10/21/2016	0.71 U	-	-	detection frequency
Trichloroethene	MW 31R	10/21/2016	0.71 U	-	-	detection frequency
Trichloroethene	MW 31R	4/19/2017	0.63 U	-	-	detection frequency
Trichloroethene	MW 31R	10/12/2017	0.83 U	-	-	detection frequency
Trichloroethene	MW 37	1/18/2005	0.001 U	-	-	-
Trichloroethene	MW 37	1/18/2005	0.001 U	-	-	-
Trichloroethene	MW 37	10/17/2007	0.001 U	-	-	-
Trichloroethene	MW 37	6/26/2008	0.001 U	-	-	-
Trichloroethene	MW 37	12/16/2009	0.001 U	-	-	-
Trichloroethene	MW 37	10/27/2010	0.001 U	-	-	-
Trichloroethene	MW 37	10/5/2011	0.001 U	-	-	-
Trichloroethene	MW 37	10/17/2012	0.001 U	-	-	-
Trichloroethene	MW 37	10/17/2012	0.001 U	-	-	-
Trichloroethene	MW 37	10/25/2013	0.001 U	-	-	-
Trichloroethene	MW 37	10/22/2014	0.001 U	-	-	-
Trichloroethene	MW 37	10/9/2015	0.001 U	-	-	-
Trichloroethene	MW 37	10/23/2016	0.001 U	-	-	-
Trichloroethene	MW 37	10/16/2017	0.001 U	-	-	-
Trichloroethene	MW 40	1/12/2005	0.1 U	-	-	detection frequency
Trichloroethene	MW 40	10/18/2005	0.0013 U	-	-	detection frequency
Trichloroethene	MW 40	1/30/2006	0.5 U	-	-	detection frequency
Trichloroethene	MW 40	4/17/2006	0.63 U	-	-	detection frequency
Trichloroethene	MW 40	7/19/2006	0.63 U	-	-	detection frequency
Trichloroethene	MW 40	10/18/2006	0.0011	-	-	-
Trichloroethene	MW 40	1/23/2007	0.5 UJ	-	-	detection frequency
Trichloroethene	MW 40	4/18/2007	0.042 UJ	-	-	detection frequency
Trichloroethene	MW 40	7/10/2007	0.83 U	-	-	detection frequency
Trichloroethene	MW 40	10/18/2007	0.5 U	-	-	detection frequency
Trichloroethene	MW 40	2/15/2008	0.63 U	-	-	detection frequency
Trichloroethene	MW 40	6/26/2008	0.14 J	-	-	-
Trichloroethene	MW 40	12/3/2008	0.71 U	-	-	detection frequency
Trichloroethene	MW 40	12/3/2008	0.83 U	-	-	detection frequency
Trichloroethene	MW 40	4/30/2009	0.5 U	-	-	detection frequency
Trichloroethene	MW 40	12/9/2009	0.25 U	-	-	detection frequency
Trichloroethene	MW 40	10/26/2010	0.125 U	-	-	detection frequency
Trichloroethene	MW 40	4/19/2011	0.25 U	-	-	detection frequency
Trichloroethene	MW 40	10/4/2011	0.25 U	-	-	detection frequency
Trichloroethene	MW 40	5/14/2012	0.13 J	-	-	-
Trichloroethene	MW 40	10/10/2012	0.073 J	-	-	-
Trichloroethene	MW 40	4/9/2013	0.13 J	-	-	-
Trichloroethene	MW 40	10/24/2013	0.15 J	-	-	-
Trichloroethene	MW 40	4/14/2014	0.22 J	-	-	-

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Trichloroethene	MW 40	10/27/2014	0.21 J	-	-	-
Trichloroethene	MW 40	4/28/2015	0.32 J	-	-	-
Trichloroethene	MW 40	10/13/2015	0.26	-	-	-
Trichloroethene	MW 40	4/19/2016	0.31	-	-	-
Trichloroethene	MW 40	10/20/2016	0.16 J	-	-	-
Trichloroethene	MW 40	4/19/2017	0.4	-	-	-
Trichloroethene	MW 40	10/10/2017	0.36	-	-	-
Trichloroethene	MW 40	10/10/2017	0.35	-	-	-
Trichloroethene	MW 41	10/17/2005	0.28 U	-	-	-
Trichloroethene	MW 41	1/30/2006	0.5 U	-	-	-
Trichloroethene	MW 41	4/17/2006	0.00017 J	-	-	-
Trichloroethene	MW 41	4/17/2006	0.00015 J	-	-	-
Trichloroethene	MW 41	7/18/2006	0.31 U	-	-	-
Trichloroethene	MW 41	10/18/2006	0.5 U	-	-	-
Trichloroethene	MW 41	1/23/2007	0.5 UJ	-	-	-
Trichloroethene	MW 41	4/18/2007	0.031 UJ	-	-	-
Trichloroethene	MW 41	4/18/2007	0.013 U	-	-	-
Trichloroethene	MW 41	7/10/2007	0.63 U	-	-	-
Trichloroethene	MW 41	10/18/2007	0.5 U	-	-	-
Trichloroethene	MW 41	2/15/2008	0.42 U	-	-	-
Trichloroethene	MW 41	6/24/2008	0.5 U	-	-	-
Trichloroethene	MW 41	12/3/2008	0.5 U	-	-	-
Trichloroethene	MW 41	4/28/2009	0.5 U	-	-	-
Trichloroethene	MW 41	12/3/2009	0.25 U	-	-	-
Trichloroethene	MW 41	10/25/2010	0.125 U	-	-	-
Trichloroethene	MW 41	4/19/2011	0.17 U	-	-	-
Trichloroethene	MW 41	10/4/2011	0.2 U	-	-	-
Trichloroethene	MW 41	5/14/2012	0.2 U	-	-	-
Trichloroethene	MW 41	10/10/2012	0.2 U	-	-	-
Trichloroethene	MW 41	4/9/2013	0.2 U	-	-	-
Trichloroethene	MW 41	10/25/2013	0.33 U	-	-	-
Trichloroethene	MW 41	4/14/2014	0.2 U	-	-	-
Trichloroethene	MW 41	10/23/2014	0.63 U	-	-	-
Trichloroethene	MW 41	4/29/2015	0.33 U	-	-	-
Trichloroethene	MW 41	10/12/2015	0.33 U	-	-	-
Trichloroethene	MW 41	10/12/2015	0.25 U	-	-	-
Trichloroethene	MW 41	4/19/2016	0.2 U	-	-	-
Trichloroethene	MW 41	10/23/2016	0.33 U	-	-	-
Trichloroethene	MW 41	4/19/2017	0.2 U	-	-	-
Trichloroethene	MW 41	10/9/2017	0.2 U	-	-	-
Trichloroethene	MW 42	10/18/2005	0.001 U	-	-	-
Trichloroethene	MW 42	1/30/2006	0.5 U	-	-	-
Trichloroethene	MW 42	1/30/2006	0.5 U	-	-	-
Trichloroethene	MW 42	4/17/2006	0.00011 J	-	-	-
Trichloroethene	MW 42	7/18/2006	0.31 U	-	-	-
Trichloroethene	MW 42	10/18/2006	0.42 U	-	-	-
Trichloroethene	MW 42	1/23/2007	0.5 UJ	-	-	-
Trichloroethene	MW 42	1/23/2007	0.5 UJ	-	-	-
Trichloroethene	MW 42	4/18/2007	0.031 UJ	-	-	-
Trichloroethene	MW 42	7/10/2007	0.71 U	-	-	-
Trichloroethene	MW 42	10/18/2007	0.5 U	-	-	-
Trichloroethene	MW 42	2/15/2008	0.42 U	-	-	-
Trichloroethene	MW 42	6/24/2008	0.5 U	-	-	-

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Trichloroethene	MW 42	12/3/2008	0.5 U	-	-	-
Trichloroethene	MW 42	4/28/2009	0.5 U	-	-	-
Trichloroethene	MW 42	12/3/2009	0.25 U	-	-	-
Trichloroethene	MW 42	10/25/2010	0.125 U	-	-	-
Trichloroethene	MW 42	4/19/2011	0.17 U	-	-	-
Trichloroethene	MW 42	10/4/2011	0.2 U	-	-	-
Trichloroethene	MW 42	5/14/2012	0.25 U	-	-	-
Trichloroethene	MW 42	10/10/2012	0.17 U	-	-	-
Trichloroethene	MW 42	4/9/2013	0.2 U	-	-	-
Trichloroethene	MW 42	10/25/2013	0.2 U	-	-	-
Trichloroethene	MW 42	4/14/2014	0.17 U	-	-	-
Trichloroethene	MW 42	10/23/2014	0.2 U	-	-	-
Trichloroethene	MW 42	4/29/2015	0.2 U	-	-	-
Trichloroethene	MW 42	10/12/2015	0.17 U	-	-	-
Trichloroethene	MW 42	4/19/2016	0.17 U	-	-	-
Trichloroethene	MW 42	10/23/2016	0.2 U	-	-	-
Trichloroethene	MW 42	4/19/2017	0.035 J	-	-	-
Trichloroethene	MW 42	10/9/2017	0.1 U	-	-	-
Trichloroethene	MW 46	10/16/2017	0.001 U	-	-	-
Trichloroethene	MW 51	4/29/2009	0.19	-	-	-
Trichloroethene	MW 51	12/14/2009	0.3	-	-	-
Trichloroethene	MW 51	10/27/2010	0.24 J	-	-	-
Trichloroethene	MW 51	4/20/2011	0.18	-	-	-
Trichloroethene	MW 51	10/5/2011	0.21	-	-	-
Trichloroethene	MW 51	5/14/2012	0.18	-	-	-
Trichloroethene	MW 51	10/12/2012	0.2	-	-	-
Trichloroethene	MW 51	4/9/2013	0.21	-	-	-
Trichloroethene	MW 51	10/23/2013	0.19	-	-	-
Trichloroethene	MW 51	4/16/2014	0.16	-	-	-
Trichloroethene	MW 51	10/21/2014	0.18	-	-	-
Trichloroethene	MW 51	4/28/2015	0.14	-	-	-
Trichloroethene	MW 51	4/28/2015	0.16	-	-	-
Trichloroethene	MW 51	10/9/2015	0.16	-	-	-
Trichloroethene	MW 51	4/20/2016	0.15	-	-	-
Trichloroethene	MW 51	10/23/2016	0.14	-	-	-
Trichloroethene	MW 51	4/18/2017	0.14	-	-	-
Trichloroethene	MW 51	10/16/2017	0.15	-	-	-
Trichloroethene	MW 56	1/11/2005	0.001 U	-	-	-
Trichloroethene	MW 56	10/19/2005	0.001 U	-	-	-
Trichloroethene	MW 56	10/18/2006	0.00067 J	-	-	-
Trichloroethene	MW 56	10/18/2007	0.001 U	-	-	-
Trichloroethene	MW 56	6/26/2008	0.001 U	-	-	-
Trichloroethene	MW 56	12/17/2009	0.001 U	-	-	-
Trichloroethene	MW 56	10/28/2010	0.001 U	-	-	-
Trichloroethene	MW 56	10/6/2011	0.001 U	-	-	-
Trichloroethene	MW 56	10/16/2012	0.001 U	-	-	-
Trichloroethene	MW 56	10/29/2013	0.001 U	-	-	-
Trichloroethene	MW 56	10/29/2014	0.001 U	-	-	-
Trichloroethene	MW 56	10/29/2014	0.001 U	-	-	-
Trichloroethene	MW 56	10/19/2015	0.001 U	-	-	-
Trichloroethene	MW 56	10/24/2016	0.001 U	-	-	-
Trichloroethene	MW 56	10/18/2017	0.001 U	-	-	-
Trichloroethene	MW 57	10/18/2017	0.0033 U	-	-	-

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Trichloroethene	MW 58	10/20/2015	0.0057 U	-	-	-
Trichloroethene	MW 58	10/20/2015	0.005 U	-	-	-
Trichloroethene	MW 58	10/25/2016	0.05 U	-	-	-
Trichloroethene	MW 58	10/17/2017	0.05 U	-	-	-
Trichloroethene	MW 61	1/11/2005	0.001 U	-	-	-
Trichloroethene	MW 61	6/24/2008	0.001 U	-	-	-
Trichloroethene	MW 61	12/3/2009	0.001 U	-	-	-
Trichloroethene	MW 61	10/26/2010	0.005 U	-	-	-
Trichloroethene	MW 61	10/26/2010	0.005 U	-	-	-
Trichloroethene	MW 61	10/3/2011	0.001 U	-	-	-
Trichloroethene	MW 61	10/10/2012	0.001 U	-	-	-
Trichloroethene	MW 61	10/23/2013	0.001 U	-	-	-
Trichloroethene	MW 61	10/21/2014	0.001 U	-	-	-
Trichloroethene	MW 61	10/9/2015	0.001 U	-	-	-
Trichloroethene	MW 61	10/22/2016	0.001 U	-	-	-
Trichloroethene	MW 61	10/9/2017	0.001 U	-	-	-
Trichloroethene	MW 64	1/11/2005	0.001 U	-	-	-
Trichloroethene	MW 64	10/19/2005	0.0002 J	-	-	-
Trichloroethene	MW 64	10/18/2006	0.00011 J	-	-	-
Trichloroethene	MW 64	10/19/2007	0.00014 J	-	-	-
Trichloroethene	MW 64	2/18/2008	0.037	-	-	-
Trichloroethene	MW 64	2/18/2008	0.063	-	-	-
Trichloroethene	MW 64	6/26/2008	0.001 U	-	-	-
Trichloroethene	MW 64	12/8/2009	0.00011 J	-	-	-
Trichloroethene	MW 64	12/8/2009	0.00014 J	-	-	-
Trichloroethene	MW 64	10/25/2010	0.005 U	-	-	-
Trichloroethene	MW 64	10/3/2011	0.001 U	-	-	-
Trichloroethene	MW 64	10/11/2012	0.001 U	-	-	-
Trichloroethene	MW 64	10/11/2012	0.001 U	-	-	-
Trichloroethene	MW 64	10/22/2013	0.0017 U	-	-	-
Trichloroethene	MW 64	10/28/2014	0.0067 U	-	-	-
Trichloroethene	MW 64	10/13/2015	0.01 U	-	-	-
Trichloroethene	MW 64	10/20/2016	0.0025 U	-	-	-
Trichloroethene	MW 64	10/10/2017	0.0067 U	-	-	-
Trichloroethene	MW 65	1/10/2005	0.005 U	-	-	-
Trichloroethene	MW 65	10/18/2007	0.001 U	-	-	-
Trichloroethene	MW 65	2/15/2008	0.17 U	-	-	-
Trichloroethene	MW 65	6/27/2008	0.031 U	-	-	-
Trichloroethene	MW 65	12/4/2008	0.13 U	-	-	-
Trichloroethene	MW 65	4/28/2009	0.05 U	-	-	-
Trichloroethene	MW 65	12/4/2009	0.05 U	-	-	-
Trichloroethene	MW 65	10/25/2010	0.125 U	-	-	-
Trichloroethene	MW 65	10/3/2011	0.04 U	-	-	-
Trichloroethene	MW 65	10/11/2012	0.014 U	-	-	-
Trichloroethene	MW 65	10/22/2013	0.0057 U	-	-	-
Trichloroethene	MW 65	10/22/2014	0.002 U	-	-	-
Trichloroethene	MW 65	10/22/2014	0.0017 U	-	-	-
Trichloroethene	MW 65	10/8/2015	0.002 U	-	-	-
Trichloroethene	MW 65	10/19/2016	0.001 U	-	-	-
Trichloroethene	MW 65	10/6/2017	0.001 U	-	-	-
Trichloroethene	MW 66	1/11/2005	0.001 U	-	-	-
Trichloroethene	MW 66	1/11/2005	0.001 U	-	-	-
Trichloroethene	MW 66	10/18/2005	0.001 U	-	-	-

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Trichloroethene	MW 66	10/18/2006	0.001 U	-	-	-
Trichloroethene	MW 66	10/19/2007	0.001 U	-	-	-
Trichloroethene	MW 66	10/19/2007	0.001 U	-	-	-
Trichloroethene	MW 66	2/18/2008	0.00034 J	-	-	-
Trichloroethene	MW 66	6/26/2008	0.001 U	-	-	-
Trichloroethene	MW 66	12/4/2008	0.001 U	-	-	-
Trichloroethene	MW 66	4/28/2009	0.001 U	-	-	-
Trichloroethene	MW 66	4/28/2009	0.001 U	-	-	-
Trichloroethene	MW 66	12/8/2009	0.001 U	-	-	-
Trichloroethene	MW 66	10/25/2010	0.005 U	-	-	-
Trichloroethene	MW 66	4/19/2011	0.01 U	-	-	-
Trichloroethene	MW 66	4/19/2011	0.01 U	-	-	-
Trichloroethene	MW 66	10/3/2011	0.017 U	-	-	-
Trichloroethene	MW 66	5/14/2012	0.0083 U	-	-	-
Trichloroethene	MW 66	10/11/2012	0.013 U	-	-	-
Trichloroethene	MW 66	4/10/2013	0.017 U	-	-	-
Trichloroethene	MW 66	10/22/2013	0.025 U	-	-	-
Trichloroethene	MW 66	4/11/2014	0.011 U	-	-	-
Trichloroethene	MW 66	10/27/2014	0.02 U	-	-	-
Trichloroethene	MW 66	4/27/2015	0.025 U	-	-	-
Trichloroethene	MW 66	10/13/2015	0.04 U	-	-	-
Trichloroethene	MW 66	4/20/2016	0.05 U	-	-	-
Trichloroethene	MW 66	10/20/2016	0.1 U	-	-	-
Trichloroethene	MW 66	4/19/2017	0.063 U	-	-	-
Trichloroethene	MW 66	10/10/2017	0.067 U	-	-	-
Trichloroethene	MW 68	1/18/2005	0.1	-	-	-
Trichloroethene	MW 68	10/19/2005	0.35 J	-	-	-
Trichloroethene	MW 68	10/19/2005	0.32 J	-	-	-
Trichloroethene	MW 68	1/31/2006	0.43 J	-	-	-
Trichloroethene	MW 68	4/18/2006	0.5 U	-	high DL	-
Trichloroethene	MW 68	7/19/2006	0.4 J	-	-	-
Trichloroethene	MW 68	10/19/2006	1.1 J	-	-	-
Trichloroethene	MW 68	1/23/2007	0.63 J	-	-	-
Trichloroethene	MW 68	4/18/2007	0.41 J	-	-	-
Trichloroethene	MW 68	7/9/2007	2.4	-	-	-
Trichloroethene	MW 68	10/16/2007	0.49 J	-	-	-
Trichloroethene	MW 68	2/19/2008	0.57	-	-	-
Trichloroethene	MW 68	6/27/2008	2.6	-	-	-
Trichloroethene	MW 68	12/5/2008	1.1	-	-	-
Trichloroethene	MW 68	4/29/2009	1.4	-	-	-
Trichloroethene	MW 68	12/16/2009	2.3	-	-	-
Trichloroethene	MW 68	12/16/2009	2.4	-	-	-
Trichloroethene	MW 68	10/26/2010	1.94	-	-	-
Trichloroethene	MW 68	4/18/2011	2.4	-	-	-
Trichloroethene	MW 68	10/4/2011	1.9	-	-	-
Trichloroethene	MW 68	10/4/2011	1.9	-	-	-
Trichloroethene	MW 68	5/14/2012	1.8	-	-	-
Trichloroethene	MW 68	10/12/2012	1.9	-	-	-
Trichloroethene	MW 68	4/10/2013	2.1	-	-	-
Trichloroethene	MW 68	4/10/2013	1.9	-	-	-
Trichloroethene	MW 68	10/23/2013	2	-	-	-
Trichloroethene	MW 68	11/14/2013	1.9	-	-	-
Trichloroethene	MW 68	11/14/2013	1.9	-	-	-

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Trichloroethene	MW 68	4/10/2014	1.8	-	-	-
Trichloroethene	MW 68	10/23/2014	1.5	-	-	-
Trichloroethene	MW 68	4/28/2015	1.5	-	-	-
Trichloroethene	MW 68	4/28/2015	1.5	-	-	-
Trichloroethene	MW 68	10/13/2015	1.4	-	-	-
Trichloroethene	MW 68	10/13/2015	1.3	-	-	-
Trichloroethene	MW 68	4/19/2016	1	-	-	-
Trichloroethene	MW 68	10/20/2016	1.7	-	-	-
Trichloroethene	MW 68	4/17/2017	1.5	-	-	-
Trichloroethene	MW 68	10/11/2017	1.6	-	-	-
Trichloroethene	MW 75	1/14/2005	0.001 U	-	-	-
Trichloroethene	MW 75	10/19/2005	0.001 U	-	-	-
Trichloroethene	MW 75	10/19/2006	0.001 UJ	-	-	-
Trichloroethene	MW 75	10/16/2007	0.001 U	-	-	-
Trichloroethene	MW 75	6/30/2008	0.001 U	-	-	-
Trichloroethene	MW 75	10/27/2010	0.001 U	-	-	-
Trichloroethene	MW 75	10/5/2011	0.001 U	-	-	-
Trichloroethene	MW 75	10/12/2012	0.001 U	-	-	-
Trichloroethene	MW 75	10/23/2013	0.001 U	-	-	-
Trichloroethene	MW 75	10/21/2014	0.001 U	-	-	-
Trichloroethene	MW 75	10/23/2016	0.001 U	-	-	-
Trichloroethene	MW 75	10/16/2017	0.001 U	-	-	-
Trichloroethene	MW 76/MW 76R-17	1/14/2005	0.001 U	-	-	-
Trichloroethene	MW 76/MW 76R-17	10/20/2005	0.001 U	-	-	-
Trichloroethene	MW 76/MW 76R-17	10/19/2006	0.001 UJ	-	-	-
Trichloroethene	MW 76/MW 76R-17	10/16/2007	0.001 U	-	-	-
Trichloroethene	MW 76/MW 76R-17	10/27/2010	0.001 U	-	-	-
Trichloroethene	MW 76/MW 76R-17	10/5/2011	0.001 U	-	-	-
Trichloroethene	MW 76/MW 76R-17	10/5/2011	0.001 U	-	-	-
Trichloroethene	MW 76/MW 76R-17	10/12/2012	0.00021 J	-	-	-
Trichloroethene	MW 76/MW 76R-17	10/23/2013	0.001 U	-	-	-
Trichloroethene	MW 76/MW 76R-17	10/23/2013	0.001 U	-	-	-
Trichloroethene	MW 76/MW 76R-17	10/21/2014	0.001 U	-	-	-
Trichloroethene	MW 76/MW 76R-17	10/18/2017	0.001 U	-	-	-
Trichloroethene	MW 79	1/13/2005	0.12	-	-	-
Trichloroethene	MW 79	10/15/2007	0.05 U	-	-	-
Trichloroethene	MW 79	12/5/2008	0.071 U	-	-	-
Trichloroethene	MW 79	4/29/2009	0.05 U	-	-	-
Trichloroethene	MW 79	12/14/2009	0.05 U	-	-	-
Trichloroethene	MW 79	10/27/2010	0.001 U	-	-	-
Trichloroethene	MW 79	4/20/2011	0.04 U	-	-	-
Trichloroethene	MW 79	10/4/2011	0.067 U	-	-	-
Trichloroethene	MW 79	5/15/2012	0.05 U	-	-	-
Trichloroethene	MW 79	10/15/2012	0.071 U	-	-	-
Trichloroethene	MW 79	10/15/2012	0.071 U	-	-	-
Trichloroethene	MW 79	4/9/2013	0.083 U	-	-	-
Trichloroethene	MW 79	10/28/2013	0.05 U	-	-	-
Trichloroethene	MW 79	4/15/2014	0.1 U	-	-	-
Trichloroethene	MW 79	10/28/2014	0.1 U	-	-	-
Trichloroethene	MW 79	10/28/2014	0.1 U	-	-	-
Trichloroethene	MW 79	4/29/2015	0.1 U	-	-	-
Trichloroethene	MW 79	10/13/2015	0.083 U	-	-	-
Trichloroethene	MW 79	4/19/2016	0.1 U	-	-	-

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Trichloroethene	MW 79	10/21/2016	0.1 U	-	-	-
Trichloroethene	MW 79	4/17/2017	0.063 U	-	-	-
Trichloroethene	MW 79	4/17/2017	0.13 U	-	-	-
Trichloroethene	MW 79	10/11/2017	0.05 U	-	-	-
Trichloroethene	MW 80	3/9/2005	0.001 U	-	-	-
Trichloroethene	MW 80	3/9/2005	0.001 U	-	-	-
Trichloroethene	MW 80	10/18/2005	0.0083 U	-	-	-
Trichloroethene	MW 80	10/18/2006	0.00021 J	-	-	-
Trichloroethene	MW 80	10/17/2007	0.001 U	-	-	-
Trichloroethene	MW 80	6/27/2008	0.005 U	-	-	-
Trichloroethene	MW 80	6/27/2008	0.005 U	-	-	-
Trichloroethene	MW 80	12/8/2009	0.001 U	-	-	-
Trichloroethene	MW 80	10/25/2010	0.005 U	-	-	-
Trichloroethene	MW 80	10/3/2011	0.001 U	-	-	-
Trichloroethene	MW 80	10/11/2012	0.001 U	-	-	-
Trichloroethene	MW 80	10/22/2013	0.0017 U	-	-	-
Trichloroethene	MW 80	10/24/2014	0.001 U	-	-	-
Trichloroethene	MW 80	10/8/2015	0.0017 U	-	-	-
Trichloroethene	MW 80	10/22/2016	0.0018 U	-	-	-
Trichloroethene	MW 80	10/6/2017	0.002 U	-	-	-
Trichloroethene	MW 81	3/9/2005	0.001 U	-	-	-
Trichloroethene	MW 81	3/30/2005	0.001 UJ	-	-	-
Trichloroethene	MW 81	10/19/2005	0.001 U	-	-	-
Trichloroethene	MW 81	10/18/2006	0.001 U	-	-	-
Trichloroethene	MW 81	10/18/2006	0.001 U	-	-	-
Trichloroethene	MW 81	10/18/2007	0.001 U	-	-	-
Trichloroethene	MW 81	2/15/2008	0.001 U	-	-	-
Trichloroethene	MW 81	6/26/2008	0.001 U	-	-	-
Trichloroethene	MW 81	12/4/2009	0.001 U	-	-	-
Trichloroethene	MW 81	10/25/2010	0.005 U	-	-	-
Trichloroethene	MW 81	10/3/2011	0.002 U	-	-	-
Trichloroethene	MW 81	10/11/2012	0.002 U	-	-	-
Trichloroethene	MW 81	10/22/2013	0.005 U	-	-	-
Trichloroethene	MW 81	10/22/2014	0.0067 U	-	-	-
Trichloroethene	MW 81	10/8/2015	0.008 U	-	-	-
Trichloroethene	MW 81	10/22/2016	0.005 U	-	-	-
Trichloroethene	MW 81	10/6/2017	0.0033 U	-	-	-
Trichloroethene	MW 82	3/9/2005	0.001 U	-	-	-
Trichloroethene	MW 82	10/20/2005	0.001 U	-	-	-
Trichloroethene	MW 82	10/19/2006	0.001 UJ	-	-	-
Trichloroethene	MW 82	10/16/2007	0.001 U	-	-	-
Trichloroethene	MW 82	6/27/2008	0.001 U	-	-	-
Trichloroethene	MW 82	12/15/2009	0.001 U	-	-	-
Trichloroethene	MW 82	10/27/2010	0.001 U	-	-	-
Trichloroethene	MW 82	10/4/2011	0.001 U	-	-	-
Trichloroethene	MW 82	10/23/2013	0.00066 J	-	-	-
Trichloroethene	MW 82	10/24/2014	0.001 U	-	-	-
Trichloroethene	MW 82	10/12/2015	0.001 U	-	-	-
Trichloroethene	MW 82	10/23/2016	0.001 U	-	-	-
Trichloroethene	MW 82	10/12/2017	0.00097 J	-	-	-
Trichloroethene	MW 82	10/12/2017	0.00096 J	-	-	-
Trichloroethene	MW 83	3/9/2005	0.001 U	-	-	-
Trichloroethene	MW 83	10/18/2005	0.001 U	-	-	-

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Trichloroethene	MW 83	10/18/2006	0.001 UJ	-	-	-
Trichloroethene	MW 83	10/18/2007	0.001 U	-	-	-
Trichloroethene	MW 83	6/27/2008	0.001 U	-	-	-
Trichloroethene	MW 83	12/8/2009	0.001 U	-	-	-
Trichloroethene	MW 83	10/26/2010	0.005 U	-	-	-
Trichloroethene	MW 83	10/4/2011	0.001 U	-	-	-
Trichloroethene	MW 83	10/10/2012	0.001 U	-	-	-
Trichloroethene	MW 83	10/24/2013	0.00023 J	-	-	-
Trichloroethene	MW 83	10/22/2014	0.001 U	-	-	-
Trichloroethene	MW 83	10/9/2015	0.001 U	-	-	-
Trichloroethene	MW 83	10/22/2016	0.001 U	-	-	-
Trichloroethene	MW 83	10/22/2016	0.001 U	-	-	-
Trichloroethene	MW 83	10/11/2017	0.00045 J	-	-	-
Trichloroethene	MW 84	10/20/2005	0.001 U	-	-	-
Trichloroethene	MW 84	4/10/2013	0.001 U	-	-	-
Trichloroethene	MW 84	11/14/2013	0.001 U	-	-	-
Trichloroethene	MW 84	4/10/2014	0.001 U	-	-	-
Trichloroethene	MW 84	10/12/2015	0.001 U	-	-	-
Trichloroethene	MW 84	10/24/2016	0.001 U	-	-	-
Trichloroethene	MW 84	10/13/2017	0.001 U	-	-	-
Trichloroethene	MW 85	2/19/2008	0.0032 J	-	-	-
Trichloroethene	MW 85	6/25/2008	0.001 U	-	-	-
Trichloroethene	MW 85	12/4/2008	0.031 U	-	-	-
Trichloroethene	MW 85	4/30/2009	0.025 U	-	-	-
Trichloroethene	MW 85	12/17/2009	0.017 U	-	-	-
Trichloroethene	MW 85	10/28/2010	0.001 U	-	-	-
Trichloroethene	MW 85	4/20/2011	0.02 U	-	-	-
Trichloroethene	MW 85	10/6/2011	0.029 U	-	-	-
Trichloroethene	MW 85	5/16/2012	0.025 U	-	-	-
Trichloroethene	MW 85	10/16/2012	0.17 U	-	-	-
Trichloroethene	MW 85	4/12/2013	0.067 U	-	-	-
Trichloroethene	MW 85	10/29/2013	0.067 U	-	-	-
Trichloroethene	MW 85	4/16/2014	0.25 U	-	-	-
Trichloroethene	MW 85	10/29/2014	0.25 U	-	-	-
Trichloroethene	MW 85	4/27/2015	0.5 U	-	-	-
Trichloroethene	MW 85	10/19/2015	0.33 U	-	-	-
Trichloroethene	MW 85	4/22/2016	0.5 U	-	-	-
Trichloroethene	MW 85	4/22/2016	0.5 U	-	-	-
Trichloroethene	MW 85	10/24/2016	0.56 U	-	-	-
Trichloroethene	MW 85	4/18/2017	0.33 U	-	-	-
Trichloroethene	MW 85	10/17/2017	0.2 U	-	-	-
Trichloroethene	MW 86	10/28/2010	0.005 U	-	-	-
Trichloroethene	MW 86	10/28/2010	0.001 U	-	-	-
Trichloroethene	MW 86	10/4/2011	0.001 U	-	-	-
Trichloroethene	MW 86	10/11/2012	0.001 U	-	-	-
Trichloroethene	MW 86	10/22/2013	0.001 U	-	-	-
Trichloroethene	MW 86	10/22/2014	0.001 U	-	-	-
Trichloroethene	MW 86	10/8/2015	0.001 U	-	-	-
Trichloroethene	MW 86	10/22/2016	0.001 U	-	-	-
Trichloroethene	MW 86	10/13/2017	0.001 U	-	-	-
Trichloroethene	MW 88	10/29/2010	0.005 U	-	-	-
Trichloroethene	MW 88	10/3/2011	0.001 U	-	-	-
Trichloroethene	MW 88	10/11/2012	0.001 U	-	-	-

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Trichloroethene	MW 88	10/22/2013	0.001 U	-	-	-
Trichloroethene	MW 88	10/22/2014	0.001 U	-	-	-
Trichloroethene	MW 88	10/8/2015	0.001 U	-	-	-
Trichloroethene	MW 88	10/8/2015	0.001 U	-	-	-
Trichloroethene	MW 88	10/22/2016	0.001 U	-	-	-
Trichloroethene	MW 88	10/22/2016	0.001 U	-	-	-
Trichloroethene	MW 88	10/13/2017	0.001 U	-	-	-
Trichloroethene	MW 89-11	12/8/2011	0.001 U	-	-	-
Trichloroethene	MW 89-11	12/8/2011	0.001 U	-	-	-
Trichloroethene	MW 89-11	10/17/2012	0.001 U	-	-	-
Trichloroethene	MW 89-11	4/12/2013	0.001 U	-	-	-
Trichloroethene	MW 89-11	4/12/2013	0.001 U	-	-	-
Trichloroethene	MW 89-11	10/28/2013	0.001 U	-	-	-
Trichloroethene	MW 89-11	4/16/2014	0.00032 J	-	-	-
Trichloroethene	MW 89-11	10/28/2014	0.001 U	-	-	-
Trichloroethene	MW 89-11	4/28/2015	0.001 U	-	-	-
Trichloroethene	MW 89-11	10/15/2015	0.001 U	-	-	-
Trichloroethene	MW 89-11	4/20/2016	0.001 U	-	-	-
Trichloroethene	MW 89-11	4/20/2016	0.001 U	-	-	-
Trichloroethene	MW 89-11	10/25/2016	0.001 U	-	-	-
Trichloroethene	MW 89-11	10/25/2016	0.001 U	-	-	-
Trichloroethene	MW 89-11	4/19/2017	0.00036 J	-	-	-
Trichloroethene	MW 89-11	10/17/2017	0.001 U	-	-	-
Trichloroethene	MW97R-16	10/25/2016	0.001 U	-	-	-
Trichloroethene	MW97R-16	10/18/2017	0.001 U	-	-	-
Trichloroethene	Pond Intake	1/11/2005	0.001 U	-	-	-
Trichloroethene	Pond Intake	4/19/2005	0.001 U	-	-	-
Trichloroethene	Pond Intake	10/17/2005	0.001 U	-	-	-
Trichloroethene	Pond Intake	2/1/2006	0.001 U	-	-	-
Trichloroethene	Pond Intake	4/17/2006	0.001 U	-	-	-
Trichloroethene	Pond Intake	7/18/2006	0.001 U	-	-	-
Trichloroethene	Pond Intake	10/17/2006	0.001 U	-	-	-
Trichloroethene	Pond Intake	1/22/2007	0.001 U	-	-	-
Trichloroethene	Pond Intake	4/16/2007	0.001 U	-	-	-
Trichloroethene	Pond Intake	5/9/2007	0.001 U	-	-	-
Trichloroethene	Pond Intake	6/18/2007	0.001 U	-	-	-
Trichloroethene	Pond Intake	7/10/2007	0.001 U	-	-	-
Trichloroethene	Pond Intake	8/15/2007	0.001 U	-	-	-
Trichloroethene	Pond Intake	9/27/2007	0.001 U	-	-	-
Trichloroethene	Pond Intake	10/17/2007	0.001 U	-	-	-
Trichloroethene	Pond Intake	11/9/2007	0.001 U	-	-	-
Trichloroethene	Pond Intake	12/4/2007	0.001 U	-	-	-
Trichloroethene	Pond Intake	2/18/2008	0.001 U	-	-	-
Trichloroethene	Pond Intake	6/25/2008	0.001 U	-	-	-
Trichloroethene	Pond Intake	9/23/2008	0.001 U	-	-	-
Trichloroethene	Pond Intake	12/4/2008	0.001 U	-	-	-
Trichloroethene	Pond Intake	3/4/2009	0.001 U	-	-	-
Trichloroethene	Pond Intake	3/4/2009	0.001 U	-	-	-
Trichloroethene	Pond Intake	4/30/2009	0.001 U	-	-	-
Trichloroethene	Pond Intake	7/30/2009	0.001 U	-	-	-
Trichloroethene	Pond Intake	7/30/2009	0.001 U	-	-	-
Trichloroethene	Pond Intake	12/17/2009	0.001 U	-	-	-
Trichloroethene	Pond Intake	8/4/2010	0.005 U	-	-	-

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Trichloroethene	Pond Intake	10/28/2010	0.001 U	-	-	-
Trichloroethene	Pond Intake	4/20/2011	0.001 U	-	-	-
Trichloroethene	Pond Intake	7/28/2011	0.001 U	-	-	-
Trichloroethene	Pond Intake	10/6/2011	0.001 U	-	-	-
Trichloroethene	Pond Intake	10/6/2011	0.001 U	-	-	-
Trichloroethene	Pond Intake	5/16/2012	0.001 U	-	-	-
Trichloroethene	Pond Intake	8/2/2012	0.001 U	-	-	-
Trichloroethene	Pond Intake	10/16/2012	0.001 U	-	-	-
Trichloroethene	Pond Intake	4/12/2013	0.001 U	-	-	-
Trichloroethene	Pond Intake	7/17/2013	0.001 U	-	-	-
Trichloroethene	Pond Intake	10/29/2013	0.001 U	-	-	-
Trichloroethene	Pond Intake	4/16/2014	0.001 U	-	-	-
Trichloroethene	Pond Intake	7/17/2014	0.001 U	-	-	-
Trichloroethene	Pond Intake	7/17/2014	0.001 U	-	-	-
Trichloroethene	Pond Intake	10/29/2014	0.001 U	-	-	-
Trichloroethene	Pond Intake	4/27/2015	0.0013 U	-	-	-
Trichloroethene	Pond Intake	7/10/2015	0.0033 U	-	-	-
Trichloroethene	Pond Intake	7/10/2015	0.004 U	-	-	-
Trichloroethene	Pond Intake	10/20/2015	0.001 U	-	-	-
Trichloroethene	Pond Intake	4/22/2016	0.0025 U	-	-	-
Trichloroethene	Pond Intake	7/19/2016	0.0017 U	-	-	-
Trichloroethene	Pond Intake	10/24/2016	0.0018 U	-	-	-
Trichloroethene	Pond Intake	10/24/2016	0.002 U	-	-	-
Trichloroethene	Pond Intake	4/18/2017	0.0017 U	-	-	-
Trichloroethene	Pond Intake	7/12/2017	0.0073	-	-	-
Trichloroethene	Pond Intake	10/19/2017	0.002 U	-	-	-
Trichloroethene	Pond North	1/11/2005	0.001 U	-	-	-
Trichloroethene	Pond North	4/19/2005	0.001 U	-	-	-
Trichloroethene	Pond North	10/17/2005	0.001 U	-	-	-
Trichloroethene	Pond North	2/1/2006	0.001 U	-	-	-
Trichloroethene	Pond North	4/17/2006	0.001 U	-	-	-
Trichloroethene	Pond North	7/18/2006	0.001 U	-	-	-
Trichloroethene	Pond North	10/17/2006	0.001 U	-	-	-
Trichloroethene	Pond North	1/22/2007	0.0071 UJ	-	-	-
Trichloroethene	Pond North	4/16/2007	0.001 U	-	-	-
Trichloroethene	Pond North	5/9/2007	0.001 U	-	-	-
Trichloroethene	Pond North	6/18/2007	0.001 U	-	-	-
Trichloroethene	Pond North	7/10/2007	0.001 U	-	-	-
Trichloroethene	Pond North	8/15/2007	0.001 U	-	-	-
Trichloroethene	Pond North	9/27/2007	0.001 U	-	-	-
Trichloroethene	Pond North	10/17/2007	0.001 U	-	-	-
Trichloroethene	Pond North	11/9/2007	0.001 U	-	-	-
Trichloroethene	Pond North	12/4/2007	0.001 U	-	-	-
Trichloroethene	Pond North	2/18/2008	0.001 U	-	-	-
Trichloroethene	Pond North	6/25/2008	0.001 U	-	-	-
Trichloroethene	Pond North	9/23/2008	0.001 U	-	-	-
Trichloroethene	Pond North	9/23/2008	0.001 U	-	-	-
Trichloroethene	Pond North	12/4/2008	0.001 U	-	-	-
Trichloroethene	Pond North	3/4/2009	0.001 U	-	-	-
Trichloroethene	Pond North	4/30/2009	0.001 U	-	-	-
Trichloroethene	Pond North	7/30/2009	0.001 U	-	-	-
Trichloroethene	Pond North	12/17/2009	0.017 U	-	-	-
Trichloroethene	Pond North	8/4/2010	0.005 U	-	-	-

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Trichloroethene	Pond North	8/4/2010	0.005 U	-	-	-
Trichloroethene	Pond North	10/28/2010	0.001 U	-	-	-
Trichloroethene	Pond North	4/20/2011	0.001 U	-	-	-
Trichloroethene	Pond North	7/28/2011	0.001 U	-	-	-
Trichloroethene	Pond North	7/28/2011	0.001 U	-	-	-
Trichloroethene	Pond North	10/6/2011	0.001 U	-	-	-
Trichloroethene	Pond North	5/16/2012	0.001 U	-	-	-
Trichloroethene	Pond North	5/16/2012	0.001 U	-	-	-
Trichloroethene	Pond North	8/2/2012	0.001 U	-	-	-
Trichloroethene	Pond North	8/2/2012	0.001 U	-	-	-
Trichloroethene	Pond North	10/16/2012	0.0029 U	-	-	-
Trichloroethene	Pond North	4/12/2013	0.001 U	-	-	-
Trichloroethene	Pond North	7/17/2013	0.001 U	-	-	-
Trichloroethene	Pond North	7/17/2013	0.001 U	-	-	-
Trichloroethene	Pond North	10/29/2013	0.001 U	-	-	-
Trichloroethene	Pond North	4/16/2014	0.0033 U	-	-	-
Trichloroethene	Pond North	7/17/2014	0.01 U	-	-	-
Trichloroethene	Pond North	10/29/2014	0.008 U	-	-	-
Trichloroethene	Pond North	4/27/2015	0.008 U	-	-	-
Trichloroethene	Pond North	7/10/2015	0.0033 U	-	-	-
Trichloroethene	Pond North	10/20/2015	0.0014 U	-	-	-
Trichloroethene	Pond North	4/22/2016	0.005 U	-	-	-
Trichloroethene	Pond North	7/19/2016	0.0025 U	-	-	-
Trichloroethene	Pond North	7/19/2016	0.0025 U	-	-	-
Trichloroethene	Pond North	10/24/2016	0.033 U	-	-	-
Trichloroethene	Pond North	4/18/2017	0.0067 U	-	-	-
Trichloroethene	Pond North	4/18/2017	0.0067 U	-	-	-
Trichloroethene	Pond North	7/12/2017	0.0071	-	-	-
Trichloroethene	Pond North	7/12/2017	0.0073	-	-	-
Trichloroethene	Pond North	10/19/2017	0.01 U	-	-	-
cis-1,2-Dichloroethene	MW-2	5/9/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-2	7/10/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-2	10/17/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-2	6/25/2008	0.00015 J	-	-	-
cis-1,2-Dichloroethene	MW-2	12/17/2009	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-2	10/28/2010	0.0021	-	-	-
cis-1,2-Dichloroethene	MW-2	10/6/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-2	10/16/2012	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-2	10/29/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-2	10/29/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-2	10/29/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-2	10/19/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-2	10/24/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-2	10/17/2017	0.0014	-	-	-
cis-1,2-Dichloroethene	MW 3	2/1/2005	5.3	-	-	-
cis-1,2-Dichloroethene	MW 3	2/1/2005	5.3	-	-	-
cis-1,2-Dichloroethene	MW 3	10/18/2005	0.0042 U	-	-	-
cis-1,2-Dichloroethene	MW 3	1/31/2006	3	-	-	-
cis-1,2-Dichloroethene	MW 3	4/18/2006	4.1	-	-	-
cis-1,2-Dichloroethene	MW 3	4/18/2006	4.1	-	-	-
cis-1,2-Dichloroethene	MW 3	7/19/2006	4.5	-	-	-
cis-1,2-Dichloroethene	MW 3	7/19/2006	4.2	-	-	-

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cis-1,2-Dichloroethene	MW 3	10/16/2006	2.5	-	-	-
cis-1,2-Dichloroethene	MW 3	1/24/2007	5.4	-	-	-
cis-1,2-Dichloroethene	MW 3	4/17/2007	3.4	-	-	-
cis-1,2-Dichloroethene	MW 3	4/17/2007	3.1	-	-	-
cis-1,2-Dichloroethene	MW 3	7/11/2007	4.4	-	-	-
cis-1,2-Dichloroethene	MW 3	10/16/2007	2.1	-	-	-
cis-1,2-Dichloroethene	MW 3	2/18/2008	7.7	-	-	-
cis-1,2-Dichloroethene	MW 3	6/30/2008	6.6	-	-	-
cis-1,2-Dichloroethene	MW 3	6/30/2008	6.5	-	-	-
cis-1,2-Dichloroethene	MW 3	12/4/2008	2.8	-	-	-
cis-1,2-Dichloroethene	MW 3	4/30/2009	12	-	-	-
cis-1,2-Dichloroethene	MW 3	12/15/2009	2.3	-	-	-
cis-1,2-Dichloroethene	MW 3	12/15/2009	2.4	-	-	-
cis-1,2-Dichloroethene	MW 3	10/28/2010	1.24	-	-	-
cis-1,2-Dichloroethene	MW 3	10/28/2010	1.08	-	-	-
cis-1,2-Dichloroethene	MW 3	4/18/2011	8.9	-	-	-
cis-1,2-Dichloroethene	MW 3	10/5/2011	5.7	-	-	-
cis-1,2-Dichloroethene	MW 3	5/16/2012	8.9	-	-	-
cis-1,2-Dichloroethene	MW 3	10/15/2012	1.2	-	-	-
cis-1,2-Dichloroethene	MW 3	4/9/2013	6.2	-	-	-
cis-1,2-Dichloroethene	MW 3	10/24/2013	0.93	-	-	-
cis-1,2-Dichloroethene	MW 3	10/24/2013	1	-	-	-
cis-1,2-Dichloroethene	MW 3	4/15/2014	4.7	-	-	-
cis-1,2-Dichloroethene	MW 3	10/23/2014	1	-	-	-
cis-1,2-Dichloroethene	MW 3	4/28/2015	4.5	-	-	-
cis-1,2-Dichloroethene	MW 3	10/14/2015	1.4	-	-	-
cis-1,2-Dichloroethene	MW 3	4/20/2016	7.4	-	-	-
cis-1,2-Dichloroethene	MW 3	10/25/2016	1.9	-	-	-
cis-1,2-Dichloroethene	MW 3	4/18/2017	7.4	-	-	-
cis-1,2-Dichloroethene	MW 3	10/12/2017	1.6	-	-	-
cis-1,2-Dichloroethene	MW-4	1/11/2005	6.1	-	-	-
cis-1,2-Dichloroethene	MW-4	10/19/2005	13	-	-	-
cis-1,2-Dichloroethene	MW-4	2/1/2006	8.6	-	-	-
cis-1,2-Dichloroethene	MW-4	4/18/2006	5.4	-	-	-
cis-1,2-Dichloroethene	MW-4	7/18/2006	8.1	-	-	-
cis-1,2-Dichloroethene	MW-4	10/17/2006	23	yes	-	-
cis-1,2-Dichloroethene	MW-4	1/24/2007	7.7	-	-	-
cis-1,2-Dichloroethene	MW-4	4/16/2007	11 J	-	-	-
cis-1,2-Dichloroethene	MW-4	7/10/2007	11	-	-	-
cis-1,2-Dichloroethene	MW-4	7/10/2007	13	-	-	-
cis-1,2-Dichloroethene	MW-4	10/17/2007	6.7	-	-	-
cis-1,2-Dichloroethene	MW-4	10/17/2007	7.7	-	-	-
cis-1,2-Dichloroethene	MW-4	2/18/2008	15	-	-	-
cis-1,2-Dichloroethene	MW-4	6/25/2008	11	-	-	-
cis-1,2-Dichloroethene	MW-4	6/25/2008	9.2	-	-	-
cis-1,2-Dichloroethene	MW-4	12/3/2008	18	-	-	-
cis-1,2-Dichloroethene	MW-4	4/30/2009	7.8	-	-	-
cis-1,2-Dichloroethene	MW-4	4/30/2009	7.5	-	-	-
cis-1,2-Dichloroethene	MW-4	12/16/2009	16	-	-	-
cis-1,2-Dichloroethene	MW-4	12/16/2009	16	-	-	-
cis-1,2-Dichloroethene	MW-4	10/28/2010	12.6	-	-	-
cis-1,2-Dichloroethene	MW-4	4/20/2011	8.8	-	-	-
cis-1,2-Dichloroethene	MW-4	4/20/2011	8.7	-	-	-

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cis-1,2-Dichloroethene	MW-4	10/6/2011	11	-	-	-
cis-1,2-Dichloroethene	MW-4	5/16/2012	11	-	-	-
cis-1,2-Dichloroethene	MW-4	10/16/2012	14	-	-	-
cis-1,2-Dichloroethene	MW-4	4/12/2013	12	-	-	-
cis-1,2-Dichloroethene	MW-4	10/29/2013	14	-	-	-
cis-1,2-Dichloroethene	MW-4	4/16/2014	13	-	-	-
cis-1,2-Dichloroethene	MW-4	4/16/2014	13	-	-	-
cis-1,2-Dichloroethene	MW-4	10/29/2014	12	-	-	-
cis-1,2-Dichloroethene	MW-4	4/27/2015	10	-	-	-
cis-1,2-Dichloroethene	MW-4	10/19/2015	12	-	-	-
cis-1,2-Dichloroethene	MW-4	4/22/2016	9.4	-	-	-
cis-1,2-Dichloroethene	MW-4	10/24/2016	7.9	-	-	-
cis-1,2-Dichloroethene	MW-4	4/18/2017	8.6	-	-	-
cis-1,2-Dichloroethene	MW-4	10/17/2017	8.6	-	-	-
cis-1,2-Dichloroethene	MW-4	10/17/2017	8	-	-	-
cis-1,2-Dichloroethene	MW-7	10/29/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-7	10/18/2017	0.001 U / 0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 8	2/2/2005	17	-	-	-
cis-1,2-Dichloroethene	MW 8	10/17/2005	5.8	-	-	-
cis-1,2-Dichloroethene	MW 8	10/17/2005	5.5	-	-	-
cis-1,2-Dichloroethene	MW 8	2/1/2006	12 J	-	-	-
cis-1,2-Dichloroethene	MW 8	4/17/2006	16	-	-	-
cis-1,2-Dichloroethene	MW 8	7/18/2006	4.6	-	-	-
cis-1,2-Dichloroethene	MW 8	10/16/2006	5.4	-	-	-
cis-1,2-Dichloroethene	MW 8	1/23/2007	10	-	-	-
cis-1,2-Dichloroethene	MW 8	4/16/2007	9.1	-	-	-
cis-1,2-Dichloroethene	MW 8	7/10/2007	7.5	-	-	-
cis-1,2-Dichloroethene	MW 8	10/15/2007	9.6	-	-	-
cis-1,2-Dichloroethene	MW 8	6/27/2008	22	-	-	-
cis-1,2-Dichloroethene	MW 8	12/15/2009	0.24	yes	-	-
cis-1,2-Dichloroethene	MW 8	10/27/2010	5.44	-	-	-
cis-1,2-Dichloroethene	MW 8	4/18/2011	8.5	-	-	-
cis-1,2-Dichloroethene	MW 8	10/5/2011	7.1	-	-	-
cis-1,2-Dichloroethene	MW 8	5/15/2012	5.1	-	-	-
cis-1,2-Dichloroethene	MW 8	5/15/2012	5.2	-	-	-
cis-1,2-Dichloroethene	MW 8	10/15/2012	3.8	-	-	-
cis-1,2-Dichloroethene	MW 8	4/9/2013	3.5	-	-	-
cis-1,2-Dichloroethene	MW 8	10/24/2013	4.2	-	-	-
cis-1,2-Dichloroethene	MW 8	4/15/2014	9.3	-	-	-
cis-1,2-Dichloroethene	MW 8	10/23/2014	4.4	-	-	-
cis-1,2-Dichloroethene	MW 8	4/28/2015	3.8	-	-	-
cis-1,2-Dichloroethene	MW 8	10/14/2015	4.8	-	-	-
cis-1,2-Dichloroethene	MW 8	4/20/2016	4.9	-	-	-
cis-1,2-Dichloroethene	MW 8	4/20/2016	4.9	-	-	-
cis-1,2-Dichloroethene	MW 8	10/21/2016	4.3	-	-	-
cis-1,2-Dichloroethene	MW 8	4/18/2017	3.1	-	-	-
cis-1,2-Dichloroethene	MW 8	10/12/2017	4	-	-	-
cis-1,2-Dichloroethene	MW 12	2/2/2005	1	-	-	-
cis-1,2-Dichloroethene	MW 12	10/19/2005	0.96	-	-	-
cis-1,2-Dichloroethene	MW 12	10/19/2005	1	-	-	-
cis-1,2-Dichloroethene	MW 12	1/31/2006	0.97	-	-	-
cis-1,2-Dichloroethene	MW 12	4/18/2006	0.51	-	-	-
cis-1,2-Dichloroethene	MW 12	7/18/2006	0.41	-	-	-

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cis-1,2-Dichloroethene	MW 12	7/18/2006	0.45	-	-	-
cis-1,2-Dichloroethene	MW 12	10/19/2006	0.67	-	-	-
cis-1,2-Dichloroethene	MW 12	1/22/2007	0.51	-	-	-
cis-1,2-Dichloroethene	MW 12	4/18/2007	0.44	-	-	-
cis-1,2-Dichloroethene	MW 12	7/11/2007	0.61	-	-	-
cis-1,2-Dichloroethene	MW 12	10/19/2007	0.59	-	-	-
cis-1,2-Dichloroethene	MW 12	6/27/2008	0.46	-	-	-
cis-1,2-Dichloroethene	MW 12	12/5/2008	0.48	-	-	-
cis-1,2-Dichloroethene	MW 12	4/29/2009	0.49	-	-	-
cis-1,2-Dichloroethene	MW 12	12/9/2009	0.42	-	-	-
cis-1,2-Dichloroethene	MW 12	10/26/2010	0.324	-	-	-
cis-1,2-Dichloroethene	MW 12	4/20/2011	0.29	-	-	-
cis-1,2-Dichloroethene	MW 12	10/5/2011	0.24	-	-	-
cis-1,2-Dichloroethene	MW 12	5/15/2012	0.24	-	-	-
cis-1,2-Dichloroethene	MW 12	10/11/2012	0.2	-	-	-
cis-1,2-Dichloroethene	MW 12	4/9/2013	0.21	-	-	-
cis-1,2-Dichloroethene	MW 12	10/23/2013	0.24	-	-	-
cis-1,2-Dichloroethene	MW 12	4/11/2014	0.21	-	-	-
cis-1,2-Dichloroethene	MW 12	10/24/2014	0.15	-	-	-
cis-1,2-Dichloroethene	MW 12	10/24/2014	0.16	-	-	-
cis-1,2-Dichloroethene	MW 12	4/27/2015	0.13	-	-	-
cis-1,2-Dichloroethene	MW 12	10/9/2015	0.08	-	-	-
cis-1,2-Dichloroethene	MW 12	4/21/2016	0.13	-	-	-
cis-1,2-Dichloroethene	MW 12	10/25/2016	0.12	-	-	-
cis-1,2-Dichloroethene	MW 12	4/19/2017	0.11	-	-	-
cis-1,2-Dichloroethene	MW 12	10/6/2017	0.1	-	-	-
cis-1,2-Dichloroethene	MW 14	2/2/2005	7.4	-	-	-
cis-1,2-Dichloroethene	MW 14	10/17/2005	7.4	-	-	-
cis-1,2-Dichloroethene	MW 14	2/1/2006	5.7	-	-	-
cis-1,2-Dichloroethene	MW 14	4/18/2006	4.7	-	-	-
cis-1,2-Dichloroethene	MW 14	7/19/2006	4.1	-	-	-
cis-1,2-Dichloroethene	MW 14	10/18/2006	4.3 J	-	-	-
cis-1,2-Dichloroethene	MW 14	1/24/2007	4.7	-	-	-
cis-1,2-Dichloroethene	MW 14	4/17/2007	5.8 J	-	-	-
cis-1,2-Dichloroethene	MW 14	7/9/2007	6.6	-	-	-
cis-1,2-Dichloroethene	MW 14	10/16/2007	7.7	-	-	-
cis-1,2-Dichloroethene	MW 14	6/30/2008	6	-	-	-
cis-1,2-Dichloroethene	MW 14	12/5/2008	6.1	-	-	-
cis-1,2-Dichloroethene	MW 14	4/29/2009	6.1	-	-	-
cis-1,2-Dichloroethene	MW 14	12/15/2009	0.33	yes	-	-
cis-1,2-Dichloroethene	MW 14	10/27/2010	5.22	-	-	-
cis-1,2-Dichloroethene	MW 14	4/18/2011	4.9	-	-	-
cis-1,2-Dichloroethene	MW 14	10/5/2011	4.7	-	-	-
cis-1,2-Dichloroethene	MW 14	5/15/2012	4.4	-	-	-
cis-1,2-Dichloroethene	MW 14	10/15/2012	4.9	-	-	-
cis-1,2-Dichloroethene	MW 14	4/9/2013	3.6	-	-	-
cis-1,2-Dichloroethene	MW 14	4/9/2013	3.9	-	-	-
cis-1,2-Dichloroethene	MW 14	10/25/2013	6.1	-	-	-
cis-1,2-Dichloroethene	MW 14	10/25/2013	5	-	-	-
cis-1,2-Dichloroethene	MW 14	4/15/2014	5.7	-	-	-
cis-1,2-Dichloroethene	MW 14	4/15/2014	5.5	-	-	-
cis-1,2-Dichloroethene	MW 14	10/24/2014	4.9	-	-	-
cis-1,2-Dichloroethene	MW 14	4/29/2015	4.5	-	-	-

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cis-1,2-Dichloroethene	MW 14	4/29/2015	4.8	-	-	-
cis-1,2-Dichloroethene	MW 14	10/12/2015	4.7	-	-	-
cis-1,2-Dichloroethene	MW 14	4/19/2016	4.4	-	-	-
cis-1,2-Dichloroethene	MW 14	10/25/2016	4.4	-	-	-
cis-1,2-Dichloroethene	MW 14	4/18/2017	4.1	-	-	-
cis-1,2-Dichloroethene	MW 14	4/18/2017	3.9	-	-	-
cis-1,2-Dichloroethene	MW 14	10/13/2017	4.1	-	-	-
cis-1,2-Dichloroethene	MW 14	10/13/2017	4	-	-	-
cis-1,2-Dichloroethene	MW 15	2/1/2005	29	-	-	sampling frequency
cis-1,2-Dichloroethene	MW 15	10/18/2005	11	-	-	-
cis-1,2-Dichloroethene	MW 15	2/1/2006	20 J	-	-	sampling frequency
cis-1,2-Dichloroethene	MW 15	4/18/2006	12	-	-	sampling frequency
cis-1,2-Dichloroethene	MW 15	7/19/2006	9	-	-	sampling frequency
cis-1,2-Dichloroethene	MW 15	10/17/2006	8.4	-	-	-
cis-1,2-Dichloroethene	MW 15	1/24/2007	24	-	-	sampling frequency
cis-1,2-Dichloroethene	MW 15	4/17/2007	18	-	-	sampling frequency
cis-1,2-Dichloroethene	MW 15	7/10/2007	15	-	-	sampling frequency
cis-1,2-Dichloroethene	MW 15	7/10/2007	15	-	-	sampling frequency
cis-1,2-Dichloroethene	MW 15	10/16/2007	12	-	-	-
cis-1,2-Dichloroethene	MW 15	2/14/2008	19	-	-	-
cis-1,2-Dichloroethene	MW 15	10/24/2013	12	-	-	-
cis-1,2-Dichloroethene	MW 15	10/23/2014	6.3	-	-	-
cis-1,2-Dichloroethene	MW 15	10/14/2015	4.4	-	-	-
cis-1,2-Dichloroethene	MW 15	10/21/2016	1.7	-	-	-
cis-1,2-Dichloroethene	MW 15	10/11/2017	3.5	-	-	-
cis-1,2-Dichloroethene	MW 16	1/17/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 16	11/14/2013	0.00031 J	-	-	-
cis-1,2-Dichloroethene	MW 16	4/10/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 16	10/12/2015	0.00026 J	-	-	-
cis-1,2-Dichloroethene	MW 16	10/23/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 16	10/12/2017	0.0019	-	-	-
cis-1,2-Dichloroethene	MW 21	2/1/2005	0.001 U	-	-	sampling frequency
cis-1,2-Dichloroethene	MW 21	10/17/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 21	2/1/2006	0.00092 J	-	-	sampling frequency
cis-1,2-Dichloroethene	MW 21	4/17/2006	0.001 U	-	-	sampling frequency
cis-1,2-Dichloroethene	MW 21	7/18/2006	0.001 U	-	-	sampling frequency
cis-1,2-Dichloroethene	MW 21	10/16/2006	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 21	1/23/2007	0.001 U	-	-	sampling frequency
cis-1,2-Dichloroethene	MW 21	4/16/2007	0.001 U	-	-	sampling frequency
cis-1,2-Dichloroethene	MW 21	7/9/2007	0.001 U	-	-	sampling frequency
cis-1,2-Dichloroethene	MW 21	10/15/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 21	10/14/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 21	10/21/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 21	10/18/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 28	1/10/2005	6.1	yes	-	-
cis-1,2-Dichloroethene	MW 28	10/18/2005	0.0063 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 28	10/19/2006	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 28	10/18/2007	0.0071 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 28	6/24/2008	0.0042 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 28	12/4/2008	0.005 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 28	4/29/2009	0.005 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 28	12/4/2009	0.0063 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 28	10/26/2010	0.005 U	-	-	detection frequency

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cis-1,2-Dichloroethene	MW 28	4/19/2011	0.002 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 28	10/3/2011	0.0033 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 28	5/14/2012	0.0011 J	-	-	-
cis-1,2-Dichloroethene	MW 28	10/10/2012	0.018	-	-	-
cis-1,2-Dichloroethene	MW 28	4/10/2013	0.13	-	-	-
cis-1,2-Dichloroethene	MW 28	10/23/2013	0.31	-	-	-
cis-1,2-Dichloroethene	MW 28	4/15/2014	0.57	-	-	-
cis-1,2-Dichloroethene	MW 28	4/15/2014	0.56	-	-	-
cis-1,2-Dichloroethene	MW 28	10/27/2014	0.56	-	-	-
cis-1,2-Dichloroethene	MW 28	4/29/2015	0.6	-	-	-
cis-1,2-Dichloroethene	MW 28	10/12/2015	0.86	-	-	-
cis-1,2-Dichloroethene	MW 28	4/19/2016	0.77	-	-	-
cis-1,2-Dichloroethene	MW 28	10/22/2016	0.86	-	-	-
cis-1,2-Dichloroethene	MW 28	4/19/2017	0.85	-	-	-
cis-1,2-Dichloroethene	MW 28	10/9/2017	0.92	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/18/2005	45	yes	-	-
cis-1,2-Dichloroethene	MW 31R	1/31/2006	16	-	-	-
cis-1,2-Dichloroethene	MW 31R	4/19/2006	8.7	-	-	-
cis-1,2-Dichloroethene	MW 31R	7/19/2006	12	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/17/2006	6.3 J	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/17/2006	6.8	-	-	-
cis-1,2-Dichloroethene	MW 31R	1/23/2007	7.3	-	-	-
cis-1,2-Dichloroethene	MW 31R	1/23/2007	7.8	-	-	-
cis-1,2-Dichloroethene	MW 31R	4/17/2007	10	-	-	-
cis-1,2-Dichloroethene	MW 31R	7/11/2007	13	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/17/2007	12	-	-	-
cis-1,2-Dichloroethene	MW 31R	2/14/2008	15	-	-	-
cis-1,2-Dichloroethene	MW 31R	2/14/2008	16	-	-	-
cis-1,2-Dichloroethene	MW 31R	12/4/2008	14	-	-	-
cis-1,2-Dichloroethene	MW 31R	4/29/2009	11	-	-	-
cis-1,2-Dichloroethene	MW 31R	12/15/2009	11	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/28/2010	6.44	-	-	-
cis-1,2-Dichloroethene	MW 31R	4/18/2011	6.2	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/4/2011	5.1	-	-	-
cis-1,2-Dichloroethene	MW 31R	5/15/2012	8.8	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/15/2012	6.2	-	-	-
cis-1,2-Dichloroethene	MW 31R	4/9/2013	8.3	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/24/2013	7.2	-	-	-
cis-1,2-Dichloroethene	MW 31R	4/15/2014	12	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/27/2014	7.3	-	-	-
cis-1,2-Dichloroethene	MW 31R	4/28/2015	11	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/14/2015	6.6	-	-	-
cis-1,2-Dichloroethene	MW 31R	4/20/2016	15	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/21/2016	18	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/21/2016	18	-	-	-
cis-1,2-Dichloroethene	MW 31R	4/19/2017	18	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/12/2017	69	yes	-	-
cis-1,2-Dichloroethene	MW 37	1/18/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	1/18/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	10/17/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	6/26/2008	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	12/16/2009	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	10/27/2010	0.001 U	-	-	-

