



2018 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 & 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 2018 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 2018. 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 & 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 2018

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 2018 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, January 2017, and January 2018). 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 glaciolacustrine 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 of MW 40 and MW 42 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 and a predominantly western gradient across the east portion of the Site into the meltwater valley.

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).

In October 2018, two monitoring wells (MW98-18 and MW99-18) were advanced and installed to further delineate bedrock groundwater impacts on-Site, east of MLK Boulevard.

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 four Unit 3S wells located between the plumes where VOCs have not been detected, or detected at only very low levels (MW 29, 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. 2018 Activities

3.1 Groundwater and Surface Water Monitoring

Groundwater and surface water monitoring activities were conducted in 2018 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 in April, October, and December 2018. During the April 2018 event, water levels were generally collected from accessible monitoring wells included in the Site-wide groundwater monitoring program. During the October 2018 event, water levels were collected from all accessible monitoring wells and at the Pond North location. In December 2018, water levels were collected from all accessible bedrock monitoring wells. Some monitoring wells were not gauged during 2018 as they could not be located or were not accessible. The static groundwater elevations measured in April, October, and December 2018 are summarized in Table 3, along with previous groundwater elevations measured in October 2017 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 9 and 13, 2018. Annual groundwater monitoring was conducted by GHD between October 1 and 10, 2018 and on December 13, 2018. A sample key summarizing the groundwater samples collected in April, October and December 2018 is provided in Table 4.

In the 2017 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 2018 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 9, July 5, and October 9, 2018 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 with corresponding sample locations.

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 2018. The IDW was removed from the Site for appropriate off-Site disposal on December 3, 2018 by US Ecology.

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.

During the October 2018 monitoring event, monitoring well MW 39 was inadvertently sampled instead of MW 83. As such, on December 13, 2018, MW 83 was sampled and water levels were collected from accessible bedrock monitoring wells.

4. Potentiometric Surface Mapping

The groundwater elevations measured in April, October, and December 2018 are summarized in Table 3, along with previous groundwater elevations measured in October 2017 for comparative reference. Water levels measured during the April event were generally higher than those measured in October.



Based on the October 2018 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 2018 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 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 59 on the north. As discussed in previous annual reports, this groundwater high, sometimes extending to MW 29 on the north, appeared to separate the AOC-1 South Court and WWTP Area plumes historically. 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, MW 51, and MW 76R-17. 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 2018 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 December 2018 bedrock unit data are provided on Figure 7. The December 2018 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 installation and monitoring of MW 99-18 in 2018 provided additional information on the direction of groundwater flow in the bedrock unit east of MLK Boulevard.

5. Analytical Results

The sample key (Table 4) summarizes the groundwater and surface water monitoring conducted in 2018. The laboratory certificates of analysis are provided in Appendix A. The 2018 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 2014 and 2018 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 2018 Site-wide Groundwater Monitoring Plan activities were completed by GHD and are provided in Appendix B. Based on the verification and validation reports, the 2018 data is acceptable for use with the qualifications noted. During the April monitoring event, methylene chloride was present in laboratory method blanks at low concentrations. Associated sample results with concentrations similar to the blanks were qualified as non-detect due to potential laboratory contamination. Also during the April and October monitoring events, cis-1,2-DCE and trichloroethene were present at low concentration in rinse blank samples. As such, associated samples with similar concentrations were qualified as non-detect. During the October monitoring event, high recoveries of vinyl chloride were observed in a lab matrix spike. The associated result was qualified as estimated.

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 2018. 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).

In October 2018, the extent of the AOC 1 – South Court plume remained defined on the east side with monitoring wells MW 37, MW 46, and MW 84 that were free of detected concentrations of



VOCs (MW 37 and MW 84) or contained very low estimated concentrations of VOCs (MW 46). Vinyl chloride has been detected in east boundary monitoring well MW 16 in the last two annual monitoring events. At the north perimeter boundary of the AOC 1 – South Court plume, Unit 3D monitoring well MW 75 is free of detected VOC concentrations. The Unit 3S monitoring well in this area (MW 76/MW 76R-17) exhibits very low concentrations of cis-1,2-DCE. In 2018, MW 49 south of the AOC 1 – South Court area had a detection of TCE above the screening level. Samples from this well have had elevated reporting limits since the October 2014 monitoring event. Downgradient of MW 49 (east-northeast and east), TCE was not detected in the sample collected from MW 89-11 and the sample only exhibited very low concentrations of other VOCs consistent with historical monitoring events.

Historical and recent trends for the AOC 1 – South Court plume are discussed in Section 7.

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, an increasing trend in the concentration of TCE has historically been observed at the perceived source area (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 2018, 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-2, MW 56, MW 86 and MW 97R-16) or contained very low concentrations of VOCs (MW 61 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 2018 data and update those contained in the 2017 Annual Groundwater Monitoring Report (GHD, January 31 2018). The October 2018 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 29, MW 37, MW 46, MW 59 and MW 84). Although monitoring wells MW 29 and MW 59 have not been sampled since 2013. A groundwater ridge in Unit 3S has historically occurred along this line of wells, and this mound appears to have served as a hydraulic barrier separating the two plume areas. Low level detections at MW 16 (between MW 46 and MW 84) and alterations in the predominance and extent of this ridge suggests changes to the historical hydraulic barrier may be occurring.

The AOC 1 – South Court plume in Unit 3S extends in a northeast direction from AOC 1 – South Court. The eastern 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 2018, 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 consistent 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 Meadowbrook Golf Course irrigation pond in 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. In 2018 the highest cis-1,2-DCE concentration was found at MW-4, just above the concentration detected at MW 85 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.



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 of the source area, 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. Between September and December 2018, GHD completed a bedrock groundwater investigation to delineate vertical and horizontal bedrock groundwater impacts. The results of the investigation indicate that shallow bedrock VOC impacts at MW 81 have not migrated deeper in the bedrock unit. The results also indicate that shallow bedrock VOC impacts have been delineated to the east at MW 99-18 and that there appears to be a western gradient across the east portion of the Site that would not allow for shallow bedrock groundwater impacts to migrate off-Site towards Madison Avenue.

5.5 Surface Water

Cis-1,2-DCE, trans-1,2-dichloroethene (trans-1,2-DCE), 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 2018. The detected concentrations of vinyl chloride at the Pond North and Pond Intake sampling locations exceed 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 in cis-1,2-DCE and vinyl chloride concentrations have been identified for the Pond North and Pond Intake locations.