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cis-1,2-Dichloroethene	MW 37	10/5/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	10/17/2012	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	10/17/2012	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	10/25/2013	0.0011	-	-	-
cis-1,2-Dichloroethene	MW 37	10/22/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	10/9/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	10/23/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	10/16/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 40	1/12/2005	13	-	-	-
cis-1,2-Dichloroethene	MW 40	10/18/2005	16	-	-	-
cis-1,2-Dichloroethene	MW 40	1/30/2006	15	-	-	-
cis-1,2-Dichloroethene	MW 40	4/17/2006	8.5	-	-	-
cis-1,2-Dichloroethene	MW 40	7/19/2006	9.4	-	-	-
cis-1,2-Dichloroethene	MW 40	10/18/2006	12	-	-	-
cis-1,2-Dichloroethene	MW 40	1/23/2007	11	-	-	-
cis-1,2-Dichloroethene	MW 40	4/18/2007	9.6	-	-	-
cis-1,2-Dichloroethene	MW 40	7/10/2007	10	-	-	-
cis-1,2-Dichloroethene	MW 40	10/18/2007	17	-	-	-
cis-1,2-Dichloroethene	MW 40	2/15/2008	17	-	-	-
cis-1,2-Dichloroethene	MW 40	6/26/2008	15 J	-	-	-
cis-1,2-Dichloroethene	MW 40	12/3/2008	13	-	-	-
cis-1,2-Dichloroethene	MW 40	12/3/2008	13	-	-	-
cis-1,2-Dichloroethene	MW 40	4/30/2009	13	-	-	-
cis-1,2-Dichloroethene	MW 40	12/9/2009	13	-	-	-
cis-1,2-Dichloroethene	MW 40	10/26/2010	7.66	-	-	-
cis-1,2-Dichloroethene	MW 40	4/19/2011	8.8	-	-	-
cis-1,2-Dichloroethene	MW 40	10/4/2011	7.6	-	-	-
cis-1,2-Dichloroethene	MW 40	5/14/2012	7.9	-	-	-
cis-1,2-Dichloroethene	MW 40	10/10/2012	6.7	-	-	-
cis-1,2-Dichloroethene	MW 40	4/9/2013	7.9	-	-	-
cis-1,2-Dichloroethene	MW 40	10/24/2013	8.1	-	-	-
cis-1,2-Dichloroethene	MW 40	4/14/2014	11	-	-	-
cis-1,2-Dichloroethene	MW 40	10/27/2014	7.2	-	-	-
cis-1,2-Dichloroethene	MW 40	4/28/2015	7.5	-	-	-
cis-1,2-Dichloroethene	MW 40	10/13/2015	6.3	-	-	-
cis-1,2-Dichloroethene	MW 40	4/19/2016	7	-	-	-
cis-1,2-Dichloroethene	MW 40	10/20/2016	5	-	-	-
cis-1,2-Dichloroethene	MW 40	4/19/2017	5.4	-	-	-
cis-1,2-Dichloroethene	MW 40	10/10/2017	5.4	-	-	-
cis-1,2-Dichloroethene	MW 40	10/10/2017	5.5	-	-	-
cis-1,2-Dichloroethene	MW 41	10/17/2005	4.3	-	-	-
cis-1,2-Dichloroethene	MW 41	1/30/2006	8.5	-	-	-
cis-1,2-Dichloroethene	MW 41	4/17/2006	5.1	-	-	-
cis-1,2-Dichloroethene	MW 41	4/17/2006	4.7	-	-	-
cis-1,2-Dichloroethene	MW 41	7/18/2006	5.4	-	-	-
cis-1,2-Dichloroethene	MW 41	10/18/2006	6.5 J	-	-	-
cis-1,2-Dichloroethene	MW 41	1/23/2007	6.5	-	-	-
cis-1,2-Dichloroethene	MW 41	4/18/2007	5.1	-	-	-
cis-1,2-Dichloroethene	MW 41	4/18/2007	4.1	-	-	-
cis-1,2-Dichloroethene	MW 41	7/10/2007	8.3	-	-	-
cis-1,2-Dichloroethene	MW 41	10/18/2007	10	-	-	-
cis-1,2-Dichloroethene	MW 41	2/15/2008	9.8	-	-	-
cis-1,2-Dichloroethene	MW 41	6/24/2008	7	-	-	-

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cis-1,2-Dichloroethene	MW 41	12/3/2008	9.5	-	-	-
cis-1,2-Dichloroethene	MW 41	4/28/2009	10	-	-	-
cis-1,2-Dichloroethene	MW 41	12/3/2009	8.4	-	-	-
cis-1,2-Dichloroethene	MW 41	10/25/2010	6.94	-	-	-
cis-1,2-Dichloroethene	MW 41	4/19/2011	6.3	-	-	-
cis-1,2-Dichloroethene	MW 41	10/4/2011	6.3	-	-	-
cis-1,2-Dichloroethene	MW 41	5/14/2012	6	-	-	-
cis-1,2-Dichloroethene	MW 41	10/10/2012	6.8	-	-	-
cis-1,2-Dichloroethene	MW 41	4/9/2013	6.3	-	-	-
cis-1,2-Dichloroethene	MW 41	10/25/2013	7.2	-	-	-
cis-1,2-Dichloroethene	MW 41	4/14/2014	7.6	-	-	-
cis-1,2-Dichloroethene	MW 41	10/23/2014	7.3	-	-	-
cis-1,2-Dichloroethene	MW 41	4/29/2015	6.4	-	-	-
cis-1,2-Dichloroethene	MW 41	10/12/2015	6.5	-	-	-
cis-1,2-Dichloroethene	MW 41	10/12/2015	6.2	-	-	-
cis-1,2-Dichloroethene	MW 41	4/19/2016	6.4	-	-	-
cis-1,2-Dichloroethene	MW 41	10/23/2016	5.2	-	-	-
cis-1,2-Dichloroethene	MW 41	4/19/2017	6	-	-	-
cis-1,2-Dichloroethene	MW 41	10/9/2017	5.4	-	-	-
cis-1,2-Dichloroethene	MW 42	10/18/2005	12	-	-	-
cis-1,2-Dichloroethene	MW 42	1/30/2006	10	-	-	-
cis-1,2-Dichloroethene	MW 42	1/30/2006	9.7	-	-	-
cis-1,2-Dichloroethene	MW 42	4/17/2006	6.5	-	-	-
cis-1,2-Dichloroethene	MW 42	7/18/2006	7	-	-	-
cis-1,2-Dichloroethene	MW 42	10/18/2006	6.4 J	-	-	-
cis-1,2-Dichloroethene	MW 42	1/23/2007	6.2	-	-	-
cis-1,2-Dichloroethene	MW 42	1/23/2007	6.2	-	-	-
cis-1,2-Dichloroethene	MW 42	4/18/2007	3.7	-	-	-
cis-1,2-Dichloroethene	MW 42	7/10/2007	9.2	-	-	-
cis-1,2-Dichloroethene	MW 42	10/18/2007	9.8	-	-	-
cis-1,2-Dichloroethene	MW 42	2/15/2008	10	-	-	-
cis-1,2-Dichloroethene	MW 42	6/24/2008	7.9	-	-	-
cis-1,2-Dichloroethene	MW 42	12/3/2008	8.9	-	-	-
cis-1,2-Dichloroethene	MW 42	4/28/2009	9.3	-	-	-
cis-1,2-Dichloroethene	MW 42	12/3/2009	8.1	-	-	-
cis-1,2-Dichloroethene	MW 42	10/25/2010	6.27	-	-	-
cis-1,2-Dichloroethene	MW 42	4/19/2011	6	-	-	-
cis-1,2-Dichloroethene	MW 42	10/4/2011	5	-	-	-
cis-1,2-Dichloroethene	MW 42	5/14/2012	5.4	-	-	-
cis-1,2-Dichloroethene	MW 42	10/10/2012	5.3	-	-	-
cis-1,2-Dichloroethene	MW 42	4/9/2013	5.2	-	-	-
cis-1,2-Dichloroethene	MW 42	10/25/2013	5.2	-	-	-
cis-1,2-Dichloroethene	MW 42	4/14/2014	5.6	-	-	-
cis-1,2-Dichloroethene	MW 42	10/23/2014	4.3	-	-	-
cis-1,2-Dichloroethene	MW 42	4/29/2015	4.1	-	-	-
cis-1,2-Dichloroethene	MW 42	10/12/2015	4.4	-	-	-
cis-1,2-Dichloroethene	MW 42	4/19/2016	4.1	-	-	-
cis-1,2-Dichloroethene	MW 42	10/23/2016	3.2	-	-	-
cis-1,2-Dichloroethene	MW 42	4/19/2017	2.9	-	-	-
cis-1,2-Dichloroethene	MW 42	10/9/2017	3.7	-	-	-
cis-1,2-Dichloroethene	MW 46	1/12/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 46	10/19/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 46	10/19/2007	0.001 U	-	-	-

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cis-1,2-Dichloroethene	MW 46	6/27/2008	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 46	12/16/2009	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 46	10/26/2010	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 46	10/5/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 46	10/17/2012	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 46	10/25/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 46	10/22/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 46	10/9/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 46	10/23/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 46	10/16/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 49	1/12/2005	0.01	-	-	-
cis-1,2-Dichloroethene	MW 49	10/19/2007	0.045	-	-	-
cis-1,2-Dichloroethene	MW 49	2/15/2008	0.045	-	-	-
cis-1,2-Dichloroethene	MW 49	6/30/2008	0.065	-	-	-
cis-1,2-Dichloroethene	MW 49	12/5/2008	0.093	-	-	-
cis-1,2-Dichloroethene	MW 49	4/29/2009	0.1	-	-	-
cis-1,2-Dichloroethene	MW 49	12/4/2009	0.44	-	-	-
cis-1,2-Dichloroethene	MW 49	10/27/2010	0.352	-	-	-
cis-1,2-Dichloroethene	MW 49	4/19/2011	0.37	-	-	-
cis-1,2-Dichloroethene	MW 49	10/5/2011	0.53	-	-	-
cis-1,2-Dichloroethene	MW 49	5/15/2012	0.66	-	-	-
cis-1,2-Dichloroethene	MW 49	10/17/2012	0.78	-	-	-
cis-1,2-Dichloroethene	MW 49	4/10/2013	0.74	-	-	-
cis-1,2-Dichloroethene	MW 49	10/25/2013	0.9	-	-	-
cis-1,2-Dichloroethene	MW 49	4/14/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 49	10/27/2014	0.78	-	-	-
cis-1,2-Dichloroethene	MW 49	4/28/2015	0.71	-	-	-
cis-1,2-Dichloroethene	MW 49	10/13/2015	0.86	-	-	-
cis-1,2-Dichloroethene	MW 49	4/21/2016	0.83	-	-	-
cis-1,2-Dichloroethene	MW 51	12/5/2008	0.0086 J	-	-	-
cis-1,2-Dichloroethene	MW 51	12/5/2008	0.0085 J	-	-	-
cis-1,2-Dichloroethene	MW 51	4/29/2009	0.0065 J	-	-	-
cis-1,2-Dichloroethene	MW 51	12/14/2009	0.011	-	-	-
cis-1,2-Dichloroethene	MW 51	10/27/2010	0.0096 J	-	-	-
cis-1,2-Dichloroethene	MW 51	4/20/2011	0.0067 U	-	-	-
cis-1,2-Dichloroethene	MW 51	10/5/2011	0.0078 J	-	-	-
cis-1,2-Dichloroethene	MW 51	5/14/2012	0.0065	-	-	-
cis-1,2-Dichloroethene	MW 51	10/12/2012	0.0099	-	-	-
cis-1,2-Dichloroethene	MW 51	4/9/2013	0.0076 J	-	-	-
cis-1,2-Dichloroethene	MW 51	10/23/2013	0.0075	-	-	-
cis-1,2-Dichloroethene	MW 51	4/16/2014	0.0071	-	-	-
cis-1,2-Dichloroethene	MW 51	10/21/2014	0.0077	-	-	-
cis-1,2-Dichloroethene	MW 51	4/28/2015	0.0078	-	-	-
cis-1,2-Dichloroethene	MW 51	4/28/2015	0.0077	-	-	-
cis-1,2-Dichloroethene	MW 51	10/9/2015	0.0083	-	-	-
cis-1,2-Dichloroethene	MW 51	4/20/2016	0.011	-	-	-
cis-1,2-Dichloroethene	MW 51	10/23/2016	0.012	-	-	-
cis-1,2-Dichloroethene	MW 51	4/18/2017	0.015	-	-	-
cis-1,2-Dichloroethene	MW 51	10/16/2017	0.028	yes	-	-
cis-1,2-Dichloroethene	MW 56	1/11/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 56	10/19/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 56	10/18/2006	0.0024	-	-	-
cis-1,2-Dichloroethene	MW 56	10/18/2007	0.001 U	-	-	-

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cis-1,2-Dichloroethene	MW 56	6/26/2008	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 56	12/17/2009	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 56	10/28/2010	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 56	10/6/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 56	10/16/2012	0.003	-	-	-
cis-1,2-Dichloroethene	MW 56	10/29/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 56	10/29/2014	0.00020 J	-	-	-
cis-1,2-Dichloroethene	MW 56	10/29/2014	0.00021 J	-	-	-
cis-1,2-Dichloroethene	MW 56	10/19/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 56	10/24/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 56	10/18/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	1/10/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	10/19/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	2/1/2006	0.0014	-	-	-
cis-1,2-Dichloroethene	MW 57	4/18/2006	0.0007 J	-	-	-
cis-1,2-Dichloroethene	MW 57	7/18/2006	0.004	-	-	-
cis-1,2-Dichloroethene	MW 57	10/17/2006	0.0011	-	-	-
cis-1,2-Dichloroethene	MW 57	1/24/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	4/16/2007	0.00034 J	-	-	-
cis-1,2-Dichloroethene	MW 57	7/10/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	10/17/2007	0.00014 J	-	-	-
cis-1,2-Dichloroethene	MW 57	6/25/2008	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	12/16/2009	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	10/28/2010	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	10/28/2010	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	10/6/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	10/16/2012	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	10/29/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	10/29/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	10/19/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	10/24/2016	0.0042	-	-	-
cis-1,2-Dichloroethene	MW 57	10/18/2017	0.0033 U	-	-	-
cis-1,2-Dichloroethene	MW 58	1/10/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 58	10/19/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 58	10/17/2006	0.0042 J	-	-	-
cis-1,2-Dichloroethene	MW 58	10/17/2007	0.0034 U	-	-	-
cis-1,2-Dichloroethene	MW 58	2/18/2008	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 58	6/25/2008	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 58	12/17/2009	0.0031 U	-	-	-
cis-1,2-Dichloroethene	MW 58	10/28/2010	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 58	10/6/2011	0.008 U	-	-	-
cis-1,2-Dichloroethene	MW 58	10/16/2012	0.0057 U	-	-	-
cis-1,2-Dichloroethene	MW 58	10/16/2012	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 58	10/29/2013	0.002 U	-	-	-
cis-1,2-Dichloroethene	MW 58	10/29/2014	0.0033 U	-	-	-
cis-1,2-Dichloroethene	MW 58	10/20/2015	0.028	-	-	-
cis-1,2-Dichloroethene	MW 58	10/20/2015	0.028	-	-	-
cis-1,2-Dichloroethene	MW 58	10/25/2016	1.1	-	-	-
cis-1,2-Dichloroethene	MW 58	10/17/2017	2.2	-	-	-
cis-1,2-Dichloroethene	MW 61	1/11/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 61	6/24/2008	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 61	12/3/2009	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 61	10/26/2010	0.005 U	-	-	-

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Analyte	Location	Date	Result (mg/L)	Outlier	Ambiguous Data	Excluded Data
cis-1,2-Dichloroethene	MW 61	10/26/2010	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 61	10/3/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 61	10/10/2012	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 61	10/23/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 61	10/21/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 61	10/9/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 61	10/22/2016	0.00035 J	-	-	-
cis-1,2-Dichloroethene	MW 61	10/9/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 64	1/11/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 64	10/19/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 64	10/18/2006	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 64	10/19/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 64	2/18/2008	0.014	-	-	-
cis-1,2-Dichloroethene	MW 64	2/18/2008	0.024	-	-	-
cis-1,2-Dichloroethene	MW 64	6/26/2008	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 64	12/8/2009	0.00014 J	-	-	-
cis-1,2-Dichloroethene	MW 64	12/8/2009	0.00014 J	-	-	-
cis-1,2-Dichloroethene	MW 64	10/25/2010	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 64	10/3/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 64	10/11/2012	0.00063 J	-	-	-
cis-1,2-Dichloroethene	MW 64	10/11/2012	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 64	10/22/2013	0.025	-	-	-
cis-1,2-Dichloroethene	MW 64	10/28/2014	0.22	-	-	-
cis-1,2-Dichloroethene	MW 64	10/13/2015	0.25	-	-	-
cis-1,2-Dichloroethene	MW 64	10/20/2016	0.062	-	-	-
cis-1,2-Dichloroethene	MW 64	10/10/2017	0.23	-	-	-
cis-1,2-Dichloroethene	MW 65	1/10/2005	0.17	-	-	-
cis-1,2-Dichloroethene	MW 65	10/18/2007	2.7	-	-	-
cis-1,2-Dichloroethene	MW 65	2/15/2008	3	-	-	-
cis-1,2-Dichloroethene	MW 65	6/27/2008	0.34	-	-	-
cis-1,2-Dichloroethene	MW 65	12/4/2008	1.9	-	-	-
cis-1,2-Dichloroethene	MW 65	4/28/2009	0.97	-	-	-
cis-1,2-Dichloroethene	MW 65	12/4/2009	1.4	-	-	-
cis-1,2-Dichloroethene	MW 65	10/25/2010	2.44	-	-	-
cis-1,2-Dichloroethene	MW 65	10/3/2011	0.97	-	-	-
cis-1,2-Dichloroethene	MW 65	10/11/2012	0.38	-	-	-
cis-1,2-Dichloroethene	MW 65	10/22/2013	0.21	-	-	-
cis-1,2-Dichloroethene	MW 65	10/22/2014	0.053	-	-	-
cis-1,2-Dichloroethene	MW 65	10/22/2014	0.064	-	-	-
cis-1,2-Dichloroethene	MW 65	10/8/2015	0.051	-	-	-
cis-1,2-Dichloroethene	MW 65	10/19/2016	0.028	-	-	-
cis-1,2-Dichloroethene	MW 65	10/6/2017	0.02	-	-	-
cis-1,2-Dichloroethene	MW 66	1/11/2005	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 66	1/11/2005	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 66	10/18/2005	0.0014 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 66	10/18/2006	0.001 UJ	-	-	detection frequency
cis-1,2-Dichloroethene	MW 66	10/19/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 66	10/19/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 66	2/18/2008	0.00012 J	-	-	-
cis-1,2-Dichloroethene	MW 66	6/26/2008	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 66	12/4/2008	0.0007 J	-	-	-
cis-1,2-Dichloroethene	MW 66	4/28/2009	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 66	4/28/2009	0.001 U	-	-	detection frequency

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cis-1,2-Dichloroethene	MW 66	12/8/2009	0.0048	-	-	-
cis-1,2-Dichloroethene	MW 66	10/25/2010	0.248	-	-	-
cis-1,2-Dichloroethene	MW 66	4/19/2011	0.23	-	-	-
cis-1,2-Dichloroethene	MW 66	4/19/2011	0.24	-	-	-
cis-1,2-Dichloroethene	MW 66	10/3/2011	0.33	-	-	-
cis-1,2-Dichloroethene	MW 66	5/14/2012	0.24	-	-	-
cis-1,2-Dichloroethene	MW 66	10/11/2012	0.42	-	-	-
cis-1,2-Dichloroethene	MW 66	4/10/2013	0.36	-	-	-
cis-1,2-Dichloroethene	MW 66	10/22/2013	0.9	-	-	-
cis-1,2-Dichloroethene	MW 66	4/11/2014	0.28	-	-	-
cis-1,2-Dichloroethene	MW 66	10/27/2014	0.53	-	-	-
cis-1,2-Dichloroethene	MW 66	4/27/2015	0.45	-	-	-
cis-1,2-Dichloroethene	MW 66	10/13/2015	1	-	-	-
cis-1,2-Dichloroethene	MW 66	4/20/2016	1.1	-	-	-
cis-1,2-Dichloroethene	MW 66	10/20/2016	1.8	-	-	-
cis-1,2-Dichloroethene	MW 66	4/19/2017	2.2	-	-	-
cis-1,2-Dichloroethene	MW 66	10/10/2017	3	-	-	-
cis-1,2-Dichloroethene	MW 68	1/18/2005	14	-	-	-
cis-1,2-Dichloroethene	MW 68	10/19/2005	16	-	-	-
cis-1,2-Dichloroethene	MW 68	10/19/2005	16	-	-	-
cis-1,2-Dichloroethene	MW 68	1/31/2006	13	-	-	-
cis-1,2-Dichloroethene	MW 68	4/18/2006	9.9	-	-	-
cis-1,2-Dichloroethene	MW 68	7/19/2006	7.5	-	-	-
cis-1,2-Dichloroethene	MW 68	10/19/2006	12	-	-	-
cis-1,2-Dichloroethene	MW 68	1/23/2007	9.5	-	-	-
cis-1,2-Dichloroethene	MW 68	4/18/2007	8.9	-	-	-
cis-1,2-Dichloroethene	MW 68	7/9/2007	13	-	-	-
cis-1,2-Dichloroethene	MW 68	10/16/2007	14	-	-	-
cis-1,2-Dichloroethene	MW 68	2/19/2008	14	-	-	-
cis-1,2-Dichloroethene	MW 68	6/27/2008	13	-	-	-
cis-1,2-Dichloroethene	MW 68	12/5/2008	10	-	-	-
cis-1,2-Dichloroethene	MW 68	4/29/2009	11	-	-	-
cis-1,2-Dichloroethene	MW 68	12/16/2009	8.4	-	-	-
cis-1,2-Dichloroethene	MW 68	12/16/2009	8.7	-	-	-
cis-1,2-Dichloroethene	MW 68	10/26/2010	7.52	-	-	-
cis-1,2-Dichloroethene	MW 68	4/18/2011	7	-	-	-
cis-1,2-Dichloroethene	MW 68	10/4/2011	6.7	-	-	-
cis-1,2-Dichloroethene	MW 68	10/4/2011	6.6	-	-	-
cis-1,2-Dichloroethene	MW 68	5/14/2012	6.7	-	-	-
cis-1,2-Dichloroethene	MW 68	10/12/2012	6.1	-	-	-
cis-1,2-Dichloroethene	MW 68	4/10/2013	6.4	-	-	-
cis-1,2-Dichloroethene	MW 68	4/10/2013	6.1	-	-	-
cis-1,2-Dichloroethene	MW 68	10/23/2013	7	-	-	-
cis-1,2-Dichloroethene	MW 68	11/14/2013	6.5	-	-	-
cis-1,2-Dichloroethene	MW 68	11/14/2013	6.7	-	-	-
cis-1,2-Dichloroethene	MW 68	4/10/2014	6.3	-	-	-
cis-1,2-Dichloroethene	MW 68	10/23/2014	5.5	-	-	-
cis-1,2-Dichloroethene	MW 68	4/28/2015	5.8	-	-	-
cis-1,2-Dichloroethene	MW 68	4/28/2015	5.9	-	-	-
cis-1,2-Dichloroethene	MW 68	10/13/2015	5.1	-	-	-
cis-1,2-Dichloroethene	MW 68	10/13/2015	4.9	-	-	-
cis-1,2-Dichloroethene	MW 68	4/19/2016	4.5	-	-	-
cis-1,2-Dichloroethene	MW 68	10/20/2016	3.5	-	-	-

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cis-1,2-Dichloroethene	MW 68	4/17/2017	3.7	-	-	-
cis-1,2-Dichloroethene	MW 68	10/11/2017	4.2	-	-	-
cis-1,2-Dichloroethene	MW 75	1/14/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 75	10/19/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 75	10/19/2006	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 75	10/16/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 75	6/30/2008	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 75	10/27/2010	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 75	10/5/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 75	10/12/2012	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 75	10/23/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 75	10/21/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 75	10/23/2016	0.0007 J	-	-	-
cis-1,2-Dichloroethene	MW 75	10/16/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	1/14/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/20/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/19/2006	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/16/2007	0.00019 J	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/27/2010	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/5/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/5/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/12/2012	0.00099 J	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/23/2013	0.00036 J	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/23/2013	0.00043 J	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/21/2014	0.00043 J	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/18/2017	0.0027	-	-	-
cis-1,2-Dichloroethene	MW 79	1/13/2005	0.79	-	-	-
cis-1,2-Dichloroethene	MW 79	10/15/2007	0.99	-	-	-
cis-1,2-Dichloroethene	MW 79	12/5/2008	1	-	-	-
cis-1,2-Dichloroethene	MW 79	4/29/2009	1.1	-	-	-
cis-1,2-Dichloroethene	MW 79	12/14/2009	1.5	-	-	-
cis-1,2-Dichloroethene	MW 79	10/27/2010	1.22	-	-	-
cis-1,2-Dichloroethene	MW 79	4/20/2011	1.2	-	-	-
cis-1,2-Dichloroethene	MW 79	10/4/2011	1.5	-	-	-
cis-1,2-Dichloroethene	MW 79	5/15/2012	1.4	-	-	-
cis-1,2-Dichloroethene	MW 79	10/15/2012	2.1	-	-	-
cis-1,2-Dichloroethene	MW 79	10/15/2012	2.2	-	-	-
cis-1,2-Dichloroethene	MW 79	4/9/2013	1.9	-	-	-
cis-1,2-Dichloroethene	MW 79	10/28/2013	2.6	-	-	-
cis-1,2-Dichloroethene	MW 79	4/15/2014	2.9	-	-	-
cis-1,2-Dichloroethene	MW 79	10/28/2014	2.5	-	-	-
cis-1,2-Dichloroethene	MW 79	10/28/2014	2.4	-	-	-
cis-1,2-Dichloroethene	MW 79	4/29/2015	2.4	-	-	-
cis-1,2-Dichloroethene	MW 79	10/13/2015	2	-	-	-
cis-1,2-Dichloroethene	MW 79	4/19/2016	2.4	-	-	-
cis-1,2-Dichloroethene	MW 79	10/21/2016	2.1	-	-	-
cis-1,2-Dichloroethene	MW 79	4/17/2017	2.3	-	-	-
cis-1,2-Dichloroethene	MW 79	4/17/2017	2.3	-	-	-
cis-1,2-Dichloroethene	MW 79	10/11/2017	2.5	-	-	-
cis-1,2-Dichloroethene	MW 80	3/9/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 80	3/9/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 80	10/18/2005	0.0083 U	-	-	-
cis-1,2-Dichloroethene	MW 80	10/18/2006	0.001 U	-	-	-

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cis-1,2-Dichloroethene	MW 80	10/17/2007	0.00013 J	-	-	-
cis-1,2-Dichloroethene	MW 80	6/27/2008	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 80	6/27/2008	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 80	12/8/2009	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 80	10/25/2010	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 80	10/3/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 80	10/11/2012	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 80	10/22/2013	0.0017 U	-	-	-
cis-1,2-Dichloroethene	MW 80	10/24/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 80	10/8/2015	0.0012 J	-	-	-
cis-1,2-Dichloroethene	MW 80	10/22/2016	0.025	-	-	-
cis-1,2-Dichloroethene	MW 80	10/6/2017	0.0086	-	-	-
cis-1,2-Dichloroethene	MW 81	3/9/2005	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 81	3/30/2005	0.001 UJ	-	-	-
cis-1,2-Dichloroethene	MW 81	10/19/2005	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 81	10/18/2006	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 81	10/18/2006	0.001 UJ	-	-	-
cis-1,2-Dichloroethene	MW 81	10/18/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 81	2/15/2008	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 81	6/26/2008	0.00024 J	-	-	-
cis-1,2-Dichloroethene	MW 81	12/4/2009	0.0006 J	-	-	-
cis-1,2-Dichloroethene	MW 81	10/25/2010	0.005 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 81	10/3/2011	0.019	-	-	-
cis-1,2-Dichloroethene	MW 81	10/11/2012	0.039	-	-	-
cis-1,2-Dichloroethene	MW 81	10/22/2013	0.15	-	-	-
cis-1,2-Dichloroethene	MW 81	10/22/2014	0.17	-	-	-
cis-1,2-Dichloroethene	MW 81	10/8/2015	0.19	-	-	-
cis-1,2-Dichloroethene	MW 81	10/22/2016	0.077	-	-	-
cis-1,2-Dichloroethene	MW 81	10/6/2017	0.096	-	-	-
cis-1,2-Dichloroethene	MW 82	3/9/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 82	10/20/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 82	10/19/2006	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 82	10/16/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 82	6/27/2008	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 82	12/15/2009	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 82	10/27/2010	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 82	10/4/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 82	10/23/2013	0.0022	-	-	-
cis-1,2-Dichloroethene	MW 82	10/24/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 82	10/12/2015	0.00041 J	-	-	-
cis-1,2-Dichloroethene	MW 82	10/23/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 82	10/12/2017	0.002	-	-	-
cis-1,2-Dichloroethene	MW 82	10/12/2017	0.002	-	-	-
cis-1,2-Dichloroethene	MW 83	3/9/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 83	10/18/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 83	10/18/2006	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 83	10/18/2007	0.00041 J	-	-	-
cis-1,2-Dichloroethene	MW 83	6/27/2008	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 83	12/8/2009	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 83	10/26/2010	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 83	10/4/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 83	10/10/2012	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 83	10/24/2013	0.00032 J	-	-	-

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cis-1,2-Dichloroethene	MW 83	10/22/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 83	10/9/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 83	10/22/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 83	10/22/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 83	10/11/2017	0.00041 J	-	-	-
cis-1,2-Dichloroethene	MW 84	10/20/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 84	4/10/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 84	11/14/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 84	4/10/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 84	10/12/2015	0.00027 J	-	-	-
cis-1,2-Dichloroethene	MW 84	10/24/2016	0.001	-	-	-
cis-1,2-Dichloroethene	MW 84	10/13/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 85	2/19/2008	0.017 U	-	-	-
cis-1,2-Dichloroethene	MW 85	6/25/2008	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 85	12/4/2008	0.031 U	-	-	-
cis-1,2-Dichloroethene	MW 85	4/30/2009	0.025 U	-	-	-
cis-1,2-Dichloroethene	MW 85	12/17/2009	0.017 U	-	-	-
cis-1,2-Dichloroethene	MW 85	10/28/2010	0.693	-	-	-
cis-1,2-Dichloroethene	MW 85	4/20/2011	0.18	-	-	-
cis-1,2-Dichloroethene	MW 85	10/6/2011	0.59	-	-	-
cis-1,2-Dichloroethene	MW 85	5/16/2012	0.66	-	-	-
cis-1,2-Dichloroethene	MW 85	10/16/2012	4.6	-	-	-
cis-1,2-Dichloroethene	MW 85	4/12/2013	1.9	-	-	-
cis-1,2-Dichloroethene	MW 85	10/29/2013	4.6	-	-	-
cis-1,2-Dichloroethene	MW 85	4/16/2014	7.4	-	-	-
cis-1,2-Dichloroethene	MW 85	10/29/2014	7.5	-	-	-
cis-1,2-Dichloroethene	MW 85	4/27/2015	9.5	-	-	-
cis-1,2-Dichloroethene	MW 85	10/19/2015	10	-	-	-
cis-1,2-Dichloroethene	MW 85	4/22/2016	9.9	-	-	-
cis-1,2-Dichloroethene	MW 85	4/22/2016	10	-	-	-
cis-1,2-Dichloroethene	MW 85	10/24/2016	8.4	-	-	-
cis-1,2-Dichloroethene	MW 85	4/18/2017	8.4	-	-	-
cis-1,2-Dichloroethene	MW 85	10/17/2017	8.6	-	-	-
cis-1,2-Dichloroethene	MW 86	10/28/2010	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 86	10/28/2010	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 86	10/4/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 86	10/11/2012	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 86	10/22/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 86	10/22/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 86	10/8/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 86	10/22/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 86	10/13/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 88	10/29/2010	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 88	10/3/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 88	10/11/2012	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 88	10/22/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 88	10/22/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 88	10/8/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 88	10/8/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 88	10/22/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 88	10/22/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 88	10/13/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	12/8/2011	0.001 U	-	-	-

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cis-1,2-Dichloroethene	MW 89-11	12/8/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	10/17/2012	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	4/12/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	4/12/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	10/28/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	4/16/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	10/28/2014	0.00055 J	-	-	-
cis-1,2-Dichloroethene	MW 89-11	4/28/2015	0.0003 J	-	-	-
cis-1,2-Dichloroethene	MW 89-11	10/15/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	4/20/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	4/20/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	10/25/2016	0.0003 J	-	-	-
cis-1,2-Dichloroethene	MW 89-11	10/25/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	4/19/2017	0.0033 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	10/17/2017	0.00059 J	-	-	-
cis-1,2-Dichloroethene	MW97R-16	10/25/2016	0.0012	-	-	-
cis-1,2-Dichloroethene	MW97R-16	10/18/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	Pond Intake	1/11/2005	0.013	-	-	-
cis-1,2-Dichloroethene	Pond Intake	4/19/2005	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	10/17/2005	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	2/1/2006	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	4/17/2006	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	7/18/2006	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	10/17/2006	0.001 UJ	-	-	-
cis-1,2-Dichloroethene	Pond Intake	1/22/2007	0.066	-	-	sampling frequency
cis-1,2-Dichloroethene	Pond Intake	4/16/2007	0.0025	-	-	-
cis-1,2-Dichloroethene	Pond Intake	5/9/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	6/18/2007	0.00019 J	-	-	-
cis-1,2-Dichloroethene	Pond Intake	7/10/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	8/15/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	9/27/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	10/17/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	11/9/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	12/4/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	2/18/2008	0.00061 J	-	-	-
cis-1,2-Dichloroethene	Pond Intake	6/25/2008	0.032	-	-	-
cis-1,2-Dichloroethene	Pond Intake	9/23/2008	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	12/4/2008	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	3/4/2009	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	3/4/2009	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	4/30/2009	0.0034	-	-	-
cis-1,2-Dichloroethene	Pond Intake	7/30/2009	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	7/30/2009	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	12/17/2009	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	8/4/2010	0.0058	-	-	-
cis-1,2-Dichloroethene	Pond Intake	10/28/2010	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	4/20/2011	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	7/28/2011	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	10/6/2011	0.004	-	-	-
cis-1,2-Dichloroethene	Pond Intake	10/6/2011	0.004	-	-	-
cis-1,2-Dichloroethene	Pond Intake	5/16/2012	0.0063	-	-	-
cis-1,2-Dichloroethene	Pond Intake	8/2/2012	0.00072 J	-	-	-
cis-1,2-Dichloroethene	Pond Intake	10/16/2012	0.0026	-	-	-

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cis-1,2-Dichloroethene	Pond Intake	4/12/2013	0.0066	-	-	-
cis-1,2-Dichloroethene	Pond Intake	7/17/2013	0.017	-	-	-
cis-1,2-Dichloroethene	Pond Intake	10/29/2013	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	4/16/2014	0.018	-	-	-
cis-1,2-Dichloroethene	Pond Intake	7/17/2014	0.029	-	-	-
cis-1,2-Dichloroethene	Pond Intake	7/17/2014	0.027	-	-	-
cis-1,2-Dichloroethene	Pond Intake	10/29/2014	0.022	-	-	-
cis-1,2-Dichloroethene	Pond Intake	4/27/2015	0.033	-	-	-
cis-1,2-Dichloroethene	Pond Intake	7/10/2015	0.1	-	-	-
cis-1,2-Dichloroethene	Pond Intake	7/10/2015	0.11	-	-	-
cis-1,2-Dichloroethene	Pond Intake	10/20/2015	0.037	-	-	-
cis-1,2-Dichloroethene	Pond Intake	4/22/2016	0.077	-	-	-
cis-1,2-Dichloroethene	Pond Intake	7/19/2016	0.055	-	-	-
cis-1,2-Dichloroethene	Pond Intake	10/24/2016	0.036	-	-	-
cis-1,2-Dichloroethene	Pond Intake	10/24/2016	0.034	-	-	-
cis-1,2-Dichloroethene	Pond Intake	4/18/2017	0.059	-	-	-
cis-1,2-Dichloroethene	Pond Intake	7/12/2017	0.11	-	-	-
cis-1,2-Dichloroethene	Pond Intake	10/19/2017	0.052	-	-	-
cis-1,2-Dichloroethene	Pond North	1/11/2005	0.032	-	-	-
cis-1,2-Dichloroethene	Pond North	4/19/2005	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	10/17/2005	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	2/1/2006	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	4/17/2006	0.0017 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	7/18/2006	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	10/17/2006	0.001 UJ	-	-	-
cis-1,2-Dichloroethene	Pond North	1/22/2007	0.081	-	-	sampling frequency
cis-1,2-Dichloroethene	Pond North	4/16/2007	0.21 J	-	-	-
cis-1,2-Dichloroethene	Pond North	5/9/2007	0.00018 J	-	-	-
cis-1,2-Dichloroethene	Pond North	6/18/2007	0.00016 J	-	-	-
cis-1,2-Dichloroethene	Pond North	7/10/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	8/15/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	9/27/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	10/17/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	11/9/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	12/4/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	2/18/2008	0.00062 J	-	-	-
cis-1,2-Dichloroethene	Pond North	6/25/2008	0.03	-	-	-
cis-1,2-Dichloroethene	Pond North	9/23/2008	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	9/23/2008	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	12/4/2008	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	3/4/2009	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	4/30/2009	0.0065	-	-	-
cis-1,2-Dichloroethene	Pond North	7/30/2009	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	12/17/2009	0.011 J	-	-	-
cis-1,2-Dichloroethene	Pond North	8/4/2010	0.005 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	8/4/2010	0.005 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	10/28/2010	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	4/20/2011	0.026	-	-	-
cis-1,2-Dichloroethene	Pond North	7/28/2011	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	7/28/2011	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	10/6/2011	0.0089	-	-	-
cis-1,2-Dichloroethene	Pond North	5/16/2012	0.022	-	-	-
cis-1,2-Dichloroethene	Pond North	5/16/2012	0.019	-	-	-

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cis-1,2-Dichloroethene	Pond North	8/2/2012	0.0015	-	-	-
cis-1,2-Dichloroethene	Pond North	8/2/2012	0.0014	-	-	-
cis-1,2-Dichloroethene	Pond North	10/16/2012	0.035	-	-	-
cis-1,2-Dichloroethene	Pond North	4/12/2013	0.013	-	-	-
cis-1,2-Dichloroethene	Pond North	7/17/2013	0.032	-	-	-
cis-1,2-Dichloroethene	Pond North	7/17/2013	0.032	-	-	-
cis-1,2-Dichloroethene	Pond North	10/29/2013	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	4/16/2014	0.11	-	-	-
cis-1,2-Dichloroethene	Pond North	7/17/2014	0.25	-	-	-
cis-1,2-Dichloroethene	Pond North	10/29/2014	0.31	-	-	-
cis-1,2-Dichloroethene	Pond North	4/27/2015	0.26	-	-	-
cis-1,2-Dichloroethene	Pond North	7/10/2015	0.093	-	-	-
cis-1,2-Dichloroethene	Pond North	10/20/2015	0.035	-	-	-
cis-1,2-Dichloroethene	Pond North	4/22/2016	0.12	-	-	-
cis-1,2-Dichloroethene	Pond North	7/19/2016	0.09	-	-	-
cis-1,2-Dichloroethene	Pond North	7/19/2016	0.081	-	-	-
cis-1,2-Dichloroethene	Pond North	10/24/2016	0.5	-	-	-
cis-1,2-Dichloroethene	Pond North	4/18/2017	0.21	-	-	-
cis-1,2-Dichloroethene	Pond North	4/18/2017	0.2	-	-	-
cis-1,2-Dichloroethene	Pond North	7/12/2017	0.11	-	-	-
cis-1,2-Dichloroethene	Pond North	7/12/2017	0.1	-	-	-
cis-1,2-Dichloroethene	Pond North	10/19/2017	0.35	-	-	-
Vinyl chloride	MW-2	5/9/2007	0.001 U	-	-	-
Vinyl chloride	MW-2	7/10/2007	0.001 U	-	-	-
Vinyl chloride	MW-2	10/17/2007	0.001 U	-	-	-
Vinyl chloride	MW-2	6/25/2008	0.001 U	-	-	-
Vinyl chloride	MW-2	12/17/2009	0.001 U	-	-	-
Vinyl chloride	MW-2	10/28/2010	0.001 U	-	-	-
Vinyl chloride	MW-2	10/6/2011	0.001 U	-	-	-
Vinyl chloride	MW-2	10/16/2012	0.001 U	-	-	-
Vinyl chloride	MW-2	10/29/2013	0.001 U	-	-	-
Vinyl chloride	MW-2	10/29/2013	0.001 U	-	-	-
Vinyl chloride	MW-2	10/29/2014	0.001 U	-	-	-
Vinyl chloride	MW-2	10/19/2015	0.001 U	-	-	-
Vinyl chloride	MW-2	10/24/2016	0.001 U	-	-	-
Vinyl chloride	MW-2	10/17/2017	0.001 U	-	-	-
Vinyl chloride	MW 3	2/1/2005	0.53	-	-	-
Vinyl chloride	MW 3	2/1/2005	0.56	-	-	-
Vinyl chloride	MW 3	10/18/2005	0.00027 J	-	-	-
Vinyl chloride	MW 3	1/31/2006	0.5 U	-	-	detection frequency
Vinyl chloride	MW 3	4/18/2006	0.83 U	-	-	detection frequency
Vinyl chloride	MW 3	4/18/2006	0.83 U	-	-	detection frequency
Vinyl chloride	MW 3	7/19/2006	0.63 U	-	-	detection frequency
Vinyl chloride	MW 3	7/19/2006	0.63 U	-	-	detection frequency
Vinyl chloride	MW 3	10/16/2006	0.069 J	-	-	-
Vinyl chloride	MW 3	1/24/2007	0.12 J	-	-	-
Vinyl chloride	MW 3	4/17/2007	0.16	-	-	-
Vinyl chloride	MW 3	4/17/2007	0.16	-	-	-
Vinyl chloride	MW 3	7/11/2007	1 U	-	-	detection frequency
Vinyl chloride	MW 3	10/16/2007	0.65	-	-	-
Vinyl chloride	MW 3	2/18/2008	2	-	-	-
Vinyl chloride	MW 3	6/30/2008	0.95 J	-	-	-

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Vinyl chloride	MW 3	6/30/2008	1 J	-	-	-
Vinyl chloride	MW 3	12/4/2008	0.2 J	-	-	-
Vinyl chloride	MW 3	4/30/2009	0.39 J	-	-	-
Vinyl chloride	MW 3	12/15/2009	0.34	-	-	-
Vinyl chloride	MW 3	12/15/2009	0.4	-	-	-
Vinyl chloride	MW 3	10/28/2010	0.103	-	-	-
Vinyl chloride	MW 3	10/28/2010	0.0785	-	-	-
Vinyl chloride	MW 3	4/18/2011	0.35 J	-	-	-
Vinyl chloride	MW 3	10/5/2011	0.12 J	-	-	-
Vinyl chloride	MW 3	5/16/2012	0.33 U	-	-	detection frequency
Vinyl chloride	MW 3	10/15/2012	0.29	-	-	-
Vinyl chloride	MW 3	4/9/2013	0.5 U	-	-	detection frequency
Vinyl chloride	MW 3	10/24/2013	0.077 J	-	-	-
Vinyl chloride	MW 3	10/24/2013	0.082 J	-	-	-
Vinyl chloride	MW 3	4/15/2014	0.33 U	-	-	detection frequency
Vinyl chloride	MW 3	10/23/2014	0.055 J	-	-	-
Vinyl chloride	MW 3	4/28/2015	0.33 U	-	-	detection frequency
Vinyl chloride	MW 3	10/14/2015	0.062 J	-	-	-
Vinyl chloride	MW 3	4/20/2016	0.5 U	-	-	detection frequency
Vinyl chloride	MW 3	10/25/2016	0.25 U	-	-	detection frequency
Vinyl chloride	MW 3	4/18/2017	0.25 U	-	-	detection frequency
Vinyl chloride	MW 3	10/12/2017	0.1 U	-	-	detection frequency
Vinyl chloride	MW-4	1/11/2005	0.99	-	-	-
Vinyl chloride	MW-4	10/19/2005	2.1	-	-	-
Vinyl chloride	MW-4	2/1/2006	1.7	-	-	-
Vinyl chloride	MW-4	4/18/2006	0.52	-	-	-
Vinyl chloride	MW-4	7/18/2006	0.9	-	-	-
Vinyl chloride	MW-4	10/17/2006	1.3	-	-	-
Vinyl chloride	MW-4	1/24/2007	0.64	-	-	-
Vinyl chloride	MW-4	4/16/2007	0.98	-	-	-
Vinyl chloride	MW-4	7/10/2007	1.1	-	-	-
Vinyl chloride	MW-4	7/10/2007	1.1	-	-	-
Vinyl chloride	MW-4	10/17/2007	0.84	-	-	-
Vinyl chloride	MW-4	10/17/2007	0.98	-	-	-
Vinyl chloride	MW-4	2/18/2008	1.6	-	-	-
Vinyl chloride	MW-4	6/25/2008	0.84	-	-	-
Vinyl chloride	MW-4	6/25/2008	1.2	-	-	-
Vinyl chloride	MW-4	12/3/2008	1.2	-	-	-
Vinyl chloride	MW-4	4/30/2009	0.84	-	-	-
Vinyl chloride	MW-4	4/30/2009	0.83	-	-	-
Vinyl chloride	MW-4	12/16/2009	1.2	-	-	-
Vinyl chloride	MW-4	12/16/2009	0.97	-	-	-
Vinyl chloride	MW-4	10/28/2010	0.655	-	-	-
Vinyl chloride	MW-4	4/20/2011	0.77	-	-	-
Vinyl chloride	MW-4	4/20/2011	0.73	-	-	-
Vinyl chloride	MW-4	10/6/2011	0.72	-	-	-
Vinyl chloride	MW-4	5/16/2012	0.71	-	-	-
Vinyl chloride	MW-4	10/16/2012	0.38 J	-	-	-
Vinyl chloride	MW-4	4/12/2013	0.44	-	-	-
Vinyl chloride	MW-4	10/29/2013	0.43	-	-	-
Vinyl chloride	MW-4	4/16/2014	0.57	-	-	-
Vinyl chloride	MW-4	4/16/2014	0.58	-	-	-
Vinyl chloride	MW-4	10/29/2014	0.41 J	-	-	-

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Vinyl chloride	MW-4	4/27/2015	0.42 J	-	-	-
Vinyl chloride	MW-4	10/19/2015	0.47	-	-	-
Vinyl chloride	MW-4	4/22/2016	0.53	-	-	-
Vinyl chloride	MW-4	10/24/2016	0.63	-	-	-
Vinyl chloride	MW-4	4/18/2017	0.84	-	-	-
Vinyl chloride	MW-4	10/17/2017	0.73	-	-	-
Vinyl chloride	MW-4	10/17/2017	0.66	-	-	-
Vinyl chloride	MW-7	10/29/2014	0.001 U	-	-	-
Vinyl chloride	MW-7	10/18/2017	0.001 U / 0.001 U	-	-	-
Vinyl chloride	MW 8	2/2/2005	6.9	yes	-	-
Vinyl chloride	MW 8	10/17/2005	1.3	-	-	-
Vinyl chloride	MW 8	10/17/2005	1.3	-	-	-
Vinyl chloride	MW 8	2/1/2006	2.1	-	-	-
Vinyl chloride	MW 8	4/17/2006	1.7	-	-	-
Vinyl chloride	MW 8	7/18/2006	1.7	-	-	-
Vinyl chloride	MW 8	10/16/2006	1.4	-	-	-
Vinyl chloride	MW 8	1/23/2007	1.7	-	-	-
Vinyl chloride	MW 8	4/16/2007	2.1	-	-	-
Vinyl chloride	MW 8	7/10/2007	2.3	-	-	-
Vinyl chloride	MW 8	10/15/2007	2.4	-	-	-
Vinyl chloride	MW 8	6/27/2008	5.5	yes	-	-
Vinyl chloride	MW 8	12/15/2009	0.027	yes	-	-
Vinyl chloride	MW 8	10/27/2010	1.73	-	-	-
Vinyl chloride	MW 8	4/18/2011	2.4	-	-	-
Vinyl chloride	MW 8	10/5/2011	1.7	-	-	-
Vinyl chloride	MW 8	5/15/2012	1.6	-	-	-
Vinyl chloride	MW 8	5/15/2012	1.5	-	-	-
Vinyl chloride	MW 8	10/15/2012	1.4	-	-	-
Vinyl chloride	MW 8	4/9/2013	1.5	-	-	-
Vinyl chloride	MW 8	10/24/2013	1.4	-	-	-
Vinyl chloride	MW 8	4/15/2014	2.8	-	-	-
Vinyl chloride	MW 8	10/23/2014	1.7	-	-	-
Vinyl chloride	MW 8	4/28/2015	1.9	-	-	-
Vinyl chloride	MW 8	10/14/2015	1.5	-	-	-
Vinyl chloride	MW 8	4/20/2016	2.1	-	-	-
Vinyl chloride	MW 8	4/20/2016	2	-	-	-
Vinyl chloride	MW 8	10/21/2016	1.3	-	-	-
Vinyl chloride	MW 8	4/18/2017	1.6	-	-	-
Vinyl chloride	MW 8	10/12/2017	1.3	-	-	-
Vinyl chloride	MW 12	2/2/2005	0.01 U	-	-	-
Vinyl chloride	MW 12	10/19/2005	0.0014 U	-	-	-
Vinyl chloride	MW 12	10/19/2005	0.0014 U	-	-	-
Vinyl chloride	MW 12	1/31/2006	0.05 U	-	-	-
Vinyl chloride	MW 12	4/18/2006	0.031 U	-	-	-
Vinyl chloride	MW 12	7/18/2006	0.025 U	-	-	-
Vinyl chloride	MW 12	7/18/2006	0.025 U	-	-	-
Vinyl chloride	MW 12	10/19/2006	0.042 U	-	-	-
Vinyl chloride	MW 12	1/22/2007	0.025 U	-	-	-
Vinyl chloride	MW 12	4/18/2007	0.017 U	-	-	-
Vinyl chloride	MW 12	7/11/2007	0.00072 J	-	-	-
Vinyl chloride	MW 12	10/19/2007	0.039 U	-	-	-
Vinyl chloride	MW 12	6/27/2008	0.031 U	-	-	-
Vinyl chloride	MW 12	12/5/2008	0.025 U	-	-	-

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Vinyl chloride	MW 12	4/29/2009	0.025 U	-	-	-
Vinyl chloride	MW 12	12/9/2009	0.013 U	-	-	-
Vinyl chloride	MW 12	10/26/2010	0.002 U	-	-	-
Vinyl chloride	MW 12	4/20/2011	0.011 U	-	-	-
Vinyl chloride	MW 12	10/5/2011	0.011 U	-	-	-
Vinyl chloride	MW 12	5/15/2012	0.0091 U	-	-	-
Vinyl chloride	MW 12	10/11/2012	0.0067 U	-	-	-
Vinyl chloride	MW 12	4/9/2013	0.01 U	-	-	-
Vinyl chloride	MW 12	10/23/2013	0.0077 U	-	-	-
Vinyl chloride	MW 12	4/11/2014	0.0057 U	-	-	-
Vinyl chloride	MW 12	10/24/2014	0.0057 U	-	-	-
Vinyl chloride	MW 12	10/24/2014	0.0050 U	-	-	-
Vinyl chloride	MW 12	4/27/2015	0.0057 U	-	-	-
Vinyl chloride	MW 12	10/9/2015	0.005 U	-	-	-
Vinyl chloride	MW 12	4/21/2016	0.005 U	-	-	-
Vinyl chloride	MW 12	10/25/2016	0.005 U	-	-	-
Vinyl chloride	MW 12	4/19/2017	0.0025 U	-	-	-
Vinyl chloride	MW 12	10/6/2017	0.0033 U	-	-	-
Vinyl chloride	MW 14	2/2/2005	0.41	-	-	-
Vinyl chloride	MW 14	10/17/2005	0.4	-	-	-
Vinyl chloride	MW 14	2/1/2006	0.37 J	-	-	-
Vinyl chloride	MW 14	4/18/2006	0.22 J	-	-	-
Vinyl chloride	MW 14	7/19/2006	0.26	-	-	-
Vinyl chloride	MW 14	10/18/2006	0.24 J	-	-	-
Vinyl chloride	MW 14	1/24/2007	0.31	-	-	-
Vinyl chloride	MW 14	4/17/2007	0.39	-	-	-
Vinyl chloride	MW 14	7/9/2007	0.38	-	-	-
Vinyl chloride	MW 14	10/16/2007	0.51	-	-	-
Vinyl chloride	MW 14	6/30/2008	0.49 J	-	-	-
Vinyl chloride	MW 14	12/5/2008	0.29 J	-	-	-
Vinyl chloride	MW 14	4/29/2009	0.44	-	-	-
Vinyl chloride	MW 14	12/15/2009	0.0087 J	-	-	-
Vinyl chloride	MW 14	10/27/2010	0.228	-	-	-
Vinyl chloride	MW 14	4/18/2011	0.23	-	-	-
Vinyl chloride	MW 14	10/5/2011	0.19 J	-	-	-
Vinyl chloride	MW 14	5/15/2012	0.2	-	-	-
Vinyl chloride	MW 14	10/15/2012	0.2	-	-	-
Vinyl chloride	MW 14	4/9/2013	0.18	-	-	-
Vinyl chloride	MW 14	4/9/2013	0.19	-	-	-
Vinyl chloride	MW 14	10/25/2013	0.22 J	-	-	-
Vinyl chloride	MW 14	10/25/2013	0.25	-	-	-
Vinyl chloride	MW 14	4/15/2014	0.25	-	-	-
Vinyl chloride	MW 14	4/15/2014	0.23	-	-	-
Vinyl chloride	MW 14	10/24/2014	0.14 J	-	-	-
Vinyl chloride	MW 14	4/29/2015	0.15 J	-	-	-
Vinyl chloride	MW 14	4/29/2015	0.15 J	-	-	-
Vinyl chloride	MW 14	10/12/2015	0.14 J	-	-	-
Vinyl chloride	MW 14	4/19/2016	0.14 J	-	-	-
Vinyl chloride	MW 14	10/25/2016	0.12 J	-	-	-
Vinyl chloride	MW 14	4/18/2017	0.13	-	-	-
Vinyl chloride	MW 14	4/18/2017	0.13	-	-	-
Vinyl chloride	MW 14	10/13/2017	0.15 J	-	-	-
Vinyl chloride	MW 14	10/13/2017	0.15 J	-	-	-

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Vinyl chloride	MW 15	2/1/2005	1.2	-	-	sampling frequency
Vinyl chloride	MW 15	10/18/2005	1.4	-	-	-
Vinyl chloride	MW 15	2/1/2006	1.1	-	-	sampling frequency
Vinyl chloride	MW 15	4/18/2006	0.62	-	-	sampling frequency
Vinyl chloride	MW 15	7/19/2006	1.2	-	-	sampling frequency
Vinyl chloride	MW 15	10/17/2006	0.83	-	-	-
Vinyl chloride	MW 15	1/24/2007	1.7	-	-	sampling frequency
Vinyl chloride	MW 15	4/17/2007	1.2	-	-	sampling frequency
Vinyl chloride	MW 15	7/10/2007	1.4	-	-	sampling frequency
Vinyl chloride	MW 15	7/10/2007	1.5	-	-	sampling frequency
Vinyl chloride	MW 15	10/16/2007	1.3	-	-	-
Vinyl chloride	MW 15	2/14/2008	1.2 J	-	-	-
Vinyl chloride	MW 15	10/24/2013	0.56	-	-	-
Vinyl chloride	MW 15	10/23/2014	0.5 U	-	-	-
Vinyl chloride	MW 15	10/14/2015	0.094 J	-	-	-
Vinyl chloride	MW 15	10/21/2016	0.1 U	-	-	-
Vinyl chloride	MW 15	10/11/2017	0.052 J	-	-	-
Vinyl chloride	MW 16	1/17/2005	0.001 U	-	-	-
Vinyl chloride	MW 16	11/14/2013	0.001 U	-	-	-
Vinyl chloride	MW 16	4/10/2014	0.001 U	-	-	-
Vinyl chloride	MW 16	10/12/2015	0.001 U	-	-	-
Vinyl chloride	MW 16	10/23/2016	0.001 U	-	-	-
Vinyl chloride	MW 16	10/12/2017	0.03	-	-	-
Vinyl chloride	MW 21	2/1/2005	0.001 U	-	-	sampling frequency
Vinyl chloride	MW 21	10/17/2005	0.001 U	-	-	-
Vinyl chloride	MW 21	2/1/2006	0.001 U	-	-	sampling frequency
Vinyl chloride	MW 21	4/17/2006	0.001 U	-	-	sampling frequency
Vinyl chloride	MW 21	7/18/2006	0.001 U	-	-	sampling frequency
Vinyl chloride	MW 21	10/16/2006	0.001 U	-	-	-
Vinyl chloride	MW 21	1/23/2007	0.001 U	-	-	sampling frequency
Vinyl chloride	MW 21	4/16/2007	0.001 U	-	-	sampling frequency
Vinyl chloride	MW 21	7/9/2007	0.001 U	-	-	sampling frequency
Vinyl chloride	MW 21	10/15/2007	0.001 U	-	-	-
Vinyl chloride	MW 21	10/14/2015	0.001 U	-	-	-
Vinyl chloride	MW 21	10/21/2016	0.001 U	-	-	-
Vinyl chloride	MW 21	10/18/2017	0.001 U	-	-	-
Vinyl chloride	MW 28	10/18/2005	0.1	-	-	-
Vinyl chloride	MW 28	10/19/2006	0.071	-	-	-
Vinyl chloride	MW 28	10/18/2007	0.093	-	-	-
Vinyl chloride	MW 28	6/24/2008	0.077	-	-	-
Vinyl chloride	MW 28	12/4/2008	0.057	-	-	-
Vinyl chloride	MW 28	4/29/2009	0.1	-	-	-
Vinyl chloride	MW 28	12/4/2009	0.17	-	-	-
Vinyl chloride	MW 28	10/26/2010	0.0822	-	-	-
Vinyl chloride	MW 28	4/19/2011	0.062	-	-	-
Vinyl chloride	MW 28	10/3/2011	0.078	-	-	-
Vinyl chloride	MW 28	5/14/2012	0.089	-	-	-
Vinyl chloride	MW 28	10/10/2012	0.093	-	-	-
Vinyl chloride	MW 28	4/10/2013	0.17	-	-	-
Vinyl chloride	MW 28	10/23/2013	0.14	-	-	-
Vinyl chloride	MW 28	4/15/2014	0.22	-	-	-
Vinyl chloride	MW 28	4/15/2014	0.21	-	-	-
Vinyl chloride	MW 28	10/27/2014	0.14	-	-	-

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Vinyl chloride	MW 28	4/29/2015	0.13	-	-	-
Vinyl chloride	MW 28	10/12/2015	0.21	-	-	-
Vinyl chloride	MW 28	4/19/2016	0.15	-	-	-
Vinyl chloride	MW 28	10/22/2016	0.19	-	-	-
Vinyl chloride	MW 28	4/19/2017	0.18	-	-	-
Vinyl chloride	MW 28	10/9/2017	0.2	-	-	-
Vinyl chloride	MW 31R	10/18/2005	13	-	-	-
Vinyl chloride	MW 31R	1/31/2006	6	-	-	-
Vinyl chloride	MW 31R	4/19/2006	2.8	-	-	-
Vinyl chloride	MW 31R	7/19/2006	9.8	-	-	-
Vinyl chloride	MW 31R	10/17/2006	7.6	-	-	-
Vinyl chloride	MW 31R	10/17/2006	7.2	-	-	-
Vinyl chloride	MW 31R	1/23/2007	5.9	-	-	-
Vinyl chloride	MW 31R	1/23/2007	6.2	-	-	-
Vinyl chloride	MW 31R	4/17/2007	2.4	-	-	-
Vinyl chloride	MW 31R	7/11/2007	6.6	-	-	-
Vinyl chloride	MW 31R	10/17/2007	6.2	-	-	-
Vinyl chloride	MW 31R	2/14/2008	5	-	-	-
Vinyl chloride	MW 31R	2/14/2008	5.3	-	-	-
Vinyl chloride	MW 31R	12/4/2008	3.2	-	-	-
Vinyl chloride	MW 31R	4/29/2009	1.5	-	-	-
Vinyl chloride	MW 31R	12/15/2009	0.7	-	-	-
Vinyl chloride	MW 31R	10/28/2010	1.57	-	-	-
Vinyl chloride	MW 31R	4/18/2011	0.64	-	-	-
Vinyl chloride	MW 31R	10/4/2011	1.2	-	-	-
Vinyl chloride	MW 31R	5/15/2012	2.3	-	-	-
Vinyl chloride	MW 31R	10/15/2012	1.3	-	-	-
Vinyl chloride	MW 31R	4/9/2013	1.3	-	-	-
Vinyl chloride	MW 31R	10/24/2013	1.6	-	-	-
Vinyl chloride	MW 31R	4/15/2014	1.1	-	-	-
Vinyl chloride	MW 31R	10/27/2014	1	-	-	-
Vinyl chloride	MW 31R	4/28/2015	0.63	-	-	-
Vinyl chloride	MW 31R	10/14/2015	1.7	-	-	-
Vinyl chloride	MW 31R	4/20/2016	1.5	-	-	-
Vinyl chloride	MW 31R	10/21/2016	3.4	-	-	-
Vinyl chloride	MW 31R	10/21/2016	3.4	-	-	-
Vinyl chloride	MW 31R	4/19/2017	2	-	-	-
Vinyl chloride	MW 31R	10/12/2017	9	-	-	-
Vinyl chloride	MW 37	1/18/2005	0.001 U	-	-	-
Vinyl chloride	MW 37	1/18/2005	0.001 U	-	-	-
Vinyl chloride	MW 37	10/17/2007	0.001 U	-	-	-
Vinyl chloride	MW 37	6/26/2008	0.001 U	-	-	-
Vinyl chloride	MW 37	12/16/2009	0.001 U	-	-	-
Vinyl chloride	MW 37	10/27/2010	0.001 U	-	-	-
Vinyl chloride	MW 37	10/5/2011	0.001 U	-	-	-
Vinyl chloride	MW 37	10/17/2012	0.001 U	-	-	-
Vinyl chloride	MW 37	10/17/2012	0.001 U	-	-	-
Vinyl chloride	MW 37	10/25/2013	0.001 U	-	-	-
Vinyl chloride	MW 37	10/22/2014	0.001 U	-	-	-
Vinyl chloride	MW 37	10/9/2015	0.001 U	-	-	-
Vinyl chloride	MW 37	10/23/2016	0.001 U	-	-	-
Vinyl chloride	MW 37	10/16/2017	0.001 U	-	-	-
Vinyl chloride	MW 40	1/12/2005	0.49	-	-	-

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Vinyl chloride	MW 40	10/18/2005	1.4	-	-	-
Vinyl chloride	MW 40	1/30/2006	0.76	-	-	-
Vinyl chloride	MW 40	4/17/2006	0.43 J	-	-	-
Vinyl chloride	MW 40	7/19/2006	1	-	-	-
Vinyl chloride	MW 40	10/18/2006	0.84	-	-	-
Vinyl chloride	MW 40	1/23/2007	1.1	-	-	-
Vinyl chloride	MW 40	4/18/2007	0.89	-	-	-
Vinyl chloride	MW 40	7/10/2007	0.97	-	-	-
Vinyl chloride	MW 40	10/18/2007	1.3	-	-	-
Vinyl chloride	MW 40	2/15/2008	2.1	-	-	-
Vinyl chloride	MW 40	6/26/2008	1.2	-	-	-
Vinyl chloride	MW 40	12/3/2008	1.5	-	-	-
Vinyl chloride	MW 40	12/3/2008	1.7	-	-	-
Vinyl chloride	MW 40	4/30/2009	2.1	-	-	-
Vinyl chloride	MW 40	12/9/2009	2.1	-	-	-
Vinyl chloride	MW 40	10/26/2010	1.18	-	-	-
Vinyl chloride	MW 40	4/19/2011	0.99	-	-	-
Vinyl chloride	MW 40	10/4/2011	0.99	-	-	-
Vinyl chloride	MW 40	5/14/2012	0.94	-	-	-
Vinyl chloride	MW 40	10/10/2012	0.65	-	-	-
Vinyl chloride	MW 40	4/9/2013	0.99	-	-	-
Vinyl chloride	MW 40	10/24/2013	1.2	-	-	-
Vinyl chloride	MW 40	4/14/2014	1.1	-	-	-
Vinyl chloride	MW 40	10/27/2014	0.5	-	-	-
Vinyl chloride	MW 40	4/28/2015	0.43	-	-	-
Vinyl chloride	MW 40	10/13/2015	0.44	-	-	-
Vinyl chloride	MW 40	4/19/2016	0.36	-	-	-
Vinyl chloride	MW 40	10/20/2016	0.31	-	-	-
Vinyl chloride	MW 40	4/19/2017	0.26	-	-	-
Vinyl chloride	MW 40	10/10/2017	0.17	-	-	-
Vinyl chloride	MW 40	10/10/2017	0.18	-	-	-
Vinyl chloride	MW 41	10/17/2005	0.14 J	-	-	-
Vinyl chloride	MW 41	1/30/2006	0.28 J	-	-	-
Vinyl chloride	MW 41	4/17/2006	0.14 J	-	-	-
Vinyl chloride	MW 41	4/17/2006	0.13 J	-	-	-
Vinyl chloride	MW 41	7/18/2006	0.26 J	-	-	-
Vinyl chloride	MW 41	10/18/2006	0.19 J	-	-	-
Vinyl chloride	MW 41	1/23/2007	0.23 J	-	-	-
Vinyl chloride	MW 41	4/18/2007	0.29	-	-	-
Vinyl chloride	MW 41	4/18/2007	0.27	-	-	-
Vinyl chloride	MW 41	7/10/2007	0.33 J	-	-	-
Vinyl chloride	MW 41	10/18/2007	0.4 J	-	-	-
Vinyl chloride	MW 41	2/15/2008	0.38 J	-	-	-
Vinyl chloride	MW 41	6/24/2008	0.22 J	-	-	-
Vinyl chloride	MW 41	12/3/2008	0.36 J	-	-	-
Vinyl chloride	MW 41	4/28/2009	0.4 J	-	-	-
Vinyl chloride	MW 41	12/3/2009	0.39	-	-	-
Vinyl chloride	MW 41	10/25/2010	0.256	-	-	-
Vinyl chloride	MW 41	4/19/2011	0.3	-	-	-
Vinyl chloride	MW 41	10/4/2011	0.51	-	-	-
Vinyl chloride	MW 41	5/14/2012	0.61	-	-	-
Vinyl chloride	MW 41	10/10/2012	0.66	-	-	-
Vinyl chloride	MW 41	4/9/2013	0.61	-	-	-

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Vinyl chloride	MW 41	10/25/2013	0.55	-	-	-
Vinyl chloride	MW 41	4/14/2014	0.73	-	-	-
Vinyl chloride	MW 41	10/23/2014	0.54 J	-	-	-
Vinyl chloride	MW 41	4/29/2015	0.46	-	-	-
Vinyl chloride	MW 41	10/12/2015	0.39	-	-	-
Vinyl chloride	MW 41	10/12/2015	0.39	-	-	-
Vinyl chloride	MW 41	4/19/2016	0.45	-	-	-
Vinyl chloride	MW 41	10/23/2016	0.35	-	-	-
Vinyl chloride	MW 41	4/19/2017	0.44	-	-	-
Vinyl chloride	MW 41	10/9/2017	0.38	-	-	-
Vinyl chloride	MW 42	10/18/2005	0.25 J	-	-	-
Vinyl chloride	MW 42	1/30/2006	0.15 J	-	-	-
Vinyl chloride	MW 42	1/30/2006	0.18 J	-	-	-
Vinyl chloride	MW 42	4/17/2006	0.089 J	-	-	-
Vinyl chloride	MW 42	7/18/2006	0.13 J	-	-	-
Vinyl chloride	MW 42	10/18/2006	0.084 J	-	-	-
Vinyl chloride	MW 42	1/23/2007	0.5 U	-	-	-
Vinyl chloride	MW 42	1/23/2007	0.5 U	-	-	-
Vinyl chloride	MW 42	4/18/2007	0.12	-	-	-
Vinyl chloride	MW 42	7/10/2007	0.13 J	-	-	-
Vinyl chloride	MW 42	10/18/2007	0.11 J	-	-	-
Vinyl chloride	MW 42	2/15/2008	0.13 J	-	-	-
Vinyl chloride	MW 42	6/24/2008	0.13 J	-	-	-
Vinyl chloride	MW 42	12/3/2008	0.18 J	-	-	-
Vinyl chloride	MW 42	4/28/2009	0.21 J	-	-	-
Vinyl chloride	MW 42	12/3/2009	0.2 J	-	-	-
Vinyl chloride	MW 42	10/25/2010	0.128	-	-	-
Vinyl chloride	MW 42	4/19/2011	0.17	-	-	-
Vinyl chloride	MW 42	10/4/2011	0.13 J	-	-	-
Vinyl chloride	MW 42	5/14/2012	0.11 J	-	-	-
Vinyl chloride	MW 42	10/10/2012	0.1 J	-	-	-
Vinyl chloride	MW 42	4/9/2013	0.14 J	-	-	-
Vinyl chloride	MW 42	10/25/2013	0.12 J	-	-	-
Vinyl chloride	MW 42	4/14/2014	0.18	-	-	-
Vinyl chloride	MW 42	10/23/2014	0.12 J	-	-	-
Vinyl chloride	MW 42	4/29/2015	0.13 J	-	-	-
Vinyl chloride	MW 42	10/12/2015	0.14 J	-	-	-
Vinyl chloride	MW 42	4/19/2016	0.092 J	-	-	-
Vinyl chloride	MW 42	10/23/2016	0.1 J	-	-	-
Vinyl chloride	MW 42	4/19/2017	0.22	-	-	-
Vinyl chloride	MW 42	10/9/2017	0.26	-	-	-
Vinyl chloride	MW 46	1/12/2005	0.001 U	-	-	-
Vinyl chloride	MW 46	10/19/2007	0.001 U	-	-	-
Vinyl chloride	MW 46	10/19/2007	0.001 U	-	-	-
Vinyl chloride	MW 46	6/27/2008	0.001 U	-	-	-
Vinyl chloride	MW 46	12/16/2009	0.001 U	-	-	-
Vinyl chloride	MW 46	10/26/2010	0.002 U	-	-	-
Vinyl chloride	MW 46	10/5/2011	0.001 U	-	-	-
Vinyl chloride	MW 46	10/17/2012	0.001 U	-	-	-
Vinyl chloride	MW 46	10/25/2013	0.001 U	-	-	-
Vinyl chloride	MW 46	10/22/2014	0.001 U	-	-	-
Vinyl chloride	MW 46	10/9/2015	0.001 U	-	-	-
Vinyl chloride	MW 46	10/23/2016	0.001 U	-	-	-

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Vinyl chloride	MW 46	10/16/2017	0.001 U	-	-	-
Vinyl chloride	MW 49	1/12/2005	0.013	-	-	-
Vinyl chloride	MW 49	10/19/2007	0.085	-	-	-
Vinyl chloride	MW 49	2/15/2008	0.057	-	-	-
Vinyl chloride	MW 49	6/30/2008	0.066	-	-	-
Vinyl chloride	MW 49	12/5/2008	0.069	-	-	-
Vinyl chloride	MW 49	4/29/2009	0.045	-	-	-
Vinyl chloride	MW 49	12/4/2009	0.07	-	-	-
Vinyl chloride	MW 49	10/27/2010	0.0465	-	-	-
Vinyl chloride	MW 49	4/19/2011	0.022	-	-	-
Vinyl chloride	MW 49	10/5/2011	0.025	-	-	-
Vinyl chloride	MW 49	5/15/2012	0.025	-	-	-
Vinyl chloride	MW 49	10/17/2012	0.03 J	-	-	-
Vinyl chloride	MW 49	4/10/2013	0.027 J	-	-	-
Vinyl chloride	MW 49	10/25/2013	0.033	-	-	-
Vinyl chloride	MW 49	4/14/2014	0.013	-	-	-
Vinyl chloride	MW 49	10/27/2014	0.013 J	-	-	-
Vinyl chloride	MW 49	4/28/2015	0.033 U	-	high DL	-
Vinyl chloride	MW 49	10/13/2015	0.012 J	-	-	-
Vinyl chloride	MW 49	4/21/2016	0.011 J	-	-	-
Vinyl chloride	MW 51	12/5/2008	0.017 U	-	-	detection frequency
Vinyl chloride	MW 51	12/5/2008	0.017 U	-	-	detection frequency
Vinyl chloride	MW 51	4/29/2009	0.011 U	-	-	detection frequency
Vinyl chloride	MW 51	12/14/2009	0.0083 U	-	-	detection frequency
Vinyl chloride	MW 51	10/27/2010	0.001 U	-	-	detection frequency
Vinyl chloride	MW 51	4/20/2011	0.0067 U	-	-	detection frequency
Vinyl chloride	MW 51	10/5/2011	0.0091 U	-	-	detection frequency
Vinyl chloride	MW 51	5/14/2012	0.0057 U	-	-	detection frequency
Vinyl chloride	MW 51	10/12/2012	0.0067 U	-	-	detection frequency
Vinyl chloride	MW 51	4/9/2013	0.003 J	-	-	-
Vinyl chloride	MW 51	10/23/2013	0.0029 J	-	-	-
Vinyl chloride	MW 51	4/16/2014	0.005 U	-	-	detection frequency
Vinyl chloride	MW 51	10/21/2014	0.0041 J	-	-	-
Vinyl chloride	MW 51	4/28/2015	0.0024 J	-	-	-
Vinyl chloride	MW 51	4/28/2015	0.0026 J	-	-	-
Vinyl chloride	MW 51	10/9/2015	0.0079	-	-	-
Vinyl chloride	MW 51	4/20/2016	0.0035 J	-	-	-
Vinyl chloride	MW 51	10/23/2016	0.0053 J	-	-	-
Vinyl chloride	MW 51	4/18/2017	0.0041	-	-	-
Vinyl chloride	MW 51	10/16/2017	0.0073	-	-	-
Vinyl chloride	MW 56	1/11/2005	0.001 U	-	-	-
Vinyl chloride	MW 56	10/19/2005	0.001 U	-	-	-
Vinyl chloride	MW 56	10/18/2006	0.001 U	-	-	-
Vinyl chloride	MW 56	10/18/2007	0.001 U	-	-	-
Vinyl chloride	MW 56	6/26/2008	0.001 U	-	-	-
Vinyl chloride	MW 56	12/17/2009	0.001 U	-	-	-
Vinyl chloride	MW 56	10/28/2010	0.001 U	-	-	-
Vinyl chloride	MW 56	10/6/2011	0.001 U	-	-	-
Vinyl chloride	MW 56	10/16/2012	0.001 U	-	-	-
Vinyl chloride	MW 56	10/29/2013	0.001 U	-	-	-
Vinyl chloride	MW 56	10/29/2014	0.001 U	-	-	-
Vinyl chloride	MW 56	10/29/2014	0.001 U	-	-	-
Vinyl chloride	MW 56	10/19/2015	0.001 U	-	-	-

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Vinyl chloride	MW 56	10/24/2016	0.001 U	-	-	-
Vinyl chloride	MW 56	10/18/2017	0.001 U	-	-	-
Vinyl chloride	MW 57	1/10/2005	0.001 U	-	-	-
Vinyl chloride	MW 57	10/19/2005	0.001 U	-	-	-
Vinyl chloride	MW 57	2/1/2006	0.001 U	-	-	-
Vinyl chloride	MW 57	4/18/2006	0.001 U	-	-	-
Vinyl chloride	MW 57	7/18/2006	0.001 U	-	-	-
Vinyl chloride	MW 57	10/17/2006	0.00083 J	-	-	-
Vinyl chloride	MW 57	1/24/2007	0.001 U	-	-	-
Vinyl chloride	MW 57	4/16/2007	0.001 U	-	-	-
Vinyl chloride	MW 57	7/10/2007	0.00018 J	-	-	-
Vinyl chloride	MW 57	10/17/2007	0.001 U	-	-	-
Vinyl chloride	MW 57	6/25/2008	0.001 U	-	-	-
Vinyl chloride	MW 57	12/16/2009	0.0016	-	-	-
Vinyl chloride	MW 57	10/28/2010	0.001 U	-	-	-
Vinyl chloride	MW 57	10/28/2010	0.001 U	-	-	-
Vinyl chloride	MW 57	10/6/2011	0.001 U	-	-	-
Vinyl chloride	MW 57	10/16/2012	0.0042	-	-	-
Vinyl chloride	MW 57	10/29/2013	0.0062	-	-	-
Vinyl chloride	MW 57	10/29/2014	0.013	-	-	-
Vinyl chloride	MW 57	10/19/2015	0.0037	-	-	-
Vinyl chloride	MW 57	10/24/2016	0.046	-	-	-
Vinyl chloride	MW 57	10/18/2017	0.096	-	-	-
Vinyl chloride	MW 58	1/10/2005	0.001 U	-	-	-
Vinyl chloride	MW 58	10/19/2005	0.001 U	-	-	-
Vinyl chloride	MW 58	10/17/2006	0.0013	-	-	-
Vinyl chloride	MW 58	10/17/2007	0.011	-	-	-
Vinyl chloride	MW 58	2/18/2008	0.016	-	-	-
Vinyl chloride	MW 58	6/25/2008	0.026	-	-	-
Vinyl chloride	MW 58	12/17/2009	0.11	-	-	-
Vinyl chloride	MW 58	10/28/2010	0.158	-	-	-
Vinyl chloride	MW 58	10/6/2011	0.12	-	-	-
Vinyl chloride	MW 58	10/16/2012	0.14	-	-	-
Vinyl chloride	MW 58	10/16/2012	0.15	-	-	-
Vinyl chloride	MW 58	10/29/2013	0.11	-	-	-
Vinyl chloride	MW 58	10/29/2014	0.098	-	-	-
Vinyl chloride	MW 58	10/20/2015	0.16	-	-	-
Vinyl chloride	MW 58	10/20/2015	0.15	-	-	-
Vinyl chloride	MW 58	10/25/2016	0.085	-	-	-
Vinyl chloride	MW 58	10/17/2017	0.059	-	-	-
Vinyl chloride	MW 61	1/11/2005	0.001 U	-	-	-
Vinyl chloride	MW 61	6/24/2008	0.001 U	-	-	-
Vinyl chloride	MW 61	12/3/2009	0.001 U	-	-	-
Vinyl chloride	MW 61	10/26/2010	0.002 U	-	-	-
Vinyl chloride	MW 61	10/26/2010	0.002 U	-	-	-
Vinyl chloride	MW 61	10/3/2011	0.00029 J	-	-	-
Vinyl chloride	MW 61	10/10/2012	0.001 U	-	-	-
Vinyl chloride	MW 61	10/23/2013	0.001 U	-	-	-
Vinyl chloride	MW 61	10/21/2014	0.00042 J	-	-	-
Vinyl chloride	MW 61	10/9/2015	0.00068 J	-	-	-
Vinyl chloride	MW 61	10/22/2016	0.00069 J	-	-	-
Vinyl chloride	MW 61	10/9/2017	0.001 U	-	-	-
Vinyl chloride	MW 64	1/11/2005	0.001 U	-	-	-

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Vinyl chloride	MW 64	10/19/2005	0.0015	-	-	-
Vinyl chloride	MW 64	10/18/2006	0.0013	-	-	-
Vinyl chloride	MW 64	10/19/2007	0.009	-	-	-
Vinyl chloride	MW 64	2/18/2008	0.0054	-	-	-
Vinyl chloride	MW 64	2/18/2008	0.005	-	-	-
Vinyl chloride	MW 64	6/26/2008	0.0011	-	-	-
Vinyl chloride	MW 64	12/8/2009	0.01	-	-	-
Vinyl chloride	MW 64	12/8/2009	0.013	-	-	-
Vinyl chloride	MW 64	10/25/2010	0.016	-	-	-
Vinyl chloride	MW 64	10/3/2011	0.032	-	-	-
Vinyl chloride	MW 64	10/11/2012	0.027	-	-	-
Vinyl chloride	MW 64	10/11/2012	0.027	-	-	-
Vinyl chloride	MW 64	10/22/2013	0.045	-	-	-
Vinyl chloride	MW 64	10/28/2014	0.033	-	-	-
Vinyl chloride	MW 64	10/13/2015	0.03	-	-	-
Vinyl chloride	MW 64	10/20/2016	0.039	-	-	-
Vinyl chloride	MW 64	10/10/2017	0.049	-	-	-
Vinyl chloride	MW 65	1/10/2005	0.54	-	-	-
Vinyl chloride	MW 65	10/18/2007	0.68	-	-	-
Vinyl chloride	MW 65	2/15/2008	0.77	-	-	-
Vinyl chloride	MW 65	6/27/2008	1.2 J	-	-	-
Vinyl chloride	MW 65	12/4/2008	0.54	-	-	-
Vinyl chloride	MW 65	4/28/2009	0.69	-	-	-
Vinyl chloride	MW 65	12/4/2009	0.67	-	-	-
Vinyl chloride	MW 65	10/25/2010	0.05 U	-	-	detection frequency
Vinyl chloride	MW 65	10/3/2011	0.04 U	-	-	detection frequency
Vinyl chloride	MW 65	10/11/2012	0.014 U	-	-	detection frequency
Vinyl chloride	MW 65	10/22/2013	0.0025 J	-	-	-
Vinyl chloride	MW 65	10/22/2014	0.00093 J	-	-	-
Vinyl chloride	MW 65	10/22/2014	0.0016 J	-	-	-
Vinyl chloride	MW 65	10/8/2015	0.0012 J	-	-	-
Vinyl chloride	MW 65	10/19/2016	0.0014	-	-	-
Vinyl chloride	MW 65	10/6/2017	0.00074 J	-	-	-
Vinyl chloride	MW 66	1/11/2005	0.003	-	-	-
Vinyl chloride	MW 66	1/11/2005	0.0031	-	-	-
Vinyl chloride	MW 66	10/18/2005	0.0067	-	-	-
Vinyl chloride	MW 66	10/18/2006	0.014	-	-	-
Vinyl chloride	MW 66	10/19/2007	0.015	-	-	-
Vinyl chloride	MW 66	10/19/2007	0.015	-	-	-
Vinyl chloride	MW 66	2/18/2008	0.02	-	-	-
Vinyl chloride	MW 66	6/26/2008	0.02	-	-	-
Vinyl chloride	MW 66	12/4/2008	0.0071	-	-	-
Vinyl chloride	MW 66	4/28/2009	0.027	-	-	-
Vinyl chloride	MW 66	4/28/2009	0.027	-	-	-
Vinyl chloride	MW 66	12/8/2009	0.023	-	-	-
Vinyl chloride	MW 66	10/25/2010	0.027	-	-	-
Vinyl chloride	MW 66	4/19/2011	0.046	-	-	-
Vinyl chloride	MW 66	4/19/2011	0.045	-	-	-
Vinyl chloride	MW 66	10/3/2011	0.14	-	-	-
Vinyl chloride	MW 66	5/14/2012	0.25	-	-	-
Vinyl chloride	MW 66	10/11/2012	0.25	-	-	-
Vinyl chloride	MW 66	4/10/2013	0.3	-	-	-
Vinyl chloride	MW 66	10/22/2013	0.16	-	-	-

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Vinyl chloride	MW 66	4/11/2014	0.33	-	-	-
Vinyl chloride	MW 66	10/27/2014	0.15	-	-	-
Vinyl chloride	MW 66	4/27/2015	0.11	-	-	-
Vinyl chloride	MW 66	10/13/2015	0.13	-	-	-
Vinyl chloride	MW 66	4/20/2016	0.14	-	-	-
Vinyl chloride	MW 66	10/20/2016	0.14	-	-	-
Vinyl chloride	MW 66	4/19/2017	0.11	-	-	-
Vinyl chloride	MW 66	10/10/2017	0.075	-	-	-
Vinyl chloride	MW 68	1/18/2005	0.16	-	-	-
Vinyl chloride	MW 68	10/19/2005	0.35 J	-	-	-
Vinyl chloride	MW 68	10/19/2005	0.36 J	-	-	-
Vinyl chloride	MW 68	1/31/2006	0.23 J	-	-	-
Vinyl chloride	MW 68	4/18/2006	0.19 J	-	-	-
Vinyl chloride	MW 68	7/19/2006	0.16 J	-	-	-
Vinyl chloride	MW 68	10/19/2006	0.14 J	-	-	-
Vinyl chloride	MW 68	1/23/2007	0.14 J	-	-	-
Vinyl chloride	MW 68	4/18/2007	0.26	-	-	-
Vinyl chloride	MW 68	7/9/2007	0.33 J	-	-	-
Vinyl chloride	MW 68	10/16/2007	0.43 J	-	-	-
Vinyl chloride	MW 68	2/19/2008	0.26	-	-	-
Vinyl chloride	MW 68	6/27/2008	0.34 J	-	-	-
Vinyl chloride	MW 68	12/5/2008	0.24 J	-	-	-
Vinyl chloride	MW 68	4/29/2009	0.33 J	-	-	-
Vinyl chloride	MW 68	12/16/2009	0.22 J	-	-	-
Vinyl chloride	MW 68	12/16/2009	0.23 J	-	-	-
Vinyl chloride	MW 68	10/26/2010	0.181	-	-	-
Vinyl chloride	MW 68	4/18/2011	0.097 J	-	-	-
Vinyl chloride	MW 68	10/4/2011	0.16 J	-	-	-
Vinyl chloride	MW 68	10/4/2011	0.16 J	-	-	-
Vinyl chloride	MW 68	5/14/2012	0.25	-	-	-
Vinyl chloride	MW 68	10/12/2012	0.24	-	-	-
Vinyl chloride	MW 68	4/10/2013	0.21 J	-	-	-
Vinyl chloride	MW 68	4/10/2013	0.19 J	-	-	-
Vinyl chloride	MW 68	10/23/2013	0.24 J	-	-	-
Vinyl chloride	MW 68	11/14/2013	0.3	-	-	-
Vinyl chloride	MW 68	11/14/2013	0.3	-	-	-
Vinyl chloride	MW 68	4/10/2014	0.24	-	-	-
Vinyl chloride	MW 68	10/23/2014	0.15 J	-	-	-
Vinyl chloride	MW 68	4/28/2015	0.18 J	-	-	-
Vinyl chloride	MW 68	4/28/2015	0.17 J	-	-	-
Vinyl chloride	MW 68	10/13/2015	0.16 J	-	-	-
Vinyl chloride	MW 68	10/13/2015	0.12 J	-	-	-
Vinyl chloride	MW 68	4/19/2016	0.15 J	-	-	-
Vinyl chloride	MW 68	10/20/2016	0.15 J	-	-	-
Vinyl chloride	MW 68	4/17/2017	0.13	-	-	-
Vinyl chloride	MW 68	10/11/2017	0.16	-	-	-
Vinyl chloride	MW 75	1/14/2005	0.001 U	-	-	-
Vinyl chloride	MW 75	10/19/2005	0.001 U	-	-	-
Vinyl chloride	MW 75	10/19/2006	0.001 U	-	-	-
Vinyl chloride	MW 75	10/16/2007	0.001 U	-	-	-
Vinyl chloride	MW 75	6/30/2008	0.001 U	-	-	-
Vinyl chloride	MW 75	10/27/2010	0.001 U	-	-	-
Vinyl chloride	MW 75	10/5/2011	0.001 U	-	-	-

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Vinyl chloride	MW 75	10/12/2012	0.001 U	-	-	-
Vinyl chloride	MW 75	10/23/2013	0.001 U	-	-	-
Vinyl chloride	MW 75	10/21/2014	0.001 U	-	-	-
Vinyl chloride	MW 75	10/23/2016	0.001 U	-	-	-
Vinyl chloride	MW 75	10/16/2017	0.001 U	-	-	-
Vinyl chloride	MW 76/MW 76R-17	1/14/2005	0.001 U	-	-	-
Vinyl chloride	MW 76/MW 76R-17	10/20/2005	0.001 U	-	-	-
Vinyl chloride	MW 76/MW 76R-17	10/19/2006	0.001 U	-	-	-
Vinyl chloride	MW 76/MW 76R-17	10/16/2007	0.001 U	-	-	-
Vinyl chloride	MW 76/MW 76R-17	10/27/2010	0.001 U	-	-	-
Vinyl chloride	MW 76/MW 76R-17	10/5/2011	0.001 U	-	-	-
Vinyl chloride	MW 76/MW 76R-17	10/5/2011	0.001 U	-	-	-
Vinyl chloride	MW 76/MW 76R-17	10/12/2012	0.001 U	-	-	-
Vinyl chloride	MW 76/MW 76R-17	10/23/2013	0.00046 J	-	-	-
Vinyl chloride	MW 76/MW 76R-17	10/23/2013	0.00048 J	-	-	-
Vinyl chloride	MW 76/MW 76R-17	10/21/2014	0.00051 J	-	-	-
Vinyl chloride	MW 76/MW 76R-17	10/18/2017	0.001 U	-	-	-
Vinyl chloride	MW 79	1/13/2005	0.24	-	-	-
Vinyl chloride	MW 79	10/15/2007	0.33	-	-	-
Vinyl chloride	MW 79	12/5/2008	0.2	-	-	-
Vinyl chloride	MW 79	4/29/2009	0.22	-	-	-
Vinyl chloride	MW 79	12/14/2009	0.27	-	-	-
Vinyl chloride	MW 79	10/27/2010	0.185	-	-	-
Vinyl chloride	MW 79	4/20/2011	0.13	-	-	-
Vinyl chloride	MW 79	10/4/2011	0.14	-	-	-
Vinyl chloride	MW 79	5/15/2012	0.12	-	-	-
Vinyl chloride	MW 79	10/15/2012	0.15	-	-	-
Vinyl chloride	MW 79	10/15/2012	0.14	-	-	-
Vinyl chloride	MW 79	4/9/2013	0.15	-	-	-
Vinyl chloride	MW 79	10/28/2013	0.16	-	-	-
Vinyl chloride	MW 79	4/15/2014	0.22	-	-	-
Vinyl chloride	MW 79	10/28/2014	0.15	-	-	-
Vinyl chloride	MW 79	10/28/2014	0.15	-	-	-
Vinyl chloride	MW 79	4/29/2015	0.15	-	-	-
Vinyl chloride	MW 79	10/13/2015	0.13	-	-	-
Vinyl chloride	MW 79	4/19/2016	0.18	-	-	-
Vinyl chloride	MW 79	10/21/2016	0.15	-	-	-
Vinyl chloride	MW 79	4/17/2017	0.19	-	-	-
Vinyl chloride	MW 79	4/17/2017	0.19	-	-	-
Vinyl chloride	MW 79	10/11/2017	0.2	-	-	-
Vinyl chloride	MW 80	3/9/2005	0.11	-	-	-
Vinyl chloride	MW 80	3/9/2005	0.12	-	-	-
Vinyl chloride	MW 80	10/18/2005	0.15	-	-	-
Vinyl chloride	MW 80	10/18/2006	0.033	-	-	-
Vinyl chloride	MW 80	10/17/2007	0.042	-	-	-
Vinyl chloride	MW 80	6/27/2008	0.068 J	-	-	-
Vinyl chloride	MW 80	6/27/2008	0.093 J	-	-	-
Vinyl chloride	MW 80	12/8/2009	0.069	-	-	-
Vinyl chloride	MW 80	10/25/2010	0.0134	-	-	-
Vinyl chloride	MW 80	10/3/2011	0.015	-	-	-
Vinyl chloride	MW 80	10/11/2012	0.025	-	-	-
Vinyl chloride	MW 80	10/22/2013	0.045	-	-	-
Vinyl chloride	MW 80	10/24/2014	0.036	-	-	-

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Vinyl chloride	MW 80	10/8/2015	0.04	-	-	-
Vinyl chloride	MW 80	10/22/2016	0.049	-	-	-
Vinyl chloride	MW 80	10/6/2017	0.041	-	-	-
Vinyl chloride	MW 81	3/9/2005	0.0034	-	-	-
Vinyl chloride	MW 81	3/30/2005	0.004 J	-	-	-
Vinyl chloride	MW 81	10/19/2005	0.0058	-	-	-
Vinyl chloride	MW 81	10/18/2006	0.0062	-	-	-
Vinyl chloride	MW 81	10/18/2006	0.0062	-	-	-
Vinyl chloride	MW 81	10/18/2007	0.0092	-	-	-
Vinyl chloride	MW 81	2/15/2008	0.013	-	-	-
Vinyl chloride	MW 81	6/26/2008	0.016	-	-	-
Vinyl chloride	MW 81	12/4/2009	0.026	-	-	-
Vinyl chloride	MW 81	10/25/2010	0.0268	-	-	-
Vinyl chloride	MW 81	10/3/2011	0.05	-	-	-
Vinyl chloride	MW 81	10/11/2012	0.051	-	-	-
Vinyl chloride	MW 81	10/22/2013	0.066	-	-	-
Vinyl chloride	MW 81	10/22/2014	0.041	-	-	-
Vinyl chloride	MW 81	10/8/2015	0.062	-	-	-
Vinyl chloride	MW 81	10/22/2016	0.026	-	-	-
Vinyl chloride	MW 81	10/6/2017	0.042	-	-	-
Vinyl chloride	MW 82	3/9/2005	0.001 U	-	-	-
Vinyl chloride	MW 82	10/20/2005	0.001 U	-	-	-
Vinyl chloride	MW 82	10/19/2006	0.001 U	-	-	-
Vinyl chloride	MW 82	10/16/2007	0.001 U	-	-	-
Vinyl chloride	MW 82	6/27/2008	0.001 U	-	-	-
Vinyl chloride	MW 82	12/15/2009	0.001 U	-	-	-
Vinyl chloride	MW 82	10/27/2010	0.001 U	-	-	-
Vinyl chloride	MW 82	10/4/2011	0.001 U	-	-	-
Vinyl chloride	MW 82	10/23/2013	0.001 U	-	-	-
Vinyl chloride	MW 82	10/24/2014	0.001 U	-	-	-
Vinyl chloride	MW 82	10/12/2015	0.001 U	-	-	-
Vinyl chloride	MW 82	10/23/2016	0.001 U	-	-	-
Vinyl chloride	MW 82	10/12/2017	0.001 U	-	-	-
Vinyl chloride	MW 82	10/12/2017	0.001 U	-	-	-
Vinyl chloride	MW 83	3/9/2005	0.001 U	-	-	detection frequency
Vinyl chloride	MW 83	10/18/2005	0.001 U	-	-	detection frequency
Vinyl chloride	MW 83	10/18/2006	0.001 U	-	-	detection frequency
Vinyl chloride	MW 83	10/18/2007	0.001 U	-	-	detection frequency
Vinyl chloride	MW 83	6/27/2008	0.001 U	-	-	detection frequency
Vinyl chloride	MW 83	12/8/2009	0.001 U	-	-	detection frequency
Vinyl chloride	MW 83	10/26/2010	0.002 U	-	-	detection frequency
Vinyl chloride	MW 83	10/4/2011	0.0003 J	-	-	-
Vinyl chloride	MW 83	10/10/2012	0.00045 J	-	-	-
Vinyl chloride	MW 83	10/24/2013	0.0015	-	-	-
Vinyl chloride	MW 83	10/22/2014	0.0015	-	-	-
Vinyl chloride	MW 83	10/9/2015	0.0037	-	-	-
Vinyl chloride	MW 83	10/22/2016	0.0053	-	-	-
Vinyl chloride	MW 83	10/22/2016	0.0053	-	-	-
Vinyl chloride	MW 83	10/11/2017	0.0076	-	-	-
Vinyl chloride	MW 84	10/20/2005	0.001 U	-	-	-
Vinyl chloride	MW 84	4/10/2013	0.001 U	-	-	-
Vinyl chloride	MW 84	11/14/2013	0.001 U	-	-	-
Vinyl chloride	MW 84	4/10/2014	0.001 U	-	-	-

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Vinyl chloride	MW 84	10/12/2015	0.001 U	-	-	-
Vinyl chloride	MW 84	10/24/2016	0.001 U	-	-	-
Vinyl chloride	MW 84	10/13/2017	0.001 U	-	-	-
Vinyl chloride	MW 85	2/19/2008	0.36	-	-	-
Vinyl chloride	MW 85	6/25/2008	0.25	-	-	-
Vinyl chloride	MW 85	12/4/2008	0.5	-	-	-
Vinyl chloride	MW 85	4/30/2009	0.48	-	-	-
Vinyl chloride	MW 85	12/17/2009	0.76	-	-	-
Vinyl chloride	MW 85	10/28/2010	0.808	-	-	-
Vinyl chloride	MW 85	4/20/2011	0.45	-	-	-
Vinyl chloride	MW 85	10/6/2011	0.51	-	-	-
Vinyl chloride	MW 85	5/16/2012	0.59	-	-	-
Vinyl chloride	MW 85	10/16/2012	0.77	-	-	-
Vinyl chloride	MW 85	4/12/2013	0.69	-	-	-
Vinyl chloride	MW 85	10/29/2013	0.64	-	-	-
Vinyl chloride	MW 85	4/16/2014	0.84	-	-	-
Vinyl chloride	MW 85	10/29/2014	0.6	-	-	-
Vinyl chloride	MW 85	4/27/2015	0.37 J	-	-	-
Vinyl chloride	MW 85	10/19/2015	0.44	-	-	-
Vinyl chloride	MW 85	4/22/2016	0.34 J	-	-	-
Vinyl chloride	MW 85	4/22/2016	0.35 J	-	-	-
Vinyl chloride	MW 85	10/24/2016	0.42 J	-	-	-
Vinyl chloride	MW 85	4/18/2017	0.42	-	-	-
Vinyl chloride	MW 85	10/17/2017	0.45	-	-	-
Vinyl chloride	MW 86	10/28/2010	0.001 U	-	-	-
Vinyl chloride	MW 86	10/28/2010	0.002 U	-	-	-
Vinyl chloride	MW 86	10/4/2011	0.001 U	-	-	-
Vinyl chloride	MW 86	10/11/2012	0.001 U	-	-	-
Vinyl chloride	MW 86	10/22/2013	0.001 U	-	-	-
Vinyl chloride	MW 86	10/22/2014	0.001 U	-	-	-
Vinyl chloride	MW 86	10/8/2015	0.001 U	-	-	-
Vinyl chloride	MW 86	10/22/2016	0.001 U	-	-	-
Vinyl chloride	MW 86	10/13/2017	0.001 U	-	-	-
Vinyl chloride	MW 88	10/29/2010	0.002 U	-	-	detection frequency
Vinyl chloride	MW 88	10/3/2011	0.001 U	-	-	detection frequency
Vinyl chloride	MW 88	10/11/2012	0.001 U	-	-	detection frequency
Vinyl chloride	MW 88	10/22/2013	0.001 U	-	-	detection frequency
Vinyl chloride	MW 88	10/22/2014	0.00034 J	-	-	-
Vinyl chloride	MW 88	10/8/2015	0.001	-	-	-
Vinyl chloride	MW 88	10/8/2015	0.00098 J	-	-	-
Vinyl chloride	MW 88	10/22/2016	0.0019	-	-	-
Vinyl chloride	MW 88	10/22/2016	0.0018	-	-	-
Vinyl chloride	MW 88	10/13/2017	0.0023	-	-	-
Vinyl chloride	MW 89-11	12/8/2011	0.001 U	-	-	-
Vinyl chloride	MW 89-11	12/8/2011	0.001 U	-	-	-
Vinyl chloride	MW 89-11	10/17/2012	0.001 U	-	-	-
Vinyl chloride	MW 89-11	4/12/2013	0.001 U	-	-	-
Vinyl chloride	MW 89-11	4/12/2013	0.001 U	-	-	-
Vinyl chloride	MW 89-11	10/28/2013	0.001 U	-	-	-
Vinyl chloride	MW 89-11	4/16/2014	0.001 U	-	-	-
Vinyl chloride	MW 89-11	10/28/2014	0.001 U	-	-	-
Vinyl chloride	MW 89-11	4/28/2015	0.001 U	-	-	-
Vinyl chloride	MW 89-11	10/15/2015	0.001 U	-	-	-

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Vinyl chloride	MW 89-11	4/20/2016	0.001 U	-	-	-
Vinyl chloride	MW 89-11	4/20/2016	0.001 U	-	-	-
Vinyl chloride	MW 89-11	10/25/2016	0.001 U	-	-	-
Vinyl chloride	MW 89-11	10/25/2016	0.001 U	-	-	-
Vinyl chloride	MW 89-11	4/19/2017	0.001 U	-	-	-
Vinyl chloride	MW 89-11	10/17/2017	0.001 U	-	-	-
Vinyl chloride	MW97R-16	10/25/2016	0.001 U	-	-	-
Vinyl chloride	MW97R-16	10/18/2017	0.001 U	-	-	-
Vinyl chloride	Pond Intake	1/11/2005	0.0056	-	-	-
Vinyl chloride	Pond Intake	4/19/2005	0.001 U	-	-	detection frequency
Vinyl chloride	Pond Intake	10/17/2005	0.001 U	-	-	detection frequency
Vinyl chloride	Pond Intake	2/1/2006	0.001 U	-	-	detection frequency
Vinyl chloride	Pond Intake	4/17/2006	0.001 U	-	-	detection frequency
Vinyl chloride	Pond Intake	7/18/2006	0.001 U	-	-	detection frequency
Vinyl chloride	Pond Intake	10/17/2006	0.001 U	-	-	detection frequency
Vinyl chloride	Pond Intake	1/22/2007	0.006	-	-	sampling frequency
Vinyl chloride	Pond Intake	4/16/2007	0.00038 J	-	-	-
Vinyl chloride	Pond Intake	5/9/2007	0.00047 J	-	-	sampling frequency
Vinyl chloride	Pond Intake	6/18/2007	0.00052 J	-	-	sampling frequency
Vinyl chloride	Pond Intake	7/10/2007	0.001 U	-	-	detection frequency
Vinyl chloride	Pond Intake	8/15/2007	0.0004 J	-	-	sampling frequency
Vinyl chloride	Pond Intake	9/27/2007	0.00029 J	-	-	sampling frequency
Vinyl chloride	Pond Intake	10/17/2007	0.001 U	-	-	detection frequency
Vinyl chloride	Pond Intake	11/9/2007	0.001 U	-	-	detection frequency
Vinyl chloride	Pond Intake	12/4/2007	0.001 U	-	-	detection frequency
Vinyl chloride	Pond Intake	2/18/2008	0.0022	-	-	sampling frequency
Vinyl chloride	Pond Intake	6/25/2008	0.0031	-	-	-
Vinyl chloride	Pond Intake	9/23/2008	0.001 U	-	-	detection frequency
Vinyl chloride	Pond Intake	12/4/2008	0.001 U	-	-	detection frequency
Vinyl chloride	Pond Intake	3/4/2009	0.0012	-	-	sampling frequency
Vinyl chloride	Pond Intake	3/4/2009	0.0013	-	-	sampling frequency
Vinyl chloride	Pond Intake	4/30/2009	0.0031	-	-	-
Vinyl chloride	Pond Intake	7/30/2009	0.0017	-	-	-
Vinyl chloride	Pond Intake	7/30/2009	0.0017	-	-	-
Vinyl chloride	Pond Intake	12/17/2009	0.0015	-	-	-
Vinyl chloride	Pond Intake	8/4/2010	0.0049	-	-	-
Vinyl chloride	Pond Intake	10/28/2010	0.001 U	-	-	detection frequency
Vinyl chloride	Pond Intake	4/20/2011	0.0019	-	-	-
Vinyl chloride	Pond Intake	7/28/2011	0.0042	-	-	-
Vinyl chloride	Pond Intake	10/6/2011	0.0021	-	-	-
Vinyl chloride	Pond Intake	10/6/2011	0.0022	-	-	-
Vinyl chloride	Pond Intake	5/16/2012	0.0038	-	-	-
Vinyl chloride	Pond Intake	8/2/2012	0.0048	-	-	-
Vinyl chloride	Pond Intake	10/16/2012	0.00067 J	-	-	-
Vinyl chloride	Pond Intake	4/12/2013	0.0046	-	-	-
Vinyl chloride	Pond Intake	7/17/2013	0.0048	-	-	-
Vinyl chloride	Pond Intake	10/29/2013	0.0022	-	-	-
Vinyl chloride	Pond Intake	4/16/2014	0.0069	-	-	-
Vinyl chloride	Pond Intake	7/17/2014	0.0049	-	-	-
Vinyl chloride	Pond Intake	7/17/2014	0.0048	-	-	-
Vinyl chloride	Pond Intake	10/29/2014	0.0039	-	-	-
Vinyl chloride	Pond Intake	4/27/2015	0.0053	-	-	-
Vinyl chloride	Pond Intake	7/10/2015	0.008	-	-	-

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Vinyl chloride	Pond Intake	7/10/2015	0.0079	-	-	-
Vinyl chloride	Pond Intake	10/20/2015	0.0065	-	-	-
Vinyl chloride	Pond Intake	4/22/2016	0.0044	-	-	-
Vinyl chloride	Pond Intake	7/19/2016	0.0049	-	-	-
Vinyl chloride	Pond Intake	10/24/2016	0.0031	-	-	-
Vinyl chloride	Pond Intake	10/24/2016	0.0029	-	-	-
Vinyl chloride	Pond Intake	4/18/2017	0.0063	-	-	-
Vinyl chloride	Pond Intake	7/12/2017	0.0051	-	-	-
Vinyl chloride	Pond Intake	10/19/2017	0.0048	-	-	-
Vinyl chloride	Pond North	1/11/2005	0.013	-	-	-
Vinyl chloride	Pond North	4/19/2005	0.001 U	-	-	detection frequency
Vinyl chloride	Pond North	10/17/2005	0.001 U	-	-	detection frequency
Vinyl chloride	Pond North	2/1/2006	0.001 U	-	-	detection frequency
Vinyl chloride	Pond North	4/17/2006	0.001 U	-	-	detection frequency
Vinyl chloride	Pond North	7/18/2006	0.001 U	-	-	detection frequency
Vinyl chloride	Pond North	10/17/2006	0.001 U	-	-	detection frequency
Vinyl chloride	Pond North	1/22/2007	0.0067 J	-	-	sampling frequency
Vinyl chloride	Pond North	4/16/2007	0.024	-	-	-
Vinyl chloride	Pond North	5/9/2007	0.001 U	-	-	detection frequency
Vinyl chloride	Pond North	6/18/2007	0.00083 J	-	-	sampling frequency
Vinyl chloride	Pond North	7/10/2007	0.00035 J	-	-	-
Vinyl chloride	Pond North	8/15/2007	0.0005 J	-	-	sampling frequency
Vinyl chloride	Pond North	9/27/2007	0.00084 J	-	-	sampling frequency
Vinyl chloride	Pond North	10/17/2007	0.00072 J	-	-	-
Vinyl chloride	Pond North	11/9/2007	0.001 U	-	-	detection frequency
Vinyl chloride	Pond North	12/4/2007	0.001 U	-	-	detection frequency
Vinyl chloride	Pond North	2/18/2008	0.0022	-	-	sampling frequency
Vinyl chloride	Pond North	6/25/2008	0.0035	-	-	-
Vinyl chloride	Pond North	9/23/2008	0.0012	-	-	-
Vinyl chloride	Pond North	9/23/2008	0.0013	-	-	-
Vinyl chloride	Pond North	12/4/2008	0.001 U	-	-	detection frequency
Vinyl chloride	Pond North	3/4/2009	0.0012	-	-	sampling frequency
Vinyl chloride	Pond North	4/30/2009	0.0039	-	-	-
Vinyl chloride	Pond North	7/30/2009	0.0018	-	-	-
Vinyl chloride	Pond North	12/17/2009	0.5	yes	-	-
Vinyl chloride	Pond North	8/4/2010	0.004	-	-	-
Vinyl chloride	Pond North	8/4/2010	0.0051	-	-	-
Vinyl chloride	Pond North	10/28/2010	0.001 U	-	-	detection frequency
Vinyl chloride	Pond North	4/20/2011	0.0043	-	-	-
Vinyl chloride	Pond North	7/28/2011	0.0088	-	-	-
Vinyl chloride	Pond North	7/28/2011	0.0067	-	-	-
Vinyl chloride	Pond North	10/6/2011	0.012	-	-	-
Vinyl chloride	Pond North	5/16/2012	0.014	-	-	-
Vinyl chloride	Pond North	5/16/2012	0.014	-	-	-
Vinyl chloride	Pond North	8/2/2012	0.012	-	-	-
Vinyl chloride	Pond North	8/2/2012	0.011	-	-	-
Vinyl chloride	Pond North	10/16/2012	0.012	-	-	-
Vinyl chloride	Pond North	4/12/2013	0.0081	-	-	-
Vinyl chloride	Pond North	7/17/2013	0.014	-	-	-
Vinyl chloride	Pond North	7/17/2013	0.014	-	-	-
Vinyl chloride	Pond North	10/29/2013	0.0033	-	-	-
Vinyl chloride	Pond North	4/16/2014	0.089	-	-	-
Vinyl chloride	Pond North	7/17/2014	0.041	-	-	-

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Vinyl chloride	Pond North	10/29/2014	0.019	-	-	-
Vinyl chloride	Pond North	4/27/2015	0.0091	-	-	-
Vinyl chloride	Pond North	7/10/2015	0.0077	-	-	-
Vinyl chloride	Pond North	10/20/2015	0.0047	-	-	-
Vinyl chloride	Pond North	4/22/2016	0.0078	-	-	-
Vinyl chloride	Pond North	7/19/2016	0.0064	-	-	-
Vinyl chloride	Pond North	7/19/2016	0.0062	-	-	-
Vinyl chloride	Pond North	10/24/2016	0.033 U	-	-	detection frequency
Vinyl chloride	Pond North	4/18/2017	0.011	-	-	-
Vinyl chloride	Pond North	4/18/2017	0.01	-	-	-
Vinyl chloride	Pond North	7/12/2017	0.0053	-	-	-
Vinyl chloride	Pond North	7/12/2017	0.0052	-	-	-
Vinyl chloride	Pond North	10/19/2017	0.017	-	-	-

Notes:

Ambiguous Data:

high DL - observation was excluded excluded due to ambiguous comparisons with data analyzed at lower detection limits.

low J value - observation was censored (considered non-detect) due to ambiguous comparisons with non-detect data having higher detection limits.

Excluded Data:

sampling frequency - additional sampling events were excluded from the Mann-Kendall trend test to provide a consistent sampli interval corresponding to current program.

detection frequency - non-detects were excluded from the Mann-Kendall trend test to provide a test result, otherwise not obtaine due to detection frequency less than 75 percent.

Table D.2

Descriptive Statistics and Trend Test Results
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Location	Analyte	Date Range	Number of Samples	Number of Detects	Percent Detects	Minimum (mg/L)	Maximum (mg/L)	Number of Outliers	Mann-Kendall Trend test				Sen's Slope (units/day)
									Statistic	Probability	Confidence in trend	Conclusion	
MW-2	TCE	2007 -- 2017	13	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 3	TCE	2005 -- 2017	30	30	100%	0.013	18	0	-77	0.913	9%	NT or Decreasing	-0.001
MW-4 (1)	TCE	2005 -- 2017	17	17	100%	0.0112	2.4	0	91	1.0E-04	100%	**Increasing**	4.2E-04
MW-7	TCE	2012 -- 2017	2	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 8	TCE	2005 -- 2017	27	27	100%	0.046	1.4	0	-60	0.891	11%	NT or Decreasing	-3.5E-05
MW 12 (1)	TCE	2005 -- 2017	23	23	100%	0.00085 J	0.16	0	-233	1.000	0%	NT or Decreasing	-2.5E-05
MW 14	TCE	2005 -- 2017	29	2	7%	0.001 U	0.5 U	--	--	--	--	--	--
MW 15 (2)(3)	TCE	2005 -- 2017	9	9	100%	2.5	8.3	0	-14	0.912	9%	NT or Decreasing	-1.0E-03
MW 16	TCE	2005 -- 2017	6	1	17%	0.001 U	0.0017	--	--	--	--	--	--
MW 21 (2)(3)	TCE	2005 -- 2017	6	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 28	TCE	2005 -- 2017	22	1	5%	0.00015 J	0.05 U	--	--	--	--	--	--
MW 31R (1)	TCE	2005 -- 2014	18	18	100%	0.04 J	2.5	0	-87	0.999	0%	NT or Decreasing	-3.5E-04
MW 37	TCE	2005 -- 2017	12	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 40 (1)	TCE	2006 -- 2017	14	14	100%	0.0011	0.4	0	64	2.8E-04	100%	**Increasing**	0.000
MW 41	TCE	2005 -- 2017	29	1	3%	0.00017 J	0.63 U	--	--	--	--	--	--
MW 42	TCE	2005 -- 2017	29	2	7%	0.00011 J	0.71 U	--	--	--	--	--	--
MW 46	TCE	2005 -- 2017	12	2	17%	0.00013 J	0.005 U	--	--	--	--	--	--
MW 49	TCE	2005 -- 2016	19	6	32%	0.00041 J	0.04 U	--	--	--	--	--	--
MW 51	TCE	2008 -- 2017	18	18	100%	0.14	0.3	0	-107	1.000	0%	NT or Decreasing	-3.6E-05
MW 56	TCE	2005 -- 2017	14	1	7%	0.001 U	0.00067 J	--	--	--	--	--	--
MW 57	TCE	2005 -- 2017	20	2	10%	0.00011 J	0.0033 U	--	--	--	--	--	--
MW 58	TCE	2005 -- 2017	15	2	13%	0.001 U	0.05 U	--	--	--	--	--	--
MW 61	TCE	2005 -- 2017	11	0	0%	0.001 U	0.005 U	--	--	--	--	--	--
MW 64	TCE	2005 -- 2017	15	5	33%	0.00011 J	0.063	--	--	--	--	--	--
MW 65	TCE	2005 -- 2017	15	0	0%	0.001 U	0.17 U	--	--	--	--	--	--
MW 66	TCE	2005 -- 2017	24	1	4%	0.00034 J	0.1 U	--	--	--	--	--	--
MW 68 (4)	TCE	2005 -- 2017	30	30	100%	0.1	2.6	0	111	0.025	98%	**Increasing**	2.7E-04
MW 75	TCE	2005 -- 2017	12	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 76/MW 76R-17	TCE	2005 -- 2017	10	1	10%	0.00021 J	0.001 U	--	--	--	--	--	--
MW 79	TCE	2005 -- 2017	20	1	5%	0.001 U	0.12	--	--	--	--	--	--
MW 80	TCE	2005 -- 2017	14	1	7%	0.00021 J	0.0083 U	--	--	--	--	--	--
MW 81	TCE	2005 -- 2017	16	0	0%	0.001 U	0.008 U	--	--	--	--	--	--
MW 82	TCE	2005 -- 2017	13	2	15%	0.001 U	0.00097 J	--	--	--	--	--	--
MW 83	TCE	2005 -- 2017	14	2	14%	0.00023 J	0.005 U	--	--	--	--	--	--
MW 84	TCE	2005 -- 2017	7	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 85	TCE	2008 -- 2017	20	1	5%	0.001 U	0.56 U	--	--	--	--	--	--
MW 86	TCE	2010 -- 2017	8	0	0%	0.001 U	0.005 U	--	--	--	--	--	--
MW 88	TCE	2010 -- 2017	8	0	0%	0.001 U	0.005 U	--	--	--	--	--	--
MW 89-11	TCE	2011 -- 2017	11	1	9%	0.00036 J	0.001 U	--	--	--	--	--	--
MW97R-16	TCE	2016 -- 2017	2	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
Pond Intake	TCE	2005 -- 2017	47	1	2%	0.001 U	0.0073	--	--	--	--	--	--
Pond North	TCE	2005 -- 2017	47	1	2%	0.001 U	0.033 U	--	--	--	--	--	--

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Location	Analyte	Date Range	Number of Samples	Number of Detects	Percent Detects	Minimum (mg/L)	Maximum (mg/L)	Number of Outliers	Mann-Kendall Trend test				Sen's Slope (units/day)
									Statistic	Probability	Confidence in trend	Conclusion	
MW-2	cis-1,2-DCE	2007 -- 2017	13	3	23%	0.00015 J	0.0021	--	--	--	--	--	--
MW 3	cis-1,2-DCE	2005 -- 2017	30	29	97%	0.0042 U	12	0	-3	0.514	49%	NT or Decreasing	-6.1E-05
MW-4	cis-1,2-DCE	2005 -- 2017	30	30	100%	5.4	23	1	13	0.415	58%	NT or Decreasing	4.9E-05
MW-7	cis-1,2-DCE	2014 -- 2017	2	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 8	cis-1,2-DCE	2005 -- 2017	27	27	100%	0.24	22	1	-162	1.000	0%	NT or Decreasing	-0.001
MW 12	cis-1,2-DCE	2005 -- 2017	29	29	100%	0.08	1	0	-342	1.000	0%	NT or Decreasing	-1.4E-04
MW 14	cis-1,2-DCE	2005 -- 2017	29	29	100%	0.33	7.7	1	-148	0.997	0%	NT or Decreasing	-4.2E-04
MW 15 [(2)(3)]	cis-1,2-DCE	2005 -- 2017	9	9	100%	1.7	19	0	-19	0.970	3%	NT or Decreasing	-0.002
MW 16	cis-1,2-DCE	2005 -- 2017	6	3	50%	0.00026 J	0.0019	--	--	--	--	--	--
MW 21 [(2)(3)]	cis-1,2-DCE	2005 -- 2017	6	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 28 [(1)]	cis-1,2-DCE	2005 -- 2017	13	13	100%	0.0011 J	6.1	1	45	0.004	100%	**Increasing**	4.7E-04
MW 31R	cis-1,2-DCE	2005 -- 2017	28	28	100%	5.1	69	2	2	0.492	51%	NT or Decreasing	0.0E+00
MW 37	cis-1,2-DCE	2005 -- 2017	12	1	8%	0.001 U	0.0011	--	--	--	--	--	--
MW 40	cis-1,2-DCE	2005 -- 2017	30	30	100%	5	17	0	-253	1.000	0%	NT or Decreasing	-0.002
MW 41	cis-1,2-DCE	2005 -- 2017	29	29	100%	4.3	10	0	-44	0.790	21%	NT or Decreasing	-1.4E-04
MW 42	cis-1,2-DCE	2005 -- 2017	29	29	100%	2.9	12	0	-261	1.000	0%	NT or Decreasing	-0.001
MW 46	cis-1,2-DCE	2005 -- 2017	12	0	0%	0.001 U	0.005 U	--	--	--	--	--	--
MW 49	cis-1,2-DCE	2005 -- 2016	19	18	95%	0.001 U	0.9	0	119	1.8E-05	100%	**Increasing**	2.6E-04
MW 51	cis-1,2-DCE	2008 -- 2017	18	17	94%	0.0067 U	0.028	2	59	0.014	99%	**Increasing**	1.5E-06
MW 56	cis-1,2-DCE	2005 -- 2017	14	3	21%	0.00021 J	0.003	--	--	--	--	--	--
MW 57	cis-1,2-DCE	2005 -- 2017	20	7	35%	0.00014 J	0.0042	--	--	--	--	--	--
MW 58	cis-1,2-DCE	2005 -- 2017	15	4	27%	0.001 U	2.2	--	--	--	--	--	--
MW 61	cis-1,2-DCE	2005 -- 2017	11	1	9%	0.00035 J	0.005 U	--	--	--	--	--	--
MW 64	cis-1,2-DCE	2005 -- 2017	15	8	53%	0.00014 J	0.25	--	--	--	--	--	--
MW 65	cis-1,2-DCE	2005 -- 2017	15	15	100%	0.02	3	0	-62	0.999	0%	NT or Decreasing	-4.6E-04
MW 66 [(1)]	cis-1,2-DCE	2008 -- 2017	18	18	100%	0.00012 J	3	0	131	4.2E-07	100%	**Increasing**	4.7E-04
MW 68	cis-1,2-DCE	2005 -- 2017	31	31	100%	3.5	16	0	-350	1.000	0%	NT or Decreasing	-0.002
MW 75	cis-1,2-DCE	2005 -- 2017	12	1	8%	0.001 U	0.0007 J	--	--	--	--	--	--
MW 76/MW 76R-17	cis-1,2-DCE	2005 -- 2017	10	5	50%	0.00019 J	0.0027	--	--	--	--	--	--
MW 79	cis-1,2-DCE	2005 -- 2017	20	20	100%	0.79	2.9	0	124	3.2E-05	100%	**Increasing**	4.3E-04
MW 80	cis-1,2-DCE	2005 -- 2017	14	4	29%	0.00013 J	0.025	--	--	--	--	--	--
MW 81 [(1)]	cis-1,2-DCE	2008 -- 2017	9	9	100%	0.00024 J	0.19	0	24	0.008	99%	**Increasing**	3.6E-05
MW 82	cis-1,2-DCE	2005 -- 2017	13	3	23%	0.00041 J	0.0022	--	--	--	--	--	--
MW 83	cis-1,2-DCE	2005 -- 2017	14	3	21%	0.00032 J	0.005 U	--	--	--	--	--	--
MW 84	cis-1,2-DCE	2005 -- 2017	7	2	29%	0.00027 J	0.001	--	--	--	--	--	--
MW 85	cis-1,2-DCE	2008 -- 2017	20	15	75%	0.001 U	10	0	150	5.2E-07	100%	**Increasing**	0.003
MW 86	cis-1,2-DCE	2010 -- 2017	8	0	0%	0.001 U	0.005 U	--	--	--	--	--	--
MW 88	cis-1,2-DCE	2010 -- 2017	8	0	0%	0.001 U	0.005 U	--	--	--	--	--	--
MW 89-11	cis-1,2-DCE	2011 -- 2017	12	4	33%	0.0003 J	0.0033 U	--	--	--	--	--	--
MW97R-16	cis-1,2-DCE	2016 -- 2017	2	1	50%	0.001 U	0.0012	--	--	--	--	--	--
Pond Intake [(1)(2)]	cis-1,2-DCE	2005 -- 2017	25	25	100%	0.00019 J	0.11	0	202	1.3E-06	100%	**Increasing**	1.7E-05
Pond North [(1)(2)]	cis-1,2-DCE	2005 -- 2017	27	27	100%	0.00016 J	0.5	0	186	5.7E-05	100%	**Increasing**	3.6E-05

Table D.2

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Location	Analyte	Date Range	Number of Samples	Number of Detects	Percent Detects	Minimum (mg/L)	Maximum (mg/L)	Number of Outliers	Mann-Kendall Trend test				Sen's Slope (units/day)
									Statistic	Probability	Confidence in trend	Conclusion	
MW-2	Vinyl chloride	2007 -- 2017	13	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 3 [1]	Vinyl chloride	2005 -- 2017	20	18	90%	0.00027 J	2	0	-68	0.985	1%	NT or Decreasing	-4.0E-05
MW-4	Vinyl chloride	2005 -- 2017	30	30	100%	0.38 J	2.1	0	-197	1.000	0%	NT or Decreasing	-1.6E-04
MW-7	Vinyl chloride	2014 -- 2017	2	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 8	Vinyl chloride	2005 -- 2017	27	27	100%	0.027	6.9	3	-66	0.914	9%	NT or Decreasing	-7.8E-05
MW 12	Vinyl chloride	2005 -- 2017	29	1	3%	0.0014 U	0.05 U	--	--	--	--	--	--
MW 14	Vinyl chloride	2005 -- 2017	29	29	100%	0.0087 J	0.51	0	-224	1.000	0%	NT or Decreasing	-5.4E-05
MW 15 [2][3]	Vinyl chloride	2005 -- 2017	9	7	78%	0.1 U	1.4	0	-25	0.994	1%	NT or Decreasing	-3.3E-04
MW 16	Vinyl chloride	2005 -- 2017	6	1	17%	0.001 U	0.03	--	--	--	--	--	--
MW 21 [2][3]	Vinyl chloride	2005 -- 2017	6	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 28	Vinyl chloride	2005 -- 2017	22	22	100%	0.057	0.22	0	121	0.000	100%	**Increasing**	3.1E-05
MW 31R	Vinyl chloride	2005 -- 2017	28	28	100%	0.63	13	1	-140	0.997	0%	NT or Decreasing	-0.001
MW 37	Vinyl chloride	2005 -- 2017	12	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 40	Vinyl chloride	2005 -- 2017	30	30	100%	0.18	2.1	0	-130	0.989	1%	NT or Decreasing	-1.7E-04
MW 41	Vinyl chloride	2005 -- 2017	29	29	100%	0.14 J	0.73	0	189	0.000	100%	**Increasing**	7.5E-05
MW 42	Vinyl chloride	2005 -- 2017	29	28	97%	0.084 J	0.26	0	36	0.254	75%	NT or Decreasing	0.0E+00
MW 46	Vinyl chloride	2005 -- 2017	12	0	0%	0.001 U	0.002 U	--	--	--	--	--	--
MW 49 [5]	Vinyl chloride	2005 -- 2016	18	18	100%	0.011 J	0.085	0	-81	0.999	0%	NT or Decreasing	-1.8E-05
MW 51 [1]	Vinyl chloride	2013 -- 2017	10	9	90%	0.005 U	0.0079	0	20	0.044	96%	**Increasing**	1.8E-06
MW 56	Vinyl chloride	2005 -- 2017	14	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 57	Vinyl chloride	2005 -- 2017	20	9	45%	0.00018 J	0.096	--	--	--	--	--	--
MW 58	Vinyl chloride	2005 -- 2017	15	13	87%	0.001 U	0.16	0	51	0.007	99%	**Increasing**	2.7E-05
MW 61	Vinyl chloride	2005 -- 2017	11	4	36%	0.00029 J	0.002 U	--	--	--	--	--	--
MW 64	Vinyl chloride	2005 -- 2017	15	14	93%	0.001 U	0.049	0	81	3.8E-05	100%	**Increasing**	1.0E-05
MW 65 [1]	Vinyl chloride	2005 -- 2017	12	12	100%	0.00074 J	1.2 J	0	-39	0.995	0%	NT or Decreasing	-1.9E-04
MW 66	Vinyl chloride	2005 -- 2017	24	24	100%	0.0031	0.33	0	147	1.4E-04	100%	**Increasing**	3.3E-05
MW 68	Vinyl chloride	2005 -- 2017	31	31	100%	0.097 J	0.43 J	0	-119	0.978	2%	NT or Decreasing	-1.9E-05
MW 75	Vinyl chloride	2005 -- 2017	12	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 76/MW 76R-17	Vinyl chloride	2005 -- 2017	10	2	20%	0.00048 J	0.00051 J	--	--	--	--	--	--
MW 79	Vinyl chloride	2005 -- 2017	20	20	100%	0.12	0.33	0	-33	0.852	15%	NT or Decreasing	-1.4E-05
MW 80	Vinyl chloride	2005 -- 2017	14	14	100%	0.0134	0.15	0	-17	0.809	19%	NT or Decreasing	-9.8E-06
MW 81	Vinyl chloride	2005 -- 2017	16	16	100%	0.0034	0.066	0	91	2.5E-05	100%	**Increasing**	1.1E-05
MW 82	Vinyl chloride	2005 -- 2017	13	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 83 [1]	Vinyl chloride	2011 -- 2017	7	7	100%	0.0003 J	0.0076	0	20	0.002	100%	**Increasing**	3.3E-06
MW 84	Vinyl chloride	2005 -- 2017	7	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 85	Vinyl chloride	2008 -- 2017	20	20	100%	0.25	0.84	0	-12	0.640	36%	NT or Decreasing	-1.5E-05
MW 86	Vinyl chloride	2010 -- 2017	8	0	0%	0.001 U	0.002 U	--	--	--	--	--	--
MW 88 [1]	Vinyl chloride	2014 -- 2017	4	4	100%	0.00034 J	0.0023	0	6	0.084	92%	**Increasing**	1.8E-06
MW 89-11	Vinyl chloride	2011 -- 2017	12	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW97R-16	Vinyl chloride	2016 -- 2017	2	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
Pond Intake [1][2]	Vinyl chloride	2005 -- 2017	28	28	100%	0.00038 J	0.008	0	137	0.004	100%	**Increasing**	8.5E-07
Pond North [1][2]	Vinyl chloride	2005 -- 2017	30	30	100%	0.00035 J	0.5	1	89	0.058	94%	**Increasing**	1.6E-06

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Location	Analyte	Date Range	Number of Samples	Number of Detects	Percent Detects	Minimum (mg/L)	Maximum (mg/L)	Number of Outliers	Mann-Kendall Trend test				Sen's Slope (units/day)
									Statistic	Probability	Confidence in trend	Conclusion	

Notes:

(1) Tend test was calculated using detected values only, due to elevated detection limits for non-detects or due to detection frequency close to 75 percent.