6. MNA Evaluation

During the October 2018 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 MW89-11). These groundwater samples were analyzed for alkalinity, chloride, nitrate, sulfate, sulfide, TOC, DO, ORP, pH, ethane, ethene, and methane. NA data from 2014 to 2018 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, MW 49 and MW 79). While MW 31R is in the AOC 1 area, this location was not included in the natural attenuation screening of the AOC 1 – South Court plume due to the active (not natural) remediation measures implemented to reduce concentrations near this location. The former WWTP Area plume was assessed using results from wells associated with its extents (MW-4, MW 40, MW 57, MW 58, MW 64, MW 66, MW 68, and MW 85). The locations selected for the NA evaluation represent conditions at different locations within the plume and along



the flow path. The following unimpacted wells were used to assess background conditions: MW-2, MW 21 and MW89-11.

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. Since 2015, DO and ORP values at MW 21 have been 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 detected at low levels in both MW-2 and MW89-11, indicating anoxic or only slightly reducing background aquifer conditions may exist, as nitrate is the next electron acceptor to be utilized by bacteria after oxygen has been depleted.

Low concentrations of methane are typically detected in the 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-dichloroethene (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 (1.7 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 natural attenuation screening of the AOC1 – 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 (353 mg/L) and chloride (24 mg/L). Concentrations of alkalinity have not exceeded double the mean background conditions, either on-Site or downgradient. However, 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, and was close to double the background conditions in MW 79 in the AOC 1 plume.

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 estimated at MW 3, MW 8, and MW 15, which provides evidence of the biodegradation of 1,1,1-trichloroethane in the South Court plume source area.

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, and there were estimated values for 1,1-DCA reported. Concentrations of chloride at MW 85 were greater than 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 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 NA of VOCs is occurring via anaerobic biodegradation in the former WWTP Area plume and there is strong evidence that NA of VOCs is occurring via anaerobic 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 (H_0) = there is no trend or a decreasing trend in chemical concentrations over time.
- Alternative hypothesis (H_A) = 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 verses time graphs and tabular format in Appendix C.

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 – 2018) to historic (2005 – 2008) data.

It was noted in some cases that non-detects 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, MW 31R, and MW 40
- cis-1,2-DCE at MW 28, MW 66, MW 81, Pond Intake, and Pond North
- Vinyl chloride at MW 3, MW 51, MW 65, MW83, MW 88, 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 having 75 percent or more detected values. In addition, due to limited number of samples, outlier tests were not performed for the recent period. 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 C Table C.2.

Statistical outliers were identified for cis 1,2 DCE at MW 14, MW 28, MW 31R, and MW 51; and for vinyl chloride at MW 3, MW 8 and Pond North, as indicated in the Table C.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 C.1 and a summary of descriptive statistics are shown in Table C.2 of Appendix C, 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, 31 had no statistically significant trend (i.e., groundwater VOC concentrations are stable or decreasing over time), and 22 datasets had significant increasing trends (at a 90 percent confidence level). Vinyl chloride concentrations analyzed in 2018 at MW 49 and MW 66 were non-detects with elevated detection limits, therefore trends were not assessed at these wells during the current evaluation due to ambiguous comparisons with data analyzed at lower detection limits.

Comparing the results to those from the previous (2017) evaluation, no changes were observed in the results during the current monitoring period (2018).

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. The results from the Mann-Kendall trend test considering a more recent period are shown in Table 10. Of the 22 increasing trends observed during the entire monitoring period, 13 were observed to be stable (no statistically significant trend) during the recent period. Nine increasing trends persisted during the recent period, and five new increasing trends were observed (i.e., cis-1,2-DCE at MW 31R and MW 58, and vinyl chloride at MW-4, MW 79, and MW 80).

A summary of increasing trends comparisons observed during the entire monitoring period vs. the recent period is shown in below:

Analyte	Location	Entire Monitoring Period (2005-2018) Trend Result	Recent Monitoring Period (2015-2018) Trend Result
Trichloroethene	MW-4	Increasing	Increasing
Trichloroethene	MW 40	Increasing	NT or Decreasing
Trichloroethene	MW 68	Increasing	NT or Decreasing
cis-1,2-DCE	MW 28	Increasing	Increasing
cis-1,2-DCE	MW 31R	NT or Decreasing	Increasing
cis-1,2-DCE	MW 49	Increasing	Increasing



Analyte	Location	Entire Monitoring Period (2005-2018) Trend Result	Recent Monitoring Period (2015-2018) Trend Result
cis-1,2-DCE	MW 51	Increasing	Increasing
cis-1,2-DCE	MW 58	Over 25% ND	Increasing
cis-1,2-DCE	MW 66	Increasing	Increasing
cis-1,2-DCE	MW 79	Increasing	NT or Decreasing
cis-1,2-DCE	MW 81	Increasing	NT or Decreasing
cis-1,2-DCE	MW 85	Increasing	NT or Decreasing
cis-1,2-DCE	Pond Intake	Increasing	NT or Decreasing
cis-1,2-DCE	Pond North	Increasing	NT or Decreasing
Vinyl chloride	MW-4	NT or Decreasing	Increasing
Vinyl chloride	MW 28	Increasing	NT or Decreasing
Vinyl chloride	MW 41	Increasing	NT or Decreasing
Vinyl chloride	MW 51	Increasing	NT or Decreasing
Vinyl chloride	MW 58	Increasing	NT or Decreasing
Vinyl chloride	MW 64	Increasing	Increasing
Vinyl chloride	MW 79	NT or Decreasing	Increasing
Vinyl chloride	MW 80	NT or Decreasing	Increasing
Vinyl chloride	MW 81	Increasing	NT or Decreasing
Vinyl chloride	MW 83	Increasing	Increasing
Vinyl chloride	MW 88	Increasing	Increasing
Vinyl chloride	Pond Intake	Increasing	Increasing
Vinyl chloride	Pond North	Increasing	NT or Decreasing

The data used in the trend tests are shown in Table C.3 and a summary of descriptive statistics are shown in Table C.4 of Appendix C.

Data from the last 3 to 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. Both historic and recent vinyl chloride data sets were found to be log-normally distributed, therefore the *t*-test was performed using log-transformed data. The results of the group comparison tests confirm the Mann-Kendall trend test results. Group comparison tests were not carried out at well MW 21 due to elevated percentage of non-detects.

8. Conclusions

Based on the 2018 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 2018 event again indicates the



presence of a groundwater mound, or ridge, in Unit 3S that extends in a north-south arc from the MW 46 area on the south to MW 59 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 December 2018 bedrock potentiometric mapping 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 installation and monitoring of MW 99-18 in 2018 provided additional information on the direction of groundwater flow in the bedrock unit east of MLK Boulevard.
4. In October 2018, the extent of the AOC 1 – South Court plume remained defined on the east side with monitoring wells MW 37, MW 46, and MW 84 that were free of detected concentrations of VOCs (MW 37 and MW 84) or contained very low estimated concentrations of VOCs (MW 46). Vinyl chloride has been detected in east boundary monitoring well MW 16 in the last two annual monitoring events. Monitoring wells MW 29 and MW 59 have not been sampled since 2013 to further define the east boundary of the plume. At the north perimeter boundary of the AOC 1 – South Court plume, Unit 3D monitoring well MW 75 is free of detected VOC concentrations. The Unit 3S monitoring well in this area (MW 76/MW 76R-17) exhibits very low concentrations of cis-1,2-DCE. In 2018, MW 49 south of the AOC 1 – South Court area had a detection of TCE above the screening level. Samples from this well have had elevated reporting limits since the October 2014 monitoring event. Downgradient of MW 49 (east-northeast and east), TCE was not detected in the sample collected from MW 89-11 and the sample only exhibited very low concentrations of other VOCs consistent with historical monitoring events.
5. In October 2018, 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 historic data and comparing 2018 results to those from the 2017 evaluation, the observed trends for TCE, cis-1,2-DCE and vinyl chloride concentrations in 2018 were consistent with the assessment conducted in 2017.
7. Groundwater plume stability was assessed considering the most recent results (3 to 5 years). The results from the Mann-Kendall trend test considering the most recent results showed that 13 of the 22 increasing trends identified using the entire monitoring period were observed to be stable (no statistically significant trend) during the recent period. Nine increasing trends observed during the entire monitoring period were also increasing during the recent period. However, five additional increasing trends were observed for the recent period, when considering the entire monitoring period, they were observed to be stable (i.e., cis-1,2-DCE at AOC 1 source monitoring well MW 31R and WWTP margin monitoring well MW 58, and vinyl chloride at WWTP tail monitoring well MW-4, AOC 1 tail monitoring well MW 79, and WWTP margin monitoring well MW 80). 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.



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 2018 (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, 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 2018. 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 2018 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 Natural Attenuation (NA) sampling be discontinued in 2019. Further NA sampling will be evaluated as part of the revised CMP.
2. It is recommended that the April and July surface water sampling events be discontinued in 2019 given little change in seasonal results historically. Surface water sampling will be evaluated as part of the revised CMP.
3. It is recommended that only monitoring wells MW16, MW 29, MW 46, MW 49, MW 59, and MW 84 be sampled in April 2019 to assess current groundwater quality and support the development of the draft Final CMP. Monitoring wells MW 16, MW 29, MW 46, MW 59, and MW 84 have been selected to further assess groundwater quality in the area of the Unit 3S ridge and MW 49 has been selected to confirm recent groundwater analytical results.
4. A revised long term groundwater monitoring program will be proposed as part of the draft Final CMP.

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All of Which is Respectfully Submitted,

GHD

A handwritten signature in blue ink that reads "Robert Catallo". The signature is written in a cursive, flowing style.

Robert Catallo, B.Sc.

A handwritten signature in blue ink that appears to read "Shannon Richardson". The signature is written in a cursive, flowing style.

Shannon Richardson, B.Sc.



about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

Robert Catallo

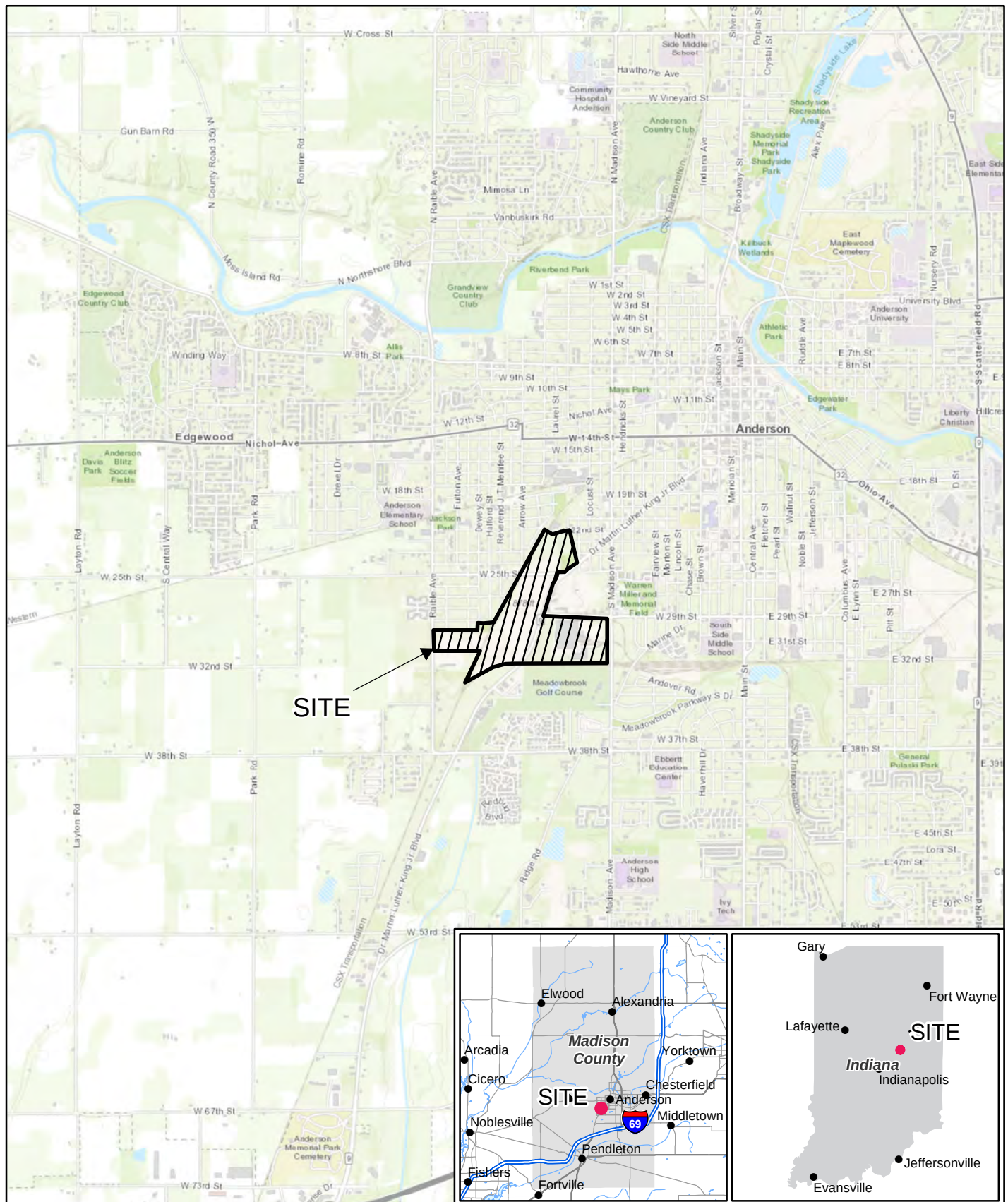
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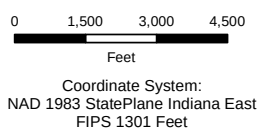
Shannon.richardson @ghd.com
905.682.0510

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Figures



Source: ESRI Topographic Basemap, Accessed 2018, ESRI Base Data, 2008.