(2) Due to changes in sampling frequency, earlier sampling events were excluded from the Mann-Kendall trend test to provide a consistent sampling interval corresponding to current program.

(3) Due a gap in the montirong record, the assumption of data equally spaced through time was not met, therefore supplementary tests were performed (see text for details).

(4) One observation (0.5 U mg/L in April 2006) was excluded excluded due to ambiguous comparisons with data analyzed at lower detection limits.

(5) One observation (0.033 U mg/L in April 2015) was excluded excluded due to ambiguous comparisons with data analyzed at lower detection limits.

-- Trend test not performed due to infrequent detections (i.e., fewer than 75 percent detects).

NT or Decreasing - A statistically-significant (90 percent confidence) increasing trend was not found.
Analyte concentrations may be stable or decreasing over time. (Per approved Monitoring Plan,
a 1-sided test is performed).

Well MW 49 was not sampled during the 2017 monitoring event.

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Analyte	Location	Date	Result (mg/L)
Trichloroethene	MW-2	10/29/2013	0.001 U
Trichloroethene	MW-2	10/29/2013	0.001 U
Trichloroethene	MW-2	10/29/2014	0.001 U
Trichloroethene	MW-2	10/19/2015	0.001 U
Trichloroethene	MW-2	10/24/2016	0.001 U
Trichloroethene	MW-2	10/17/2017	0.001 U
Trichloroethene	MW 3	4/15/2014	8.6
Trichloroethene	MW 3	10/23/2014	4.3
Trichloroethene	MW 3	4/28/2015	8.3
Trichloroethene	MW 3	10/14/2015	5.1
Trichloroethene	MW 3	4/20/2016	12
Trichloroethene	MW 3	10/25/2016	4.9
Trichloroethene	MW 3	4/18/2017	11
Trichloroethene	MW 3	10/12/2017	4.4
Trichloroethene	MW-4	4/16/2014	0.47 J
Trichloroethene	MW-4	4/16/2014	0.52
Trichloroethene	MW-4	10/29/2014	1.7
Trichloroethene	MW-4	4/27/2015	0.5
Trichloroethene	MW-4	10/19/2015	1
Trichloroethene	MW-4	4/22/2016	0.8
Trichloroethene	MW-4	10/24/2016	1.7
Trichloroethene	MW-4	4/18/2017	1.1
Trichloroethene	MW-4	10/17/2017	2.4
Trichloroethene	MW-4	10/17/2017	2.1
Trichloroethene	MW-7	10/29/2014	0.001 U
Trichloroethene	MW-7	10/18/2017	0.001 U / 0.001 U
Trichloroethene	MW 8	4/15/2014	0.19 J
Trichloroethene	MW 8	10/23/2014	0.31
Trichloroethene	MW 8	4/28/2015	0.33
Trichloroethene	MW 8	10/14/2015	0.42
Trichloroethene	MW 8	4/20/2016	0.17 J
Trichloroethene	MW 8	4/20/2016	0.16 J
Trichloroethene	MW 8	10/21/2016	0.39
Trichloroethene	MW 8	4/18/2017	0.09 J
Trichloroethene	MW 8	10/12/2017	0.37
Trichloroethene	MW 12	4/11/2014	0.0017 J
Trichloroethene	MW 12	10/24/2014	0.0012 J
Trichloroethene	MW 12	10/24/2014	0.0013 J
Trichloroethene	MW 12	4/27/2015	0.0057 U
Trichloroethene	MW 12	10/9/2015	0.005 U
Trichloroethene	MW 12	4/21/2016	0.005 U
Trichloroethene	MW 12	10/25/2016	0.005 U
Trichloroethene	MW 12	4/19/2017	0.00085 J
Trichloroethene	MW 12	10/6/2017	0.0033 U
Trichloroethene	MW 14	4/15/2014	0.17 U
Trichloroethene	MW 14	4/15/2014	0.17 U
Trichloroethene	MW 14	10/24/2014	0.33 U
Trichloroethene	MW 14	4/29/2015	0.2 U
Trichloroethene	MW 14	4/29/2015	0.2 U
Trichloroethene	MW 14	10/12/2015	0.2 U
Trichloroethene	MW 14	4/19/2016	0.17 U
Trichloroethene	MW 14	10/25/2016	0.2 U
Trichloroethene	MW 14	4/18/2017	0.13 U

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Analyte	Location	Date	Result (mg/L)
Trichloroethene	MW 14	4/18/2017	0.13 U
Trichloroethene	MW 14	10/13/2017	0.2 U
Trichloroethene	MW 14	10/13/2017	0.2 U
Trichloroethene	MW 15	10/24/2013	8.3
Trichloroethene	MW 15	10/23/2014	5.5
Trichloroethene	MW 15	10/14/2015	3
Trichloroethene	MW 15	10/21/2016	2.5
Trichloroethene	MW 15	10/11/2017	4.1
Trichloroethene	MW 16	11/14/2013	0.001 U
Trichloroethene	MW 16	4/10/2014	0.001 U
Trichloroethene	MW 16	10/12/2015	0.001 U
Trichloroethene	MW 16	10/23/2016	0.001 U
Trichloroethene	MW 16	10/12/2017	0.0017
Trichloroethene	MW 21	10/14/2015	0.001 U
Trichloroethene	MW 21	10/21/2016	0.001 U
Trichloroethene	MW 21	10/18/2017	0.001 U
Trichloroethene	MW 28	4/15/2014	0.014 U
Trichloroethene	MW 28	4/15/2014	0.014 U
Trichloroethene	MW 28	10/27/2014	0.02 U
Trichloroethene	MW 28	4/29/2015	0.025 U
Trichloroethene	MW 28	10/12/2015	0.04 U
Trichloroethene	MW 28	4/19/2016	0.033 U
Trichloroethene	MW 28	10/22/2016	0.05 U
Trichloroethene	MW 28	4/19/2017	0.025 U
Trichloroethene	MW 28	10/9/2017	0.04 U
Trichloroethene	MW 31R	4/15/2014	0.12 J
Trichloroethene	MW 31R	10/27/2014	0.04 J
Trichloroethene	MW 31R	4/28/2015	0.5 U
Trichloroethene	MW 31R	10/14/2015	0.25 U
Trichloroethene	MW 31R	4/20/2016	0.5 U
Trichloroethene	MW 31R	10/21/2016	0.71 U
Trichloroethene	MW 31R	10/21/2016	0.71 U
Trichloroethene	MW 31R	4/19/2017	0.63 U
Trichloroethene	MW 31R	10/12/2017	0.83 U
Trichloroethene	MW 37	10/25/2013	0.001 U
Trichloroethene	MW 37	10/22/2014	0.001 U
Trichloroethene	MW 37	10/9/2015	0.001 U
Trichloroethene	MW 37	10/23/2016	0.001 U
Trichloroethene	MW 37	10/16/2017	0.001 U
Trichloroethene	MW 40	4/14/2014	0.22 J
Trichloroethene	MW 40	10/27/2014	0.21 J
Trichloroethene	MW 40	4/28/2015	0.32 J
Trichloroethene	MW 40	10/13/2015	0.26
Trichloroethene	MW 40	4/19/2016	0.31
Trichloroethene	MW 40	10/20/2016	0.16 J
Trichloroethene	MW 40	4/19/2017	0.4
Trichloroethene	MW 40	10/10/2017	0.36
Trichloroethene	MW 40	10/10/2017	0.35
Trichloroethene	MW 41	4/14/2014	0.2 U
Trichloroethene	MW 41	10/23/2014	0.63 U
Trichloroethene	MW 41	4/29/2015	0.33 U
Trichloroethene	MW 41	10/12/2015	0.33 U
Trichloroethene	MW 41	10/12/2015	0.25 U

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Analyte	Location	Date	Result (mg/L)
Trichloroethene	MW 41	4/19/2016	0.2 U
Trichloroethene	MW 41	10/23/2016	0.33 U
Trichloroethene	MW 41	4/19/2017	0.2 U
Trichloroethene	MW 41	10/9/2017	0.2 U
Trichloroethene	MW 42	4/14/2014	0.17 U
Trichloroethene	MW 42	10/23/2014	0.2 U
Trichloroethene	MW 42	4/29/2015	0.2 U
Trichloroethene	MW 42	10/12/2015	0.17 U
Trichloroethene	MW 42	4/19/2016	0.17 U
Trichloroethene	MW 42	10/23/2016	0.2 U
Trichloroethene	MW 42	4/19/2017	0.035 J
Trichloroethene	MW 42	10/9/2017	0.1 U
Trichloroethene	MW 46	10/16/2017	0.001 U
Trichloroethene	MW 51	4/16/2014	0.16
Trichloroethene	MW 51	10/21/2014	0.18
Trichloroethene	MW 51	4/28/2015	0.14
Trichloroethene	MW 51	4/28/2015	0.16
Trichloroethene	MW 51	10/9/2015	0.16
Trichloroethene	MW 51	4/20/2016	0.15
Trichloroethene	MW 51	10/23/2016	0.14
Trichloroethene	MW 51	4/18/2017	0.14
Trichloroethene	MW 51	10/16/2017	0.15
Trichloroethene	MW 56	10/29/2013	0.001 U
Trichloroethene	MW 56	10/29/2014	0.001 U
Trichloroethene	MW 56	10/29/2014	0.001 U
Trichloroethene	MW 56	10/19/2015	0.001 U
Trichloroethene	MW 56	10/24/2016	0.001 U
Trichloroethene	MW 56	10/18/2017	0.001 U
Trichloroethene	MW 57	10/18/2017	0.0033 U
Trichloroethene	MW 58	10/20/2015	0.0057 U
Trichloroethene	MW 58	10/20/2015	0.005 U
Trichloroethene	MW 58	10/25/2016	0.05 U
Trichloroethene	MW 58	10/17/2017	0.05 U
Trichloroethene	MW 61	10/23/2013	0.001 U
Trichloroethene	MW 61	10/21/2014	0.001 U
Trichloroethene	MW 61	10/9/2015	0.001 U
Trichloroethene	MW 61	10/22/2016	0.001 U
Trichloroethene	MW 61	10/9/2017	0.001 U
Trichloroethene	MW 64	10/22/2013	0.0017 U
Trichloroethene	MW 64	10/28/2014	0.0067 U
Trichloroethene	MW 64	10/13/2015	0.01 U
Trichloroethene	MW 64	10/20/2016	0.0025 U
Trichloroethene	MW 64	10/10/2017	0.0067 U
Trichloroethene	MW 65	10/22/2013	0.0057 U
Trichloroethene	MW 65	10/22/2014	0.002 U
Trichloroethene	MW 65	10/22/2014	0.0017 U
Trichloroethene	MW 65	10/8/2015	0.002 U
Trichloroethene	MW 65	10/19/2016	0.001 U
Trichloroethene	MW 65	10/6/2017	0.001 U
Trichloroethene	MW 66	4/11/2014	0.011 U
Trichloroethene	MW 66	10/27/2014	0.02 U
Trichloroethene	MW 66	4/27/2015	0.025 U
Trichloroethene	MW 66	10/13/2015	0.04 U

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Trichloroethene	MW 66	4/20/2016	0.05 U
Trichloroethene	MW 66	10/20/2016	0.1 U
Trichloroethene	MW 66	4/19/2017	0.063 U
Trichloroethene	MW 66	10/10/2017	0.067 U
Trichloroethene	MW 68	4/10/2014	1.8
Trichloroethene	MW 68	10/23/2014	1.5
Trichloroethene	MW 68	4/28/2015	1.5
Trichloroethene	MW 68	4/28/2015	1.5
Trichloroethene	MW 68	10/13/2015	1.4
Trichloroethene	MW 68	10/13/2015	1.3
Trichloroethene	MW 68	4/19/2016	1
Trichloroethene	MW 68	10/20/2016	1.7
Trichloroethene	MW 68	4/17/2017	1.5
Trichloroethene	MW 68	10/11/2017	1.6
Trichloroethene	MW 75	10/23/2013	0.001 U
Trichloroethene	MW 75	10/21/2014	0.001 U
Trichloroethene	MW 75	10/23/2016	0.001 U
Trichloroethene	MW 75	10/16/2017	0.001 U
Trichloroethene	MW 76/MW 76R-17	10/23/2013	0.001 U
Trichloroethene	MW 76/MW 76R-17	10/23/2013	0.001 U
Trichloroethene	MW 76/MW 76R-17	10/21/2014	0.001 U
Trichloroethene	MW 76/MW 76R-17	10/18/2017	0.001 U
Trichloroethene	MW 79	4/15/2014	0.1 U
Trichloroethene	MW 79	10/28/2014	0.1 U
Trichloroethene	MW 79	10/28/2014	0.1 U
Trichloroethene	MW 79	4/29/2015	0.1 U
Trichloroethene	MW 79	10/13/2015	0.083 U
Trichloroethene	MW 79	4/19/2016	0.1 U
Trichloroethene	MW 79	10/21/2016	0.1 U
Trichloroethene	MW 79	4/17/2017	0.063 U
Trichloroethene	MW 79	4/17/2017	0.13 U
Trichloroethene	MW 79	10/11/2017	0.05 U
Trichloroethene	MW 80	10/22/2013	0.0017 U
Trichloroethene	MW 80	10/24/2014	0.001 U
Trichloroethene	MW 80	10/8/2015	0.0017 U
Trichloroethene	MW 80	10/22/2016	0.0018 U
Trichloroethene	MW 80	10/6/2017	0.002 U
Trichloroethene	MW 81	10/22/2013	0.005 U
Trichloroethene	MW 81	10/22/2014	0.0067 U
Trichloroethene	MW 81	10/8/2015	0.008 U
Trichloroethene	MW 81	10/22/2016	0.005 U
Trichloroethene	MW 81	10/6/2017	0.0033 U
Trichloroethene	MW 82	10/23/2013	0.00066 J
Trichloroethene	MW 82	10/24/2014	0.001 U
Trichloroethene	MW 82	10/12/2015	0.001 U
Trichloroethene	MW 82	10/23/2016	0.001 U
Trichloroethene	MW 82	10/12/2017	0.00097 J
Trichloroethene	MW 82	10/12/2017	0.00096 J
Trichloroethene	MW 83	10/24/2013	0.00023 J
Trichloroethene	MW 83	10/22/2014	0.001 U
Trichloroethene	MW 83	10/9/2015	0.001 U
Trichloroethene	MW 83	10/22/2016	0.001 U
Trichloroethene	MW 83	10/22/2016	0.001 U

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Analyte	Location	Date	Result (mg/L)
Trichloroethene	MW 83	10/11/2017	0.00045 J
Trichloroethene	MW 84	4/10/2013	0.001 U
Trichloroethene	MW 84	11/14/2013	0.001 U
Trichloroethene	MW 84	4/10/2014	0.001 U
Trichloroethene	MW 84	10/12/2015	0.001 U
Trichloroethene	MW 84	10/24/2016	0.001 U
Trichloroethene	MW 84	10/13/2017	0.001 U
Trichloroethene	MW 85	4/16/2014	0.25 U
Trichloroethene	MW 85	10/29/2014	0.25 U
Trichloroethene	MW 85	4/27/2015	0.5 U
Trichloroethene	MW 85	10/19/2015	0.33 U
Trichloroethene	MW 85	4/22/2016	0.5 U
Trichloroethene	MW 85	4/22/2016	0.5 U
Trichloroethene	MW 85	10/24/2016	0.56 U
Trichloroethene	MW 85	4/18/2017	0.33 U
Trichloroethene	MW 85	10/17/2017	0.2 U
Trichloroethene	MW 86	10/22/2013	0.001 U
Trichloroethene	MW 86	10/22/2014	0.001 U
Trichloroethene	MW 86	10/8/2015	0.001 U
Trichloroethene	MW 86	10/22/2016	0.001 U
Trichloroethene	MW 86	10/13/2017	0.001 U
Trichloroethene	MW 88	10/22/2013	0.001 U
Trichloroethene	MW 88	10/22/2014	0.001 U
Trichloroethene	MW 88	10/8/2015	0.001 U
Trichloroethene	MW 88	10/8/2015	0.001 U
Trichloroethene	MW 88	10/22/2016	0.001 U
Trichloroethene	MW 88	10/22/2016	0.001 U
Trichloroethene	MW 88	10/13/2017	0.001 U
Trichloroethene	MW 89-11	4/16/2014	0.00032 J
Trichloroethene	MW 89-11	10/28/2014	0.001 U
Trichloroethene	MW 89-11	4/28/2015	0.001 U
Trichloroethene	MW 89-11	10/15/2015	0.001 U
Trichloroethene	MW 89-11	4/20/2016	0.001 U
Trichloroethene	MW 89-11	4/20/2016	0.001 U
Trichloroethene	MW 89-11	10/25/2016	0.001 U
Trichloroethene	MW 89-11	10/25/2016	0.001 U
Trichloroethene	MW 89-11	4/19/2017	0.00036 J
Trichloroethene	MW 89-11	10/17/2017	0.001 U
Trichloroethene	MW97R-16	10/25/2016	0.001 U
Trichloroethene	MW97R-16	10/18/2017	0.001 U
Trichloroethene	Pond Intake	7/10/2015	0.0033 U
Trichloroethene	Pond Intake	7/10/2015	0.004 U
Trichloroethene	Pond Intake	10/20/2015	0.001 U
Trichloroethene	Pond Intake	4/22/2016	0.0025 U
Trichloroethene	Pond Intake	7/19/2016	0.0017 U
Trichloroethene	Pond Intake	10/24/2016	0.0018 U
Trichloroethene	Pond Intake	10/24/2016	0.002 U
Trichloroethene	Pond Intake	4/18/2017	0.0017 U
Trichloroethene	Pond Intake	7/12/2017	0.0073
Trichloroethene	Pond Intake	10/19/2017	0.002 U
Trichloroethene	Pond North	7/10/2015	0.0033 U
Trichloroethene	Pond North	10/20/2015	0.0014 U
Trichloroethene	Pond North	4/22/2016	0.005 U

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Trichloroethene	Pond North	7/19/2016	0.0025 U
Trichloroethene	Pond North	7/19/2016	0.0025 U
Trichloroethene	Pond North	10/24/2016	0.033 U
Trichloroethene	Pond North	4/18/2017	0.0067 U
Trichloroethene	Pond North	4/18/2017	0.0067 U
Trichloroethene	Pond North	7/12/2017	0.0071
Trichloroethene	Pond North	7/12/2017	0.0073
Trichloroethene	Pond North	10/19/2017	0.01 U
cis-1,2-Dichloroethene	MW-2	10/29/2013	0.001 U
cis-1,2-Dichloroethene	MW-2	10/29/2013	0.001 U
cis-1,2-Dichloroethene	MW-2	10/29/2014	0.001 U
cis-1,2-Dichloroethene	MW-2	10/19/2015	0.001 U
cis-1,2-Dichloroethene	MW-2	10/24/2016	0.001 U
cis-1,2-Dichloroethene	MW-2	10/17/2017	0.0014
cis-1,2-Dichloroethene	MW 3	4/15/2014	4.7
cis-1,2-Dichloroethene	MW 3	10/23/2014	1
cis-1,2-Dichloroethene	MW 3	4/28/2015	4.5
cis-1,2-Dichloroethene	MW 3	10/14/2015	1.4
cis-1,2-Dichloroethene	MW 3	4/20/2016	7.4
cis-1,2-Dichloroethene	MW 3	10/25/2016	1.9
cis-1,2-Dichloroethene	MW 3	4/18/2017	7.4
cis-1,2-Dichloroethene	MW 3	10/12/2017	1.6
cis-1,2-Dichloroethene	MW-4	4/16/2014	13
cis-1,2-Dichloroethene	MW-4	4/16/2014	13
cis-1,2-Dichloroethene	MW-4	10/29/2014	12
cis-1,2-Dichloroethene	MW-4	4/27/2015	10
cis-1,2-Dichloroethene	MW-4	10/19/2015	12
cis-1,2-Dichloroethene	MW-4	4/22/2016	9.4
cis-1,2-Dichloroethene	MW-4	10/24/2016	7.9
cis-1,2-Dichloroethene	MW-4	4/18/2017	8.6
cis-1,2-Dichloroethene	MW-4	10/17/2017	8.6
cis-1,2-Dichloroethene	MW-4	10/17/2017	8
cis-1,2-Dichloroethene	MW-7	10/29/2014	0.001 U
cis-1,2-Dichloroethene	MW-7	10/18/2017	0.001 U / 0.001 U
cis-1,2-Dichloroethene	MW 8	4/15/2014	9.3
cis-1,2-Dichloroethene	MW 8	10/23/2014	4.4
cis-1,2-Dichloroethene	MW 8	4/28/2015	3.8
cis-1,2-Dichloroethene	MW 8	10/14/2015	4.8
cis-1,2-Dichloroethene	MW 8	4/20/2016	4.9
cis-1,2-Dichloroethene	MW 8	4/20/2016	4.9
cis-1,2-Dichloroethene	MW 8	10/21/2016	4.3
cis-1,2-Dichloroethene	MW 8	4/18/2017	3.1
cis-1,2-Dichloroethene	MW 8	10/12/2017	4
cis-1,2-Dichloroethene	MW 12	4/11/2014	0.21
cis-1,2-Dichloroethene	MW 12	10/24/2014	0.15
cis-1,2-Dichloroethene	MW 12	10/24/2014	0.16
cis-1,2-Dichloroethene	MW 12	4/27/2015	0.13
cis-1,2-Dichloroethene	MW 12	10/9/2015	0.08
cis-1,2-Dichloroethene	MW 12	4/21/2016	0.13
cis-1,2-Dichloroethene	MW 12	10/25/2016	0.12
cis-1,2-Dichloroethene	MW 12	4/19/2017	0.11
cis-1,2-Dichloroethene	MW 12	10/6/2017	0.1

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cis-1,2-Dichloroethene	MW 14	4/15/2014	5.7
cis-1,2-Dichloroethene	MW 14	4/15/2014	5.5
cis-1,2-Dichloroethene	MW 14	10/24/2014	4.9
cis-1,2-Dichloroethene	MW 14	4/29/2015	4.5
cis-1,2-Dichloroethene	MW 14	4/29/2015	4.8
cis-1,2-Dichloroethene	MW 14	10/12/2015	4.7
cis-1,2-Dichloroethene	MW 14	4/19/2016	4.4
cis-1,2-Dichloroethene	MW 14	10/25/2016	4.4
cis-1,2-Dichloroethene	MW 14	4/18/2017	4.1
cis-1,2-Dichloroethene	MW 14	4/18/2017	3.9
cis-1,2-Dichloroethene	MW 14	10/13/2017	4.1
cis-1,2-Dichloroethene	MW 14	10/13/2017	4
cis-1,2-Dichloroethene	MW 15	10/24/2013	12
cis-1,2-Dichloroethene	MW 15	10/23/2014	6.3
cis-1,2-Dichloroethene	MW 15	10/14/2015	4.4
cis-1,2-Dichloroethene	MW 15	10/21/2016	1.7
cis-1,2-Dichloroethene	MW 15	10/11/2017	3.5
cis-1,2-Dichloroethene	MW 16	11/14/2013	0.00031 J
cis-1,2-Dichloroethene	MW 16	4/10/2014	0.001 U
cis-1,2-Dichloroethene	MW 16	10/12/2015	0.00026 J
cis-1,2-Dichloroethene	MW 16	10/23/2016	0.001 U
cis-1,2-Dichloroethene	MW 16	10/12/2017	0.0019
cis-1,2-Dichloroethene	MW 21	10/14/2015	0.001 U
cis-1,2-Dichloroethene	MW 21	10/21/2016	0.001 U
cis-1,2-Dichloroethene	MW 21	10/18/2017	0.001 U
cis-1,2-Dichloroethene	MW 28	4/15/2014	0.57
cis-1,2-Dichloroethene	MW 28	4/15/2014	0.56
cis-1,2-Dichloroethene	MW 28	10/27/2014	0.56
cis-1,2-Dichloroethene	MW 28	4/29/2015	0.6
cis-1,2-Dichloroethene	MW 28	10/12/2015	0.86
cis-1,2-Dichloroethene	MW 28	4/19/2016	0.77
cis-1,2-Dichloroethene	MW 28	10/22/2016	0.86
cis-1,2-Dichloroethene	MW 28	4/19/2017	0.85
cis-1,2-Dichloroethene	MW 28	10/9/2017	0.92
cis-1,2-Dichloroethene	MW 31R	4/15/2014	12
cis-1,2-Dichloroethene	MW 31R	10/27/2014	7.3
cis-1,2-Dichloroethene	MW 31R	4/28/2015	11
cis-1,2-Dichloroethene	MW 31R	10/14/2015	6.6
cis-1,2-Dichloroethene	MW 31R	4/20/2016	15
cis-1,2-Dichloroethene	MW 31R	10/21/2016	18
cis-1,2-Dichloroethene	MW 31R	10/21/2016	18
cis-1,2-Dichloroethene	MW 31R	4/19/2017	18
cis-1,2-Dichloroethene	MW 31R	10/12/2017	69
cis-1,2-Dichloroethene	MW 37	10/25/2013	0.0011
cis-1,2-Dichloroethene	MW 37	10/22/2014	0.001 U
cis-1,2-Dichloroethene	MW 37	10/9/2015	0.001 U
cis-1,2-Dichloroethene	MW 37	10/23/2016	0.001 U
cis-1,2-Dichloroethene	MW 37	10/16/2017	0.001 U
cis-1,2-Dichloroethene	MW 40	4/14/2014	11
cis-1,2-Dichloroethene	MW 40	10/27/2014	7.2
cis-1,2-Dichloroethene	MW 40	4/28/2015	7.5
cis-1,2-Dichloroethene	MW 40	10/13/2015	6.3
cis-1,2-Dichloroethene	MW 40	4/19/2016	7

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cis-1,2-Dichloroethene	MW 40	10/20/2016	5
cis-1,2-Dichloroethene	MW 40	4/19/2017	5.4
cis-1,2-Dichloroethene	MW 40	10/10/2017	5.4
cis-1,2-Dichloroethene	MW 40	10/10/2017	5.5
cis-1,2-Dichloroethene	MW 41	4/14/2014	7.6
cis-1,2-Dichloroethene	MW 41	10/23/2014	7.3
cis-1,2-Dichloroethene	MW 41	4/29/2015	6.4
cis-1,2-Dichloroethene	MW 41	10/12/2015	6.5
cis-1,2-Dichloroethene	MW 41	10/12/2015	6.2
cis-1,2-Dichloroethene	MW 41	4/19/2016	6.4
cis-1,2-Dichloroethene	MW 41	10/23/2016	5.2
cis-1,2-Dichloroethene	MW 41	4/19/2017	6
cis-1,2-Dichloroethene	MW 41	10/9/2017	5.4
cis-1,2-Dichloroethene	MW 42	4/14/2014	5.6
cis-1,2-Dichloroethene	MW 42	10/23/2014	4.3
cis-1,2-Dichloroethene	MW 42	4/29/2015	4.1
cis-1,2-Dichloroethene	MW 42	10/12/2015	4.4
cis-1,2-Dichloroethene	MW 42	4/19/2016	4.1
cis-1,2-Dichloroethene	MW 42	10/23/2016	3.2
cis-1,2-Dichloroethene	MW 42	4/19/2017	2.9
cis-1,2-Dichloroethene	MW 42	10/9/2017	3.7
cis-1,2-Dichloroethene	MW 46	10/25/2013	0.001 U
cis-1,2-Dichloroethene	MW 46	10/22/2014	0.001 U
cis-1,2-Dichloroethene	MW 46	10/9/2015	0.001 U
cis-1,2-Dichloroethene	MW 46	10/23/2016	0.001 U
cis-1,2-Dichloroethene	MW 46	10/16/2017	0.001 U
cis-1,2-Dichloroethene	MW 49	4/14/2014	0.001 U
cis-1,2-Dichloroethene	MW 49	10/27/2014	0.78
cis-1,2-Dichloroethene	MW 49	4/28/2015	0.71
cis-1,2-Dichloroethene	MW 49	10/13/2015	0.86
cis-1,2-Dichloroethene	MW 49	4/21/2016	0.83
cis-1,2-Dichloroethene	MW 51	4/16/2014	0.0071
cis-1,2-Dichloroethene	MW 51	10/21/2014	0.0077
cis-1,2-Dichloroethene	MW 51	4/28/2015	0.0078
cis-1,2-Dichloroethene	MW 51	4/28/2015	0.0077
cis-1,2-Dichloroethene	MW 51	10/9/2015	0.0083
cis-1,2-Dichloroethene	MW 51	4/20/2016	0.011
cis-1,2-Dichloroethene	MW 51	10/23/2016	0.012
cis-1,2-Dichloroethene	MW 51	4/18/2017	0.015
cis-1,2-Dichloroethene	MW 51	10/16/2017	0.028
cis-1,2-Dichloroethene	MW 56	10/29/2013	0.001 U
cis-1,2-Dichloroethene	MW 56	10/29/2014	0.00020 J
cis-1,2-Dichloroethene	MW 56	10/29/2014	0.00021 J
cis-1,2-Dichloroethene	MW 56	10/19/2015	0.001 U
cis-1,2-Dichloroethene	MW 56	10/24/2016	0.001 U
cis-1,2-Dichloroethene	MW 56	10/18/2017	0.001 U
cis-1,2-Dichloroethene	MW 57	10/29/2013	0.001 U
cis-1,2-Dichloroethene	MW 57	10/29/2014	0.001 U
cis-1,2-Dichloroethene	MW 57	10/19/2015	0.001 U
cis-1,2-Dichloroethene	MW 57	10/24/2016	0.0042
cis-1,2-Dichloroethene	MW 57	10/18/2017	0.0033 U
cis-1,2-Dichloroethene	MW 58	10/29/2013	0.002 U
cis-1,2-Dichloroethene	MW 58	10/29/2014	0.0033 U

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cis-1,2-Dichloroethene	MW 58	10/20/2015	0.028
cis-1,2-Dichloroethene	MW 58	10/20/2015	0.028
cis-1,2-Dichloroethene	MW 58	10/25/2016	1.1
cis-1,2-Dichloroethene	MW 58	10/17/2017	2.2
cis-1,2-Dichloroethene	MW 61	10/23/2013	0.001 U
cis-1,2-Dichloroethene	MW 61	10/21/2014	0.001 U
cis-1,2-Dichloroethene	MW 61	10/9/2015	0.001 U
cis-1,2-Dichloroethene	MW 61	10/22/2016	0.00035 J
cis-1,2-Dichloroethene	MW 61	10/9/2017	0.001 U
cis-1,2-Dichloroethene	MW 64	10/22/2013	0.025
cis-1,2-Dichloroethene	MW 64	10/28/2014	0.22
cis-1,2-Dichloroethene	MW 64	10/13/2015	0.25
cis-1,2-Dichloroethene	MW 64	10/20/2016	0.062
cis-1,2-Dichloroethene	MW 64	10/10/2017	0.23
cis-1,2-Dichloroethene	MW 65	10/22/2013	0.21
cis-1,2-Dichloroethene	MW 65	10/22/2014	0.053
cis-1,2-Dichloroethene	MW 65	10/22/2014	0.064
cis-1,2-Dichloroethene	MW 65	10/8/2015	0.051
cis-1,2-Dichloroethene	MW 65	10/19/2016	0.028
cis-1,2-Dichloroethene	MW 65	10/6/2017	0.02
cis-1,2-Dichloroethene	MW 66	4/11/2014	0.28
cis-1,2-Dichloroethene	MW 66	10/27/2014	0.53
cis-1,2-Dichloroethene	MW 66	4/27/2015	0.45
cis-1,2-Dichloroethene	MW 66	10/13/2015	1
cis-1,2-Dichloroethene	MW 66	4/20/2016	1.1
cis-1,2-Dichloroethene	MW 66	10/20/2016	1.8
cis-1,2-Dichloroethene	MW 66	4/19/2017	2.2
cis-1,2-Dichloroethene	MW 66	10/10/2017	3
cis-1,2-Dichloroethene	MW 68	4/10/2014	6.3
cis-1,2-Dichloroethene	MW 68	10/23/2014	5.5
cis-1,2-Dichloroethene	MW 68	4/28/2015	5.8
cis-1,2-Dichloroethene	MW 68	4/28/2015	5.9
cis-1,2-Dichloroethene	MW 68	10/13/2015	5.1
cis-1,2-Dichloroethene	MW 68	10/13/2015	4.9
cis-1,2-Dichloroethene	MW 68	4/19/2016	4.5
cis-1,2-Dichloroethene	MW 68	10/20/2016	3.5
cis-1,2-Dichloroethene	MW 68	4/17/2017	3.7
cis-1,2-Dichloroethene	MW 68	10/11/2017	4.2
cis-1,2-Dichloroethene	MW 75	10/23/2013	0.001 U
cis-1,2-Dichloroethene	MW 75	10/21/2014	0.001 U
cis-1,2-Dichloroethene	MW 75	10/23/2016	0.0007 J
cis-1,2-Dichloroethene	MW 75	10/16/2017	0.001 U
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/23/2013	0.00036 J
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/23/2013	0.00043 J
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/21/2014	0.00043 J
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/18/2017	0.0027
cis-1,2-Dichloroethene	MW 79	4/15/2014	2.9
cis-1,2-Dichloroethene	MW 79	10/28/2014	2.5
cis-1,2-Dichloroethene	MW 79	10/28/2014	2.4
cis-1,2-Dichloroethene	MW 79	4/29/2015	2.4
cis-1,2-Dichloroethene	MW 79	10/13/2015	2
cis-1,2-Dichloroethene	MW 79	4/19/2016	2.4
cis-1,2-Dichloroethene	MW 79	10/21/2016	2.1

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cis-1,2-Dichloroethene	MW 79	4/17/2017	2.3
cis-1,2-Dichloroethene	MW 79	4/17/2017	2.3
cis-1,2-Dichloroethene	MW 79	10/11/2017	2.5
cis-1,2-Dichloroethene	MW 80	10/22/2013	0.0017 U
cis-1,2-Dichloroethene	MW 80	10/24/2014	0.001 U
cis-1,2-Dichloroethene	MW 80	10/8/2015	0.0012 J
cis-1,2-Dichloroethene	MW 80	10/22/2016	0.025
cis-1,2-Dichloroethene	MW 80	10/6/2017	0.0086
cis-1,2-Dichloroethene	MW 81	10/22/2013	0.15
cis-1,2-Dichloroethene	MW 81	10/22/2014	0.17
cis-1,2-Dichloroethene	MW 81	10/8/2015	0.19
cis-1,2-Dichloroethene	MW 81	10/22/2016	0.077
cis-1,2-Dichloroethene	MW 81	10/6/2017	0.096
cis-1,2-Dichloroethene	MW 82	10/23/2013	0.0022
cis-1,2-Dichloroethene	MW 82	10/24/2014	0.001 U
cis-1,2-Dichloroethene	MW 82	10/12/2015	0.00041 J
cis-1,2-Dichloroethene	MW 82	10/23/2016	0.001 U
cis-1,2-Dichloroethene	MW 82	10/12/2017	0.002
cis-1,2-Dichloroethene	MW 82	10/12/2017	0.002
cis-1,2-Dichloroethene	MW 83	10/24/2013	0.00032 J
cis-1,2-Dichloroethene	MW 83	10/22/2014	0.001 U
cis-1,2-Dichloroethene	MW 83	10/9/2015	0.001 U
cis-1,2-Dichloroethene	MW 83	10/22/2016	0.001 U
cis-1,2-Dichloroethene	MW 83	10/22/2016	0.001 U
cis-1,2-Dichloroethene	MW 83	10/11/2017	0.00041 J
cis-1,2-Dichloroethene	MW 84	4/10/2013	0.001 U
cis-1,2-Dichloroethene	MW 84	11/14/2013	0.001 U
cis-1,2-Dichloroethene	MW 84	4/10/2014	0.001 U
cis-1,2-Dichloroethene	MW 84	10/12/2015	0.00027 J
cis-1,2-Dichloroethene	MW 84	10/24/2016	0.001
cis-1,2-Dichloroethene	MW 84	10/13/2017	0.001 U
cis-1,2-Dichloroethene	MW 85	4/16/2014	7.4
cis-1,2-Dichloroethene	MW 85	10/29/2014	7.5
cis-1,2-Dichloroethene	MW 85	4/27/2015	9.5
cis-1,2-Dichloroethene	MW 85	10/19/2015	10
cis-1,2-Dichloroethene	MW 85	4/22/2016	9.9
cis-1,2-Dichloroethene	MW 85	4/22/2016	10
cis-1,2-Dichloroethene	MW 85	10/24/2016	8.4
cis-1,2-Dichloroethene	MW 85	4/18/2017	8.4
cis-1,2-Dichloroethene	MW 85	10/17/2017	8.6
cis-1,2-Dichloroethene	MW 86	10/22/2013	0.001 U
cis-1,2-Dichloroethene	MW 86	10/22/2014	0.001 U
cis-1,2-Dichloroethene	MW 86	10/8/2015	0.001 U
cis-1,2-Dichloroethene	MW 86	10/22/2016	0.001 U
cis-1,2-Dichloroethene	MW 86	10/13/2017	0.001 U
cis-1,2-Dichloroethene	MW 88	10/22/2013	0.001 U
cis-1,2-Dichloroethene	MW 88	10/22/2014	0.001 U
cis-1,2-Dichloroethene	MW 88	10/8/2015	0.001 U
cis-1,2-Dichloroethene	MW 88	10/8/2015	0.001 U
cis-1,2-Dichloroethene	MW 88	10/22/2016	0.001 U
cis-1,2-Dichloroethene	MW 88	10/22/2016	0.001 U
cis-1,2-Dichloroethene	MW 88	10/13/2017	0.001 U
cis-1,2-Dichloroethene	MW 89-11	4/16/2014	0.001 U

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Analyte	Location	Date	Result (mg/L)
cis-1,2-Dichloroethene	MW 89-11	10/28/2014	0.00055 J
cis-1,2-Dichloroethene	MW 89-11	4/28/2015	0.0003 J
cis-1,2-Dichloroethene	MW 89-11	10/15/2015	0.001 U
cis-1,2-Dichloroethene	MW 89-11	4/20/2016	0.001 U
cis-1,2-Dichloroethene	MW 89-11	4/20/2016	0.001 U
cis-1,2-Dichloroethene	MW 89-11	10/25/2016	0.0003 J
cis-1,2-Dichloroethene	MW 89-11	10/25/2016	0.001 U
cis-1,2-Dichloroethene	MW 89-11	4/19/2017	0.0033 U
cis-1,2-Dichloroethene	MW 89-11	10/17/2017	0.00059 J
cis-1,2-Dichloroethene	MW97R-16	10/25/2016	0.0012
cis-1,2-Dichloroethene	MW97R-16	10/18/2017	0.001 U
cis-1,2-Dichloroethene	Pond Intake	7/10/2015	0.1
cis-1,2-Dichloroethene	Pond Intake	7/10/2015	0.11
cis-1,2-Dichloroethene	Pond Intake	10/20/2015	0.037
cis-1,2-Dichloroethene	Pond Intake	4/22/2016	0.077
cis-1,2-Dichloroethene	Pond Intake	7/19/2016	0.055
cis-1,2-Dichloroethene	Pond Intake	10/24/2016	0.036
cis-1,2-Dichloroethene	Pond Intake	10/24/2016	0.034
cis-1,2-Dichloroethene	Pond Intake	4/18/2017	0.059
cis-1,2-Dichloroethene	Pond Intake	7/12/2017	0.11
cis-1,2-Dichloroethene	Pond Intake	10/19/2017	0.052
cis-1,2-Dichloroethene	Pond North	7/10/2015	0.093
cis-1,2-Dichloroethene	Pond North	10/20/2015	0.035
cis-1,2-Dichloroethene	Pond North	4/22/2016	0.12
cis-1,2-Dichloroethene	Pond North	7/19/2016	0.09
cis-1,2-Dichloroethene	Pond North	7/19/2016	0.081
cis-1,2-Dichloroethene	Pond North	10/24/2016	0.5
cis-1,2-Dichloroethene	Pond North	4/18/2017	0.21
cis-1,2-Dichloroethene	Pond North	4/18/2017	0.2
cis-1,2-Dichloroethene	Pond North	7/12/2017	0.11
cis-1,2-Dichloroethene	Pond North	7/12/2017	0.1
cis-1,2-Dichloroethene	Pond North	10/19/2017	0.35
Vinyl chloride	MW-2	10/29/2013	0.001 U
Vinyl chloride	MW-2	10/29/2013	0.001 U
Vinyl chloride	MW-2	10/29/2014	0.001 U
Vinyl chloride	MW-2	10/19/2015	0.001 U
Vinyl chloride	MW-2	10/24/2016	0.001 U
Vinyl chloride	MW-2	10/17/2017	0.001 U
Vinyl chloride	MW 3	4/15/2014	0.33 U
Vinyl chloride	MW 3	10/23/2014	0.055 J
Vinyl chloride	MW 3	4/28/2015	0.33 U
Vinyl chloride	MW 3	10/14/2015	0.062 J
Vinyl chloride	MW 3	4/20/2016	0.5 U
Vinyl chloride	MW 3	10/25/2016	0.25 U
Vinyl chloride	MW 3	4/18/2017	0.25 U
Vinyl chloride	MW 3	10/12/2017	0.1 U
Vinyl chloride	MW-4	4/16/2014	0.57
Vinyl chloride	MW-4	4/16/2014	0.58
Vinyl chloride	MW-4	10/29/2014	0.41 J
Vinyl chloride	MW-4	4/27/2015	0.42 J
Vinyl chloride	MW-4	10/19/2015	0.47
Vinyl chloride	MW-4	4/22/2016	0.53

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Vinyl chloride	MW-4	10/24/2016	0.63
Vinyl chloride	MW-4	4/18/2017	0.84
Vinyl chloride	MW-4	10/17/2017	0.73
Vinyl chloride	MW-4	10/17/2017	0.66
Vinyl chloride	MW-7	10/29/2014	0.001 U
Vinyl chloride	MW-7	10/18/2017	0.001 U / 0.001 U
Vinyl chloride	MW 8	4/15/2014	2.8
Vinyl chloride	MW 8	10/23/2014	1.7
Vinyl chloride	MW 8	4/28/2015	1.9
Vinyl chloride	MW 8	10/14/2015	1.5
Vinyl chloride	MW 8	4/20/2016	2.1
Vinyl chloride	MW 8	4/20/2016	2
Vinyl chloride	MW 8	10/21/2016	1.3
Vinyl chloride	MW 8	4/18/2017	1.6
Vinyl chloride	MW 8	10/12/2017	1.3
Vinyl chloride	MW 12	4/11/2014	0.0057 U
Vinyl chloride	MW 12	10/24/2014	0.0057 U
Vinyl chloride	MW 12	10/24/2014	0.0050 U
Vinyl chloride	MW 12	4/27/2015	0.0057 U
Vinyl chloride	MW 12	10/9/2015	0.005 U
Vinyl chloride	MW 12	4/21/2016	0.005 U
Vinyl chloride	MW 12	10/25/2016	0.005 U
Vinyl chloride	MW 12	4/19/2017	0.0025 U
Vinyl chloride	MW 12	10/6/2017	0.0033 U
Vinyl chloride	MW 14	4/15/2014	0.25
Vinyl chloride	MW 14	4/15/2014	0.23
Vinyl chloride	MW 14	10/24/2014	0.14 J
Vinyl chloride	MW 14	4/29/2015	0.15 J
Vinyl chloride	MW 14	4/29/2015	0.15 J
Vinyl chloride	MW 14	10/12/2015	0.14 J
Vinyl chloride	MW 14	4/19/2016	0.14 J
Vinyl chloride	MW 14	10/25/2016	0.12 J
Vinyl chloride	MW 14	4/18/2017	0.13
Vinyl chloride	MW 14	4/18/2017	0.13
Vinyl chloride	MW 14	10/13/2017	0.15 J
Vinyl chloride	MW 14	10/13/2017	0.15 J
Vinyl chloride	MW 15	10/24/2013	0.56
Vinyl chloride	MW 15	10/23/2014	0.5 U
Vinyl chloride	MW 15	10/14/2015	0.094 J
Vinyl chloride	MW 15	10/21/2016	0.1 U
Vinyl chloride	MW 15	10/11/2017	0.052 J
Vinyl chloride	MW 16	11/14/2013	0.001 U
Vinyl chloride	MW 16	4/10/2014	0.001 U
Vinyl chloride	MW 16	10/12/2015	0.001 U
Vinyl chloride	MW 16	10/23/2016	0.001 U
Vinyl chloride	MW 16	10/12/2017	0.03
Vinyl chloride	MW 21	10/14/2015	0.001 U
Vinyl chloride	MW 21	10/21/2016	0.001 U
Vinyl chloride	MW 21	10/18/2017	0.001 U
Vinyl chloride	MW 28	4/15/2014	0.22
Vinyl chloride	MW 28	4/15/2014	0.21
Vinyl chloride	MW 28	10/27/2014	0.14
Vinyl chloride	MW 28	4/29/2015	0.13

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Analyte	Location	Date	Result (mg/L)
Vinyl chloride	MW 28	10/12/2015	0.21
Vinyl chloride	MW 28	4/19/2016	0.15
Vinyl chloride	MW 28	10/22/2016	0.19
Vinyl chloride	MW 28	4/19/2017	0.18
Vinyl chloride	MW 28	10/9/2017	0.2
Vinyl chloride	MW 31R	4/15/2014	1.1
Vinyl chloride	MW 31R	10/27/2014	1
Vinyl chloride	MW 31R	4/28/2015	0.63
Vinyl chloride	MW 31R	10/14/2015	1.7
Vinyl chloride	MW 31R	4/20/2016	1.5
Vinyl chloride	MW 31R	10/21/2016	3.4
Vinyl chloride	MW 31R	10/21/2016	3.4
Vinyl chloride	MW 31R	4/19/2017	2
Vinyl chloride	MW 31R	10/12/2017	9
Vinyl chloride	MW 37	10/25/2013	0.001 U
Vinyl chloride	MW 37	10/22/2014	0.001 U
Vinyl chloride	MW 37	10/9/2015	0.001 U
Vinyl chloride	MW 37	10/23/2016	0.001 U
Vinyl chloride	MW 37	10/16/2017	0.001 U
Vinyl chloride	MW 40	4/14/2014	1.1
Vinyl chloride	MW 40	10/27/2014	0.5
Vinyl chloride	MW 40	4/28/2015	0.43
Vinyl chloride	MW 40	10/13/2015	0.44
Vinyl chloride	MW 40	4/19/2016	0.36
Vinyl chloride	MW 40	10/20/2016	0.31
Vinyl chloride	MW 40	4/19/2017	0.26
Vinyl chloride	MW 40	10/10/2017	0.17
Vinyl chloride	MW 40	10/10/2017	0.18
Vinyl chloride	MW 41	4/14/2014	0.73
Vinyl chloride	MW 41	10/23/2014	0.54 J
Vinyl chloride	MW 41	4/29/2015	0.46
Vinyl chloride	MW 41	10/12/2015	0.39
Vinyl chloride	MW 41	10/12/2015	0.39
Vinyl chloride	MW 41	4/19/2016	0.45
Vinyl chloride	MW 41	10/23/2016	0.35
Vinyl chloride	MW 41	4/19/2017	0.44
Vinyl chloride	MW 41	10/9/2017	0.38
Vinyl chloride	MW 42	4/14/2014	0.18
Vinyl chloride	MW 42	10/23/2014	0.12 J
Vinyl chloride	MW 42	4/29/2015	0.13 J
Vinyl chloride	MW 42	10/12/2015	0.14 J
Vinyl chloride	MW 42	4/19/2016	0.092 J
Vinyl chloride	MW 42	10/23/2016	0.1 J
Vinyl chloride	MW 42	4/19/2017	0.22
Vinyl chloride	MW 42	10/9/2017	0.26
Vinyl chloride	MW 46	10/25/2013	0.001 U
Vinyl chloride	MW 46	10/22/2014	0.001 U
Vinyl chloride	MW 46	10/9/2015	0.001 U
Vinyl chloride	MW 46	10/23/2016	0.001 U
Vinyl chloride	MW 46	10/16/2017	0.001 U
Vinyl chloride	MW 49	4/14/2014	0.013
Vinyl chloride	MW 49	10/27/2014	0.013 J
Vinyl chloride	MW 49	4/28/2015	0.033 U

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Analyte	Location	Date	Result (mg/L)
Vinyl chloride	MW 49	10/13/2015	0.012 J
Vinyl chloride	MW 49	4/21/2016	0.011 J
Vinyl chloride	MW 51	4/16/2014	0.005 U
Vinyl chloride	MW 51	10/21/2014	0.0041 J
Vinyl chloride	MW 51	4/28/2015	0.0024 J
Vinyl chloride	MW 51	4/28/2015	0.0026 J
Vinyl chloride	MW 51	10/9/2015	0.0079
Vinyl chloride	MW 51	4/20/2016	0.0035 J
Vinyl chloride	MW 51	10/23/2016	0.0053 J
Vinyl chloride	MW 51	4/18/2017	0.0041
Vinyl chloride	MW 51	10/16/2017	0.0073
Vinyl chloride	MW 56	10/29/2013	0.001 U
Vinyl chloride	MW 56	10/29/2014	0.001 U
Vinyl chloride	MW 56	10/29/2014	0.001 U
Vinyl chloride	MW 56	10/19/2015	0.001 U
Vinyl chloride	MW 56	10/24/2016	0.001 U
Vinyl chloride	MW 56	10/18/2017	0.001 U
Vinyl chloride	MW 57	10/29/2013	0.0062
Vinyl chloride	MW 57	10/29/2014	0.013
Vinyl chloride	MW 57	10/19/2015	0.0037
Vinyl chloride	MW 57	10/24/2016	0.046
Vinyl chloride	MW 57	10/18/2017	0.096
Vinyl chloride	MW 58	10/29/2013	0.11
Vinyl chloride	MW 58	10/29/2014	0.098
Vinyl chloride	MW 58	10/20/2015	0.16
Vinyl chloride	MW 58	10/20/2015	0.15
Vinyl chloride	MW 58	10/25/2016	0.085
Vinyl chloride	MW 58	10/17/2017	0.059
Vinyl chloride	MW 61	10/23/2013	0.001 U
Vinyl chloride	MW 61	10/21/2014	0.00042 J
Vinyl chloride	MW 61	10/9/2015	0.00068 J
Vinyl chloride	MW 61	10/22/2016	0.00069 J
Vinyl chloride	MW 61	10/9/2017	0.001 U
Vinyl chloride	MW 64	10/22/2013	0.045
Vinyl chloride	MW 64	10/28/2014	0.033
Vinyl chloride	MW 64	10/13/2015	0.03
Vinyl chloride	MW 64	10/20/2016	0.039
Vinyl chloride	MW 64	10/10/2017	0.049
Vinyl chloride	MW 65	10/22/2013	0.0025 J
Vinyl chloride	MW 65	10/22/2014	0.00093 J
Vinyl chloride	MW 65	10/22/2014	0.0016 J
Vinyl chloride	MW 65	10/8/2015	0.0012 J
Vinyl chloride	MW 65	10/19/2016	0.0014
Vinyl chloride	MW 65	10/6/2017	0.00074 J
Vinyl chloride	MW 66	4/11/2014	0.33
Vinyl chloride	MW 66	10/27/2014	0.15
Vinyl chloride	MW 66	4/27/2015	0.11
Vinyl chloride	MW 66	10/13/2015	0.13
Vinyl chloride	MW 66	4/20/2016	0.14
Vinyl chloride	MW 66	10/20/2016	0.14
Vinyl chloride	MW 66	4/19/2017	0.11
Vinyl chloride	MW 66	10/10/2017	0.075
Vinyl chloride	MW 68	4/10/2014	0.24

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Analyte	Location	Date	Result (mg/L)
Vinyl chloride	MW 68	10/23/2014	0.15 J
Vinyl chloride	MW 68	4/28/2015	0.18 J
Vinyl chloride	MW 68	4/28/2015	0.17 J
Vinyl chloride	MW 68	10/13/2015	0.16 J
Vinyl chloride	MW 68	10/13/2015	0.12 J
Vinyl chloride	MW 68	4/19/2016	0.15 J
Vinyl chloride	MW 68	10/20/2016	0.15 J
Vinyl chloride	MW 68	4/17/2017	0.13
Vinyl chloride	MW 68	10/11/2017	0.16
Vinyl chloride	MW 75	10/23/2013	0.001 U
Vinyl chloride	MW 75	10/21/2014	0.001 U
Vinyl chloride	MW 75	10/23/2016	0.001 U
Vinyl chloride	MW 75	10/16/2017	0.001 U
Vinyl chloride	MW 76/MW 76R-17	10/23/2013	0.00046 J
Vinyl chloride	MW 76/MW 76R-17	10/23/2013	0.00048 J
Vinyl chloride	MW 76/MW 76R-17	10/21/2014	0.00051 J
Vinyl chloride	MW 76/MW 76R-17	10/18/2017	0.001 U
Vinyl chloride	MW 79	4/15/2014	0.22
Vinyl chloride	MW 79	10/28/2014	0.15
Vinyl chloride	MW 79	10/28/2014	0.15
Vinyl chloride	MW 79	4/29/2015	0.15
Vinyl chloride	MW 79	10/13/2015	0.13
Vinyl chloride	MW 79	4/19/2016	0.18
Vinyl chloride	MW 79	10/21/2016	0.15
Vinyl chloride	MW 79	4/17/2017	0.19
Vinyl chloride	MW 79	4/17/2017	0.19
Vinyl chloride	MW 79	10/11/2017	0.2
Vinyl chloride	MW 80	10/22/2013	0.045
Vinyl chloride	MW 80	10/24/2014	0.036
Vinyl chloride	MW 80	10/8/2015	0.04
Vinyl chloride	MW 80	10/22/2016	0.049
Vinyl chloride	MW 80	10/6/2017	0.041
Vinyl chloride	MW 81	10/22/2013	0.066
Vinyl chloride	MW 81	10/22/2014	0.041
Vinyl chloride	MW 81	10/8/2015	0.062
Vinyl chloride	MW 81	10/22/2016	0.026
Vinyl chloride	MW 81	10/6/2017	0.042
Vinyl chloride	MW 82	10/23/2013	0.001 U
Vinyl chloride	MW 82	10/24/2014	0.001 U
Vinyl chloride	MW 82	10/12/2015	0.001 U
Vinyl chloride	MW 82	10/23/2016	0.001 U
Vinyl chloride	MW 82	10/12/2017	0.001 U
Vinyl chloride	MW 82	10/12/2017	0.001 U
Vinyl chloride	MW 83	10/24/2013	0.0015
Vinyl chloride	MW 83	10/22/2014	0.0015
Vinyl chloride	MW 83	10/9/2015	0.0037
Vinyl chloride	MW 83	10/22/2016	0.0053
Vinyl chloride	MW 83	10/22/2016	0.0053
Vinyl chloride	MW 83	10/11/2017	0.0076
Vinyl chloride	MW 84	4/10/2013	0.001 U
Vinyl chloride	MW 84	11/14/2013	0.001 U
Vinyl chloride	MW 84	4/10/2014	0.001 U
Vinyl chloride	MW 84	10/12/2015	0.001 U

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Analyte	Location	Date	Result (mg/L)
Vinyl chloride	MW 84	10/24/2016	0.001 U
Vinyl chloride	MW 84	10/13/2017	0.001 U
Vinyl chloride	MW 85	4/16/2014	0.84
Vinyl chloride	MW 85	10/29/2014	0.6
Vinyl chloride	MW 85	4/27/2015	0.37 J
Vinyl chloride	MW 85	10/19/2015	0.44
Vinyl chloride	MW 85	4/22/2016	0.34 J
Vinyl chloride	MW 85	4/22/2016	0.35 J
Vinyl chloride	MW 85	10/24/2016	0.42 J
Vinyl chloride	MW 85	4/18/2017	0.42
Vinyl chloride	MW 85	10/17/2017	0.45
Vinyl chloride	MW 86	10/22/2013	0.001 U
Vinyl chloride	MW 86	10/22/2014	0.001 U
Vinyl chloride	MW 86	10/8/2015	0.001 U
Vinyl chloride	MW 86	10/22/2016	0.001 U
Vinyl chloride	MW 86	10/13/2017	0.001 U
Vinyl chloride	MW 88	10/22/2013	0.001 U
Vinyl chloride	MW 88	10/22/2014	0.00034 J
Vinyl chloride	MW 88	10/8/2015	0.001
Vinyl chloride	MW 88	10/8/2015	0.00098 J
Vinyl chloride	MW 88	10/22/2016	0.0019
Vinyl chloride	MW 88	10/22/2016	0.0018
Vinyl chloride	MW 88	10/13/2017	0.0023
Vinyl chloride	MW 89-11	4/16/2014	0.001 U
Vinyl chloride	MW 89-11	10/28/2014	0.001 U
Vinyl chloride	MW 89-11	4/28/2015	0.001 U
Vinyl chloride	MW 89-11	10/15/2015	0.001 U
Vinyl chloride	MW 89-11	4/20/2016	0.001 U
Vinyl chloride	MW 89-11	4/20/2016	0.001 U
Vinyl chloride	MW 89-11	10/25/2016	0.001 U
Vinyl chloride	MW 89-11	10/25/2016	0.001 U
Vinyl chloride	MW 89-11	4/19/2017	0.001 U
Vinyl chloride	MW 89-11	10/17/2017	0.001 U
Vinyl chloride	MW97R-16	10/25/2016	0.001 U
Vinyl chloride	MW97R-16	10/18/2017	0.001 U
Vinyl chloride	Pond Intake	7/10/2015	0.008
Vinyl chloride	Pond Intake	7/10/2015	0.0079
Vinyl chloride	Pond Intake	10/20/2015	0.0065
Vinyl chloride	Pond Intake	4/22/2016	0.0044
Vinyl chloride	Pond Intake	7/19/2016	0.0049
Vinyl chloride	Pond Intake	10/24/2016	0.0031
Vinyl chloride	Pond Intake	10/24/2016	0.0029
Vinyl chloride	Pond Intake	4/18/2017	0.0063
Vinyl chloride	Pond Intake	7/12/2017	0.0051
Vinyl chloride	Pond Intake	10/19/2017	0.0048
Vinyl chloride	Pond North	7/10/2015	0.0077
Vinyl chloride	Pond North	10/20/2015	0.0047
Vinyl chloride	Pond North	4/22/2016	0.0078
Vinyl chloride	Pond North	7/19/2016	0.0064
Vinyl chloride	Pond North	7/19/2016	0.0062
Vinyl chloride	Pond North	10/24/2016	0.033 U
Vinyl chloride	Pond North	4/18/2017	0.011
Vinyl chloride	Pond North	4/18/2017	0.01

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Analyte	Location	Date	Result (mg/L)
Vinyl chloride	Pond North	7/12/2017	0.0053
Vinyl chloride	Pond North	7/12/2017	0.0052
Vinyl chloride	Pond North	10/19/2017	0.017

Note:
Boxed values are outliers.