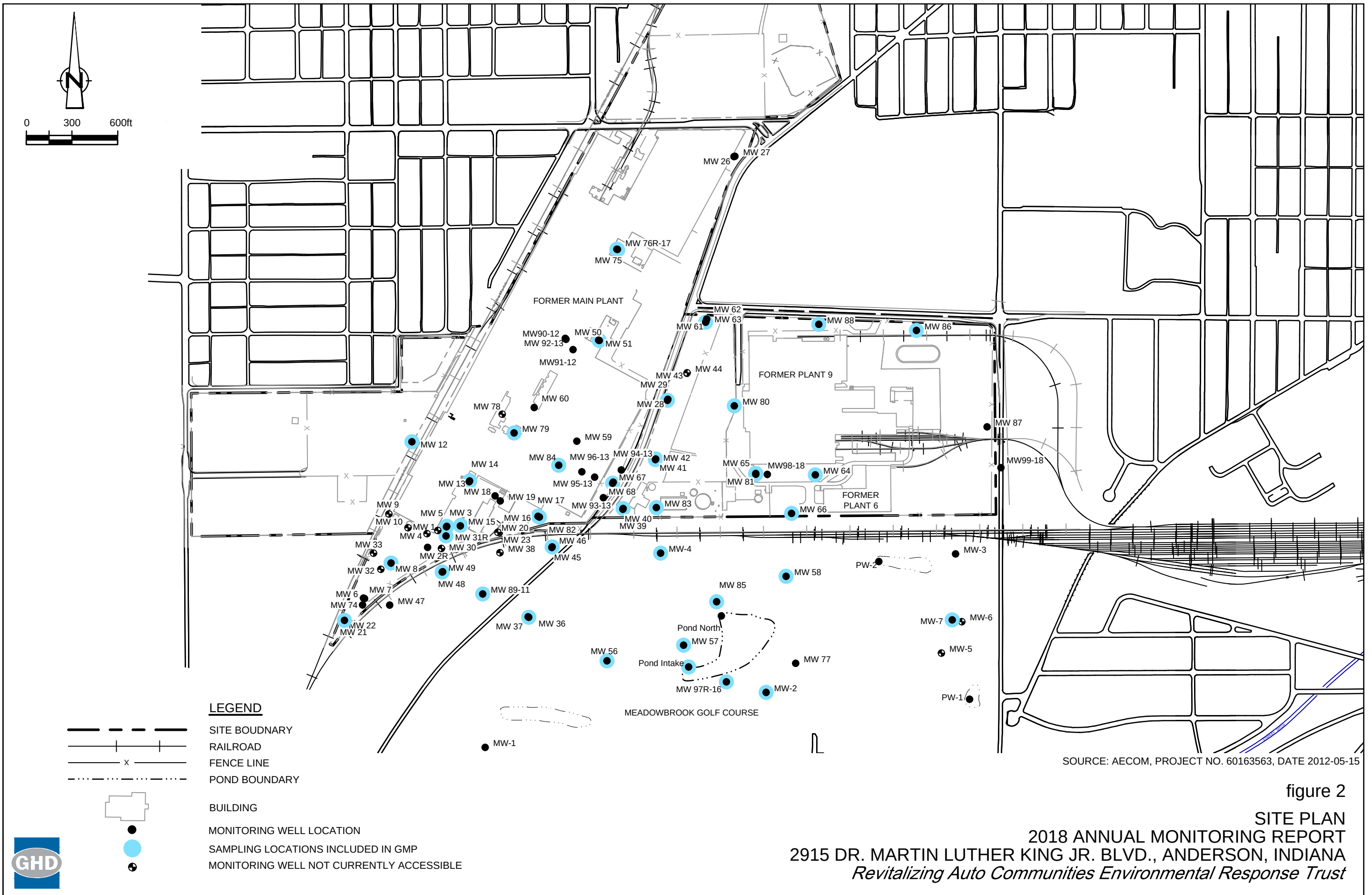


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SITE LOCATION MAP

FIGURE 1



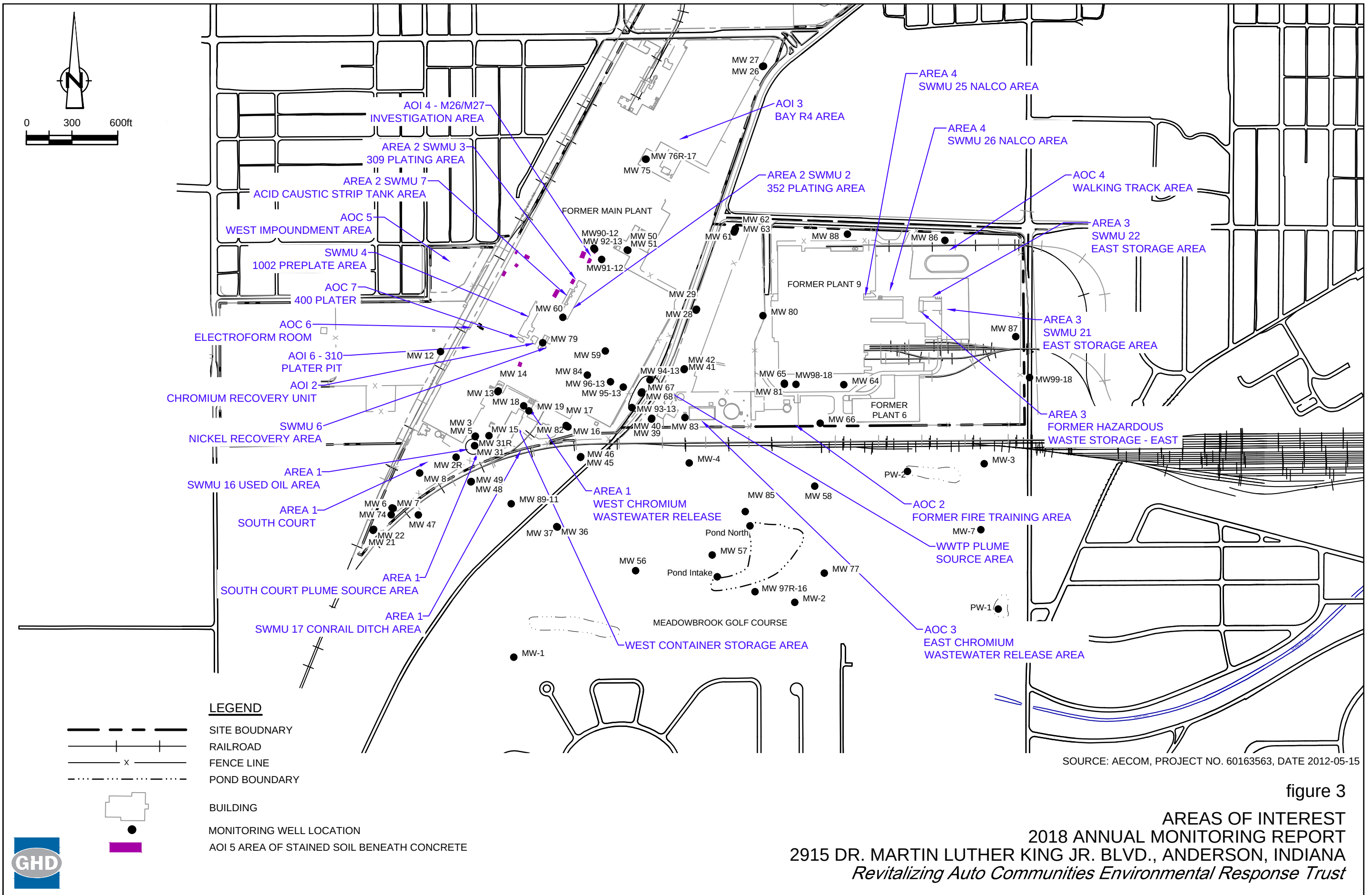
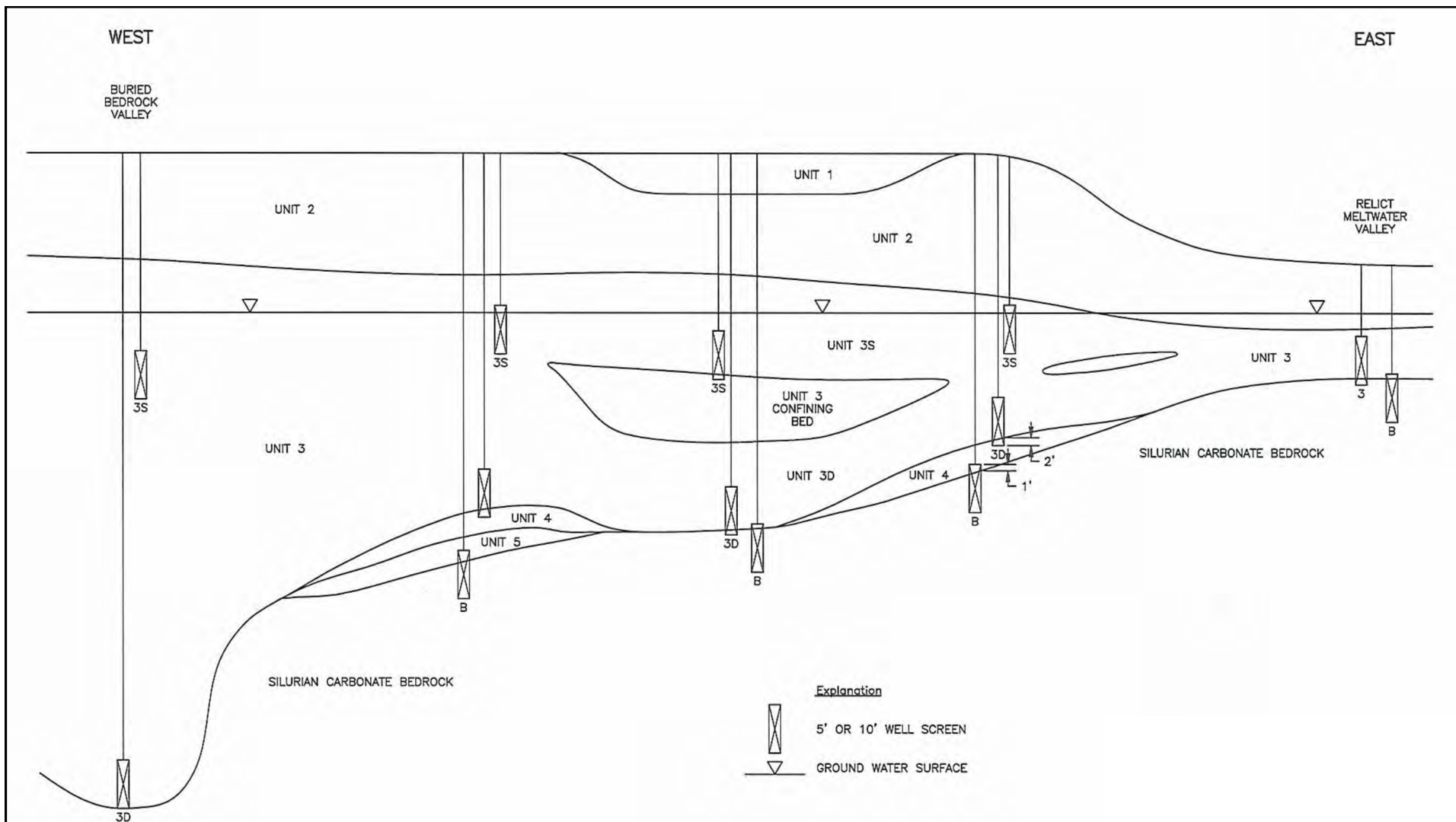