Table D.4

Descriptive Statistics and Trend Test Results (Recent Period)
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Location	Analyte	Date Range	Number of Samples	Number of Detects	Percent Detects	Minimum (mg/L)	Maximum (mg/L)	Number of Outliers	Mann-Kendall Trend test				Sen's Slope (units/day)
									Statistic	Probability	Confidence in trend	Conclusion	
MW-2	TCE	2013 -- 2017	5	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 3	TCE	2014 -- 2017	8	8	100%	4.3	12	0	-2	0.549	45%	NT or Decreasing	-6.6E-04
MW-4	TCE	2014 -- 2017	8	8	100%	0.5	2.4	0	15	0.040	96%	**Increasing**	0.001
MW-7	TCE	2014 -- 2017	2	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 8	TCE	2014 -- 2017	8	8	100%	0.09 J	0.42	0	2	0.451	55%	NT or Decreasing	5.0E-05
MW 12	TCE	2014 -- 2017	8	3	38%	0.00085 J	0.0057 U	--	--	--	--	--	--
MW 14	TCE	2014 -- 2017	8	0	0%	0.13 U	0.33 U	--	--	--	--	--	--
MW 15	TCE	2013 -- 2017	5	5	100%	2.5	8.3	0	-6	0.890	11%	NT or Decreasing	-0.004
MW 16	TCE	2013 -- 2017	5	1	20%	0.001 U	0.0017	--	--	--	--	--	--
MW 21	TCE	2015 -- 2017	3	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 28	TCE	2014 -- 2017	8	0	0%	0.014 U	0.05 U	--	--	--	--	--	--
MW 31R	TCE	2014 -- 2017	8	2	25%	0.04 J	0.83 U	--	--	--	--	--	--
MW 37	TCE	2013 -- 2017	5	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 40	TCE	2014 -- 2017	8	8	100%	0.16 J	0.4	0	10	0.133	87%	NT or Decreasing	1.2E-04
MW 41	TCE	2014 -- 2017	8	0	0%	0.2 U	0.63 U	--	--	--	--	--	--
MW 42	TCE	2014 -- 2017	8	1	13%	0.035 J	0.2 U	--	--	--	--	--	--
MW 46	TCE	2013 -- 2017	5	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 49	TCE	2014 -- 2016	5	1	20%	0.00085 J	0.04 U	--	--	--	--	--	--
MW 51	TCE	2014 -- 2017	8	8	100%	0.14	0.18	0	-15	0.965	3%	NT or Decreasing	-1.8E-05
MW 56	TCE	2013 -- 2017	5	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 57	TCE	2013 -- 2017	5	0	0%	0.001 U	0.0033 U	--	--	--	--	--	--
MW 58	TCE	2013 -- 2017	5	0	0%	0.002 U	0.05 U	--	--	--	--	--	--
MW 61	TCE	2013 -- 2017	5	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 64	TCE	2013 -- 2017	5	0	0%	0.0017 U	0.01 U	--	--	--	--	--	--
MW 65	TCE	2013 -- 2017	5	0	0%	0.001 U	0.0057 U	--	--	--	--	--	--
MW 66	TCE	2014 -- 2017	8	0	0%	0.011 U	0.1 U	--	--	--	--	--	--
MW 68	TCE	2014 -- 2017	8	8	100%	1	1.8	0	-3	0.601	40%	NT or Decreasing	-5.4E-05
MW 75	TCE	2013 -- 2017	4	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 76/MW 76R-17	TCE	2013 -- 2017	3	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 79	TCE	2014 -- 2017	8	0	0%	0.05 U	0.13 U	--	--	--	--	--	--
MW 80	TCE	2013 -- 2017	5	0	0%	0.001 U	0.002 U	--	--	--	--	--	--
MW 81	TCE	2013 -- 2017	5	0	0%	0.0033 U	0.008 U	--	--	--	--	--	--
MW 82	TCE	2013 -- 2017	5	2	40%	0.001 U	0.00097 J	--	--	--	--	--	--
MW 83	TCE	2013 -- 2017	5	2	40%	0.00023 J	0.001 U	--	--	--	--	--	--
MW 84	TCE	2013 -- 2017	6	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 85	TCE	2014 -- 2017	8	0	0%	0.2 U	0.56 U	--	--	--	--	--	--
MW 86	TCE	2013 -- 2017	5	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 88	TCE	2013 -- 2017	5	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 89-11	TCE	2014 -- 2017	8	2	25%	0.00032 J	0.001 U	--	--	--	--	--	--
MW97R-16	TCE	2016 -- 2017	2	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
Pond Intake	TCE	2015 -- 2017	8	1	13%	0.001 U	0.0073	--	--	--	--	--	--
Pond North	TCE	2015 -- 2017	8	1	13%	0.0014 U	0.033 U	--	--	--	--	--	--

Descriptive Statistics and Trend Test Results (Recent Period)
2017 Annual Groundwater Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Location	Analyte	Date Range	Number of Samples	Number of Detects	Percent Detects	Minimum (mg/L)	Maximum (mg/L)	Number of Outliers	Mann-Kendall Trend test				Sen's Slope (units/day)
									Statistic	Probability	Confidence in trend	Conclusion	
MW-2	cis-1,2-DCE	2013 -- 2017	5	1	20%	0.001 U	0.0014	--	--	--	--	--	--
MW 3	cis-1,2-DCE	2014 -- 2017	8	8	100%	1	7.4	0	3	0.402	60%	NT or Decreasing	4.1E-04
MW-4	cis-1,2-DCE	2014 -- 2017	8	8	100%	7.9	13	0	-21	0.994	1%	NT or Decreasing	-0.004
MW-7	cis-1,2-DCE	2014 -- 2017	2	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 8	cis-1,2-DCE	2014 -- 2017	8	8	100%	3.1	9.3	1	-12	0.913	9%	NT or Decreasing	-0.001
MW 8 (-outliers)	cis-1,2-DCE	2014 -- 2017	7	7	100%	3.1	4.9	0	-5	0.726	27%	NT or Decreasing	-0.001
MW 12	cis-1,2-DCE	2014 -- 2017	8	8	100%	0.08	0.21	0	-19	0.988	1%	NT or Decreasing	-5.6E-05
MW 14	cis-1,2-DCE	2014 -- 2017	8	8	100%	4.1	5.7	0	-23	0.997	0%	NT or Decreasing	-9.6E-04
MW 15	cis-1,2-DCE	2013 -- 2017	5	5	100%	1.7	12	0	-8	0.957	4%	NT or Decreasing	-0.006
MW 16	cis-1,2-DCE	2013 -- 2017	5	3	60%	0.00026 J	0.0019	--	--	--	--	--	--
MW 21	cis-1,2-DCE	2015 -- 2017	3	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 28	cis-1,2-DCE	2014 -- 2017	8	8	100%	0.56	0.92	0	19	0.012	99%	**Increasing**	3.0E-04
MW 31R	cis-1,2-DCE	2014 -- 2017	8	8	100%	6.6	69	1	17	0.023	98%	**Increasing**	0.014
MW 31R (-outliers)	cis-1,2-DCE	2014 -- 2017	7	7	100%	6.6	18	0	10	0.088	91%	**Increasing**	0.010
MW 37	cis-1,2-DCE	2013 -- 2017	5	1	20%	0.001 U	0.0011	--	--	--	--	--	--
MW 40	cis-1,2-DCE	2014 -- 2017	8	8	100%	5	11	1	-18	0.982	2%	NT or Decreasing	-0.003
MW 40 (-outliers)	cis-1,2-DCE	2014 -- 2017	7	7	100%	5	7.5	0	-11	0.933	7%	NT or Decreasing	-0.002
MW 41	cis-1,2-DCE	2014 -- 2017	8	8	100%	5.2	7.6	0	-21	0.994	1%	NT or Decreasing	-0.002
MW 42	cis-1,2-DCE	2014 -- 2017	8	8	100%	2.9	5.6	0	-19	0.988	1%	NT or Decreasing	-0.002
MW 46	cis-1,2-DCE	2013 -- 2017	5	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 49	cis-1,2-DCE	2014 -- 2016	5	4	80%	0.001 U	0.86	1	6	0.110	89%	NT or Decreasing	6.1E-04
MW 49 (-outliers)	cis-1,2-DCE	2014 -- 2016	4	4	100%	0.71	0.86	0	2	0.750	25%	NT or Decreasing	1.6E-04
MW 51	cis-1,2-DCE	2014 -- 2017	8	8	100%	0.0071	0.028	0	28	4.2E-04	100%	**Increasing**	8.6E-06
MW 56	cis-1,2-DCE	2013 -- 2017	5	1	20%	0.00021 J	0.001 U	--	--	--	--	--	--
MW 57	cis-1,2-DCE	2013 -- 2017	5	1	20%	0.001 U	0.0042	--	--	--	--	--	--
MW 58	cis-1,2-DCE	2013 -- 2017	5	3	60%	0.002 U	2.2	--	--	--	--	--	--
MW 61	cis-1,2-DCE	2013 -- 2017	5	1	20%	0.00035 J	0.001 U	--	--	--	--	--	--
MW 64	cis-1,2-DCE	2013 -- 2017	5	5	100%	0.025	0.25	0	4	0.231	77%	NT or Decreasing	6.0E-05
MW 65	cis-1,2-DCE	2013 -- 2017	5	5	100%	0.02	0.21	0	-10	0.986	1%	NT or Decreasing	-5.2E-05
MW 66	cis-1,2-DCE	2014 -- 2017	8	8	100%	0.28	3	0	26	9.9E-04	100%	**Increasing**	0.002
MW 68	cis-1,2-DCE	2014 -- 2017	8	8	100%	3.5	6.3	0	-20	0.991	1%	NT or Decreasing	-0.002
MW 75	cis-1,2-DCE	2013 -- 2017	4	1	25%	0.001 U	0.0007 J	--	--	--	--	--	--
MW 76/MW 76R-17	cis-1,2-DCE	2013 -- 2017	3	3	100%	0.00043 J	0.0027	--	--	--	--	--	--
MW 79	cis-1,2-DCE	2014 -- 2017	8	8	100%	2	2.9	0	-7	0.773	23%	NT or Decreasing	-2.2E-04
MW 80	cis-1,2-DCE	2013 -- 2017	5	3	60%	0.001 U	0.025	--	--	--	--	--	--
MW 81	cis-1,2-DCE	2013 -- 2017	5	5	100%	0.077	0.19	0	-2	0.597	40%	NT or Decreasing	-5.2E-05
MW 82	cis-1,2-DCE	2013 -- 2017	5	3	60%	0.00041 J	0.0022	--	--	--	--	--	--
MW 83	cis-1,2-DCE	2013 -- 2017	5	2	40%	0.00032 J	0.001 U	--	--	--	--	--	--
MW 84	cis-1,2-DCE	2013 -- 2017	6	2	33%	0.00027 J	0.001	--	--	--	--	--	--
MW 85	cis-1,2-DCE	2014 -- 2017	8	8	100%	7.4	10	0	7	0.227	77%	NT or Decreasing	0.001
MW 86	cis-1,2-DCE	2013 -- 2017	5	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 88	cis-1,2-DCE	2013 -- 2017	5	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 89-11	cis-1,2-DCE	2014 -- 2017	8	4	50%	0.0003 J	0.0033 U	--	--	--	--	--	--

Descriptive Statistics and Trend Test Results (Recent Period)
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Location	Analyte	Date Range	Number of Samples	Number of Detects	Percent Detects	Minimum (mg/L)	Maximum (mg/L)	Number of Outliers	Mann-Kendall Trend test				Sen's Slope (units/day)
									Statistic	Probability	Confidence in trend	Conclusion	
MW97R-16	cis-1,2-DCE	2016 -- 2017	2	1	50%	0.001 U	0.0012	--	--	--	--	--	--
Pond Intake	cis-1,2-DCE	2015 -- 2017	8	8	100%	0.036	0.11	0	-2	0.549	45%	NT or Decreasing	-6.1E-06
Pond North	cis-1,2-DCE	2015 -- 2017	8	8	100%	0.035	0.5	0	12	0.087	91%	**Increasing**	2.2E-04
MW-2	Vinyl chloride	2013 -- 2017	5	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 3	Vinyl chloride	2014 -- 2017	8	2	25%	0.1 U	0.5 U	--	--	--	--	--	--
MW-4	Vinyl chloride	2014 -- 2017	8	8	100%	0.41 J	0.84	0	13	0.069	93%	**Increasing**	2.9E-04
MW 8	Vinyl chloride	2014 -- 2017	8	8	100%	1.3	2.8	0	-9	0.841	16%	NT or Decreasing	-6.2E-04
MW 12	Vinyl chloride	2014 -- 2017	8	0	0%	0.0025 U	0.0057 U	--	--	--	--	--	--
MW 14	Vinyl chloride	2014 -- 2017	8	8	100%	0.12 J	0.25	1	-14	0.952	5%	NT or Decreasing	-2.7E-05
MW 14 (-outliers)	Vinyl chloride	2014 -- 2017	7	7	100%	0.12 J	0.15 J	0	-8	0.864	14%	NT or Decreasing	0.0E+00
MW 15	Vinyl chloride	2013 -- 2017	5	3	60%	0.1 U	0.56	--	--	--	--	--	--
MW 16	Vinyl chloride	2013 -- 2017	5	1	20%	0.001 U	0.03	--	--	--	--	--	--
MW 21	Vinyl chloride	2015 -- 2017	3	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 28	Vinyl chloride	2014 -- 2017	8	8	100%	0.13	0.22	0	-1	0.500	50%	NT or Decreasing	2.3E-05
MW 31R	Vinyl chloride	2014 -- 2017	8	8	100%	0.63	9	1	11	0.108	89%	NT or Decreasing	0.002
MW 37	Vinyl chloride	2013 -- 2017	5	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 40	Vinyl chloride	2014 -- 2017	8	8	100%	0.18	1.1	1	-19	0.987	1%	NT or Decreasing	-3.3E-04
MW 40 (-outliers)	Vinyl chloride	2014 -- 2017	7	7	100%	0.18	0.5	0	-13	0.964	4%	NT or Decreasing	-2.8E-04
MW 41	Vinyl chloride	2014 -- 2017	8	8	100%	0.35	0.73	0	-15	0.958	4%	NT or Decreasing	-1.8E-04
MW 42	Vinyl chloride	2014 -- 2017	8	8	100%	0.092 J	0.26	0	-1	0.500	50%	NT or Decreasing	5.5E-05
MW 46	Vinyl chloride	2013 -- 2017	5	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 49	Vinyl chloride	2014 -- 2016	5	4	80%	0.011 J	0.033 U	0	-5	0.836	16%	NT or Decreasing	-2.8E-06
MW 51	Vinyl chloride	2014 -- 2017	8	7	88%	0.005 U	0.0079	0	8	0.191	81%	NT or Decreasing	2.5E-06
MW 56	Vinyl chloride	2013 -- 2017	5	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 57	Vinyl chloride	2013 -- 2017	5	5	100%	0.0037	0.096	0	2	0.403	60%	NT or Decreasing	5.4E-05
MW 58	Vinyl chloride	2013 -- 2017	5	5	100%	0.059	0.16	0	-2	0.597	40%	NT or Decreasing	-3.4E-05
MW 61	Vinyl chloride	2013 -- 2017	5	3	60%	0.00042 J	0.00069 J	--	--	--	--	--	--
MW 64	Vinyl chloride	2013 -- 2017	5	5	100%	0.03	0.049	0	-2	0.597	40%	NT or Decreasing	5.5E-06
MW 65	Vinyl chloride	2013 -- 2017	5	5	100%	0.00074 J	0.0025 J	0	-2	0.597	40%	NT or Decreasing	-8.2E-07
MW 66	Vinyl chloride	2014 -- 2017	8	8	100%	0.075	0.33	1	-9	0.843	16%	NT or Decreasing	-7.3E-05
MW 66 (-outliers)	Vinyl chloride	2014 -- 2017	7	7	100%	0.075	0.15	0	-3	0.621	38%	NT or Decreasing	-3.9E-05
MW 68	Vinyl chloride	2014 -- 2017	8	8	100%	0.13	0.24	1	-12	0.919	8%	NT or Decreasing	-2.5E-05
MW 68 (-outliers)	Vinyl chloride	2014 -- 2017	7	7	100%	0.13	0.18 J	0	-6	0.783	22%	NT or Decreasing	0.0E+00
MW 75	Vinyl chloride	2013 -- 2017	4	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 76/MW 76R-17	Vinyl chloride	2013 -- 2017	3	2	67%	0.00048 J	0.00051 J	--	--	--	--	--	--
MW 79	Vinyl chloride	2014 -- 2017	8	8	100%	0.13	0.22	0	0	0.500	50%	NT or Decreasing	3.2E-05
MW 80	Vinyl chloride	2013 -- 2017	5	5	100%	0.036	0.049	0	2	0.403	60%	NT or Decreasing	2.5E-06
MW 81	Vinyl chloride	2013 -- 2017	5	5	100%	0.026	0.066	0	-4	0.769	23%	NT or Decreasing	-1.9E-05
MW 82	Vinyl chloride	2013 -- 2017	5	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 83	Vinyl chloride	2013 -- 2017	5	5	100%	0.0015	0.0076	0	5	0.156	84%	NT or Decreasing	4.7E-06
MW 84	Vinyl chloride	2013 -- 2017	6	0	0%	0.001 U	0.001 U	--	--	--	--	--	--

Descriptive Statistics and Trend Test Results (Recent Period)
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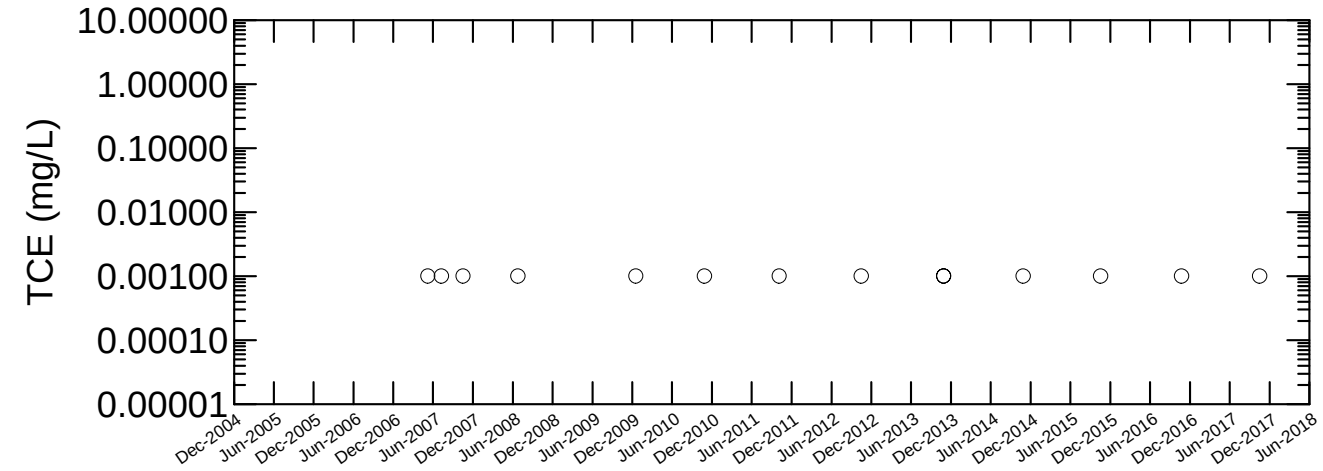
Location	Analyte	Date Range	Number of Samples	Number of Detects	Percent Detects	Minimum (mg/L)	Maximum (mg/L)	Number of Outliers	Mann-Kendall Trend test				Sen's Slope (units/day)
									Statistic	Probability	Confidence in trend	Conclusion	
MW 85	Vinyl chloride	2014 -- 2017	8	8	100%	0.35 J	0.84	0	-10	0.869	13%	NT or Decreasing	-1.0E-04
MW 86	Vinyl chloride	2013 -- 2017	5	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 88	Vinyl chloride	2013 -- 2017	5	4	80%	0.00034 J	0.0023	0	6	0.110	89%	NT or Decreasing	1.5E-06
MW 89-11	Vinyl chloride	2014 -- 2017	8	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW97R-16	Vinyl chloride	2016 -- 2017	2	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
Pond Intake	Vinyl chloride	2015 -- 2017	8	8	100%	0.0031	0.008	0	-7	0.771	23%	NT or Decreasing	-2.9E-06
Pond North	Vinyl chloride	2015 -- 2017	8	7	88%	0.0047	0.017	0	-1	0.500	50%	NT or Decreasing	7.4E-06

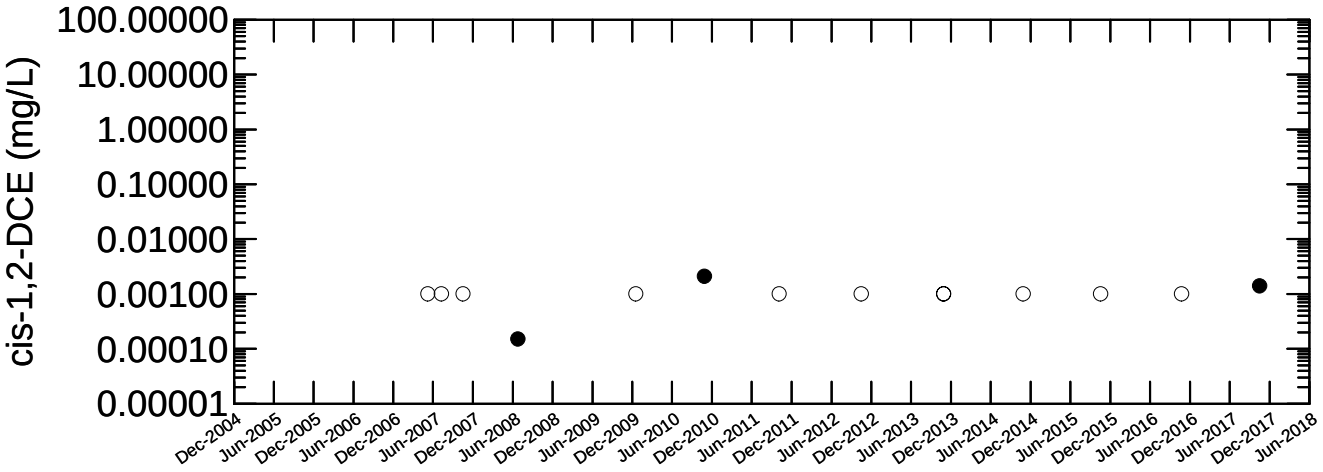
Notes:

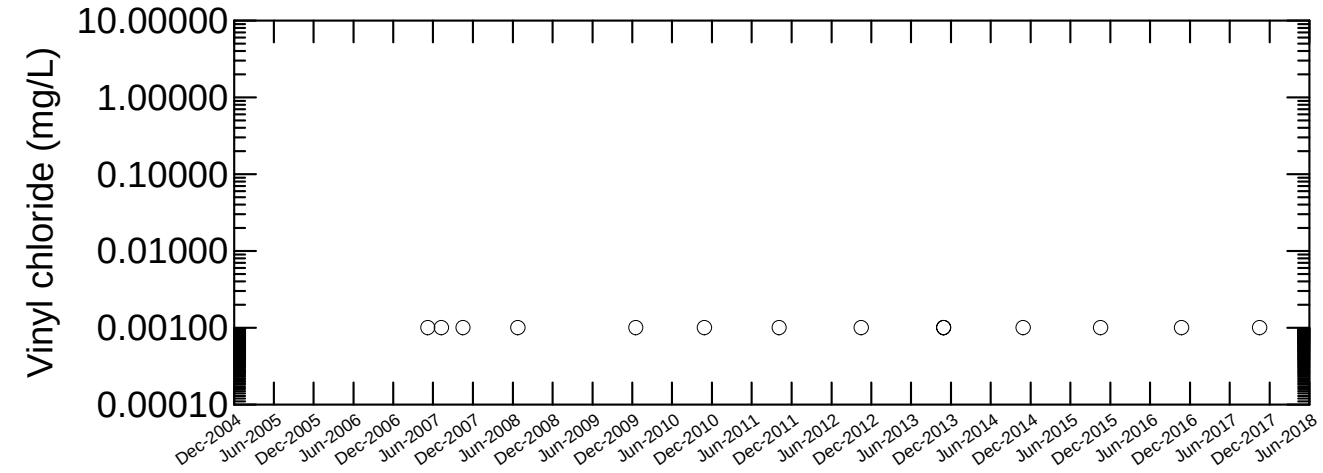
-- Trend test not performed due to infrequent detections (i.e., fewer than 75 percent detects).

NT or Decreasing - A statistically-significant (90 percent confidence) increasing trend was not found. Analyte concentrations may be stable or decreasing over time. (Per approved Monitoring Plan, a 1-sided test is performed).

Well MW 49 was not sampled during the 2017 monitoring event.







Legend:

● Detected Result
○ Non-Detect Result

Note:
Non-detects are shown as the laboratory detection limit.

MW-2

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
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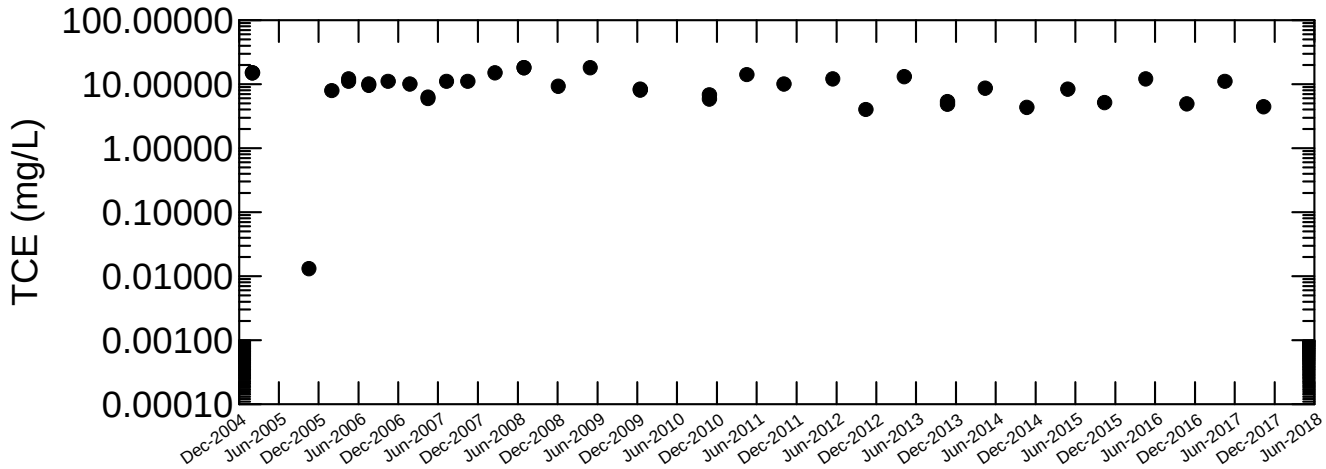

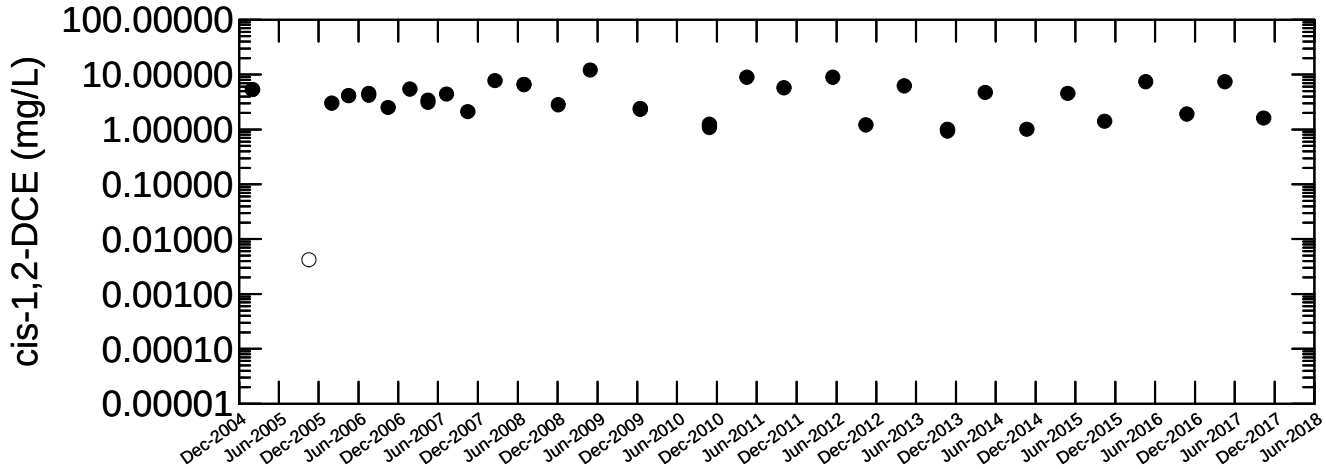

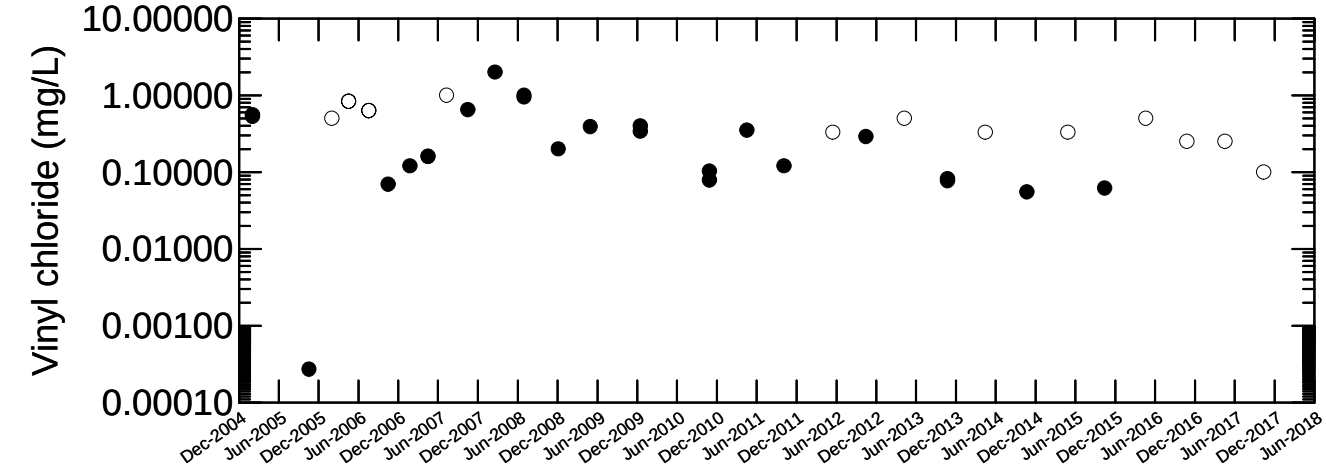

Legend:

● Detected Result
○ Non-Detect Result

Note:
Non-detects are shown as the laboratory detection limit.

MW 3

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
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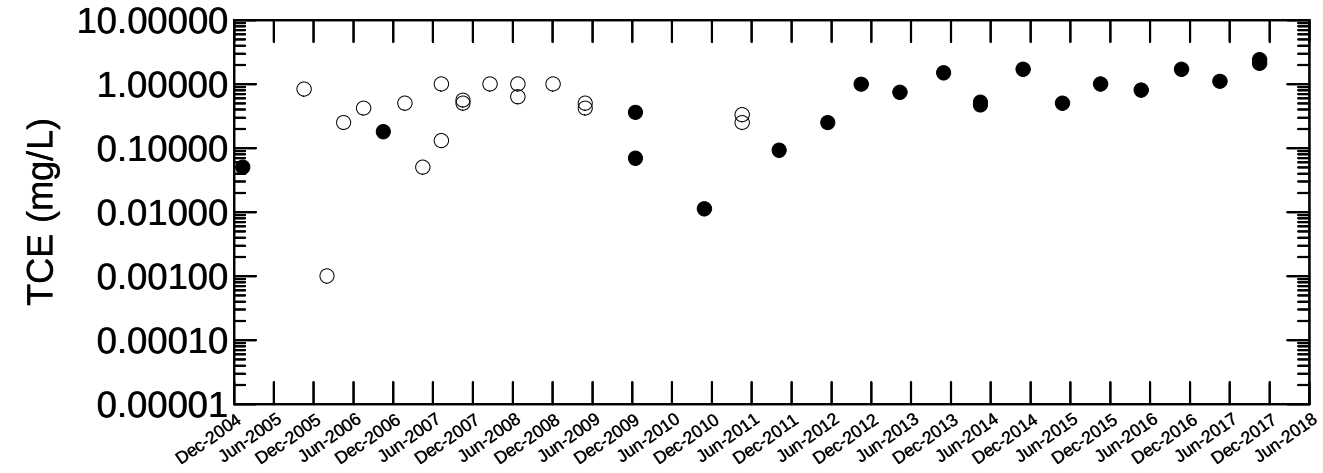

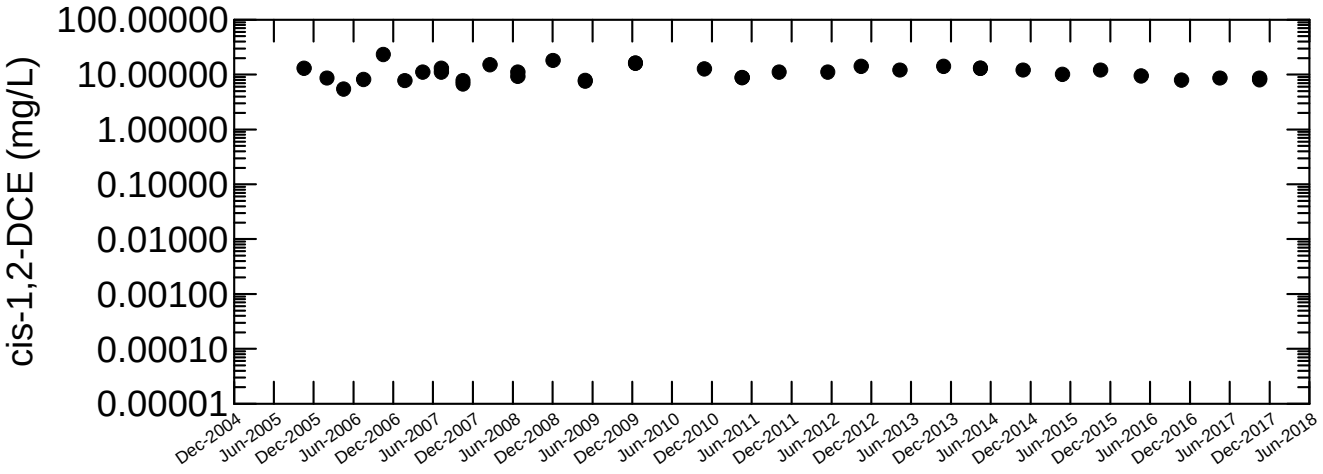

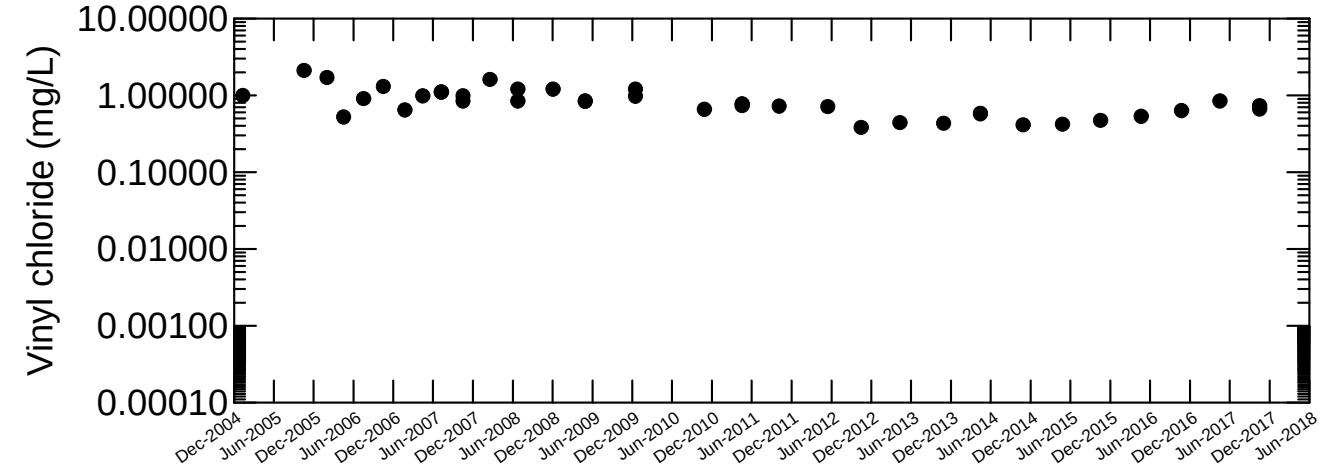

Legend:

● Detected Result
○ Non-Detect Result

Note:
Non-detects are shown as the laboratory detection limit.

MW-4

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
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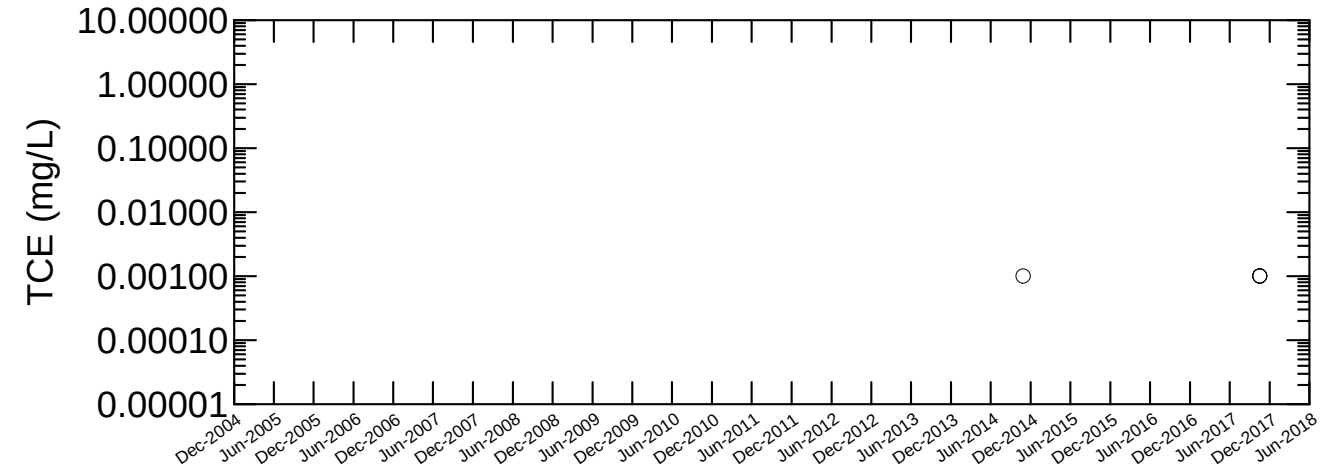

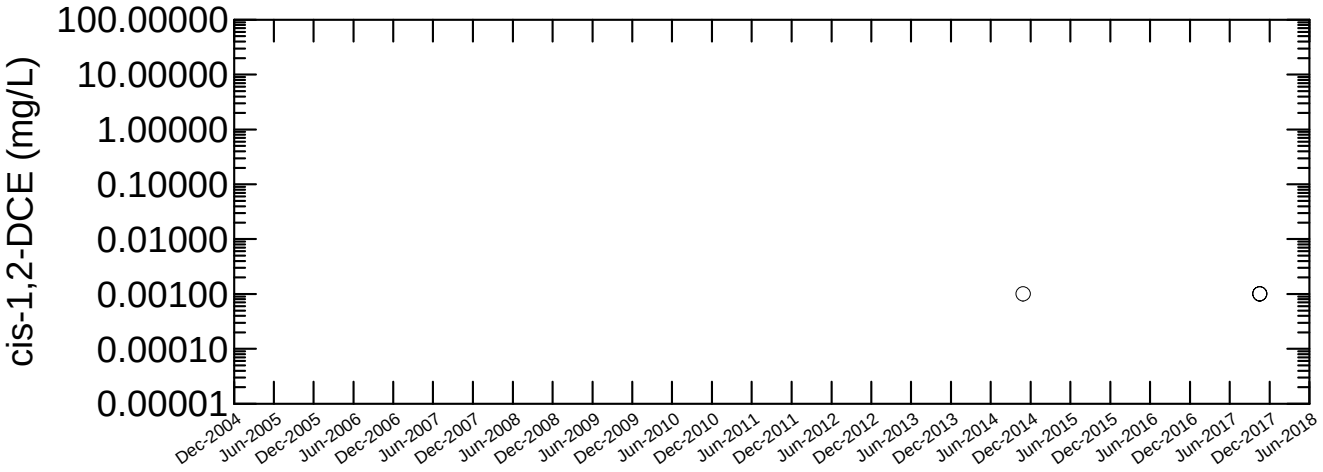

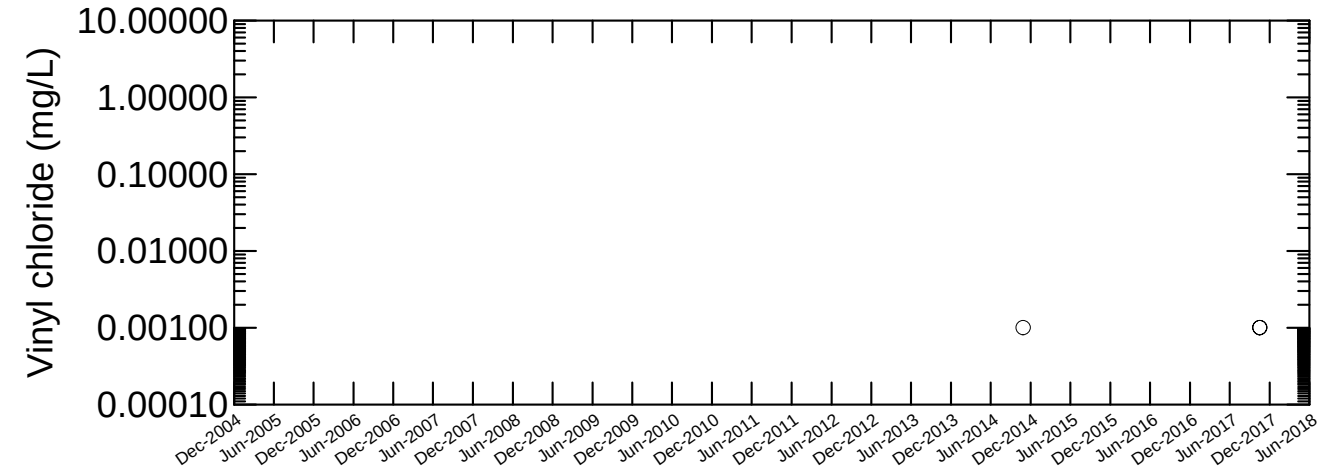

Legend:

● Detected Result
○ Non-Detect Result

MW-7

CONCENTRATION vs. TIME
2017 ANNUAL GROUNDWATER MONITORING REPORT
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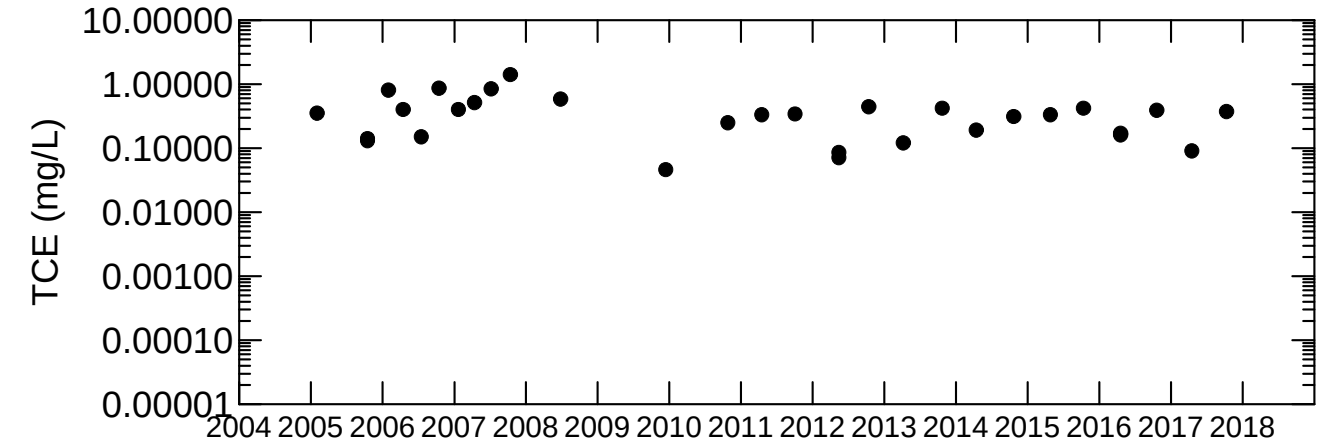
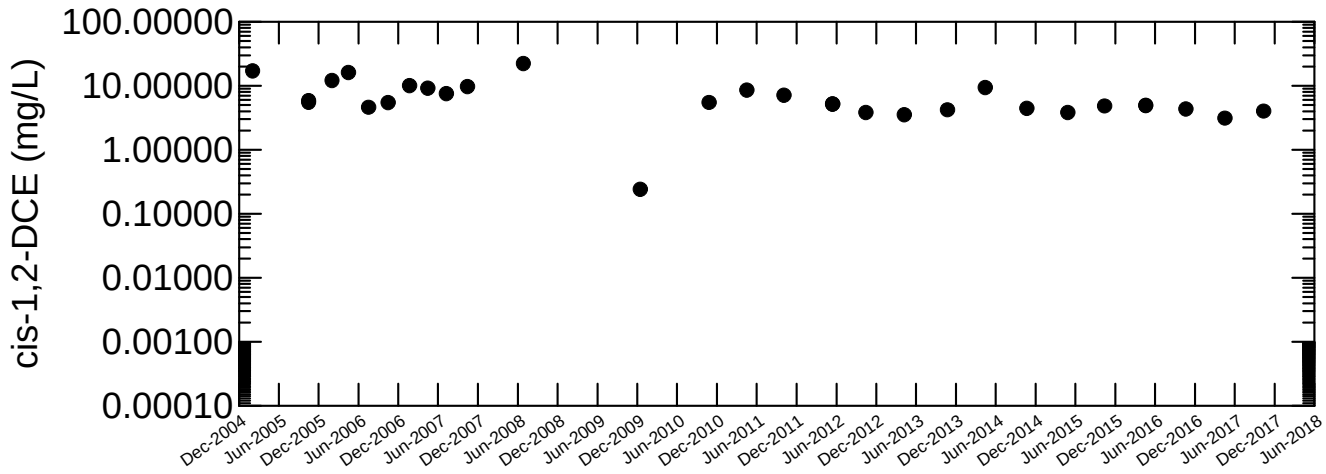
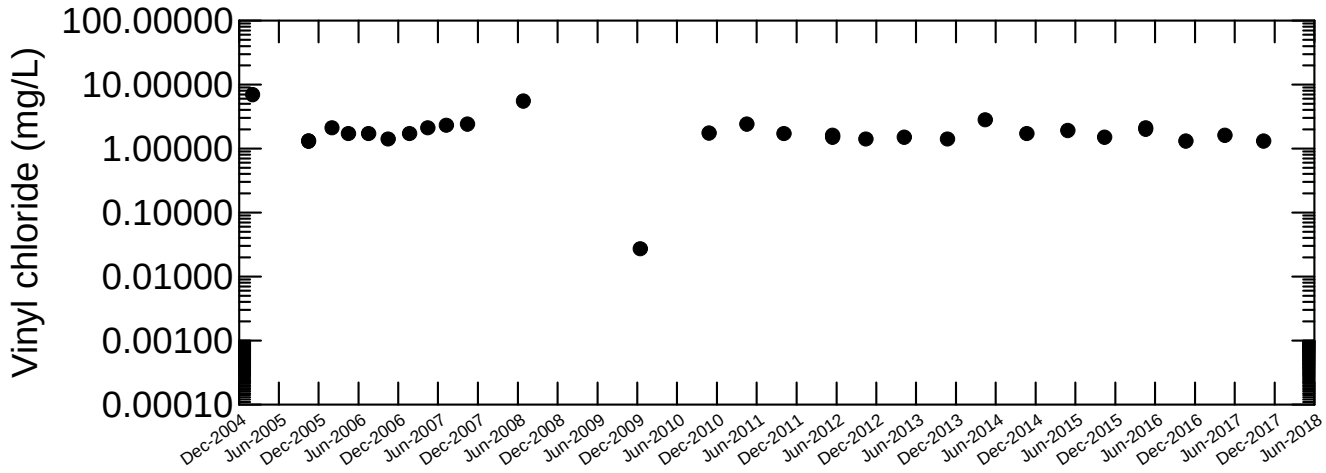
Note:
Non-detects are shown as the laboratory detection limit.







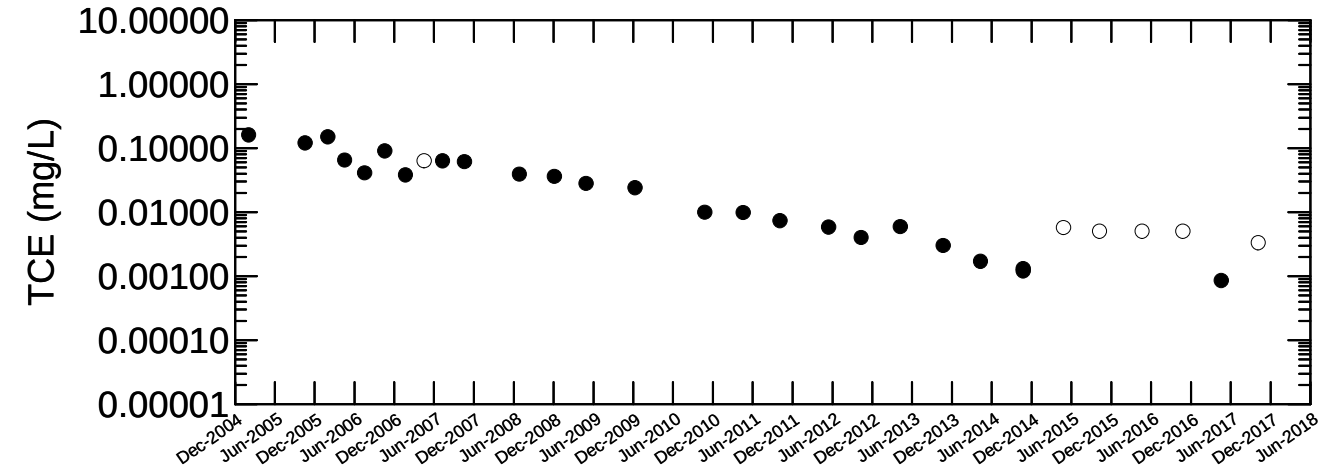
Legend:

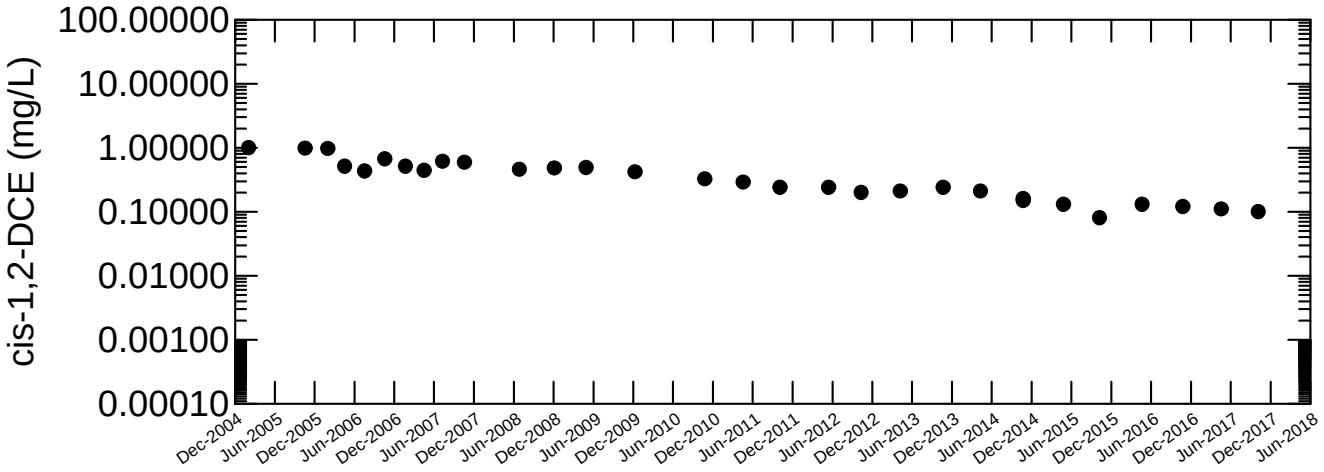
● Detected Result
○ Non-Detect Result

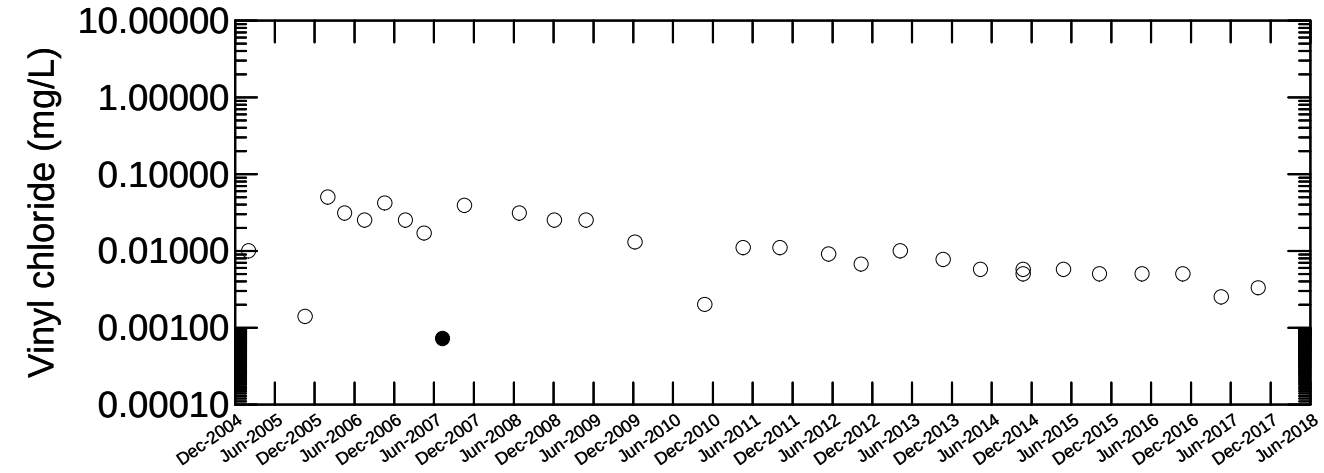
Note:
Non-detects are shown as the laboratory detection limit.

MW 8

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







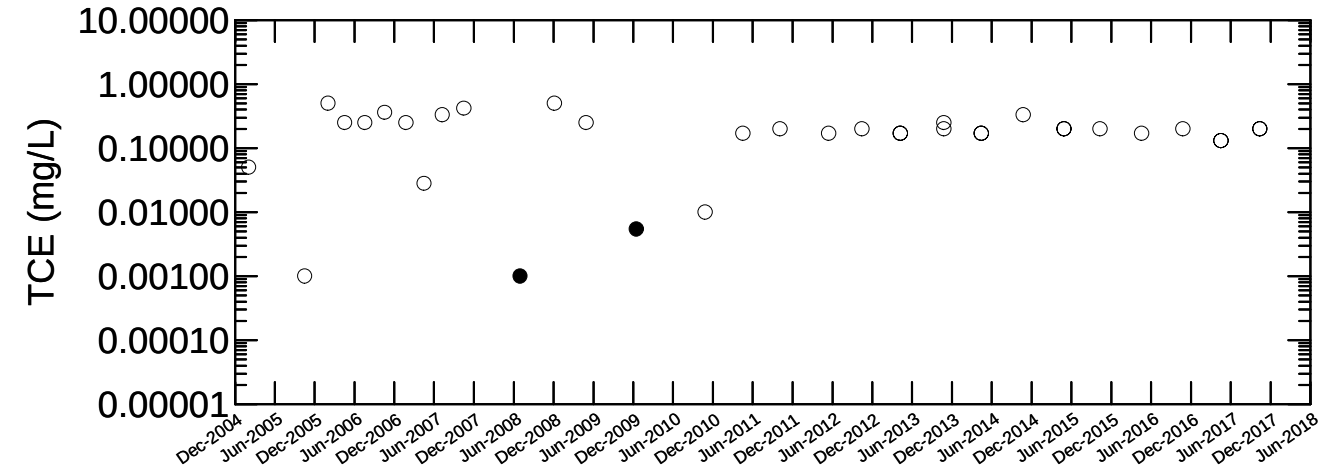
Legend:

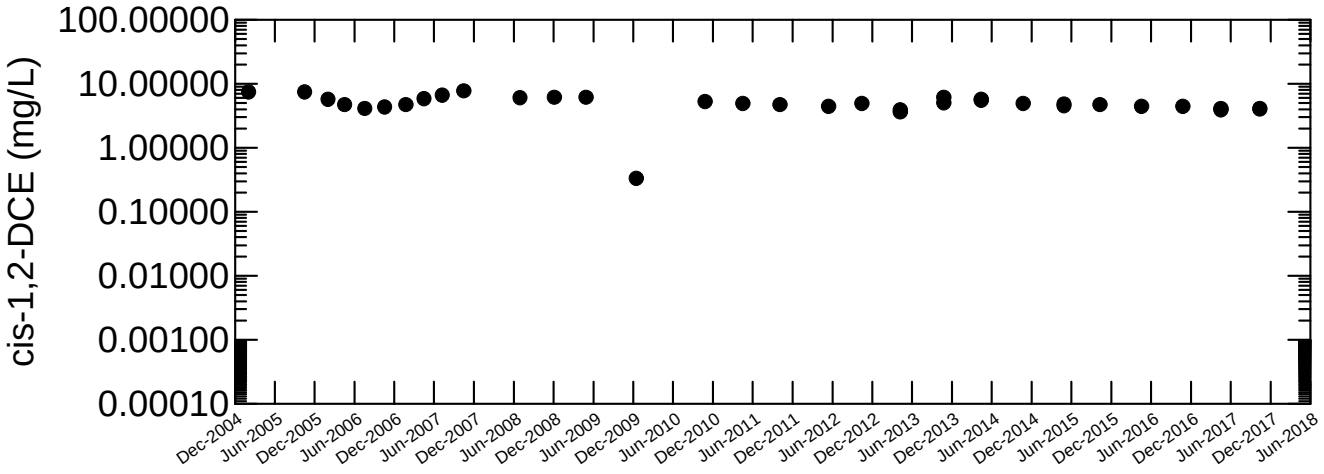
● Detected Result
○ Non-Detect Result

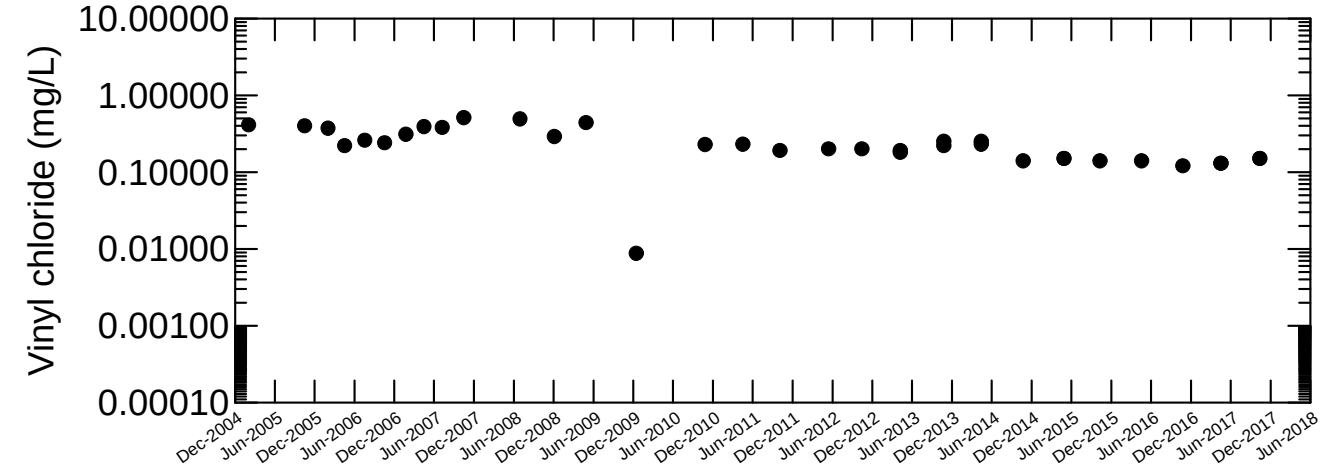
Note:
Non-detects are shown as the laboratory detection limit.

MW 12

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







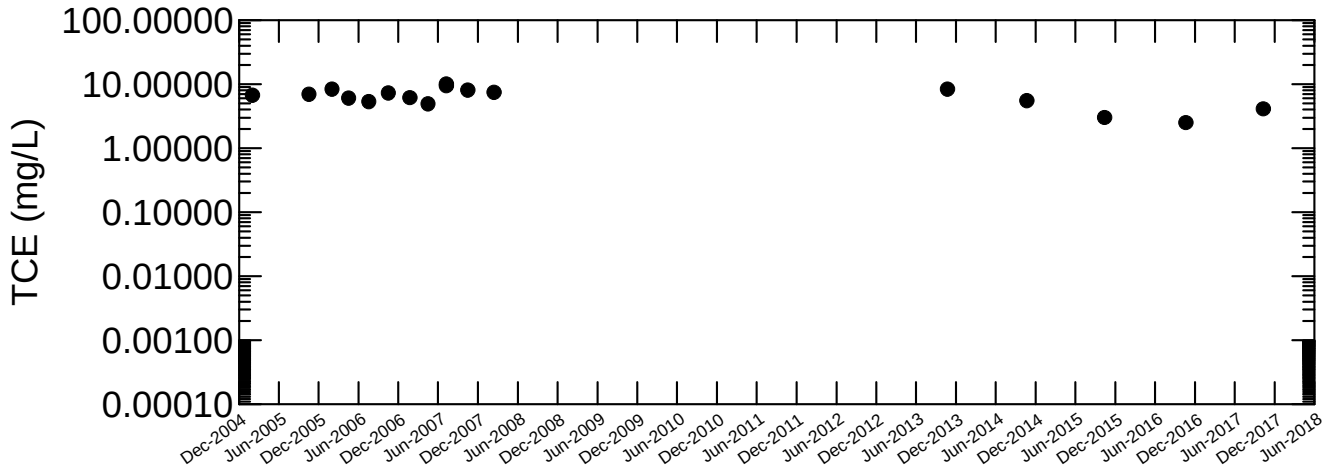
Legend:

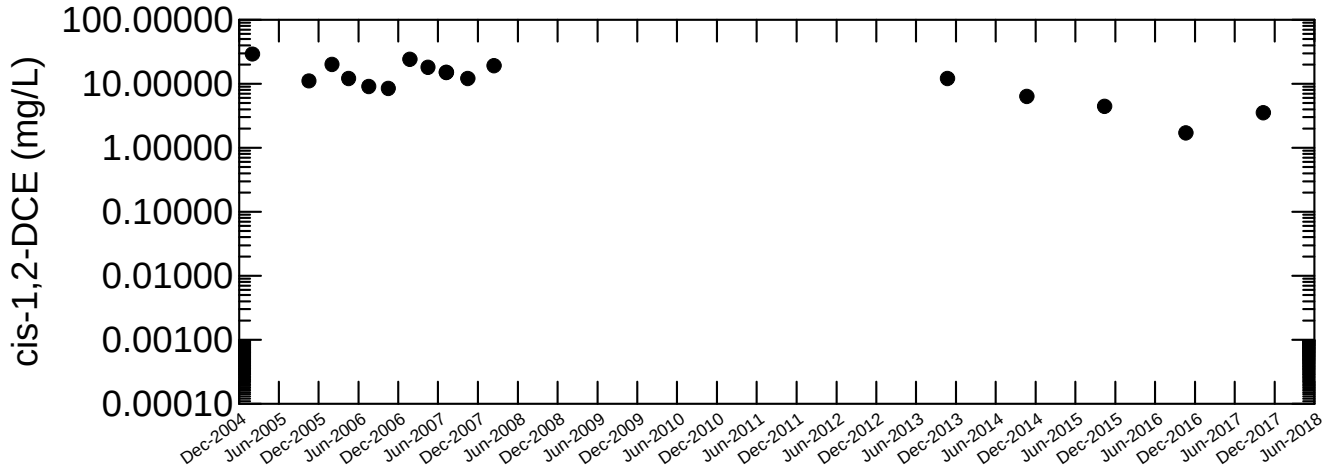
● Detected Result
○ Non-Detect Result

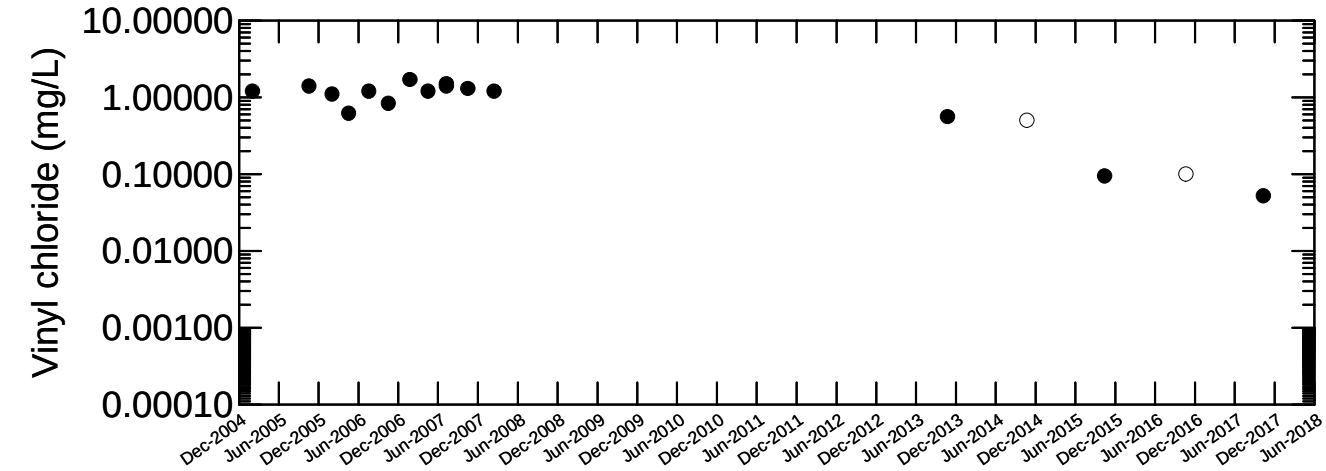
Note:
Non-detects are shown as the laboratory detection limit.

MW 14

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







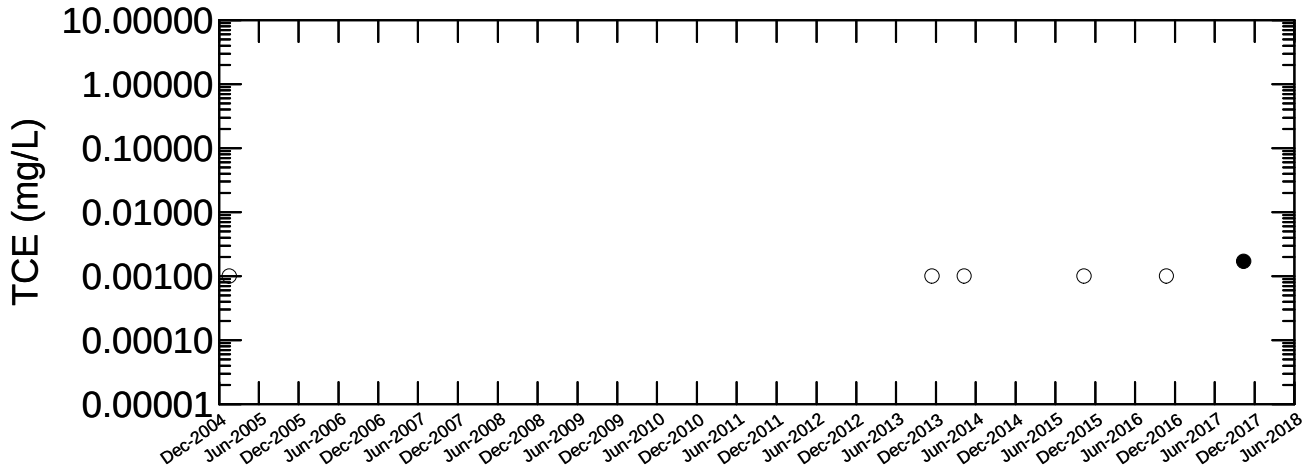
Legend:

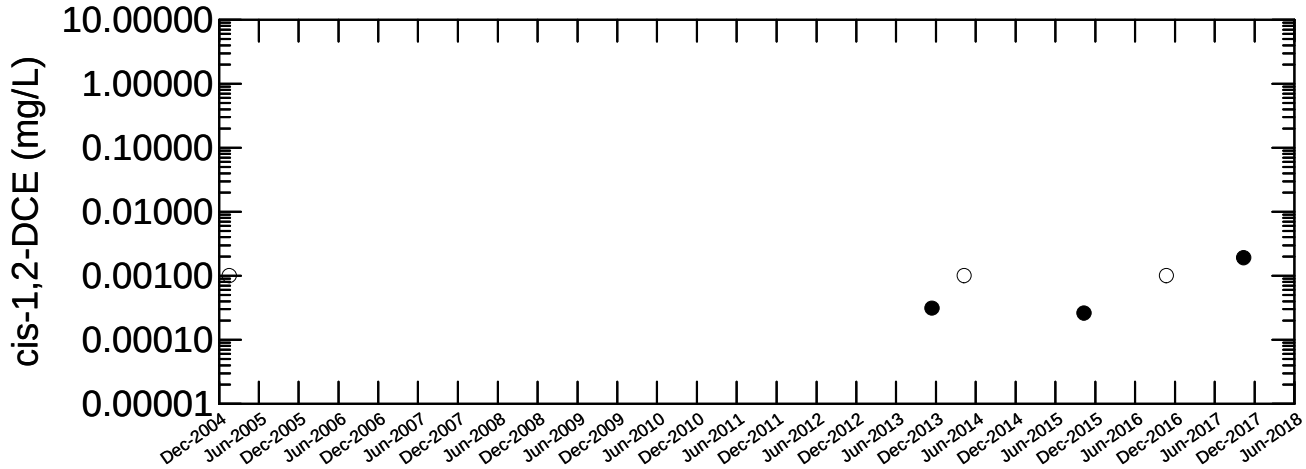
● Detected Result
○ Non-Detect Result

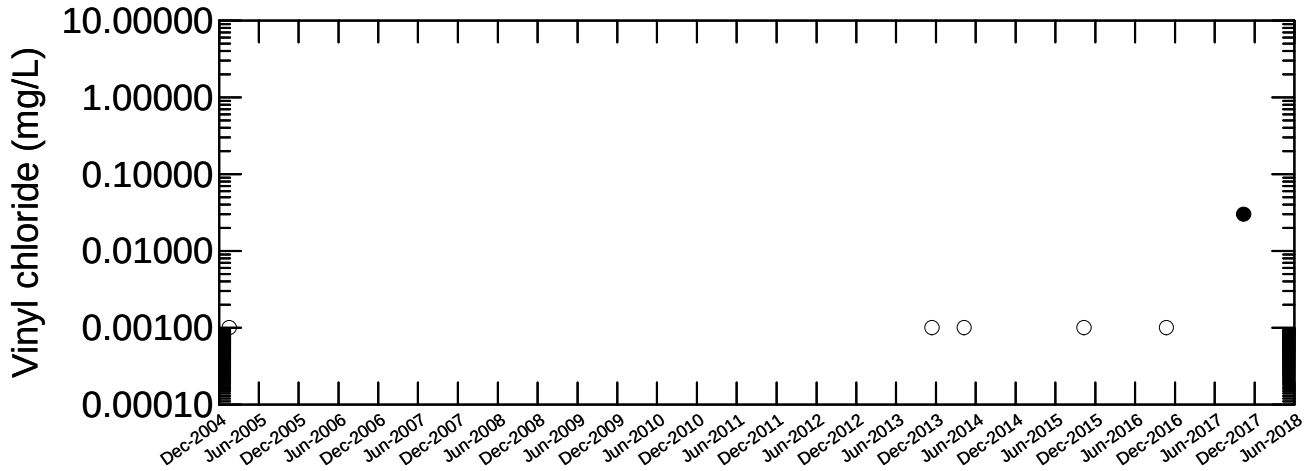
Note:
Non-detects are shown as the laboratory detection limit.

MW 15

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







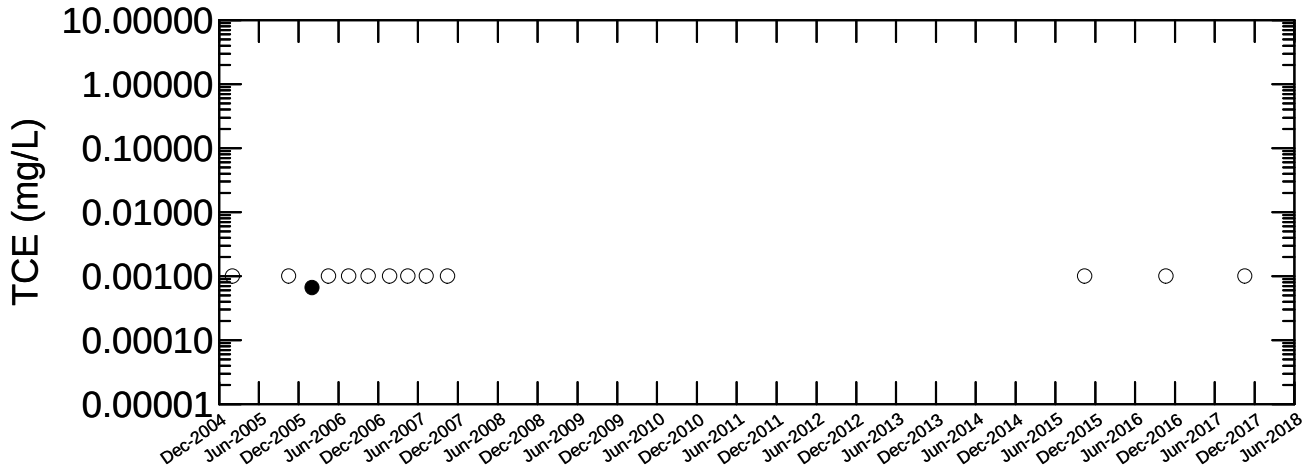
Legend:

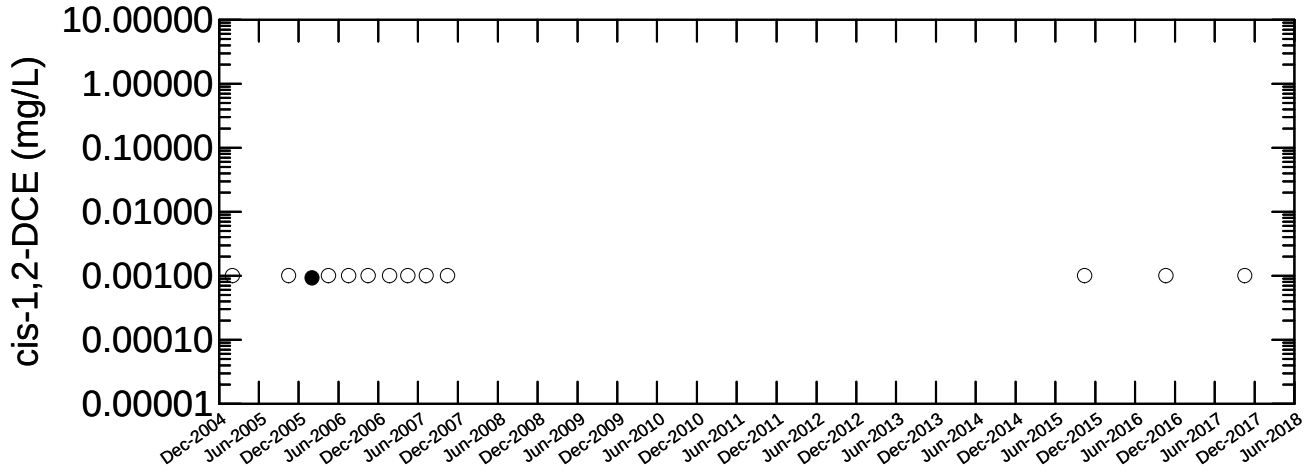
● Detected Result
○ Non-Detect Result

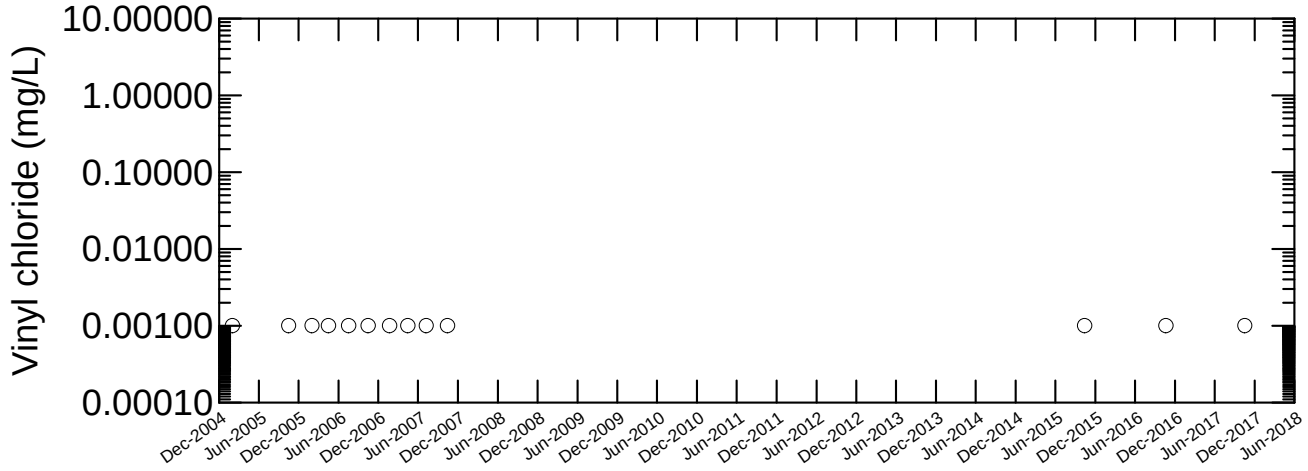
Note:
Non-detects are shown as the laboratory detection limit.

MW 16

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







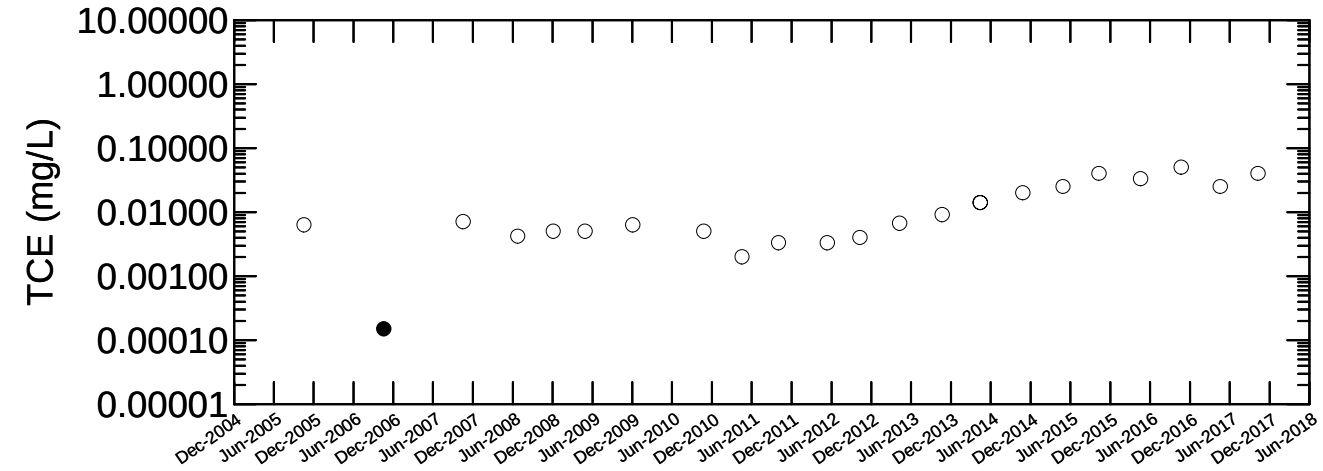
Legend:

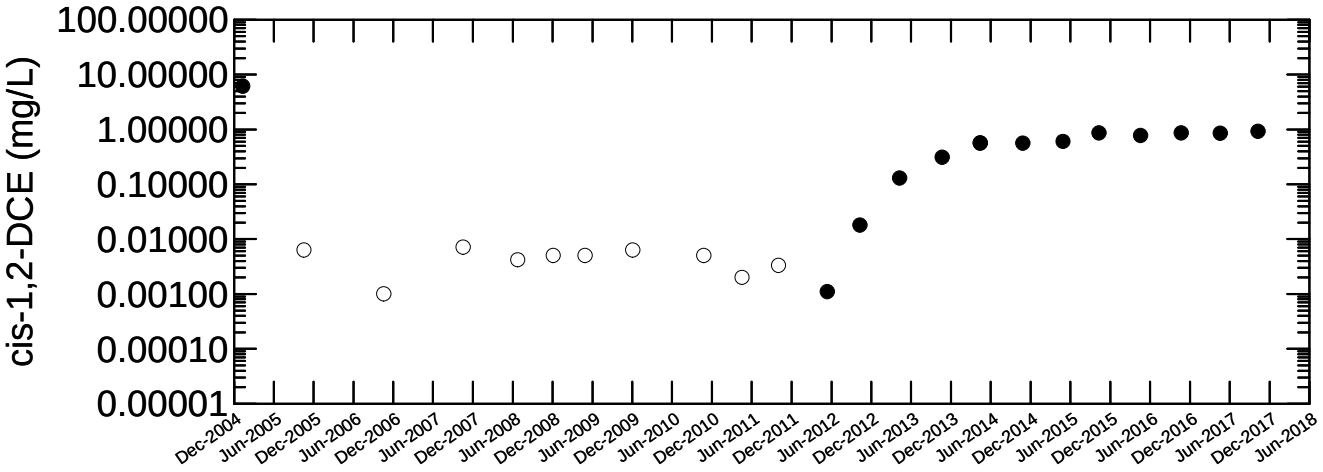
● Detected Result
○ Non-Detect Result

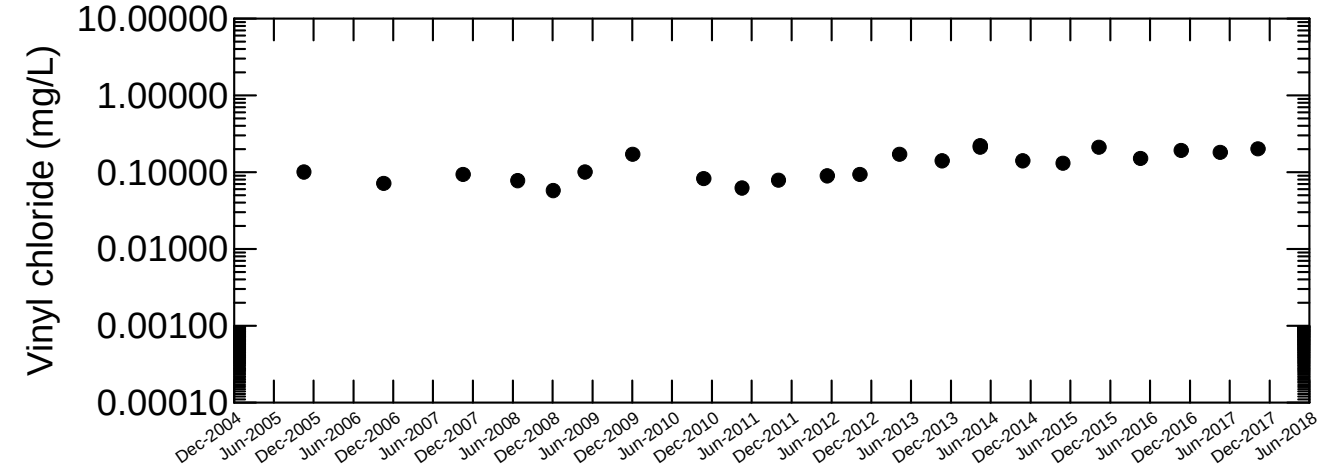
Note:
Non-detects are shown as the laboratory detection limit.

MW 21

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







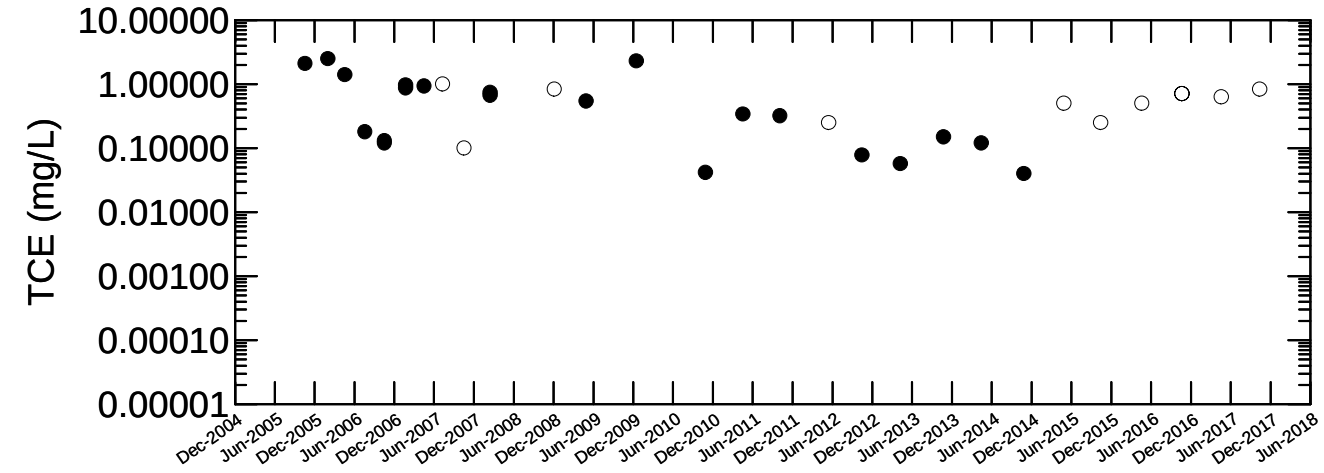
Legend:

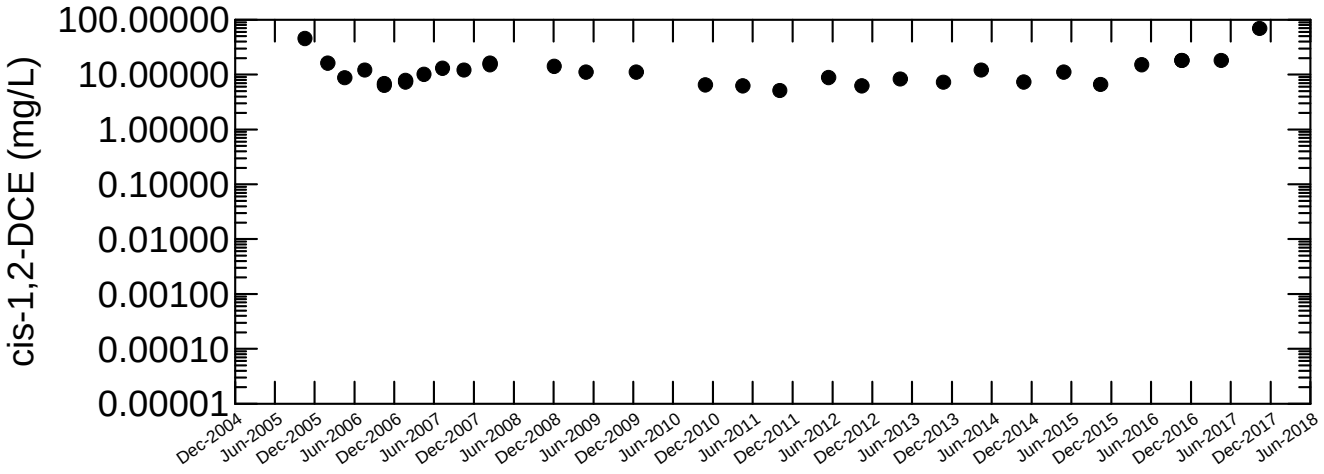
● Detected Result
○ Non-Detect Result

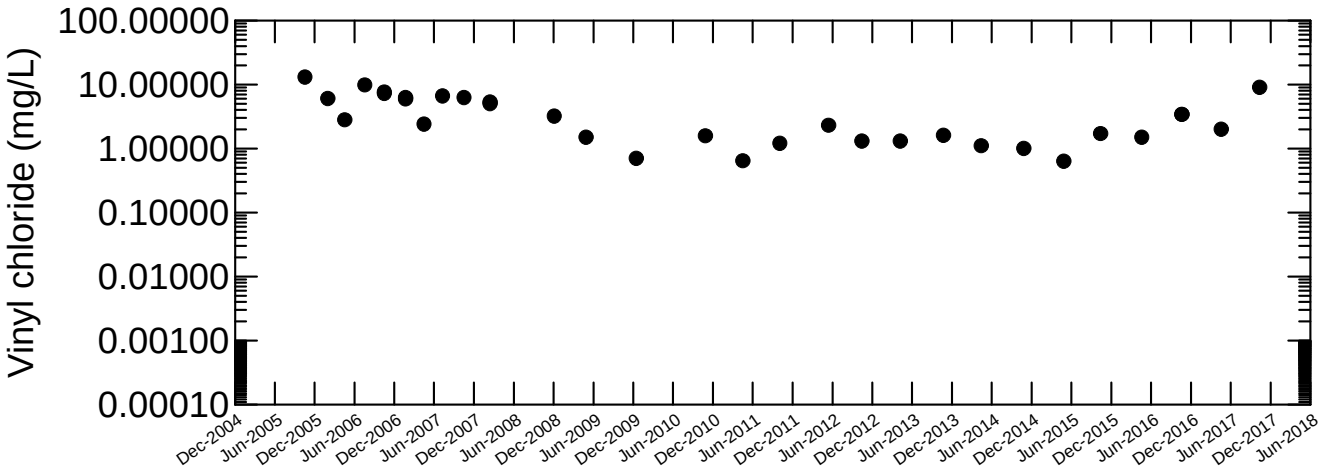
Note:
Non-detects are shown as the laboratory detection limit.

MW 28

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







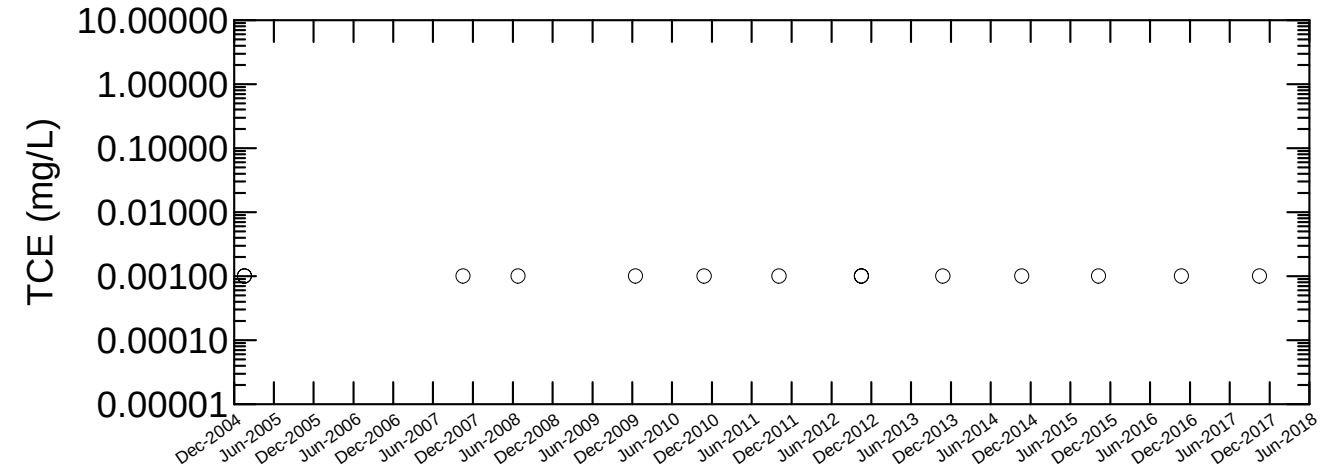
Legend:

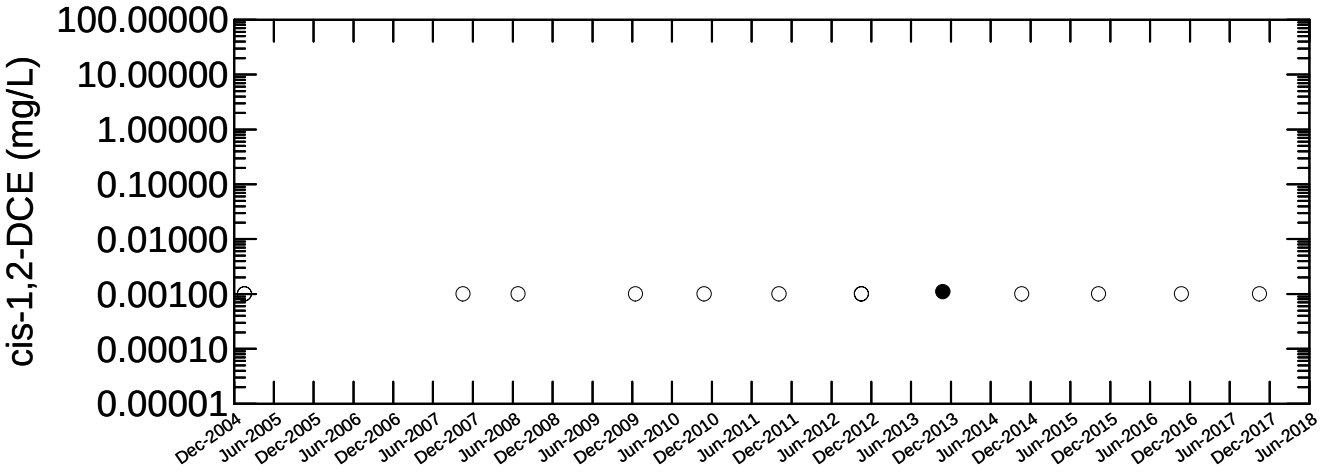
● Detected Result
○ Non-Detect Result

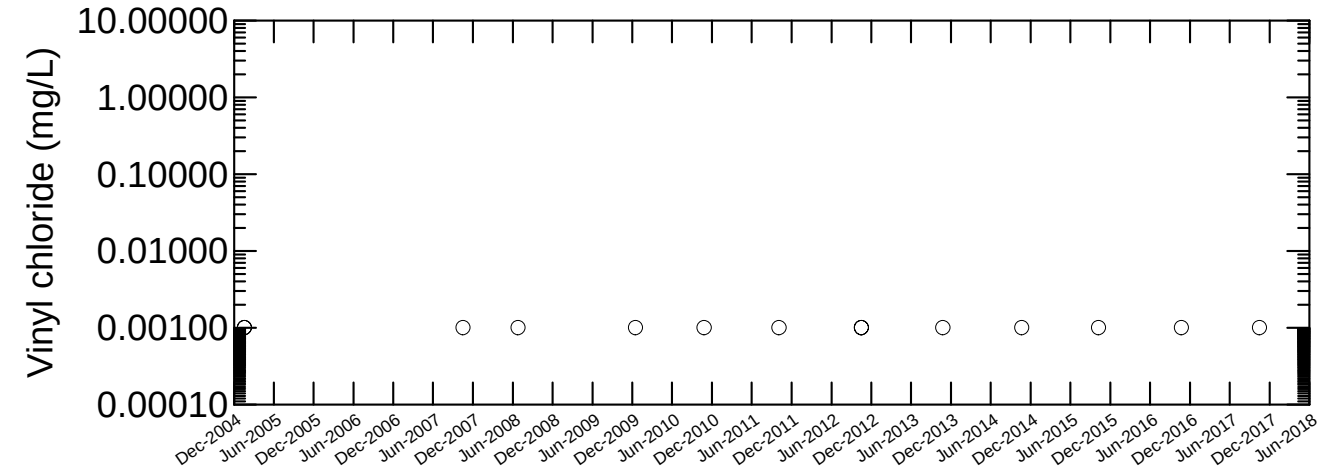
Note:
Non-detects are shown as the laboratory detection limit.

MW 31R

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







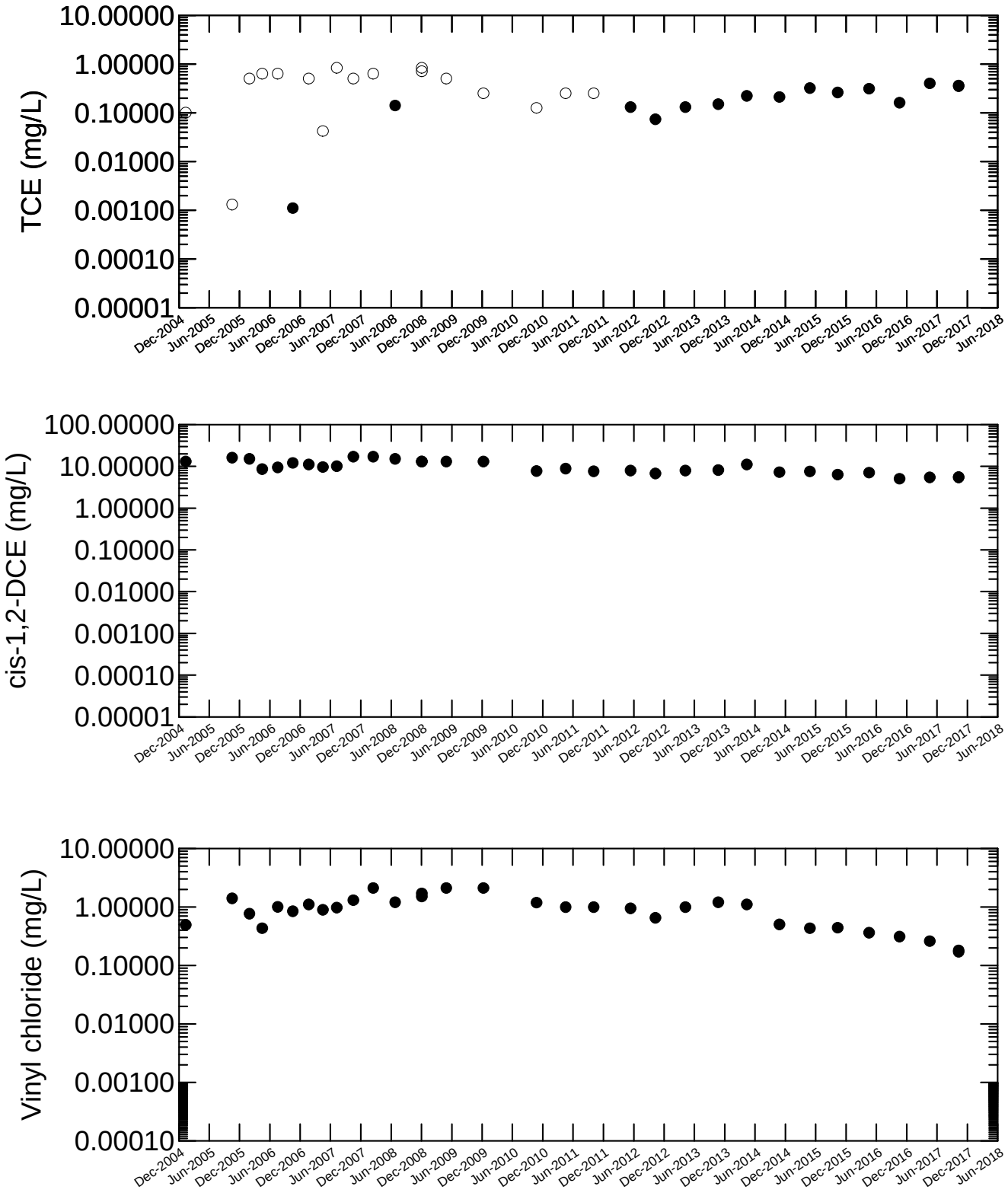
Legend:

● Detected Result
○ Non-Detect Result

Note:
Non-detects are shown as the laboratory detection limit.

MW 37

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana



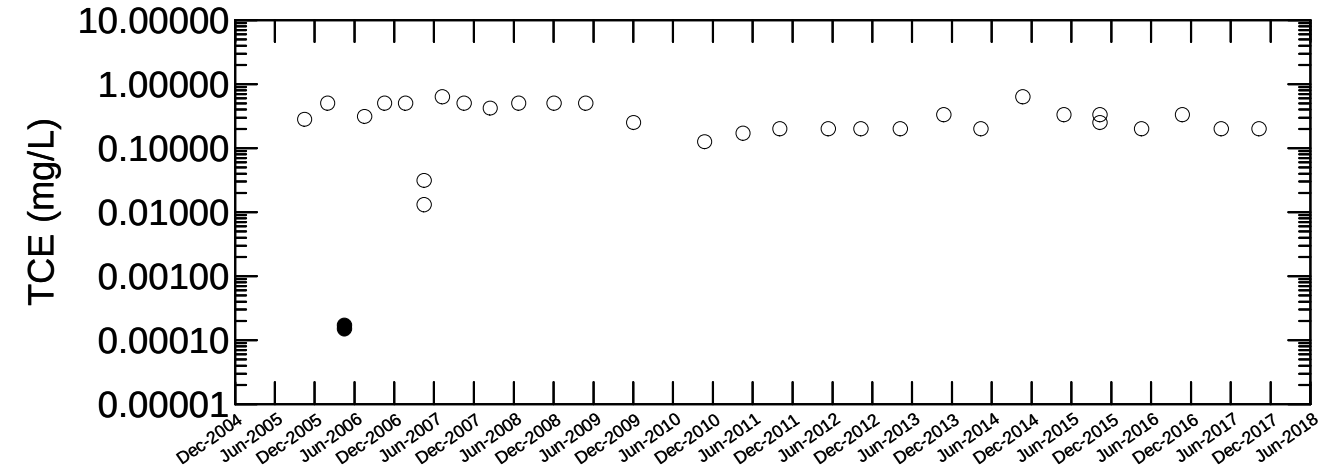
Legend:

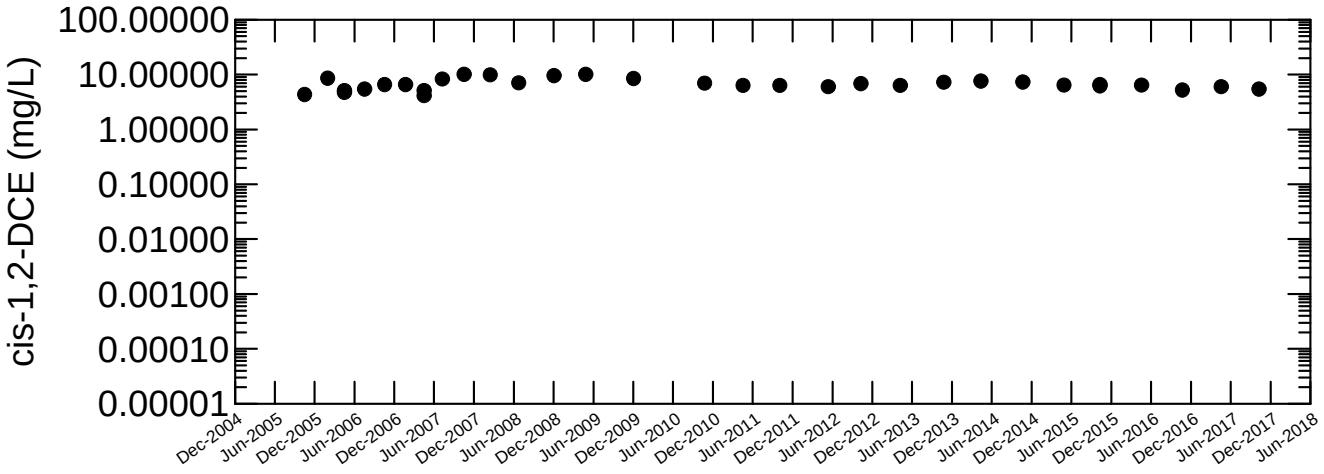
● Detected Result
○ Non-Detect Result

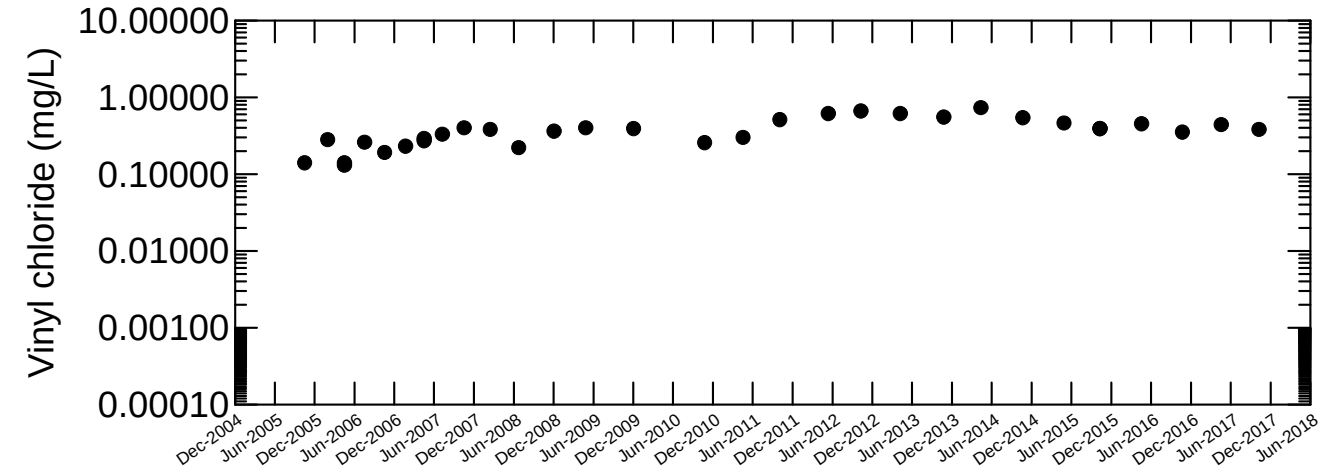
Note:
Non-detects are shown as the laboratory detection limit.

MW 40

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







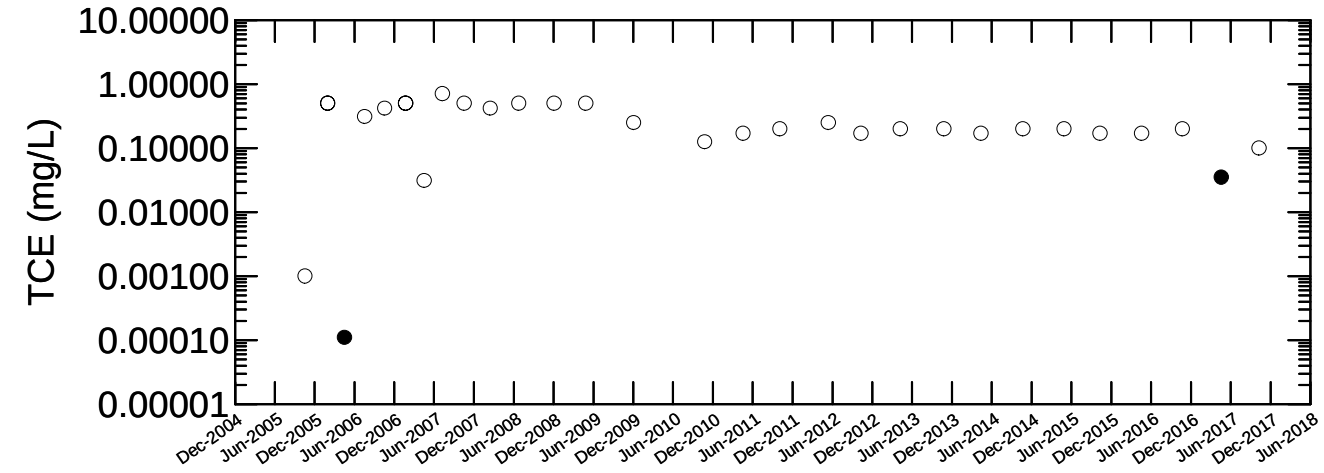
Legend:

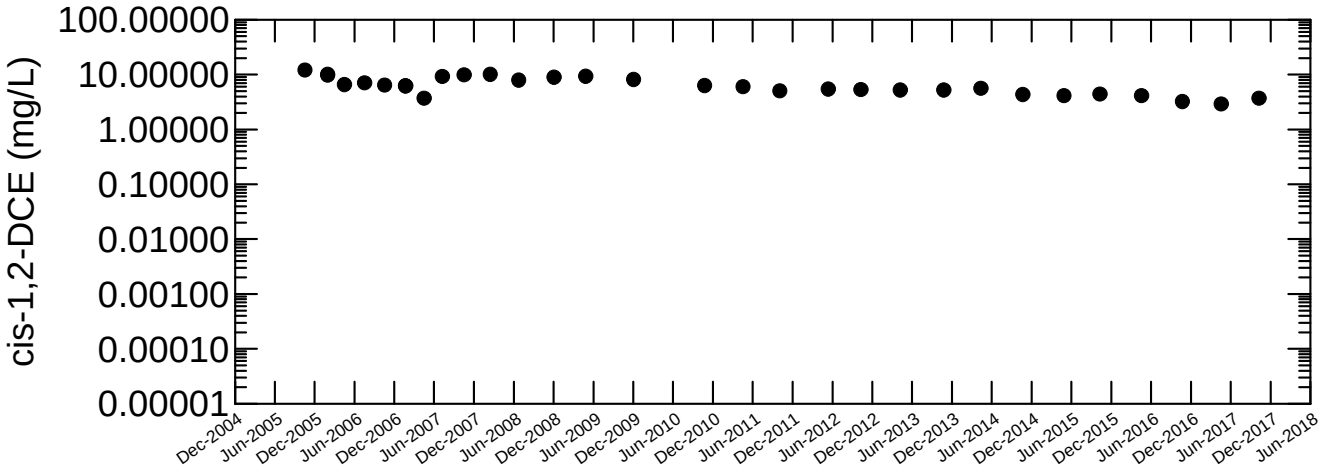
● Detected Result
○ Non-Detect Result

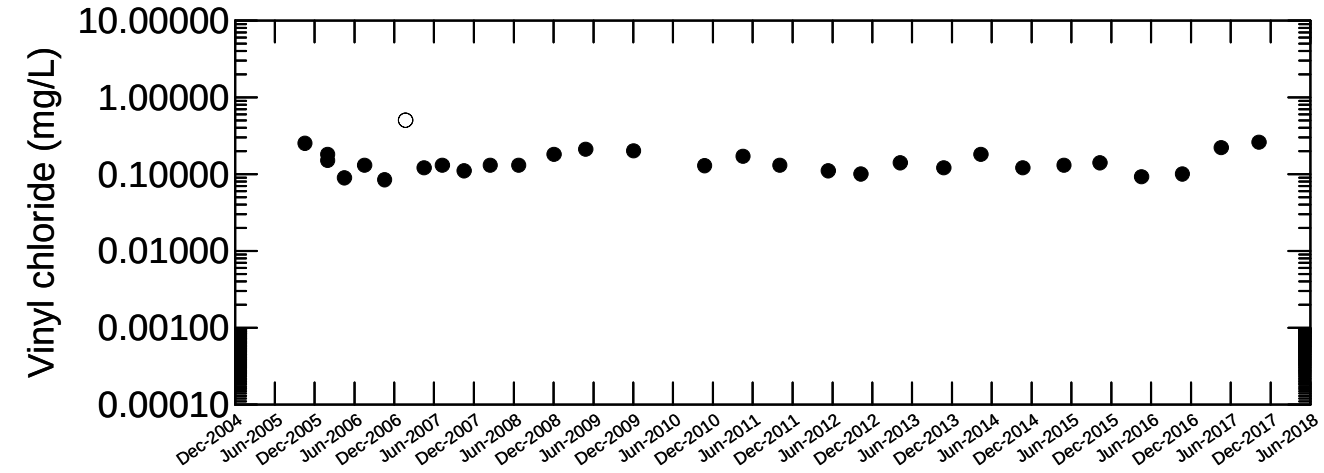
Note:
Non-detects are shown as the laboratory detection limit.

MW 41

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







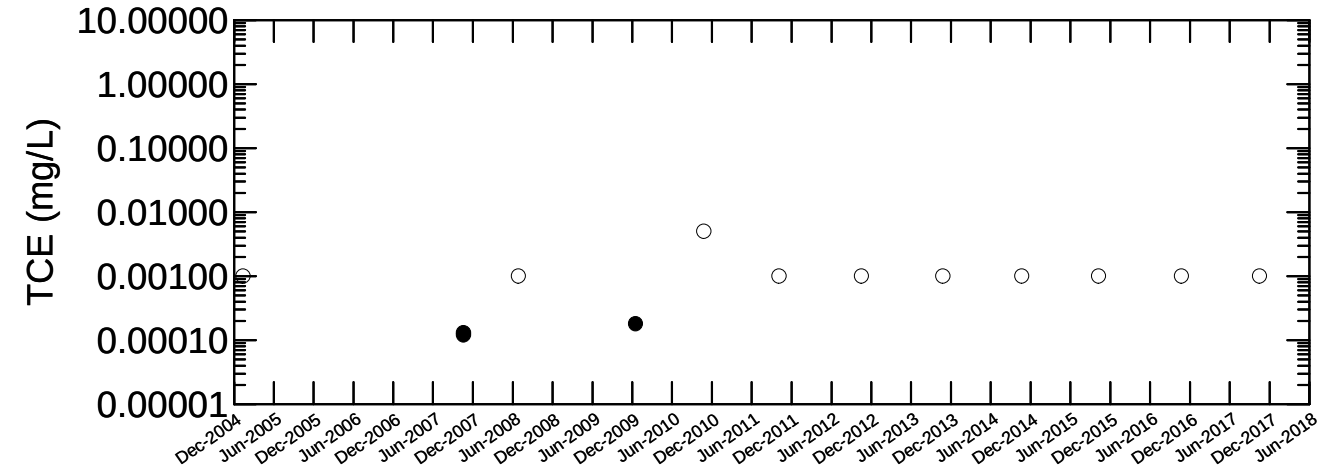
Legend:

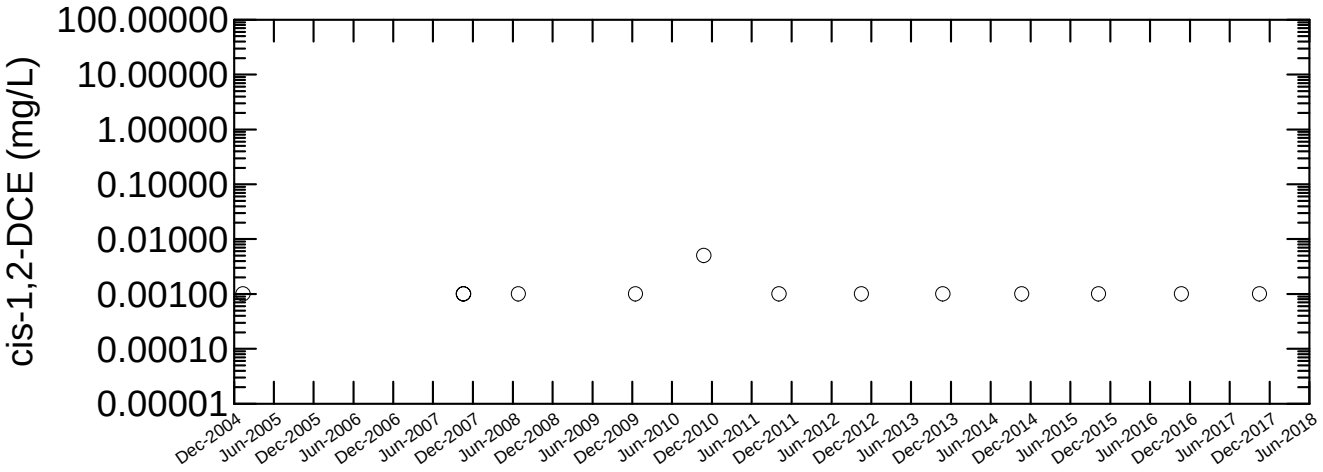
● Detected Result
○ Non-Detect Result

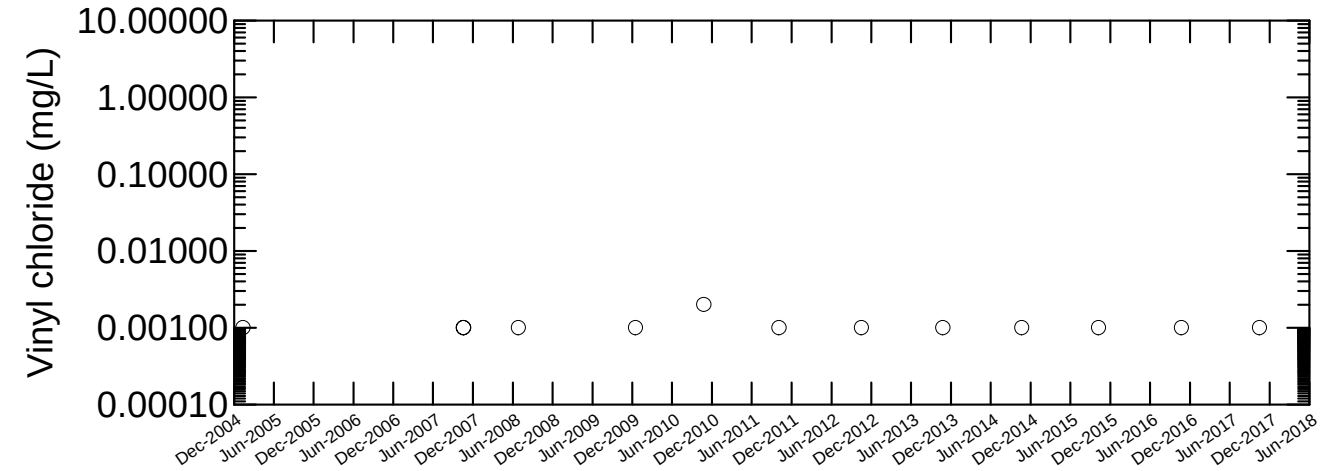
Note:
Non-detects are shown as the laboratory detection limit.

MW 42

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







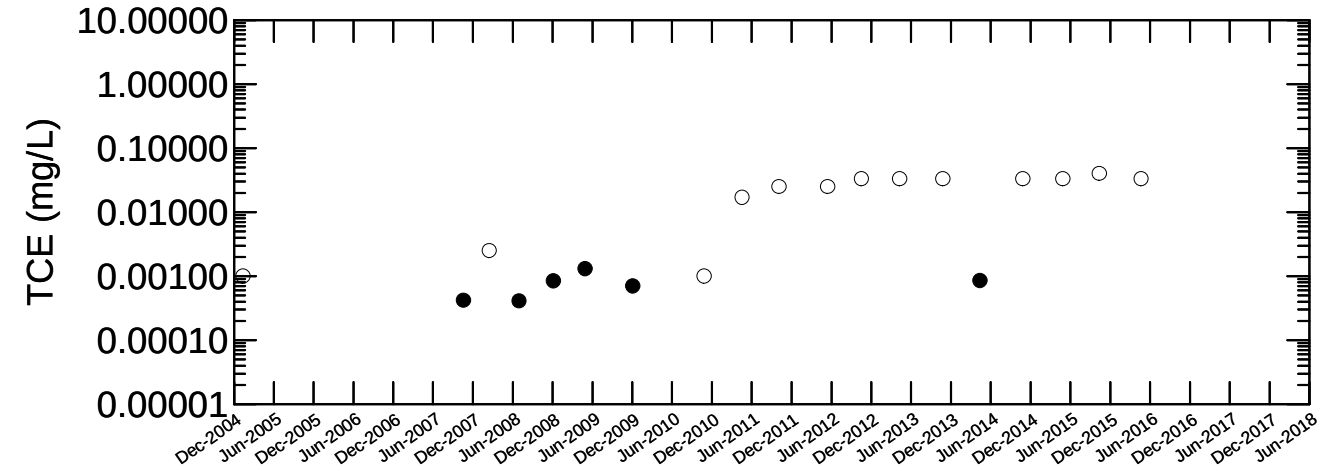
Legend:

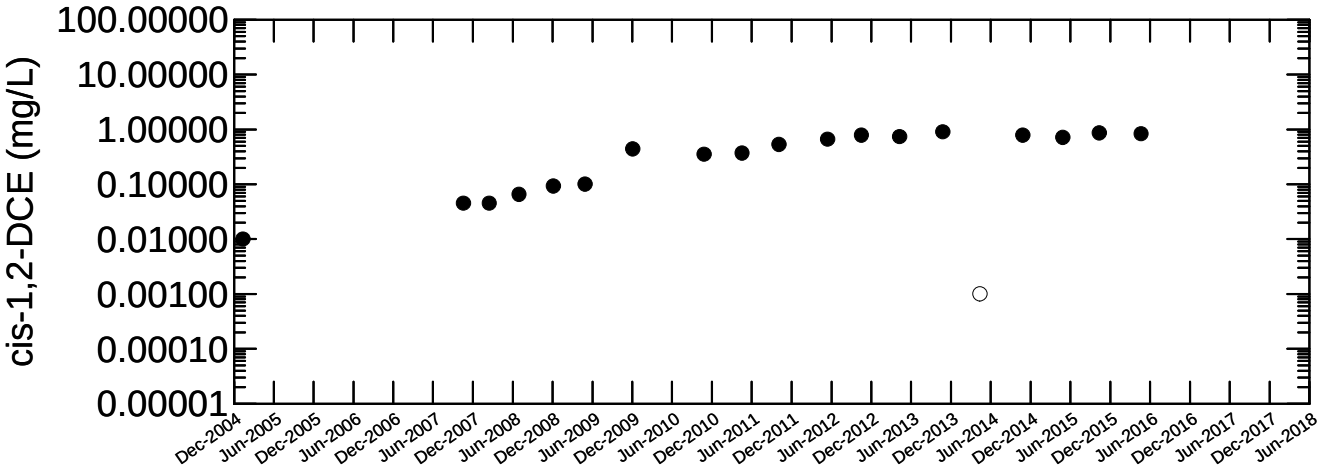
● Detected Result
○ Non-Detect Result

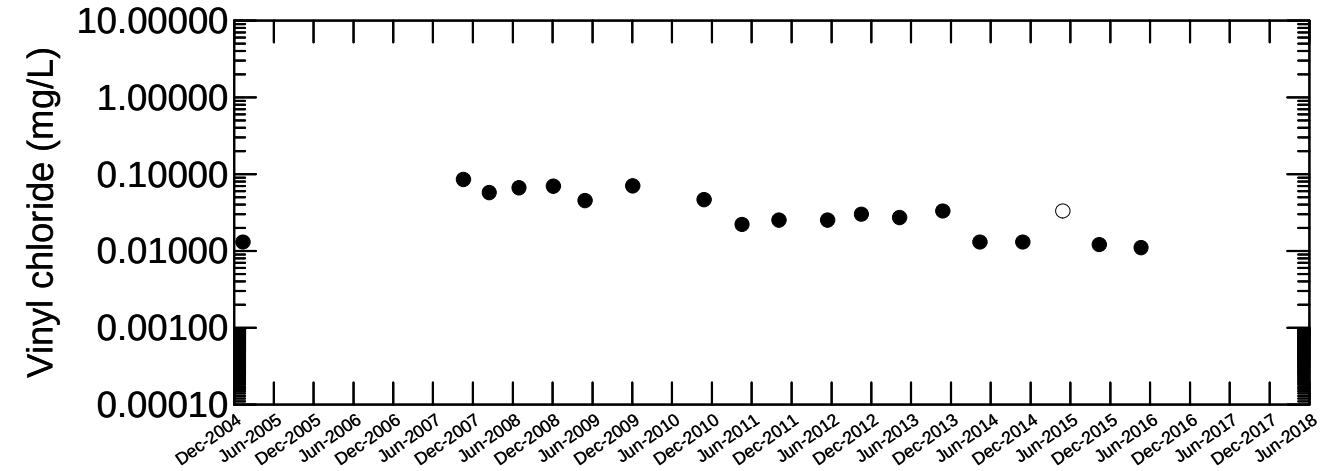
Note:
Non-detects are shown as the laboratory detection limit.

MW 46

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







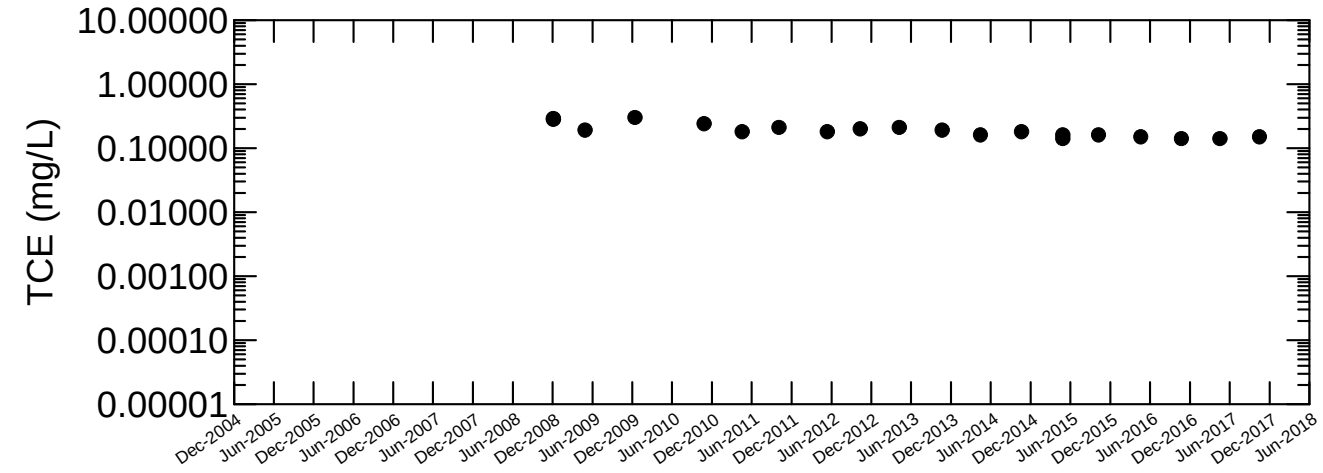
Legend:

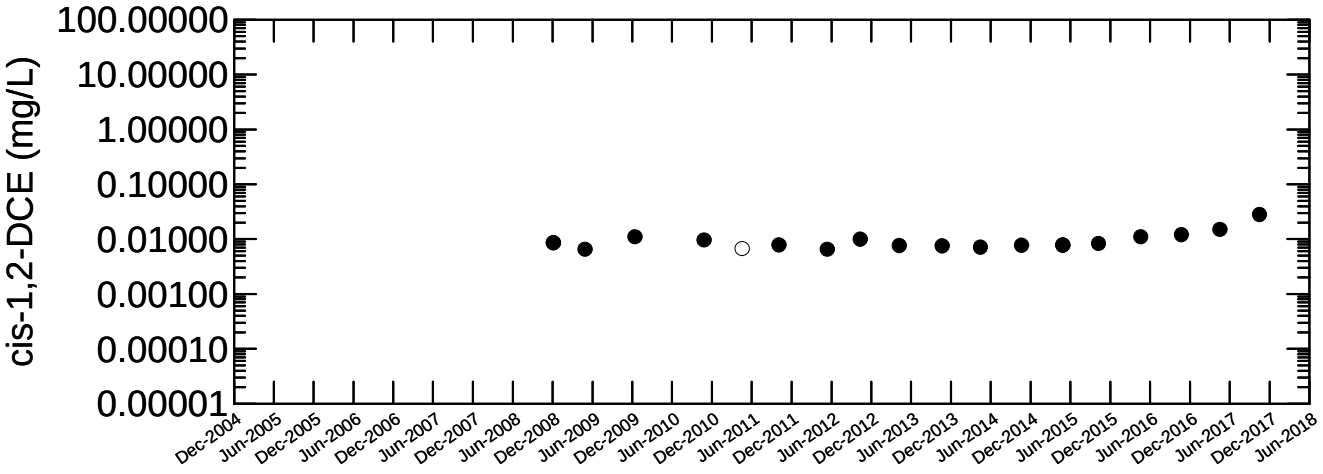
● Detected Result
○ Non-Detect Result

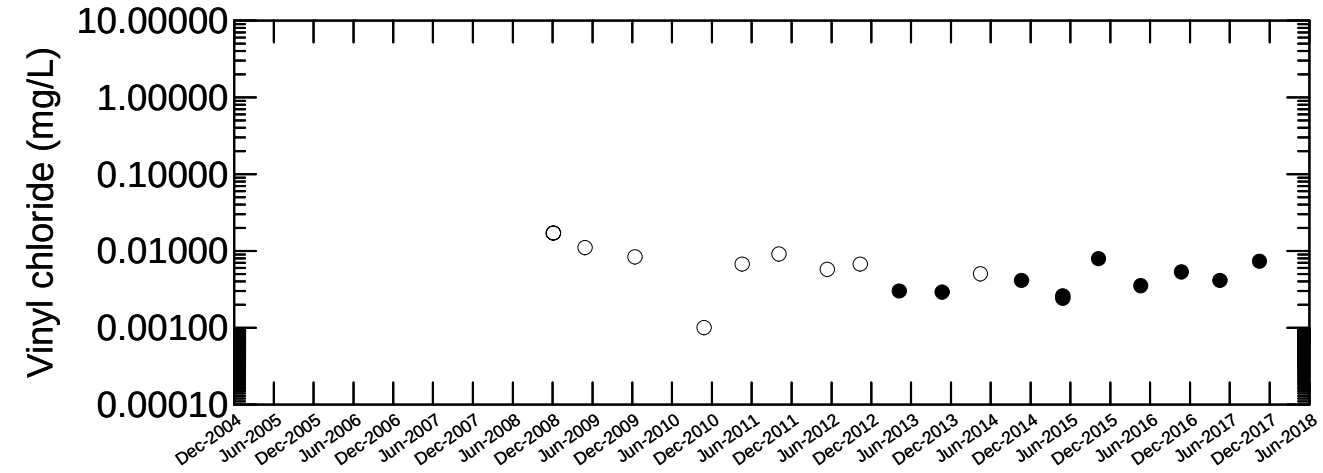
Note:
Non-detects are shown as the laboratory detection limit.