figure 3

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

figure 4

GENERALIZED HYDROGEOLOGIC CROSS SECTION SHOWING WELL COMPLETION ZONES

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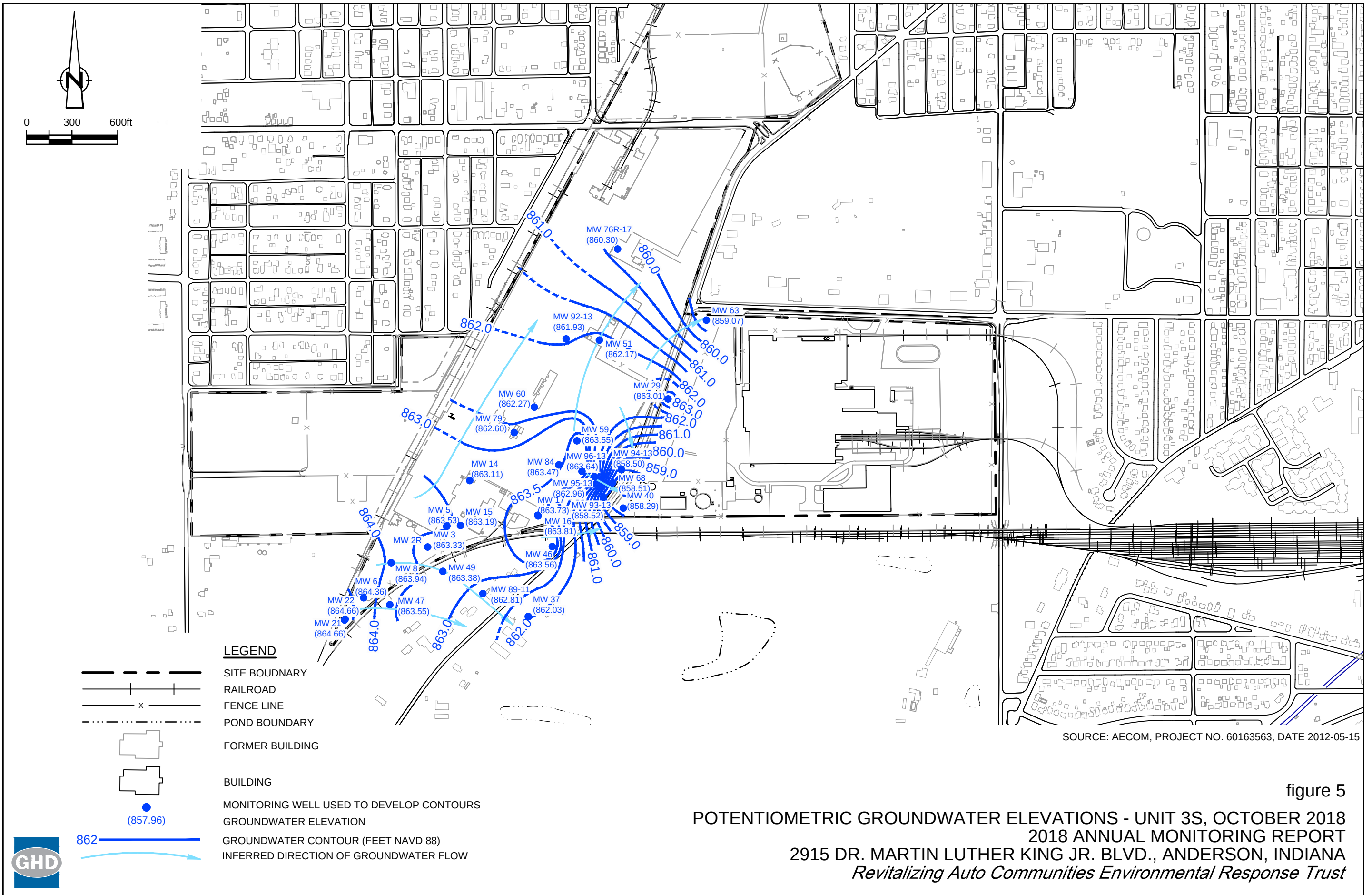


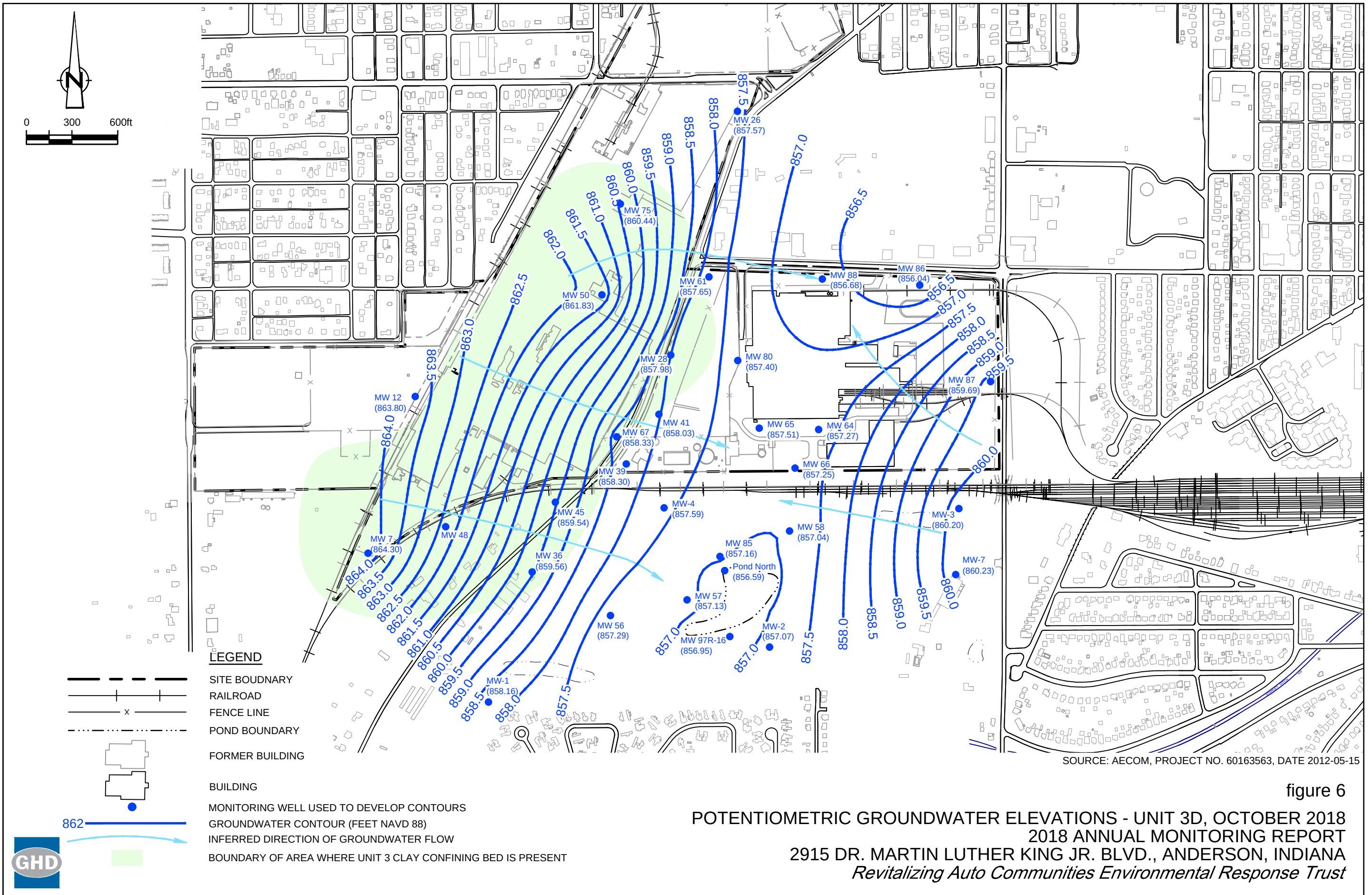
figure 5

POTENTIOMETRIC GROUNDWATER ELEVATIONS - UNIT 3S, OCTOBER 2018

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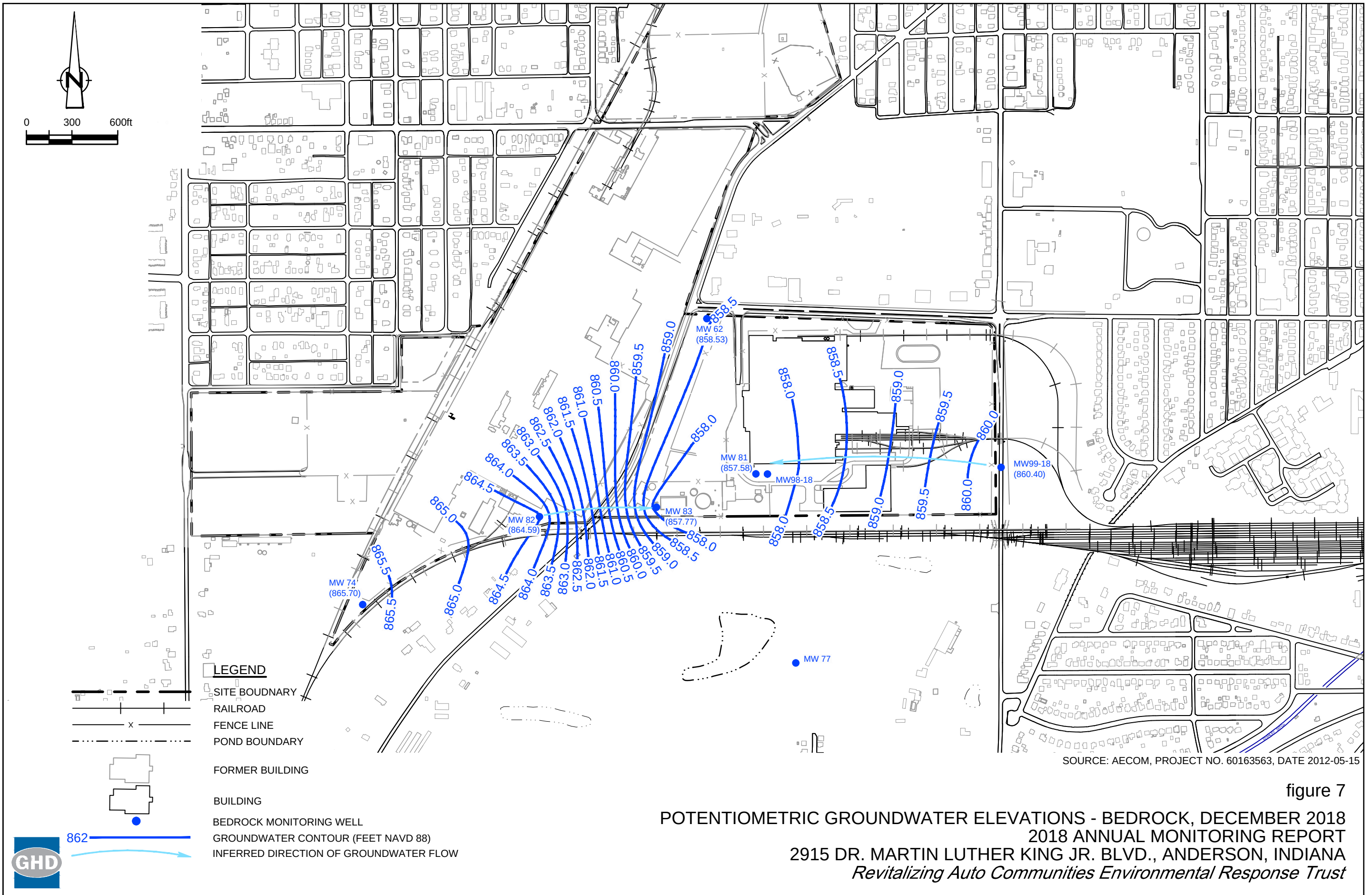