MW 49

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







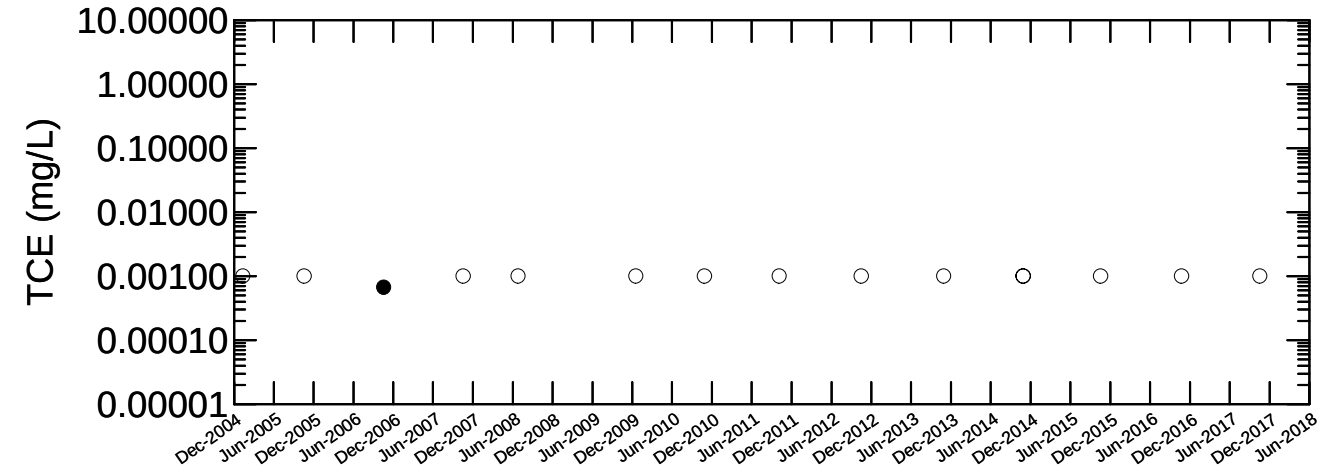
Legend:

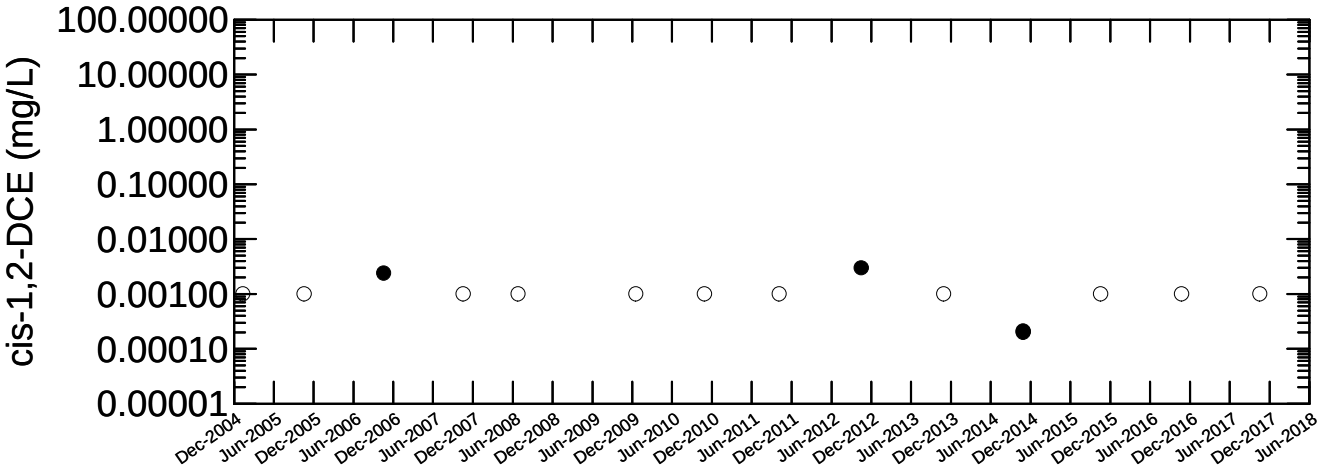
● Detected Result
○ Non-Detect Result

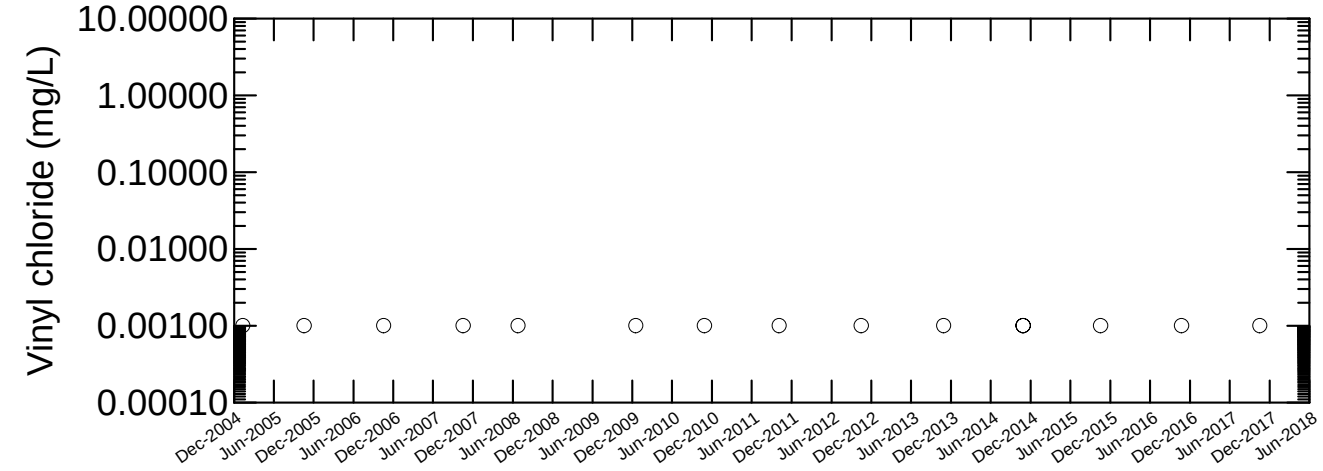
Note:
Non-detects are shown as the laboratory detection limit.

MW 51

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







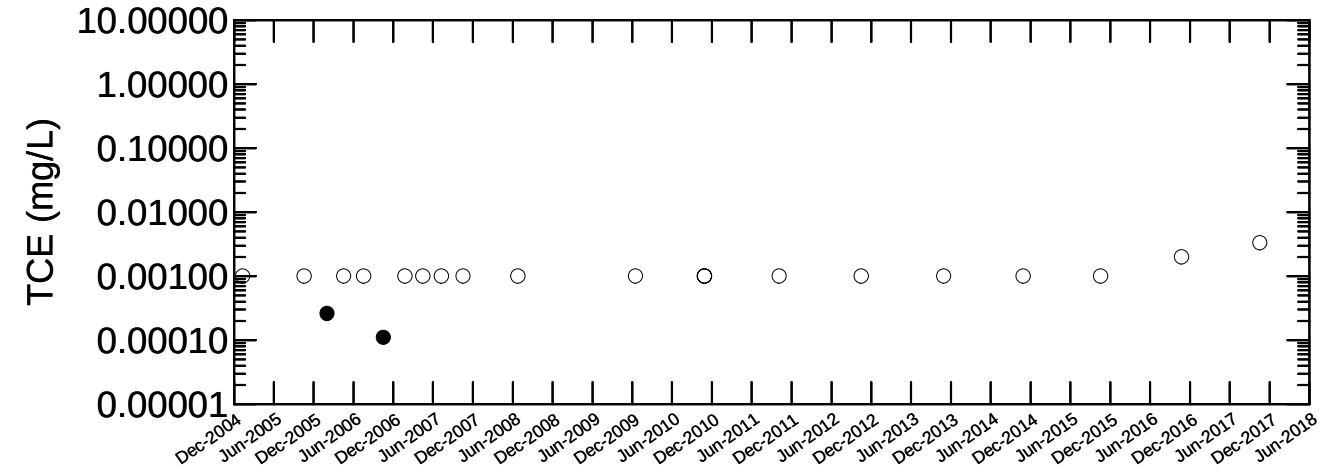
Legend:

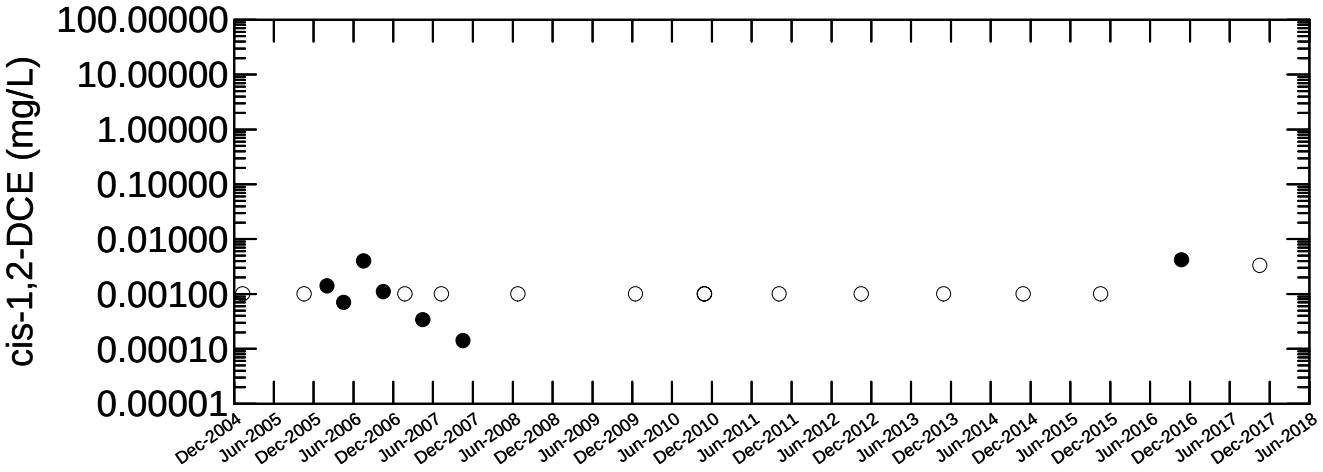
● Detected Result
○ Non-Detect Result

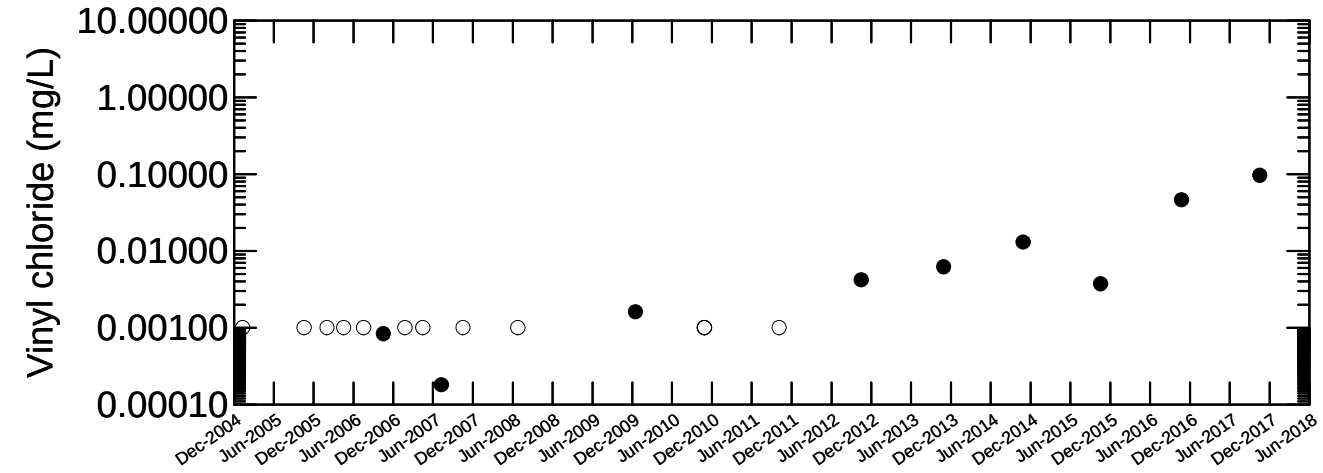
Note:
Non-detects are shown as the laboratory detection limit.

MW 56

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







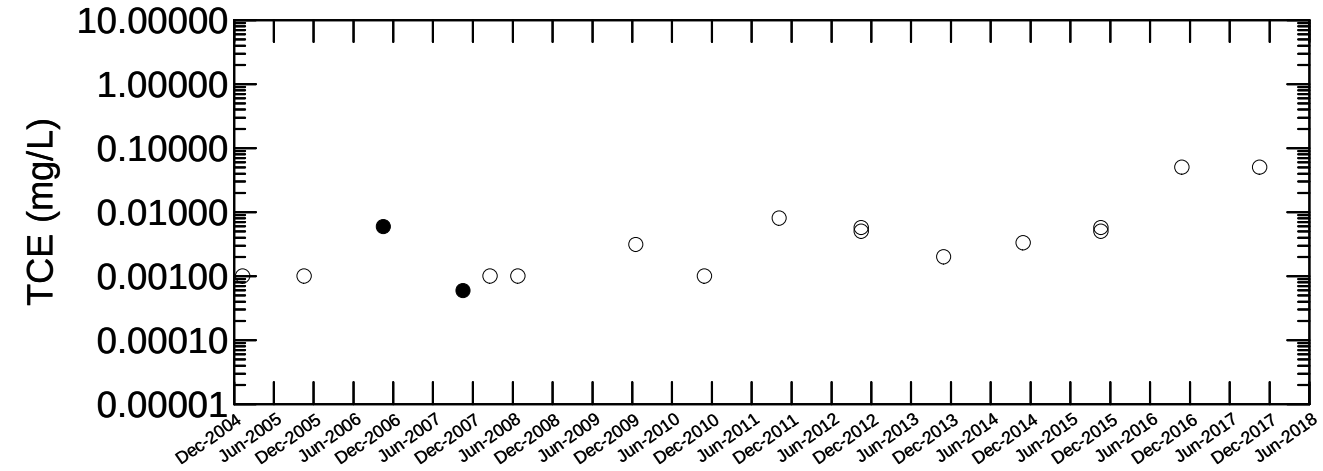
Legend:

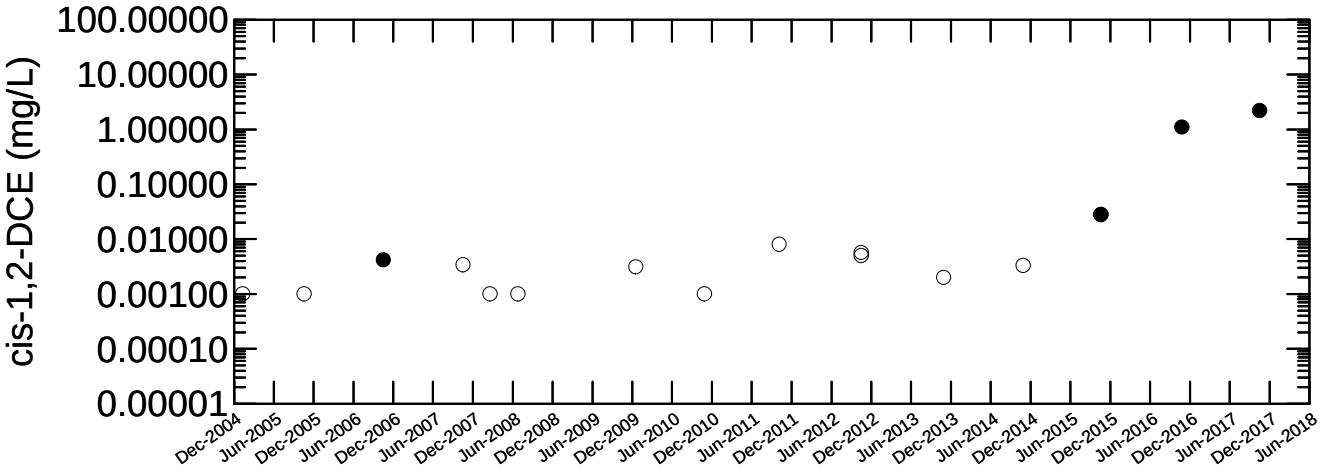
● Detected Result
○ Non-Detect Result

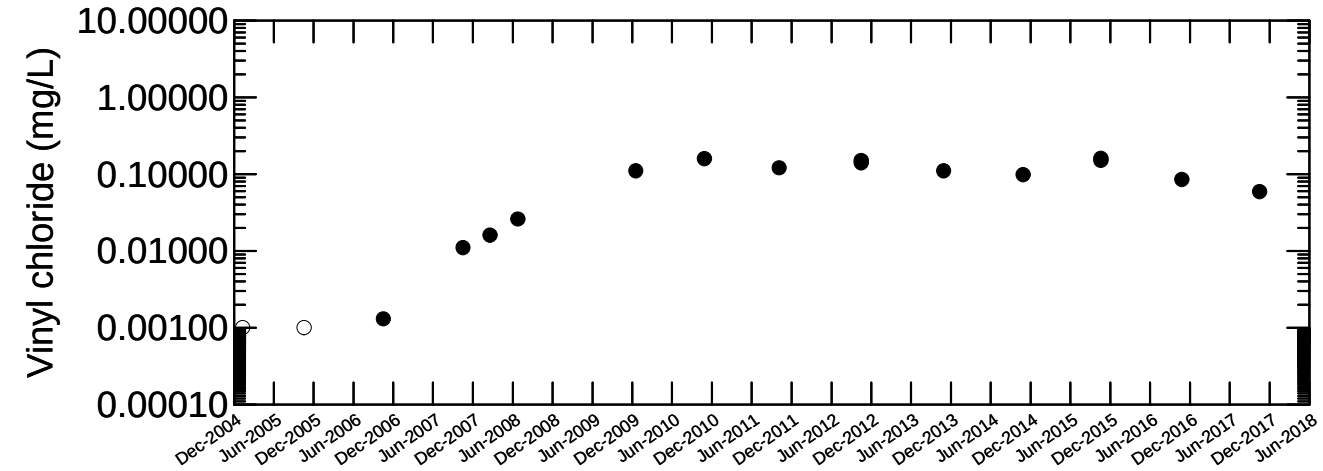
Note:
Non-detects are shown as the laboratory detection limit.

MW 57

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







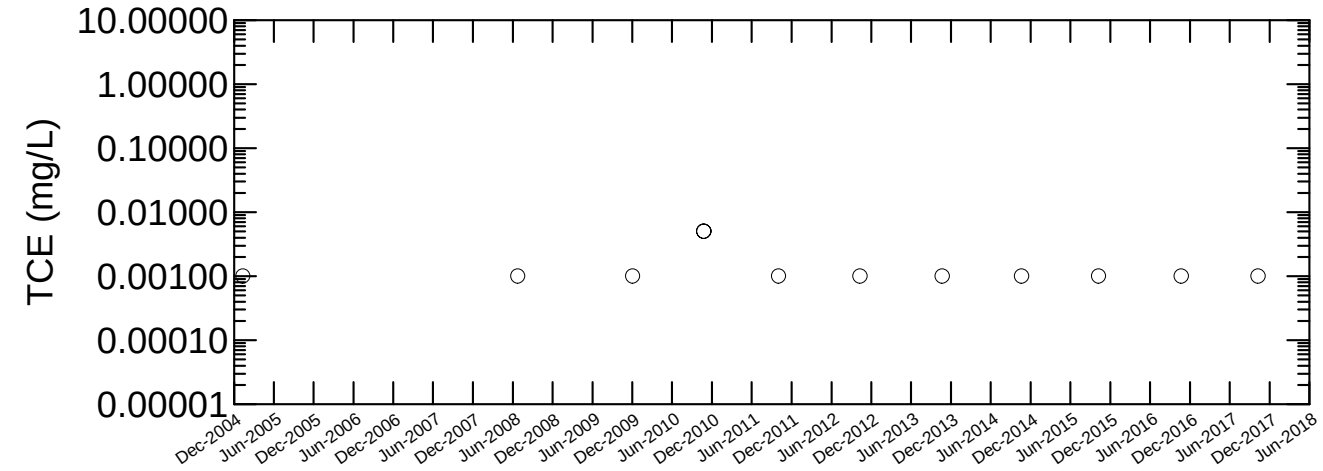
Legend:

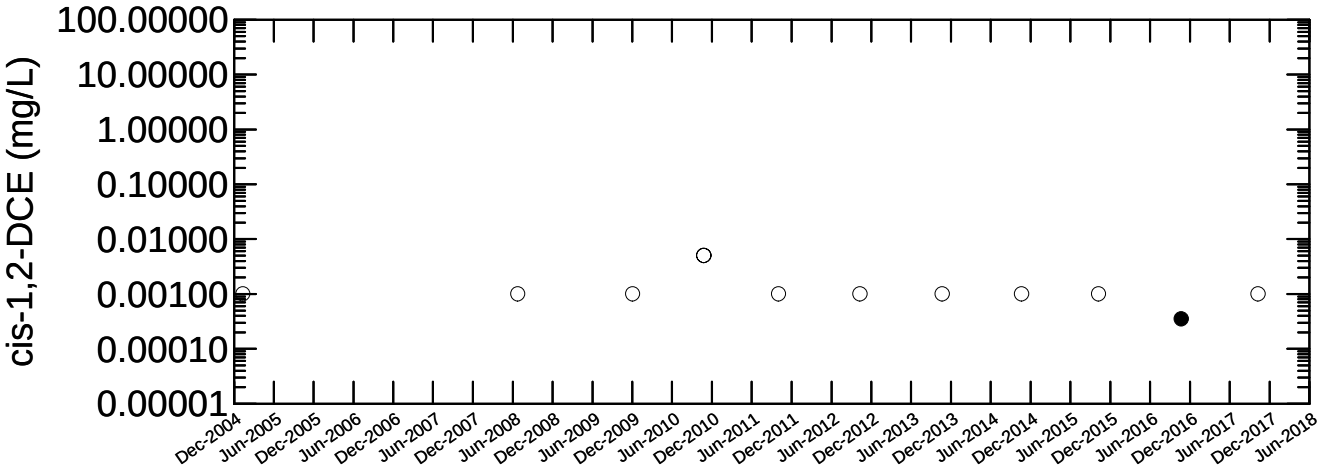
● Detected Result
○ Non-Detect Result

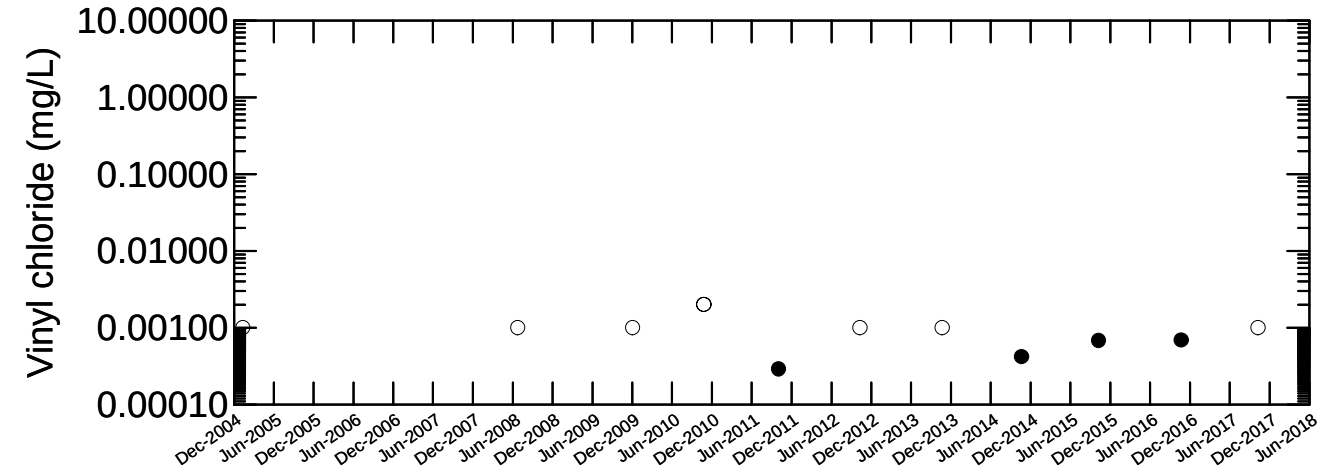
Note:
Non-detects are shown as the laboratory detection limit.

MW 58

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







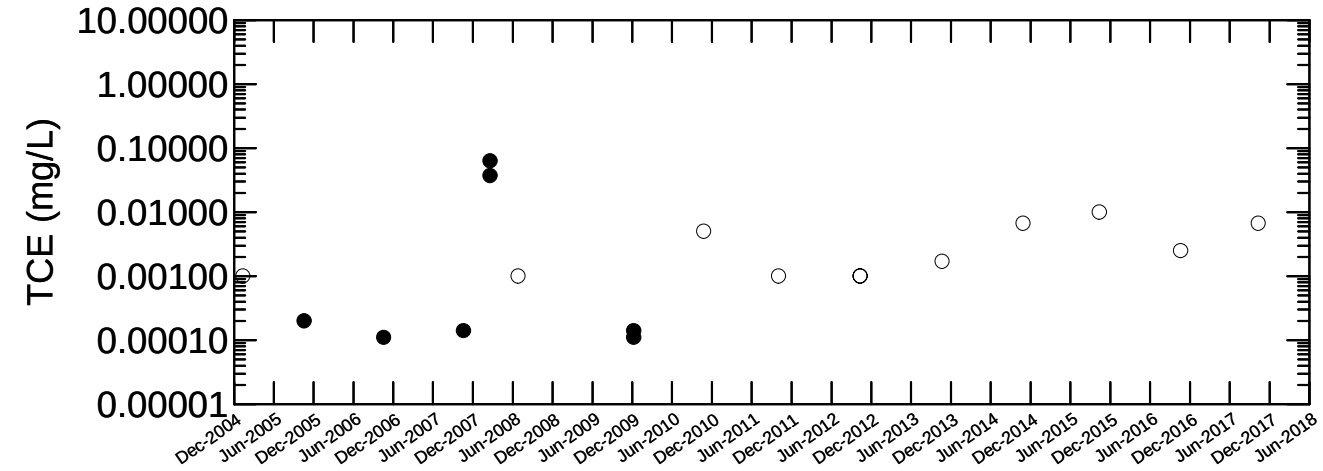
Legend:

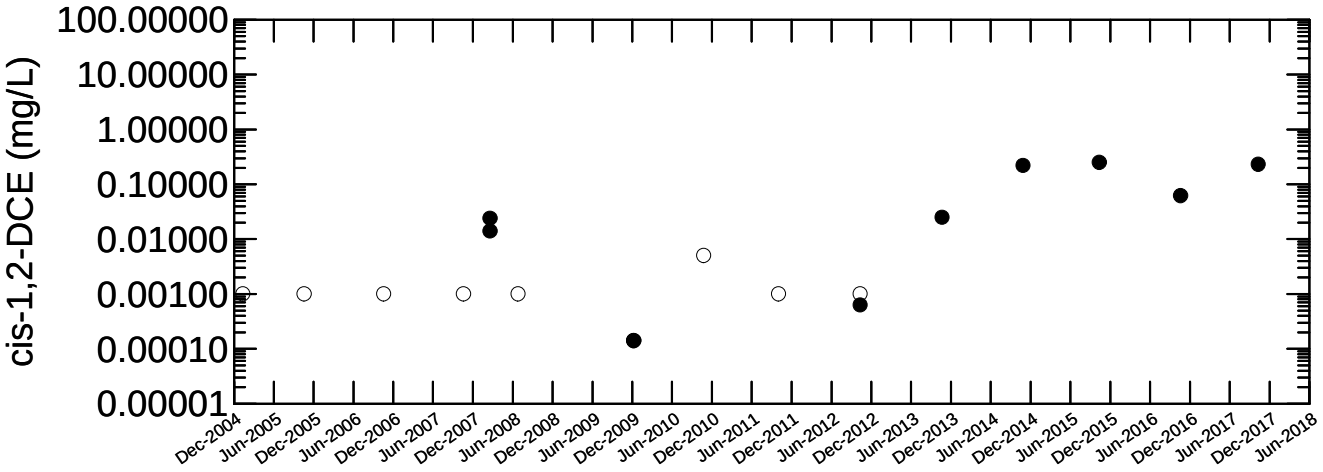
● Detected Result
○ Non-Detect Result

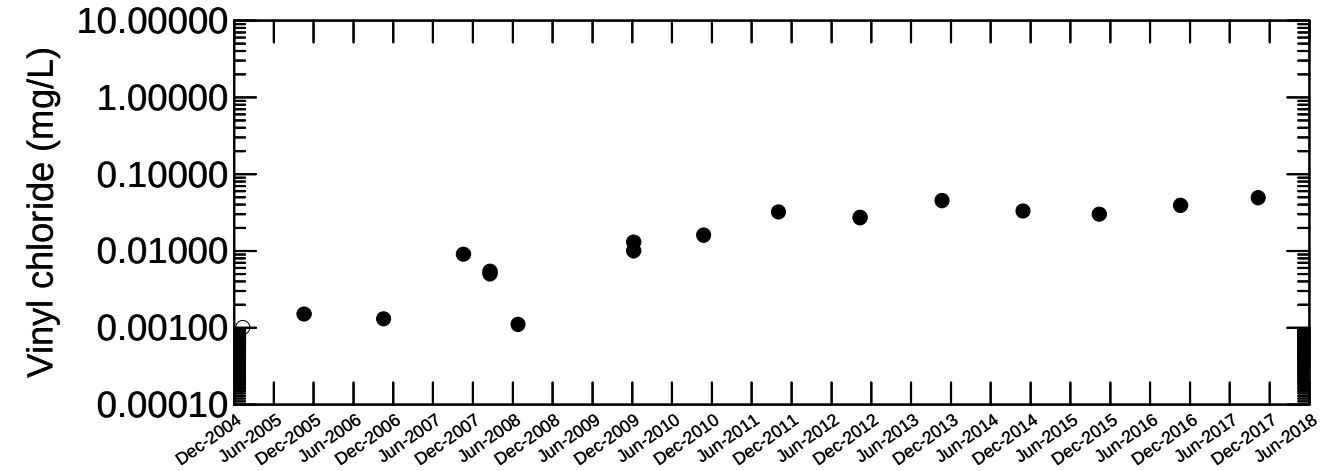
Note:
Non-detects are shown as the laboratory detection limit.

MW 61

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







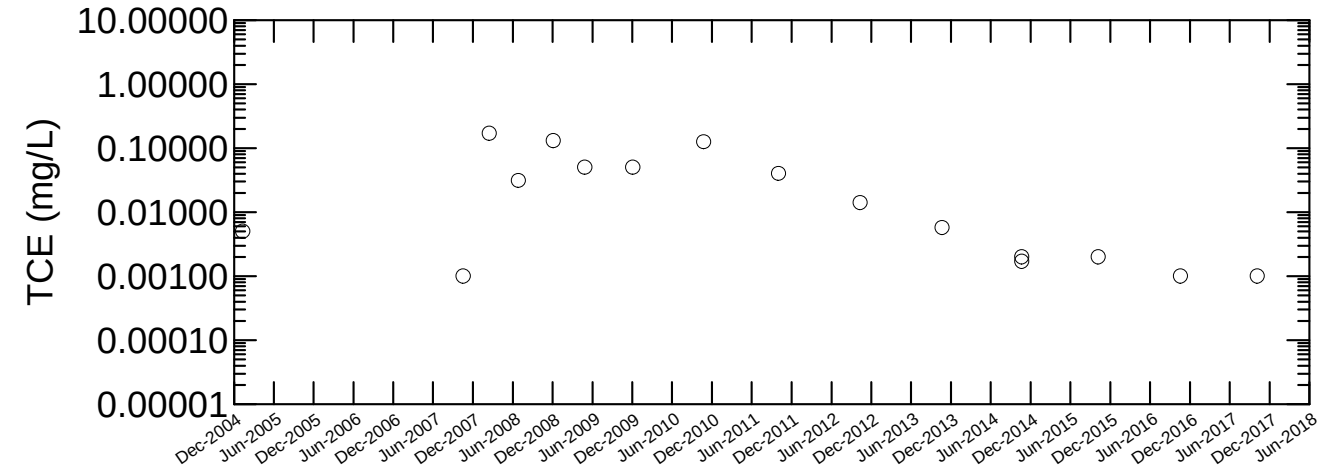
Legend:

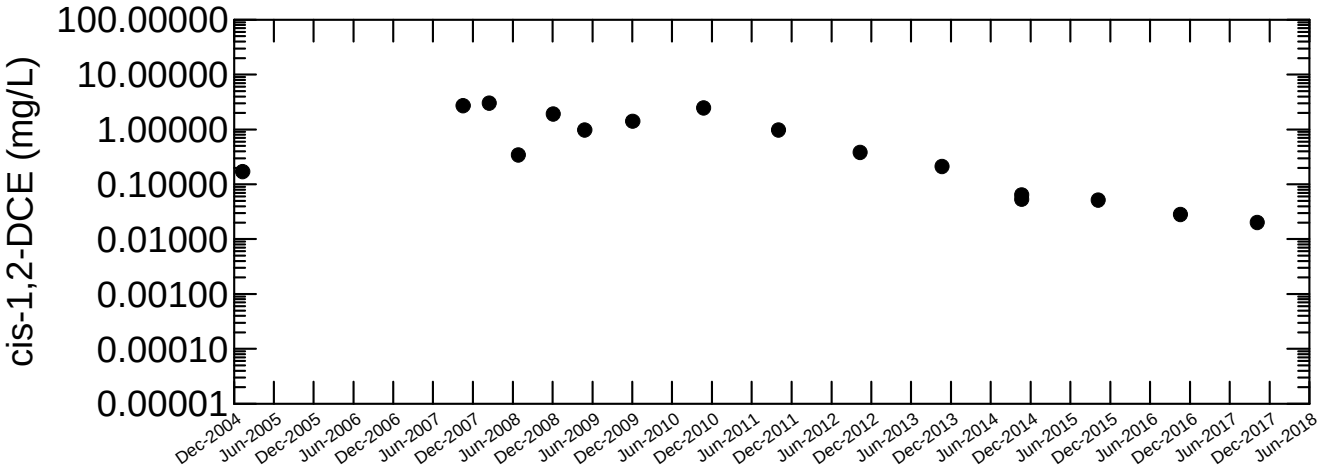
● Detected Result
○ Non-Detect Result

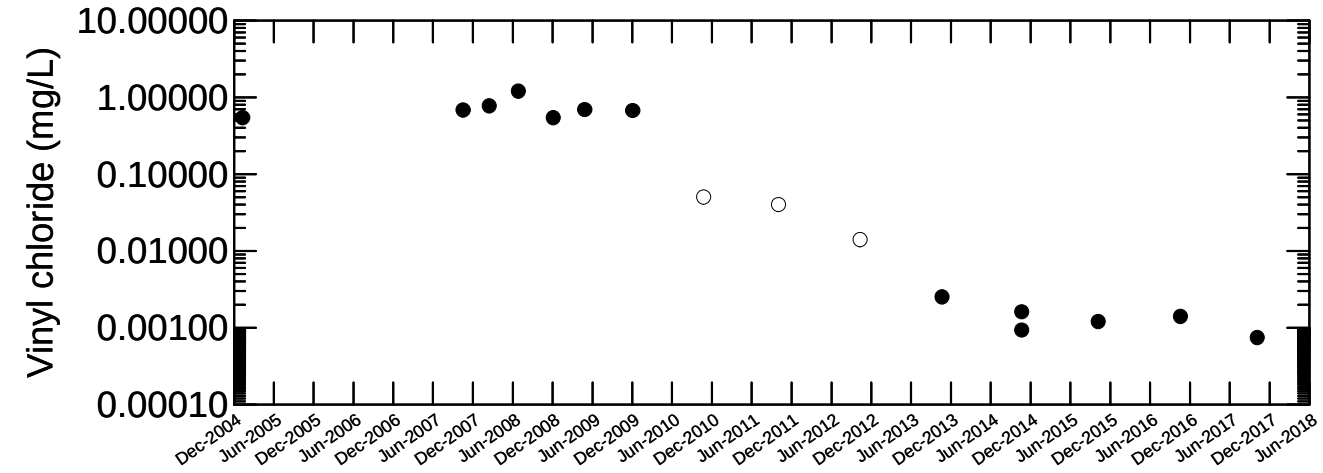
Note:
Non-detects are shown as the laboratory detection limit.

MW 64

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







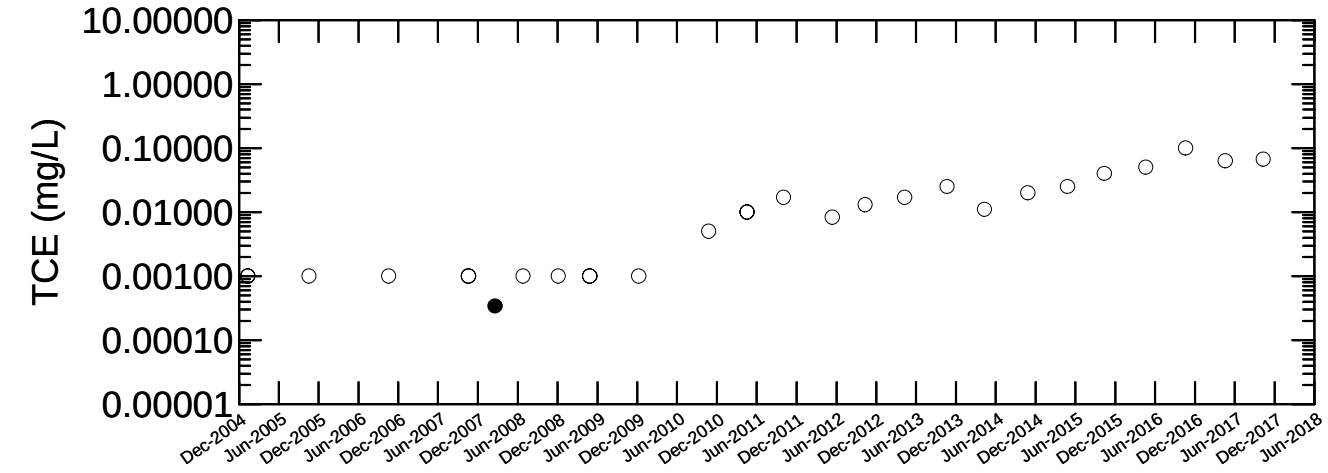
Legend:

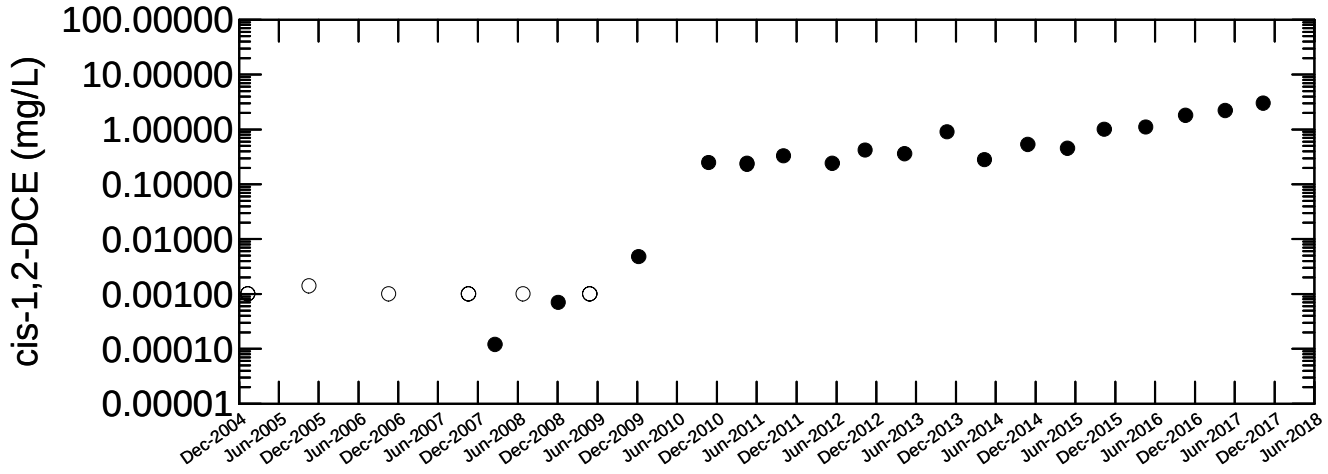
● Detected Result
○ Non-Detect Result

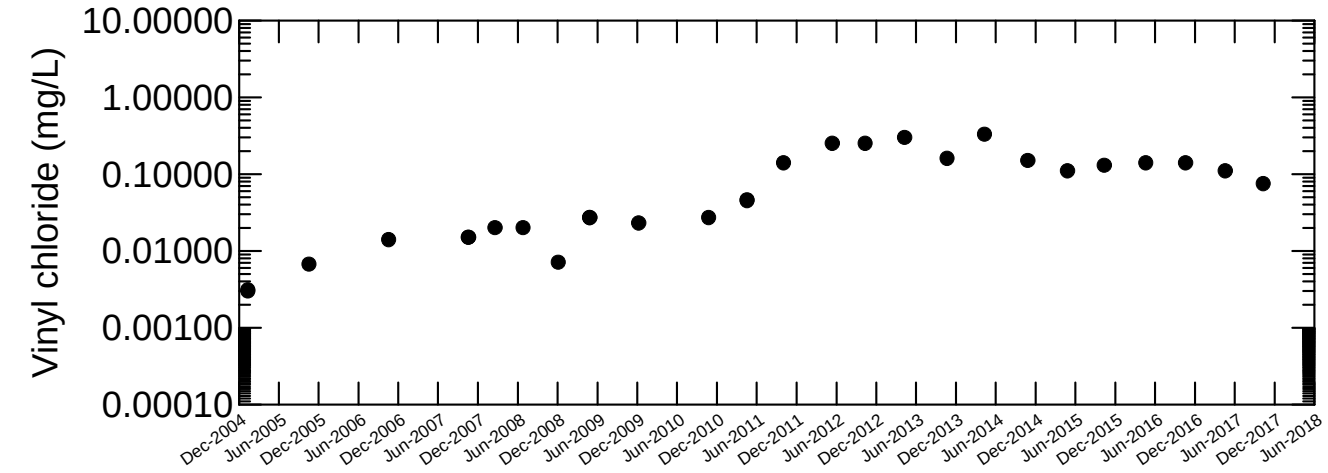
Note:
Non-detects are shown as the laboratory detection limit.

MW 65

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







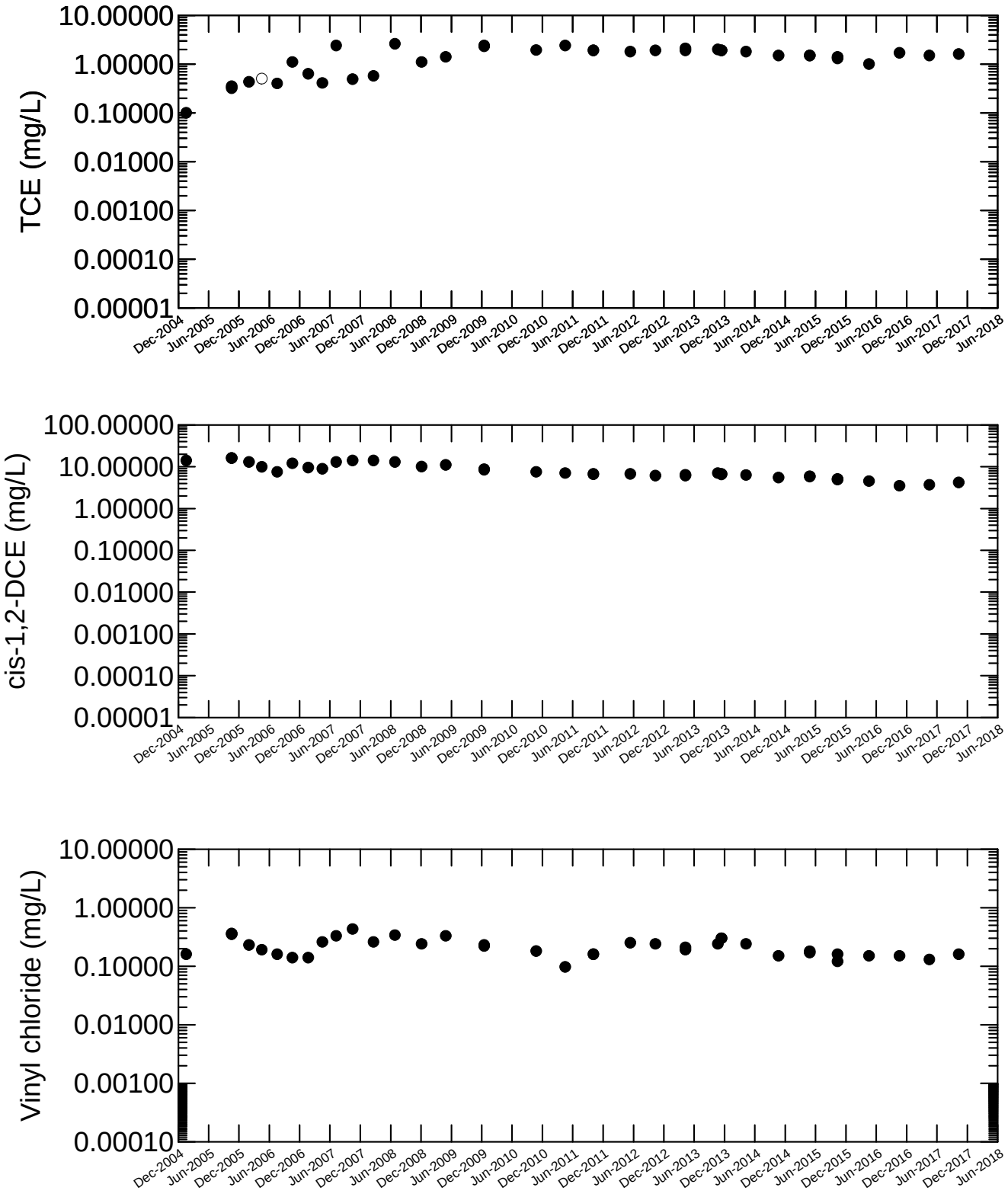
Legend:

● Detected Result
○ Non-Detect Result

Note:
Non-detects are shown as the laboratory detection limit.

MW 66

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana



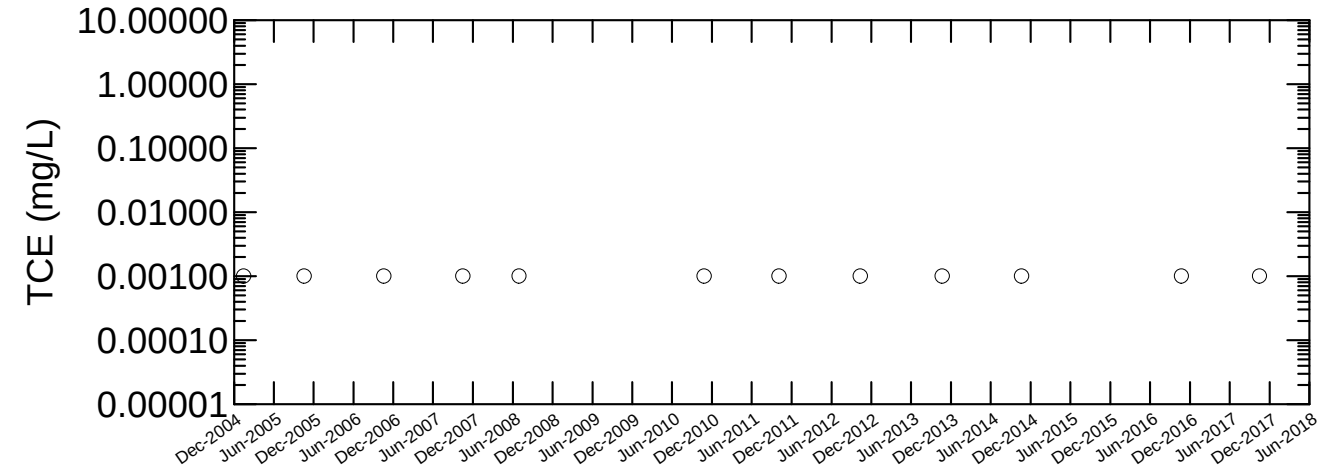
Legend:

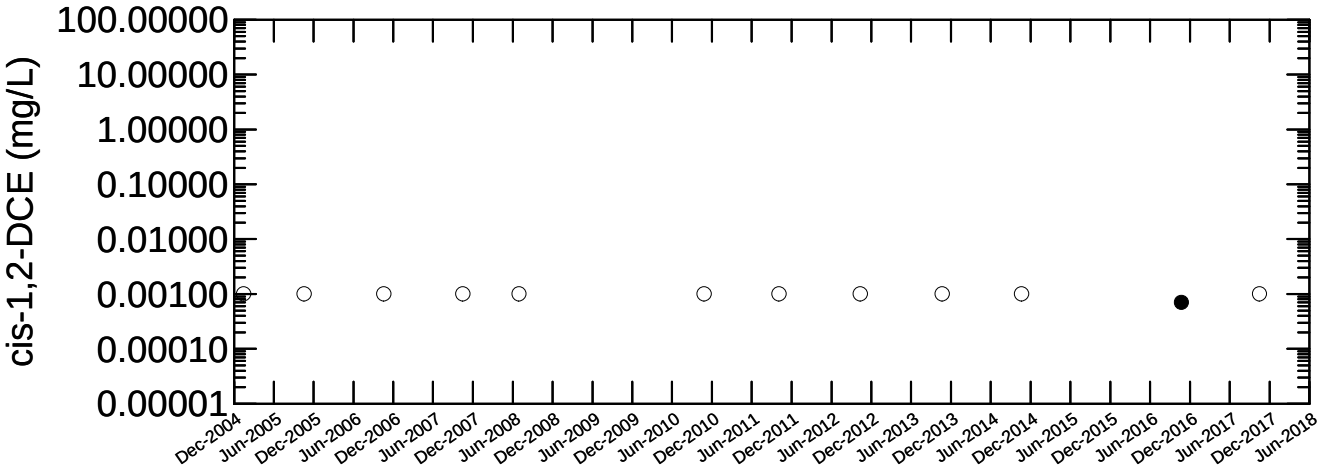
● Detected Result
○ Non-Detect Result

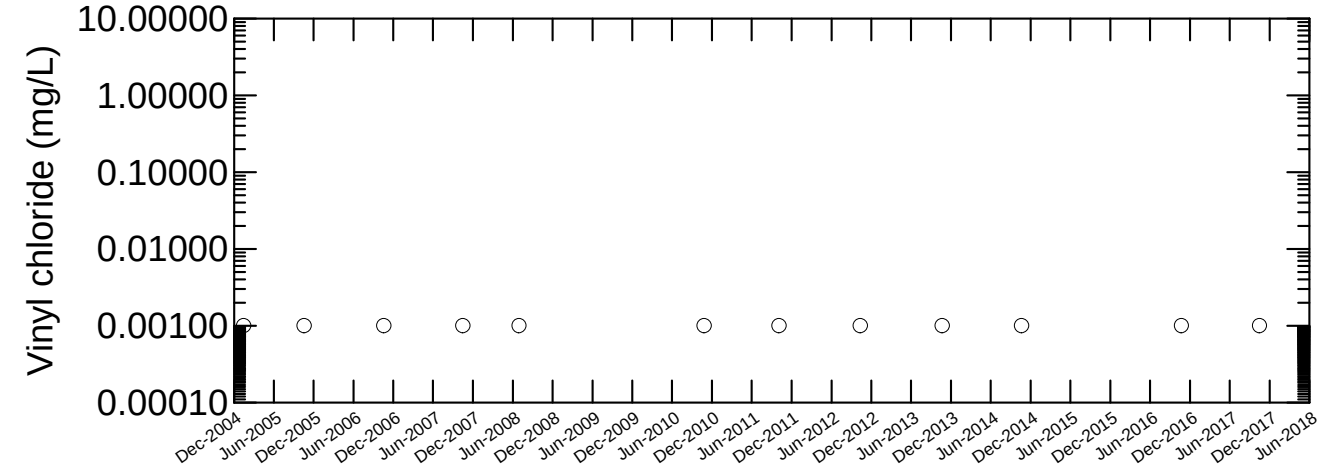
Note:
Non-detects are shown as the laboratory detection limit.

MW 68

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







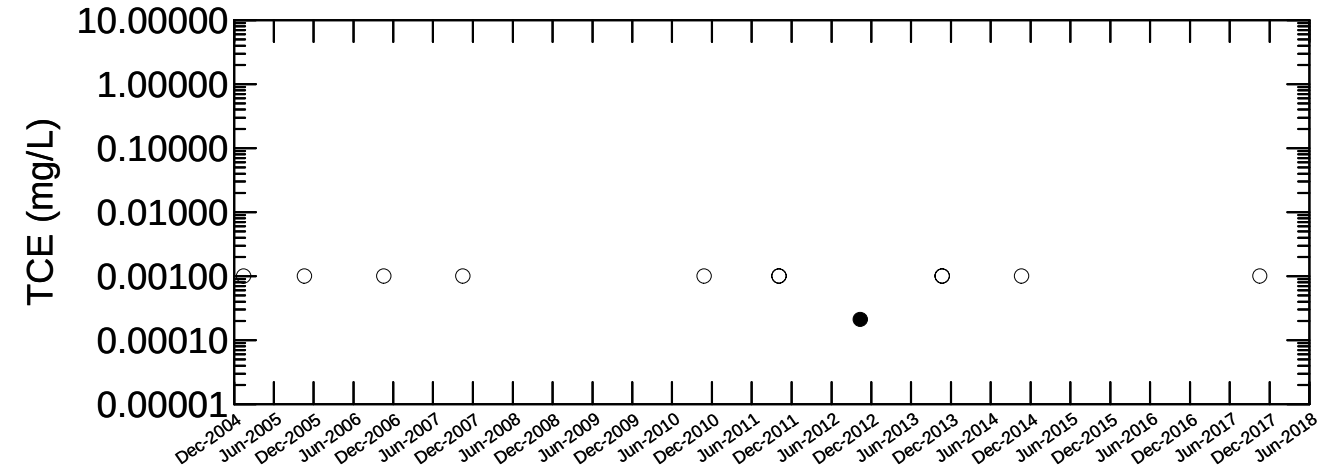
Legend:

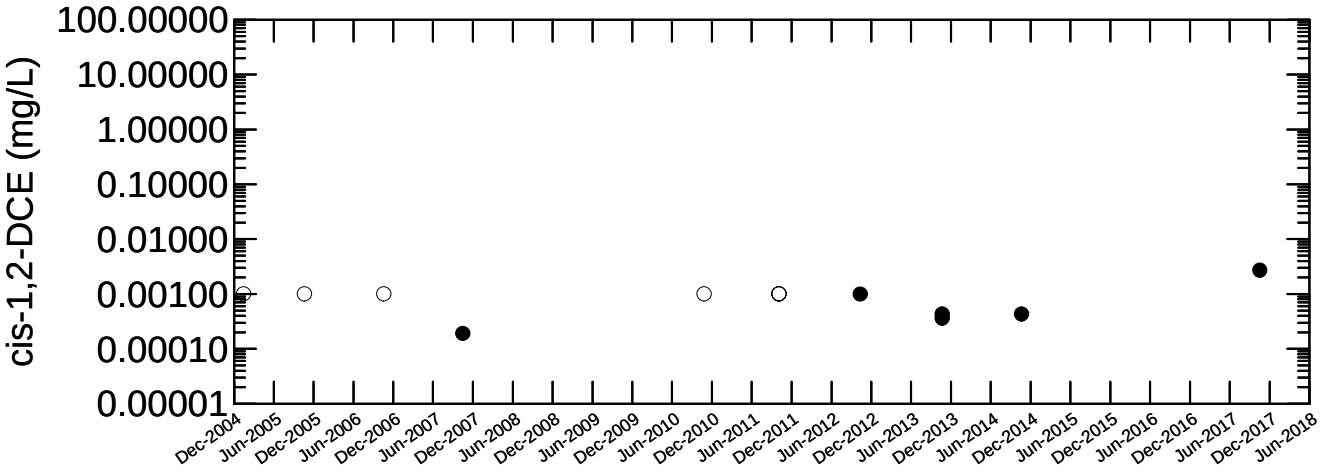
● Detected Result
○ Non-Detect Result

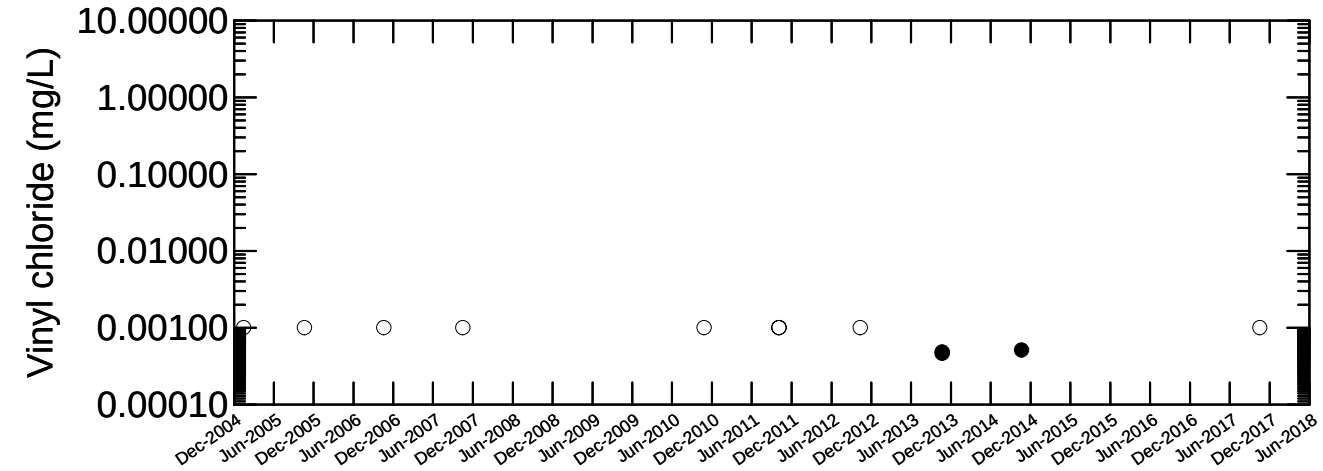
Note:
Non-detects are shown as the laboratory detection limit.

MW 75

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







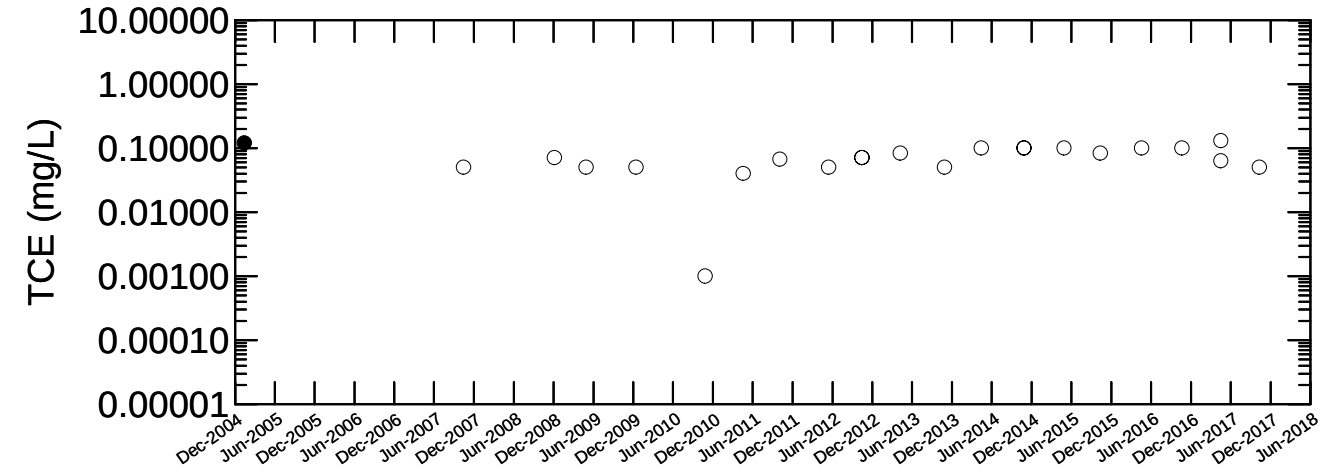
Legend:

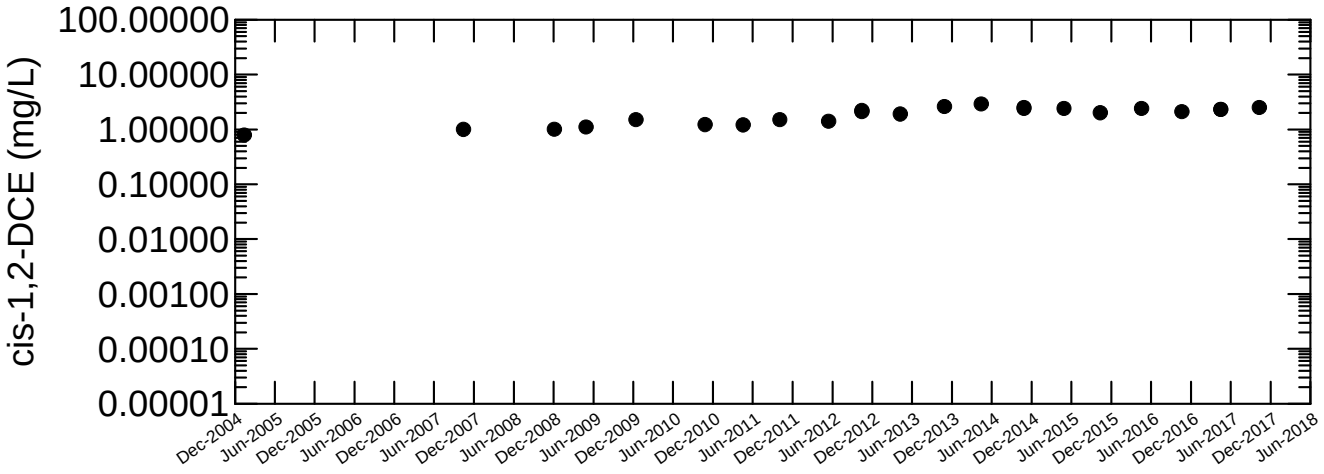
● Detected Result
○ Non-Detect Result

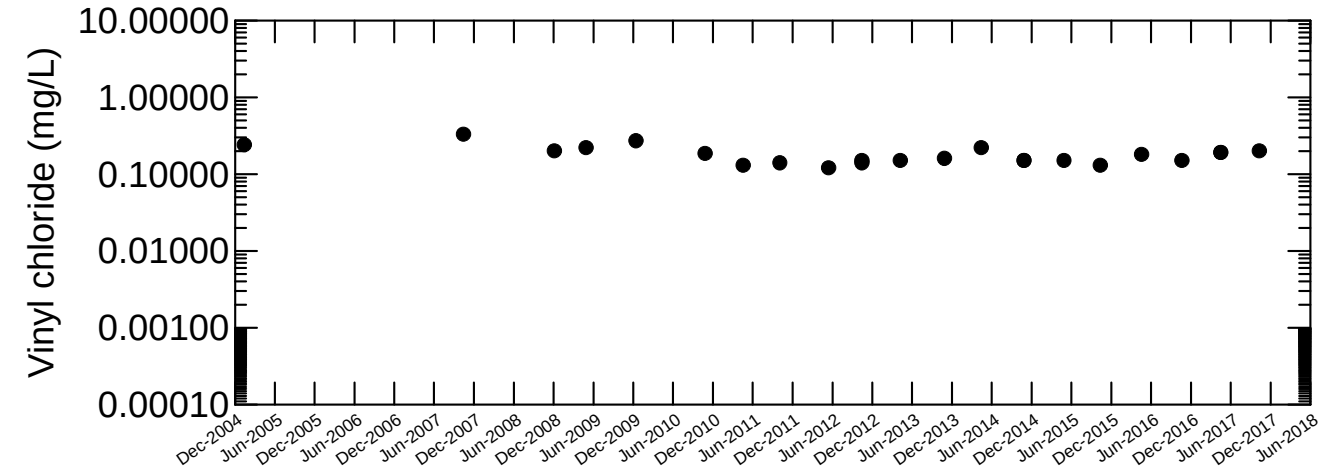
Note:
Non-detects are shown as the laboratory detection limit.

MW 76/MW 76R-17

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







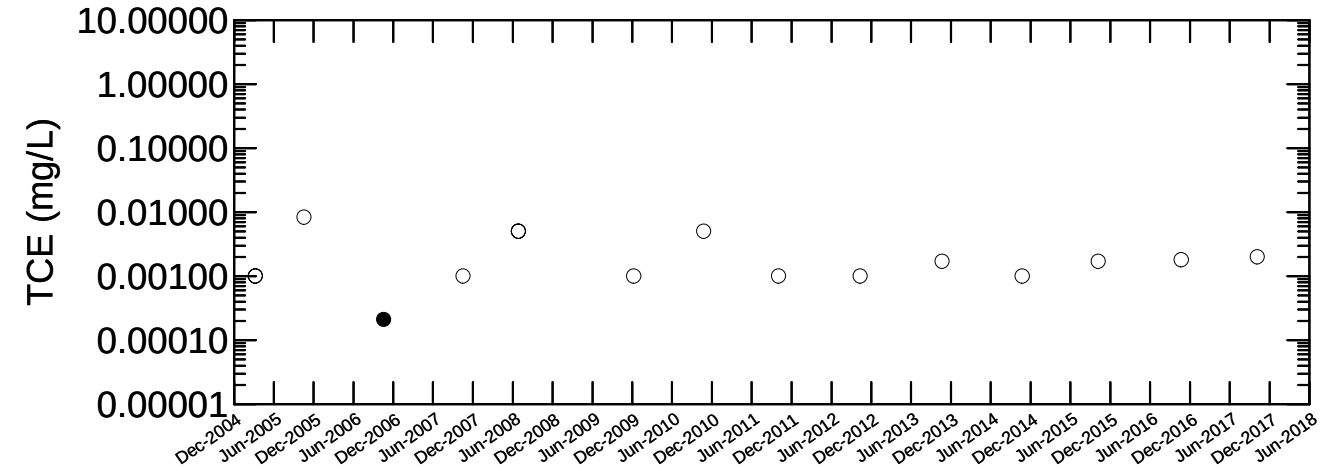
Legend:

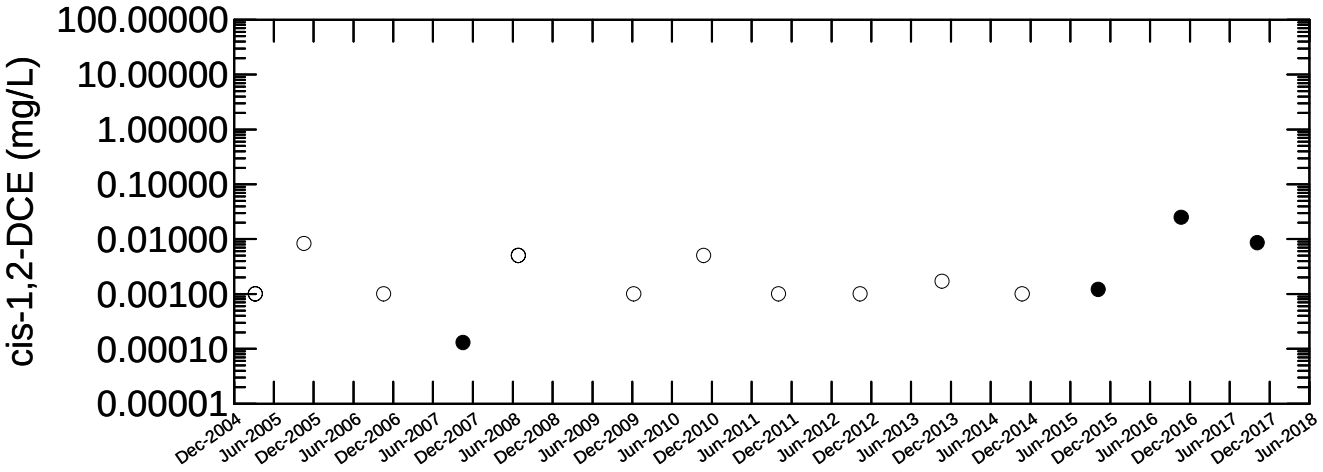
● Detected Result
○ Non-Detect Result

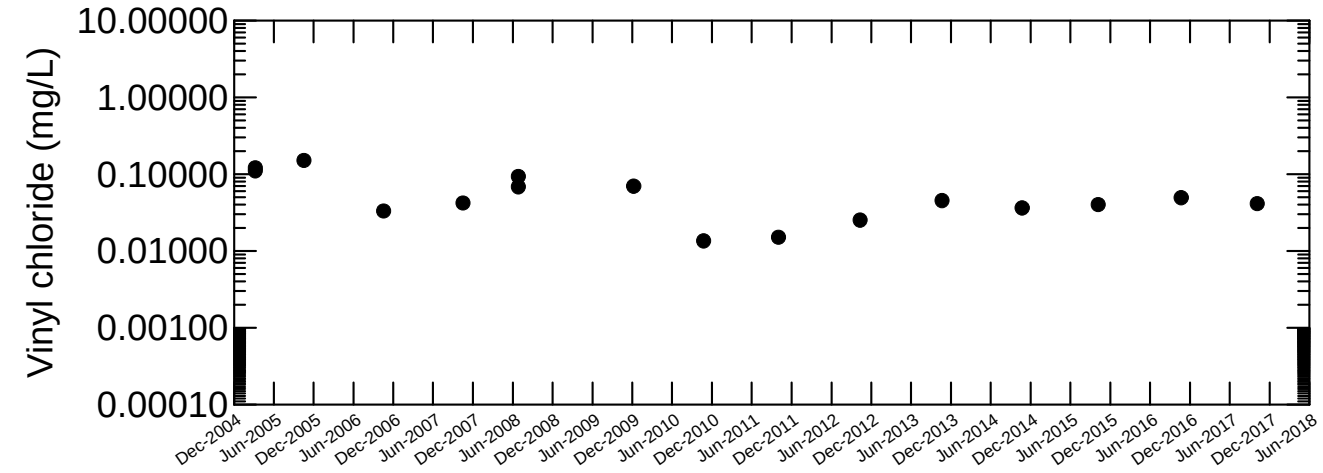
Note:
Non-detects are shown as the laboratory detection limit.

MW 79

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







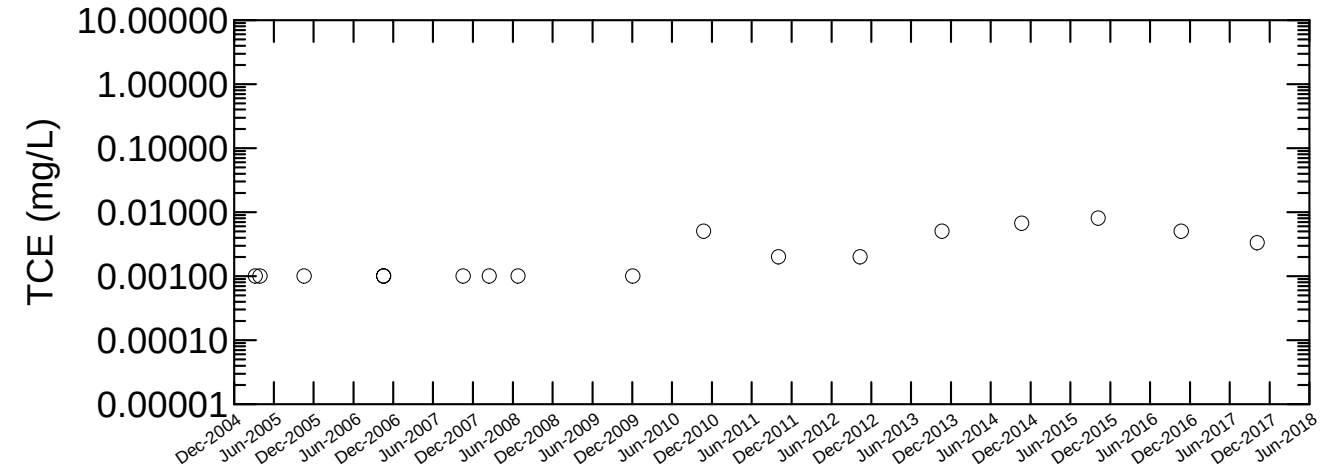
Legend:

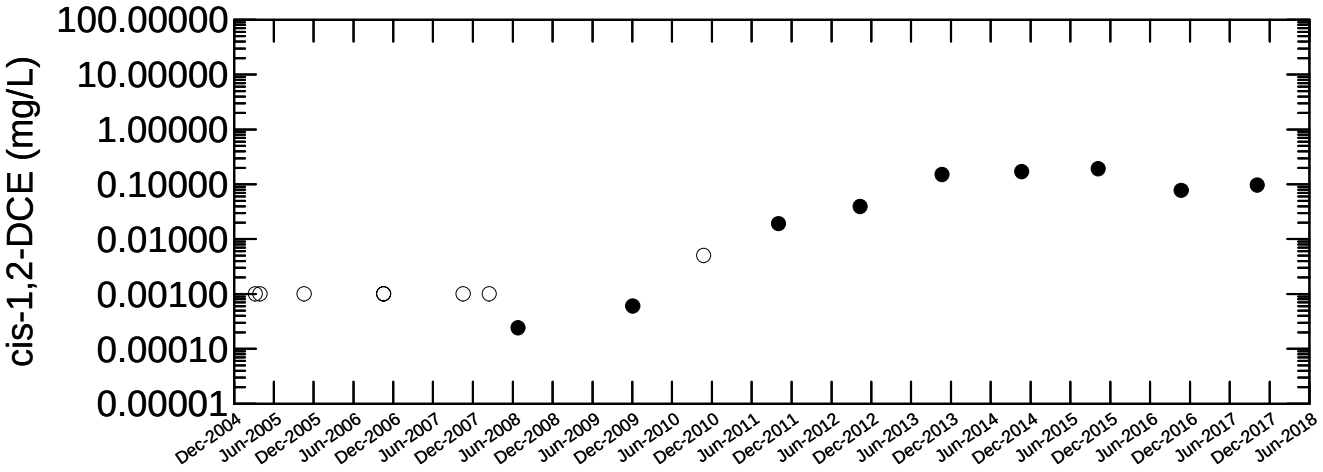
● Detected Result
○ Non-Detect Result

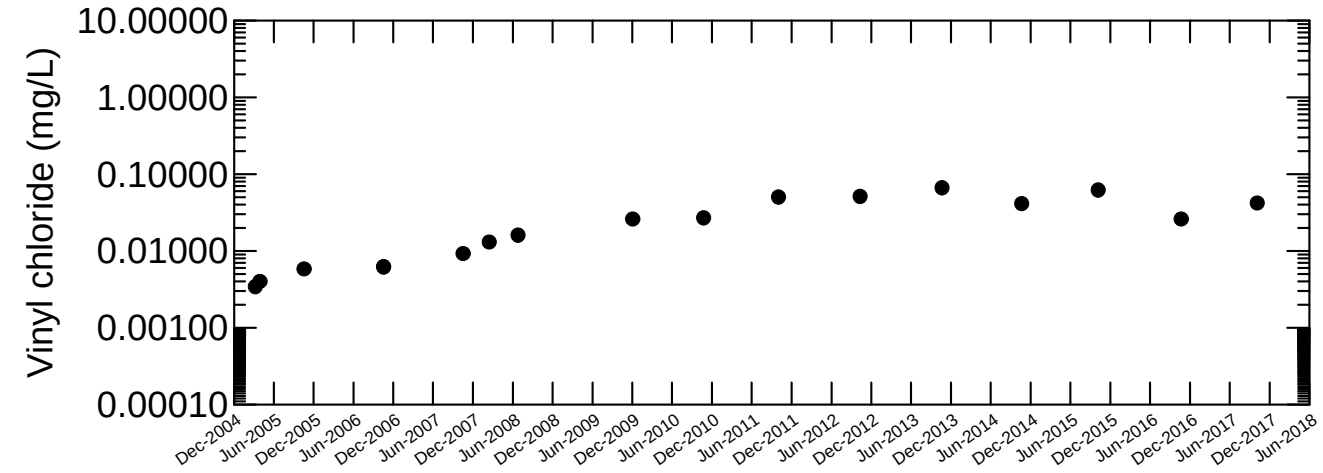
Note:
Non-detects are shown as the laboratory detection limit.

MW 80

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







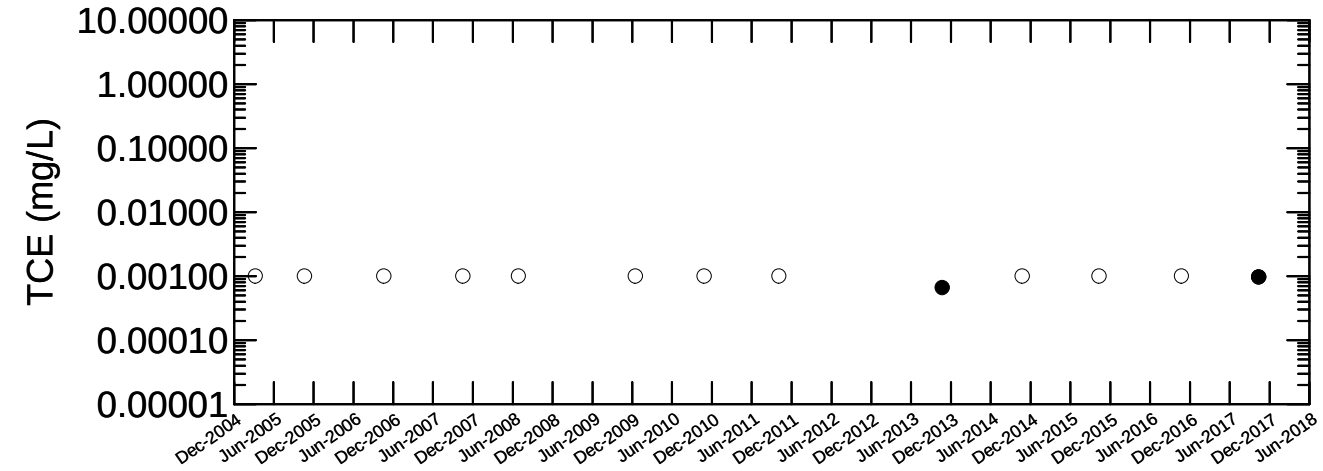
Legend:

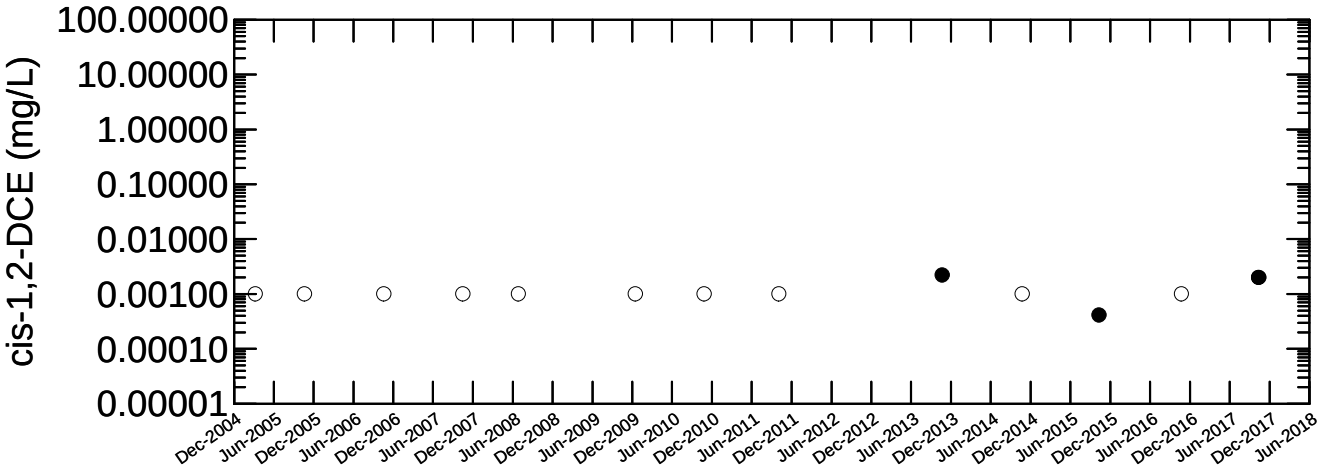
● Detected Result
○ Non-Detect Result

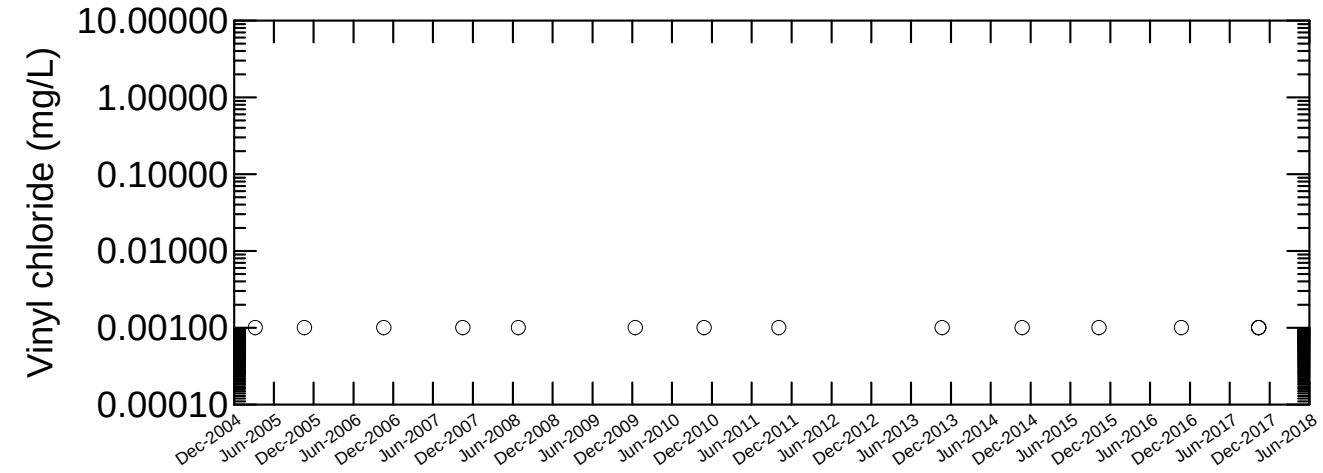
Note:
Non-detects are shown as the laboratory detection limit.

MW 81

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







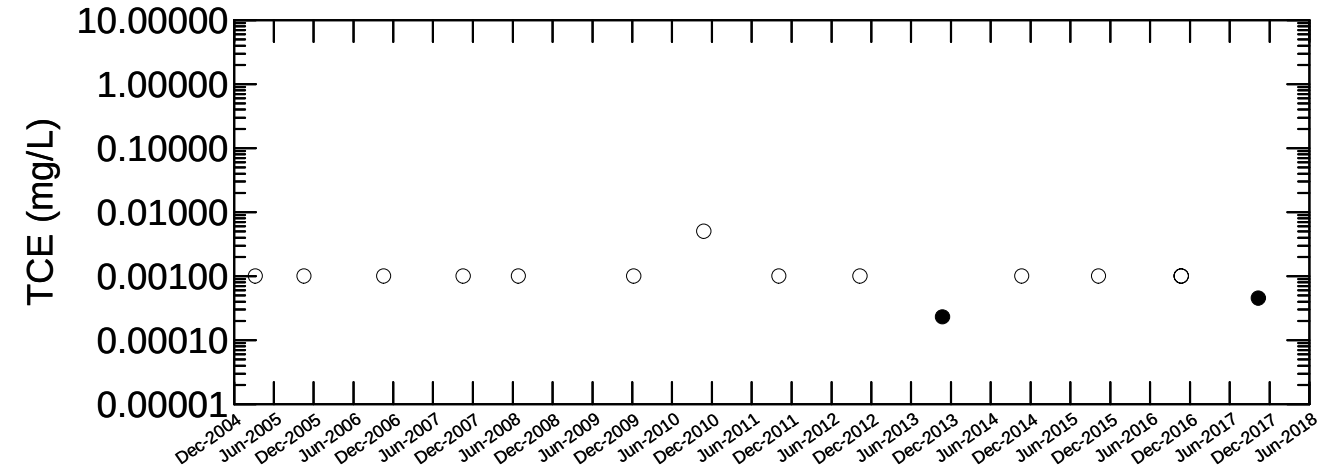
Legend:

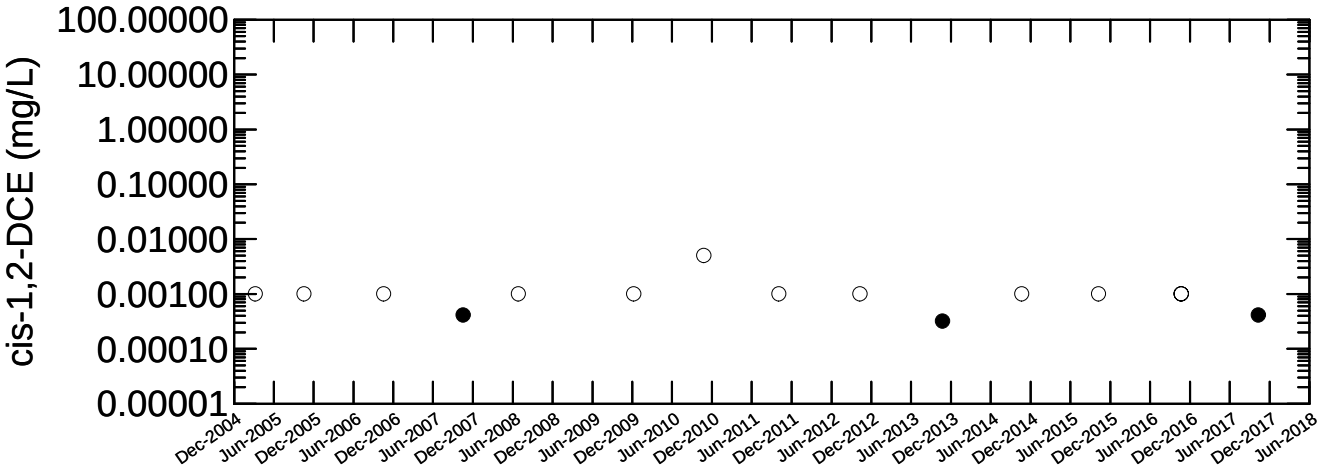
● Detected Result
○ Non-Detect Result

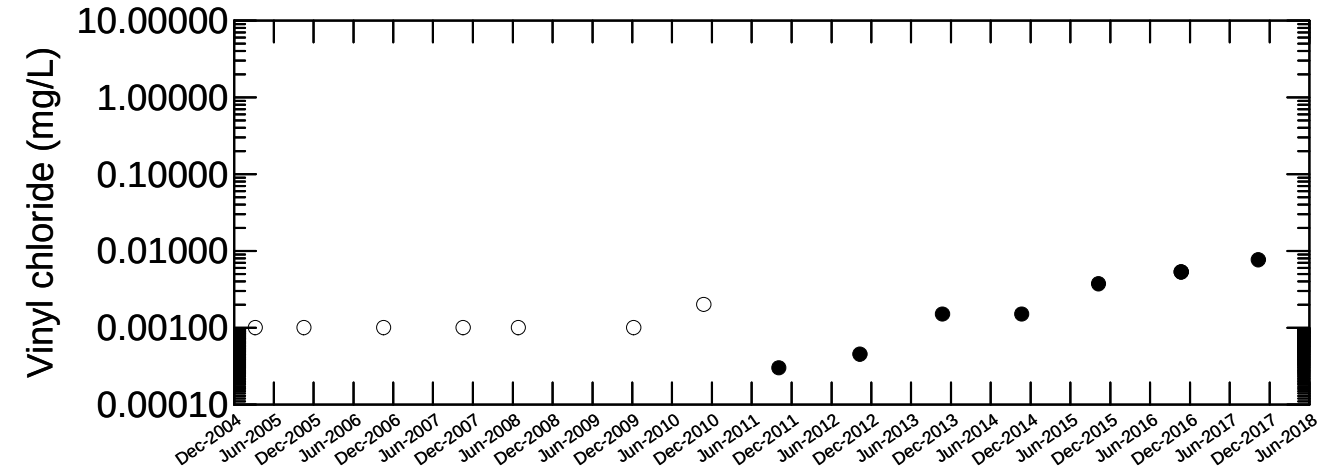
Note:
Non-detects are shown as the laboratory detection limit.

MW 82

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







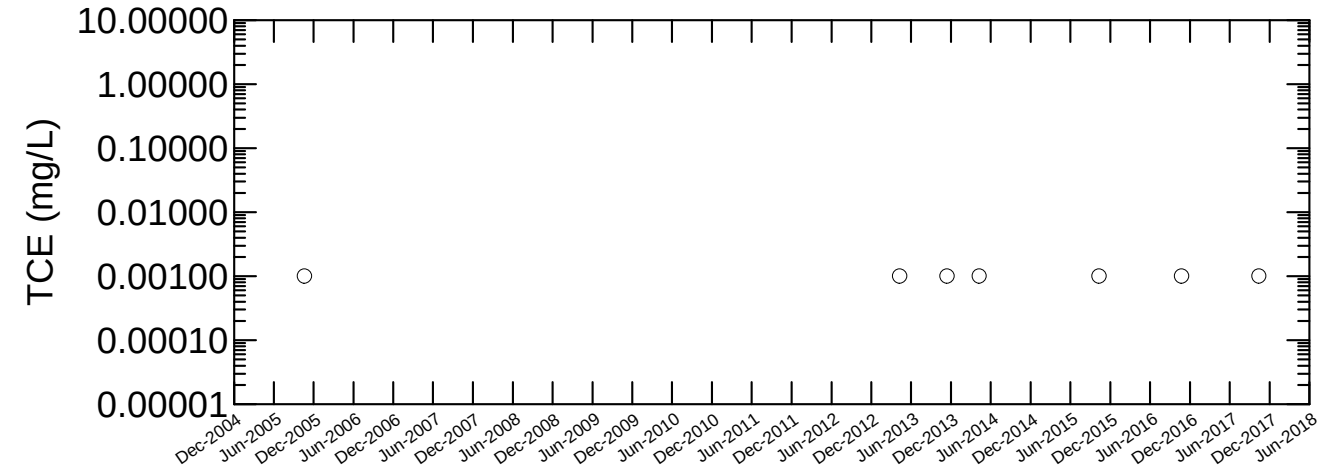
Legend:

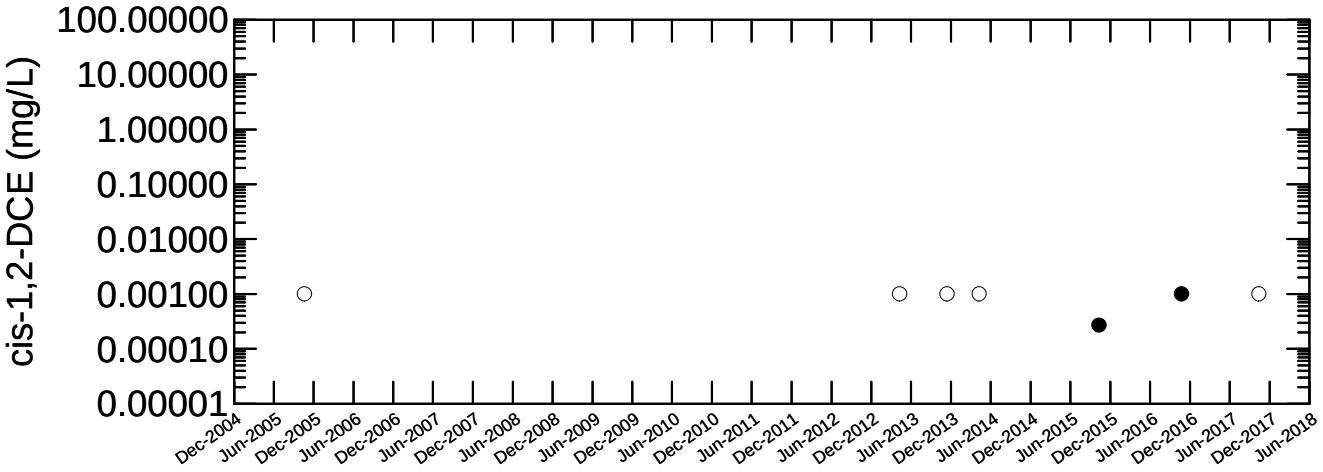
● Detected Result
○ Non-Detect Result

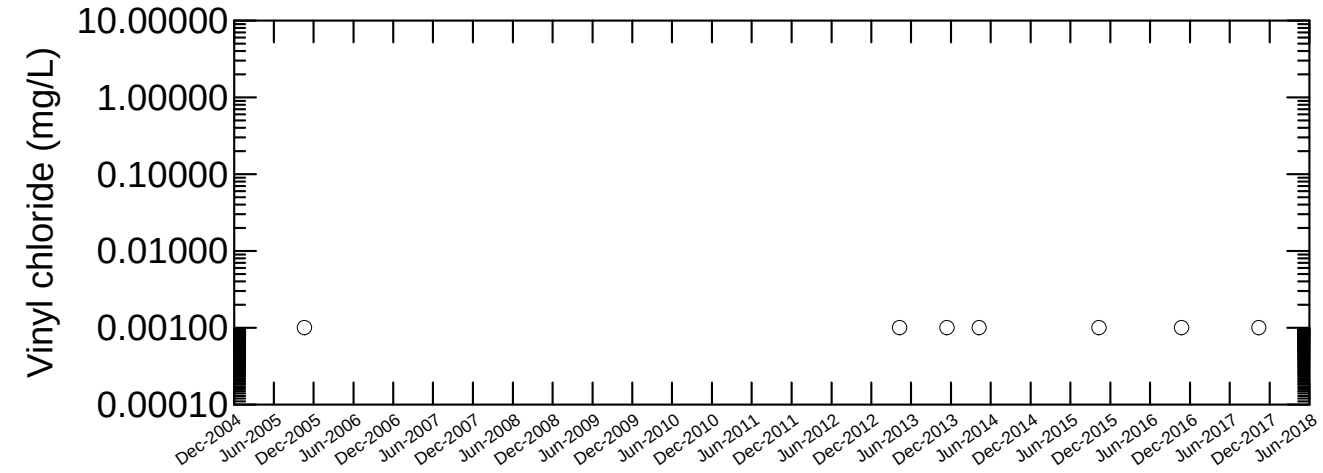
Note:
Non-detects are shown as the laboratory detection limit.

MW 83

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







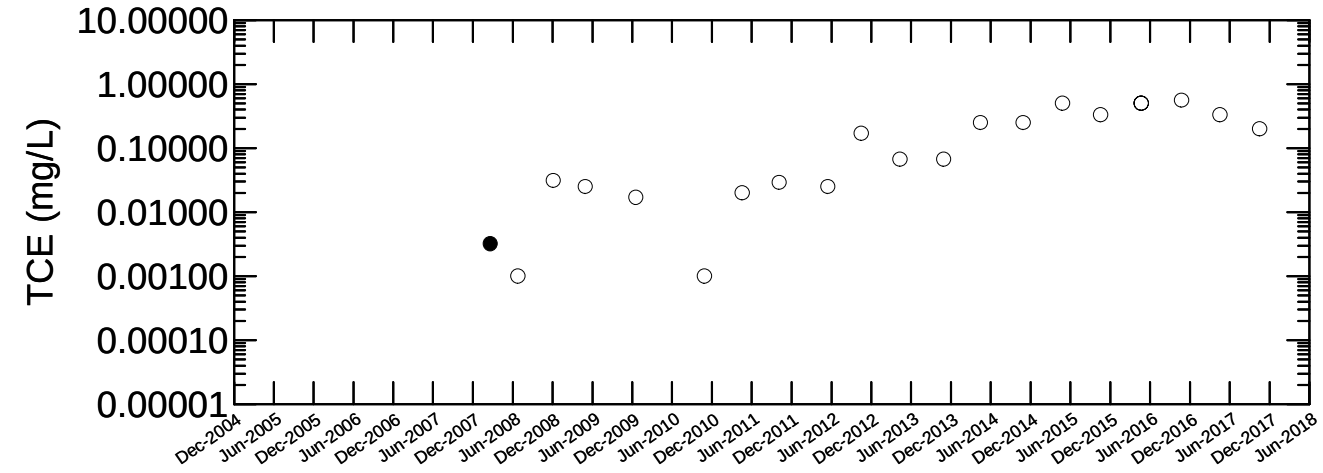
Legend:

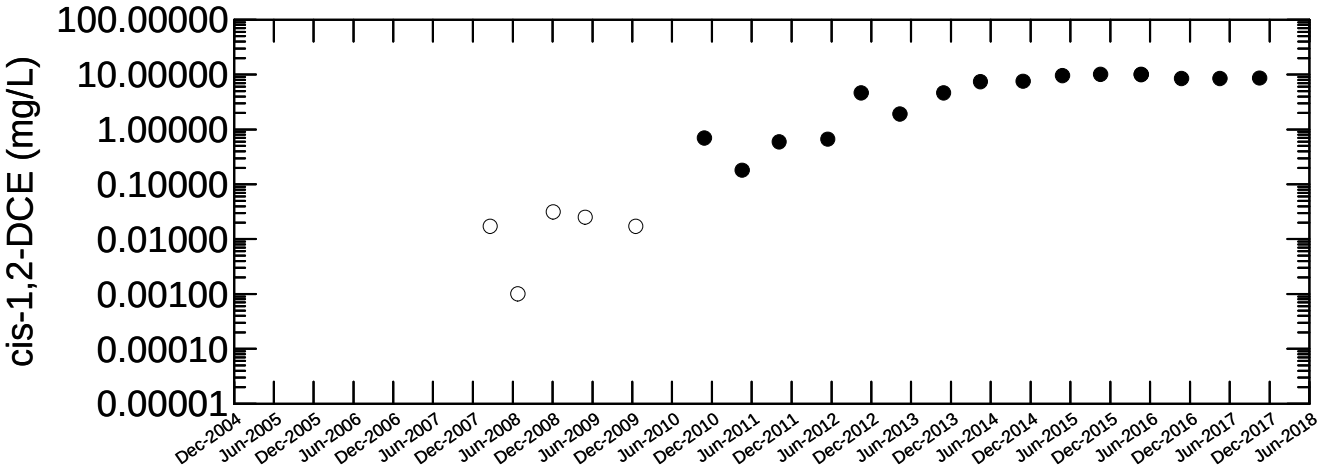
● Detected Result
○ Non-Detect Result

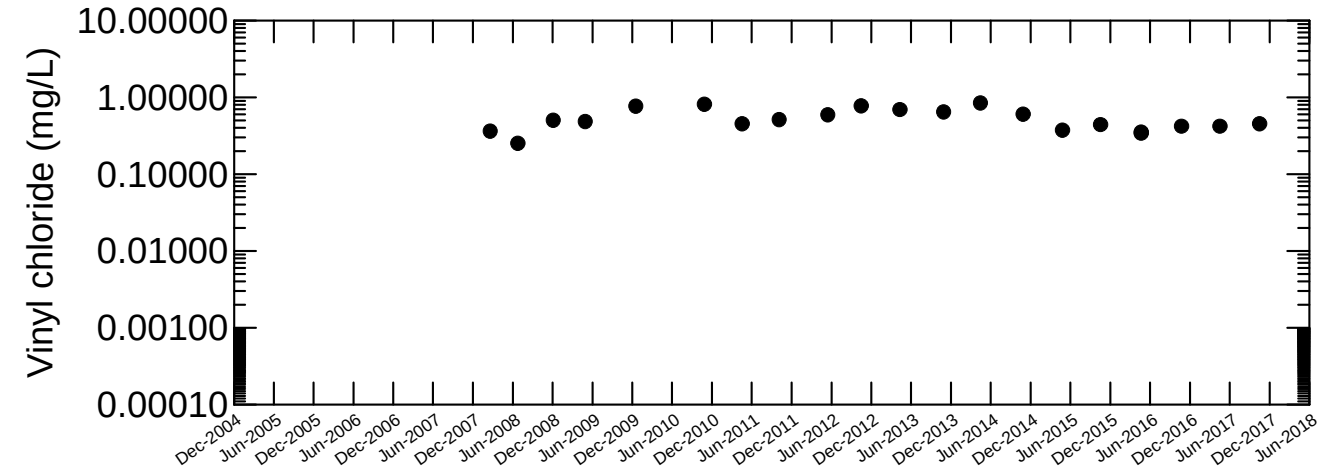
Note:
Non-detects are shown as the laboratory detection limit.

MW 84

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







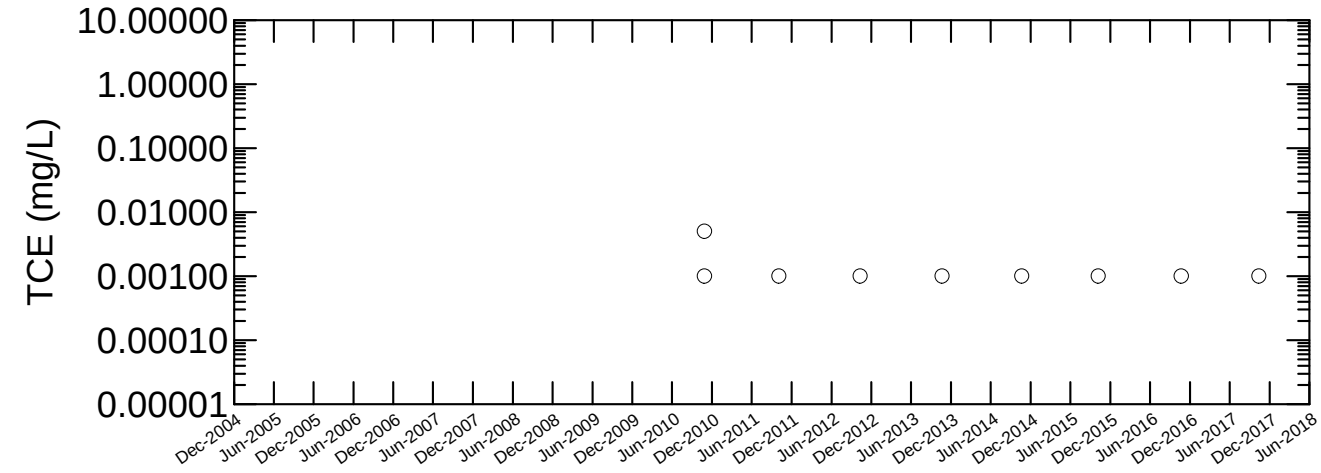
Legend:

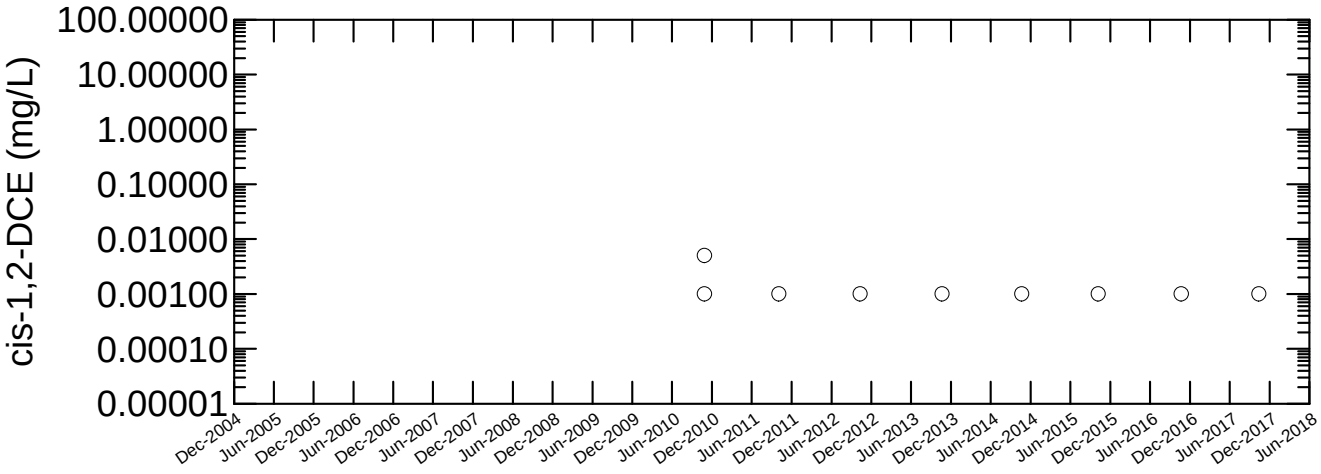
● Detected Result
○ Non-Detect Result

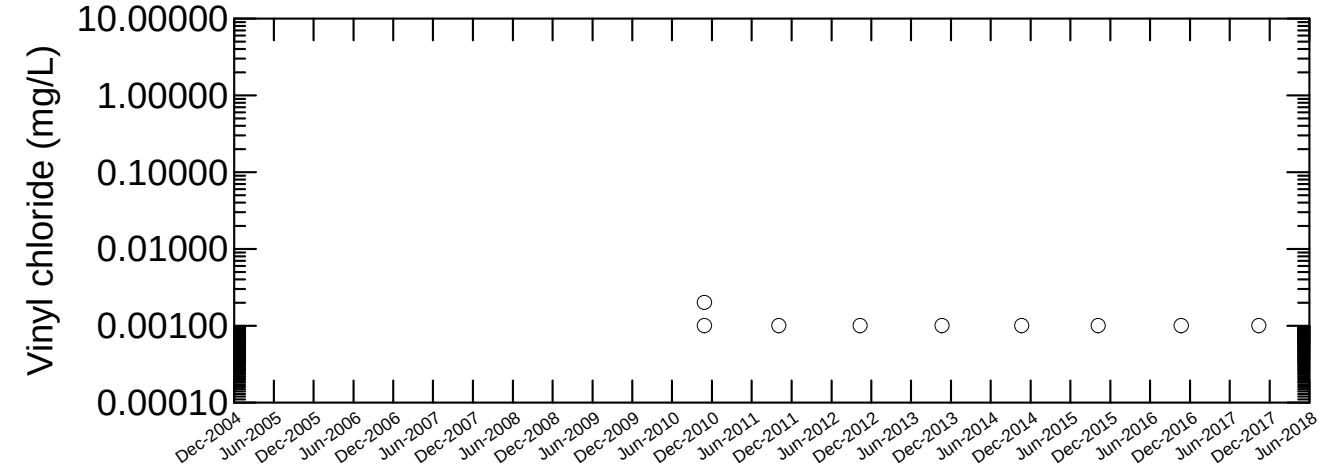
Note:
Non-detects are shown as the laboratory detection limit.

MW 85

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







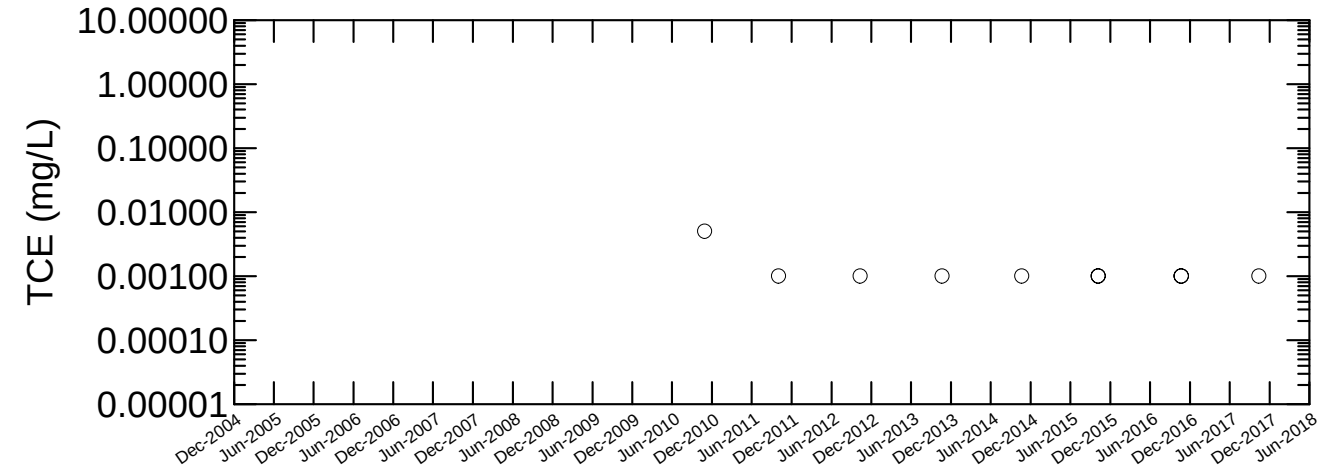
Legend:

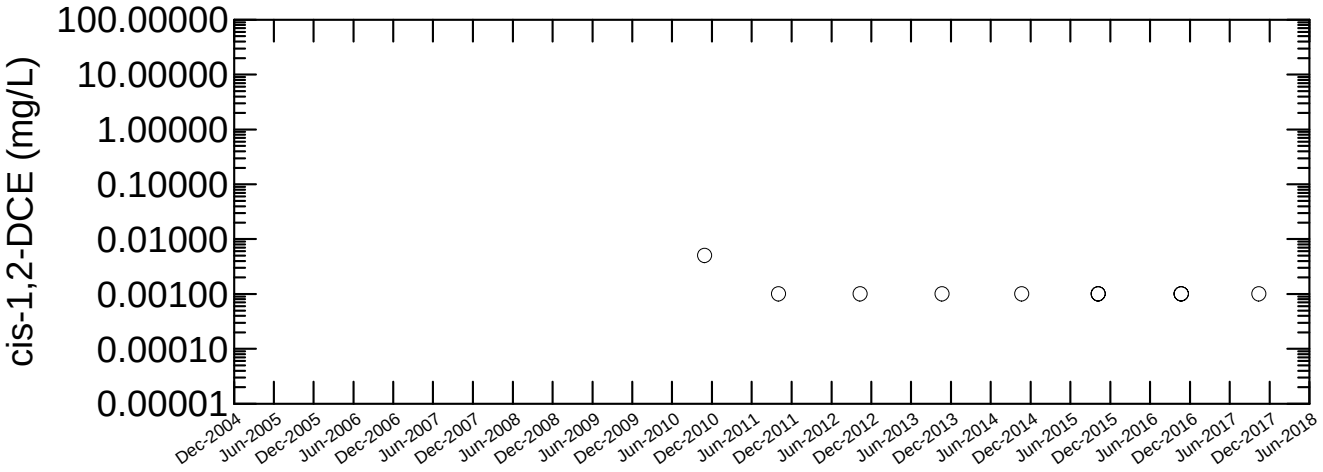
● Detected Result
○ Non-Detect Result

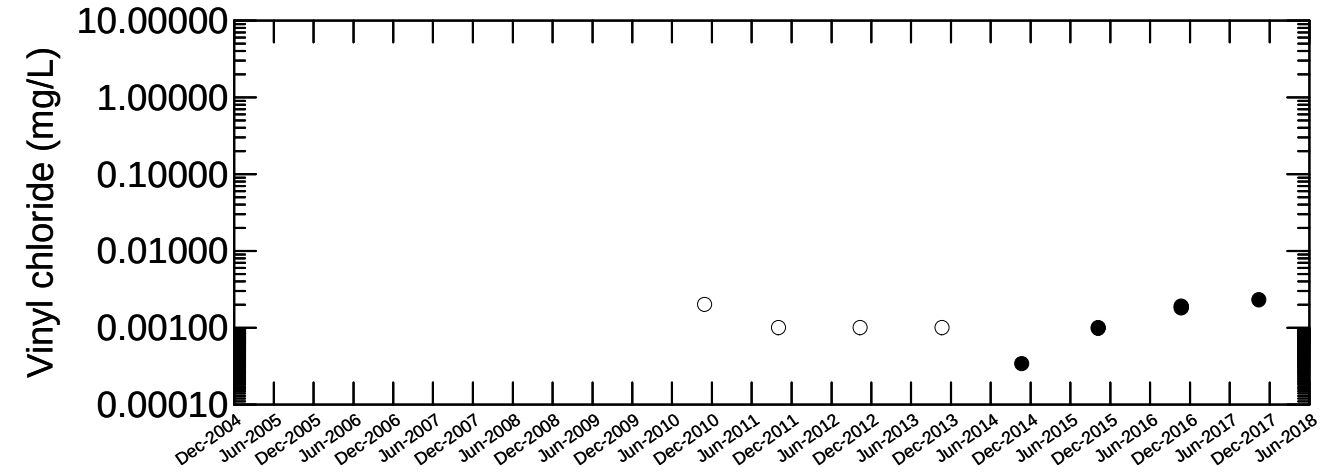
Note:
Non-detects are shown as the laboratory detection limit.

MW 86

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







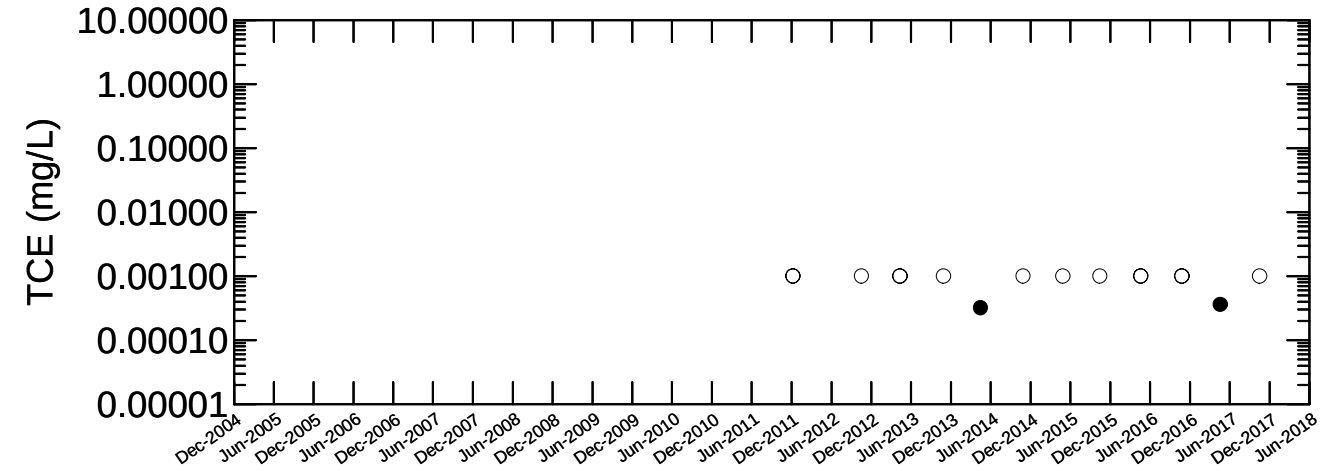
Legend:

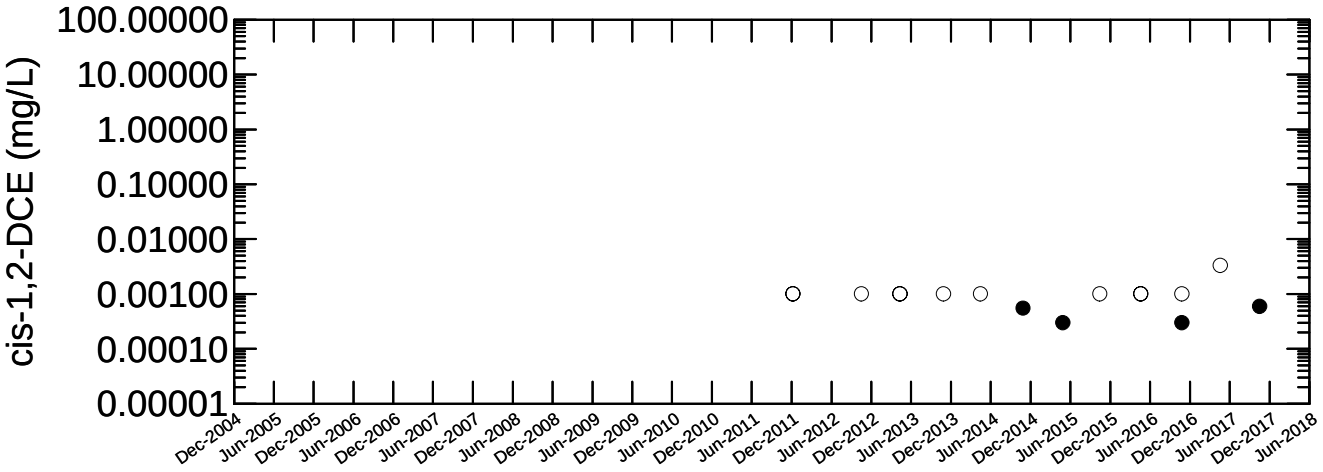
● Detected Result
○ Non-Detect Result

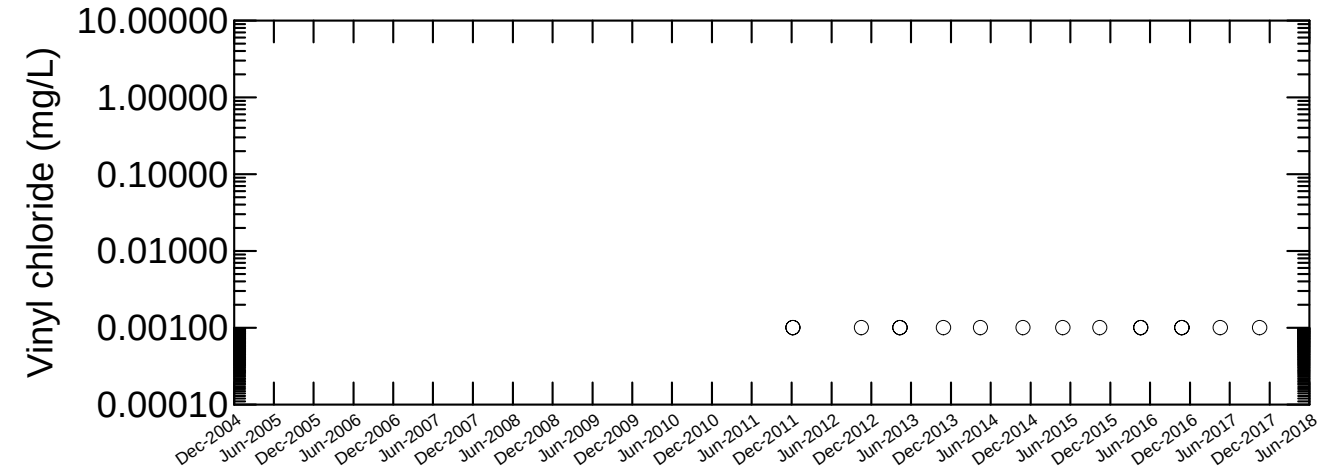
Note:
Non-detects are shown as the laboratory detection limit.

MW 88

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







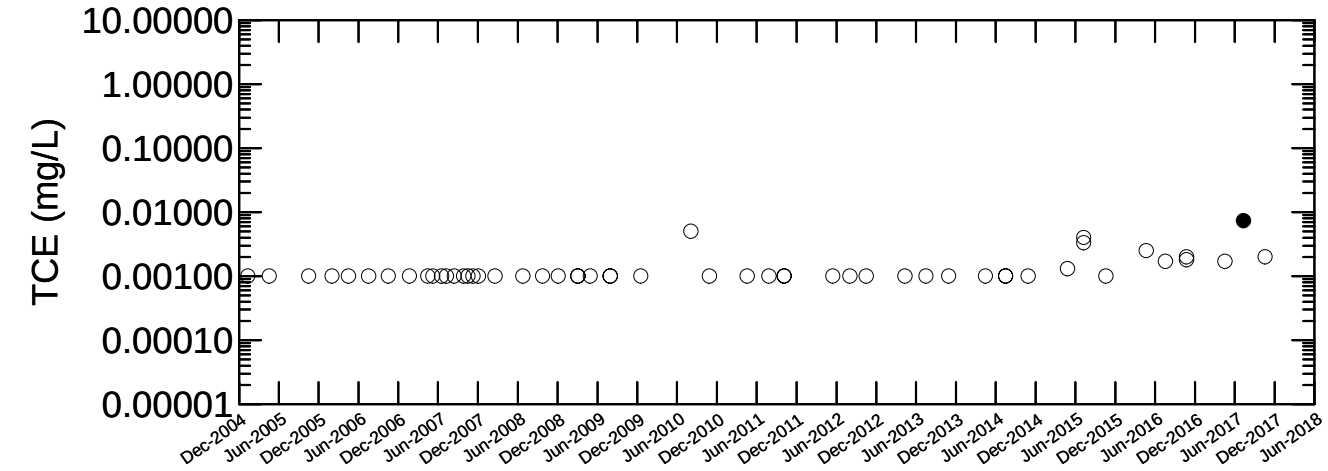
Legend:

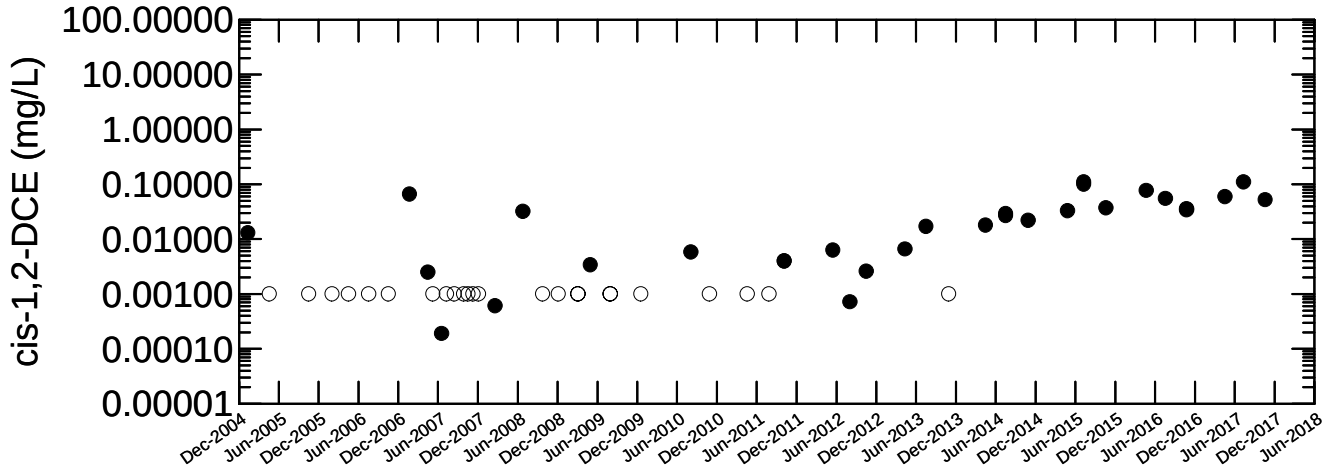
● Detected Result
○ Non-Detect Result

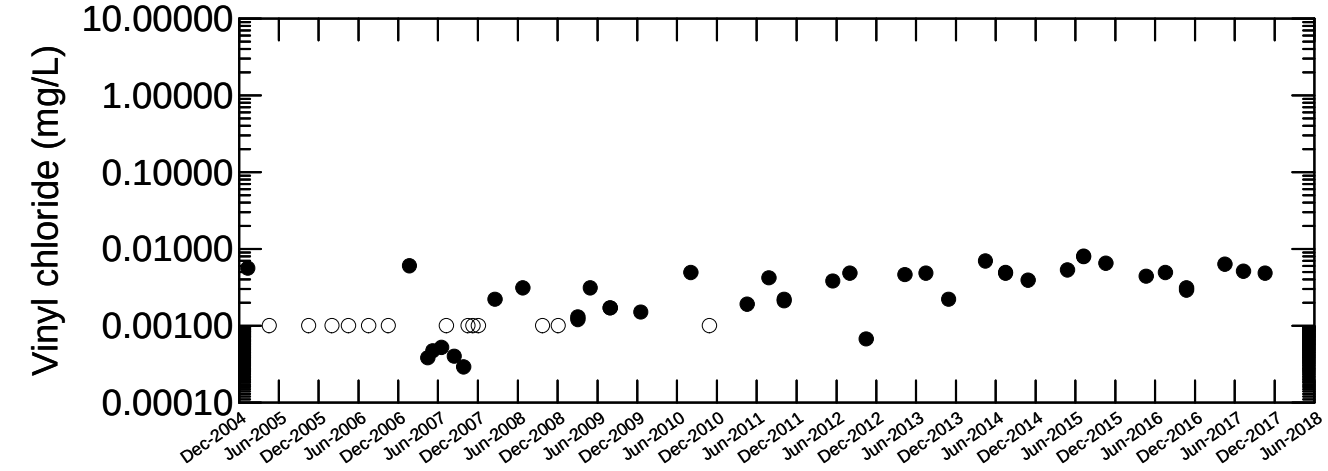
Note:
Non-detects are shown as the laboratory detection limit.

MW 89-11

Concentration vs. Time Graphs
2017 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







Legend:

● Detected Result
○ Non-Detect Result

Note:
Non-detects are shown as the laboratory detection limit.

Pond Intake

Concentration vs. Time Graphs
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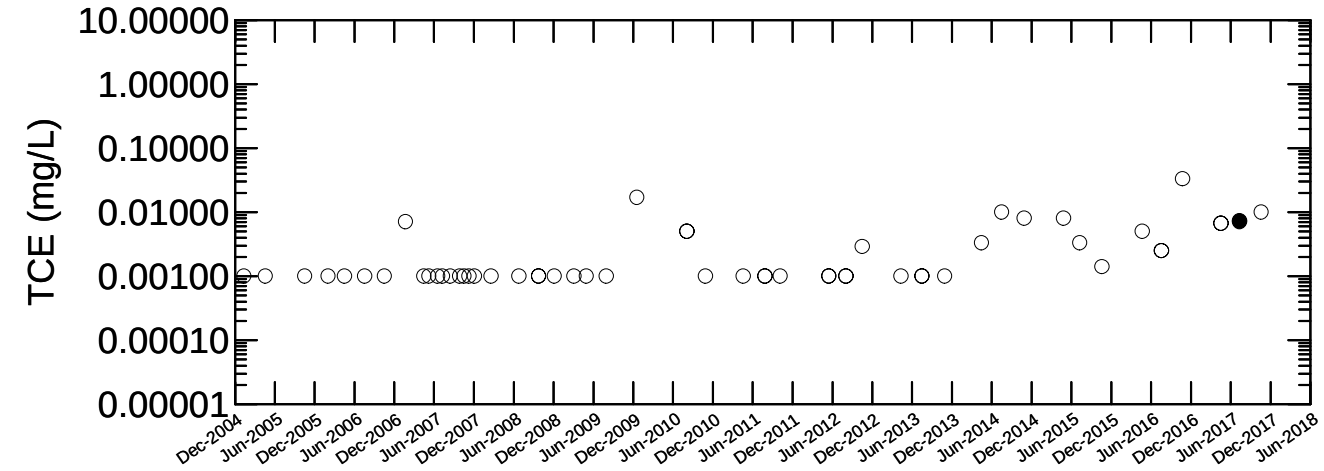

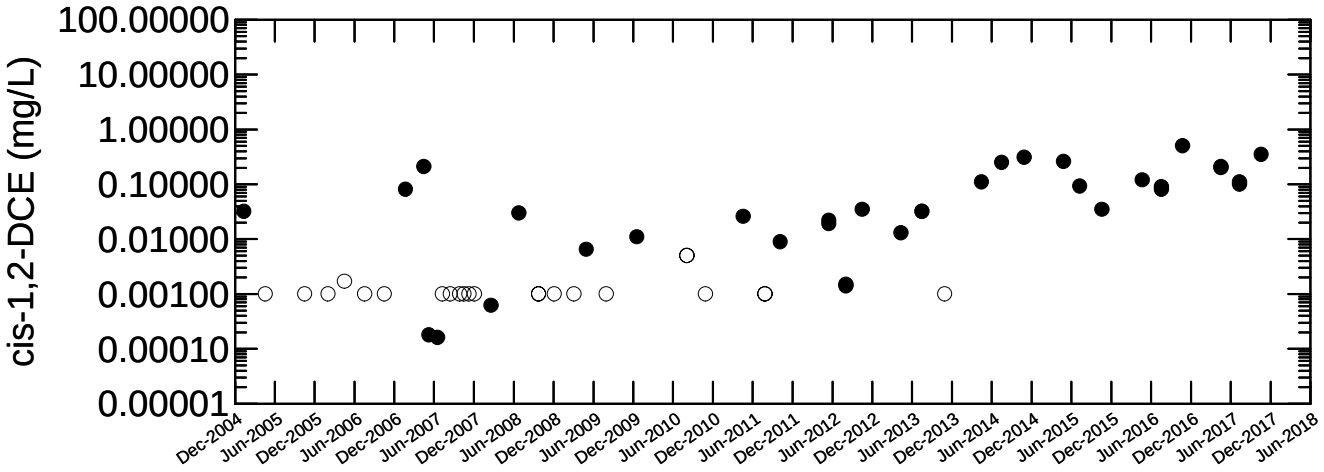

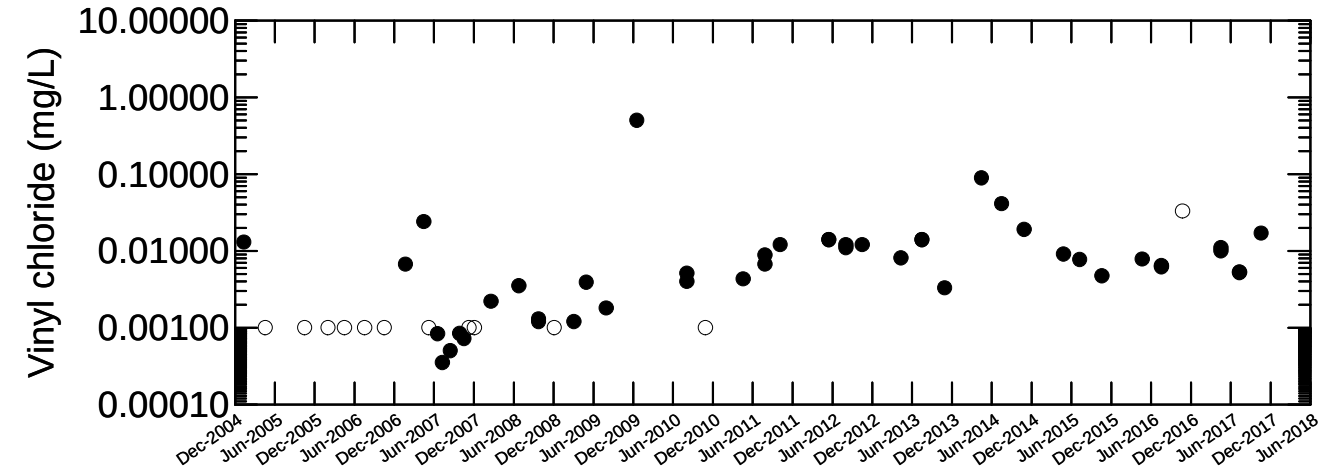

Legend:

● Detected Result
○ Non-Detect Result

Note:
Non-detects are shown as the laboratory detection limit.

Pond North

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