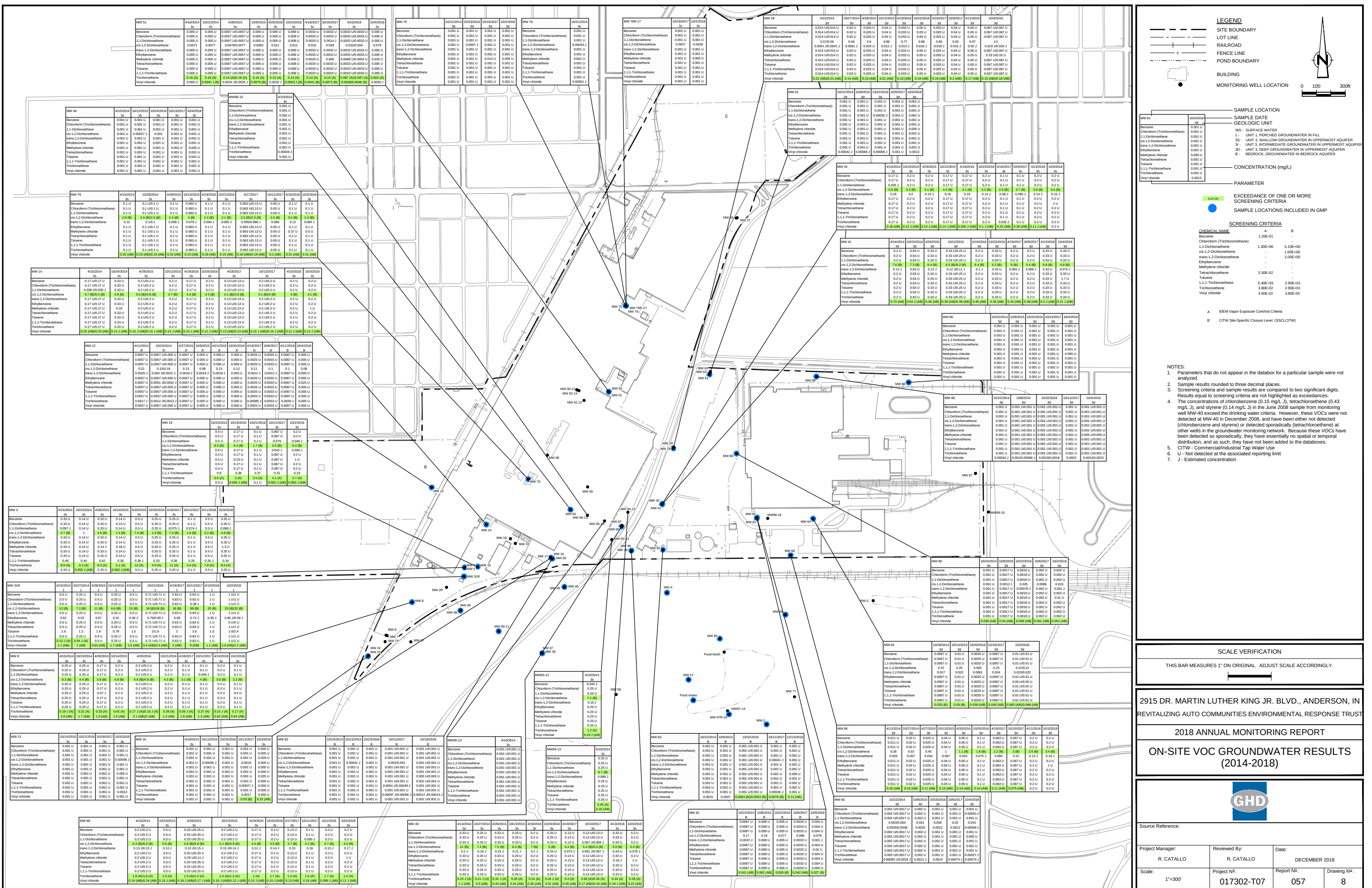
figure 7

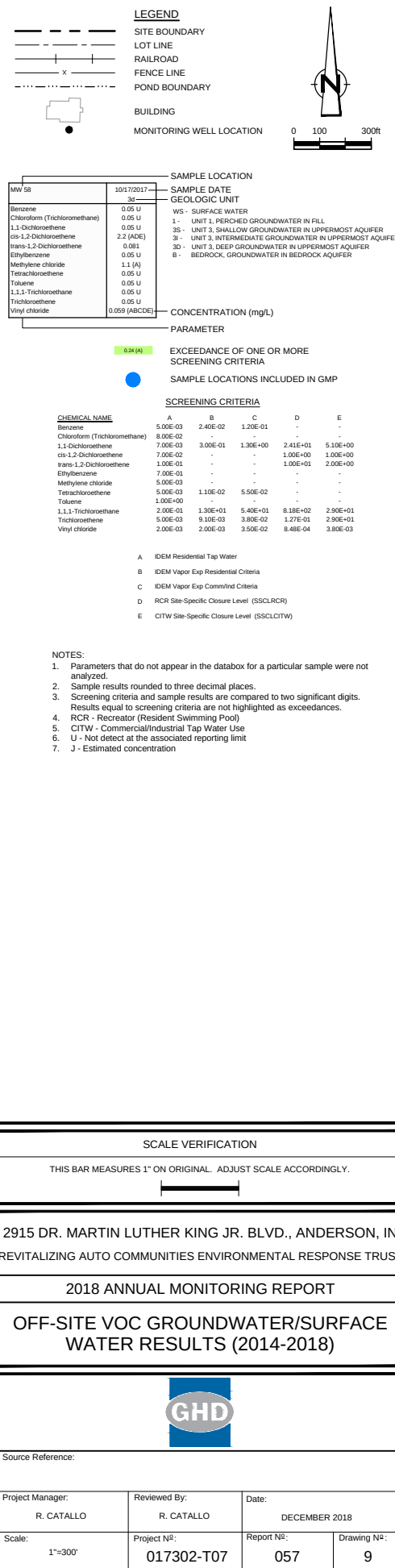
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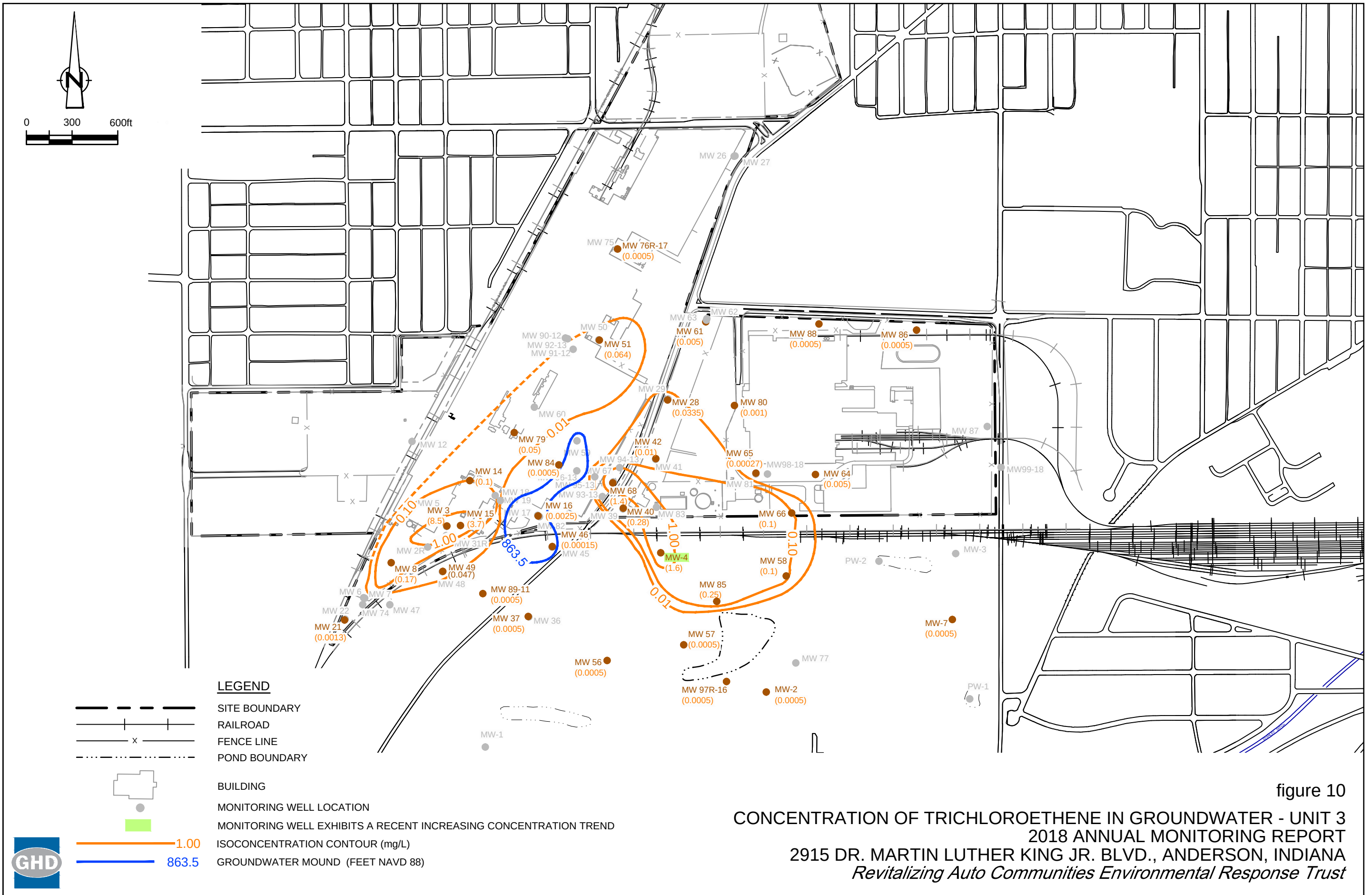
2018 ANNUAL MONITORING REPORT

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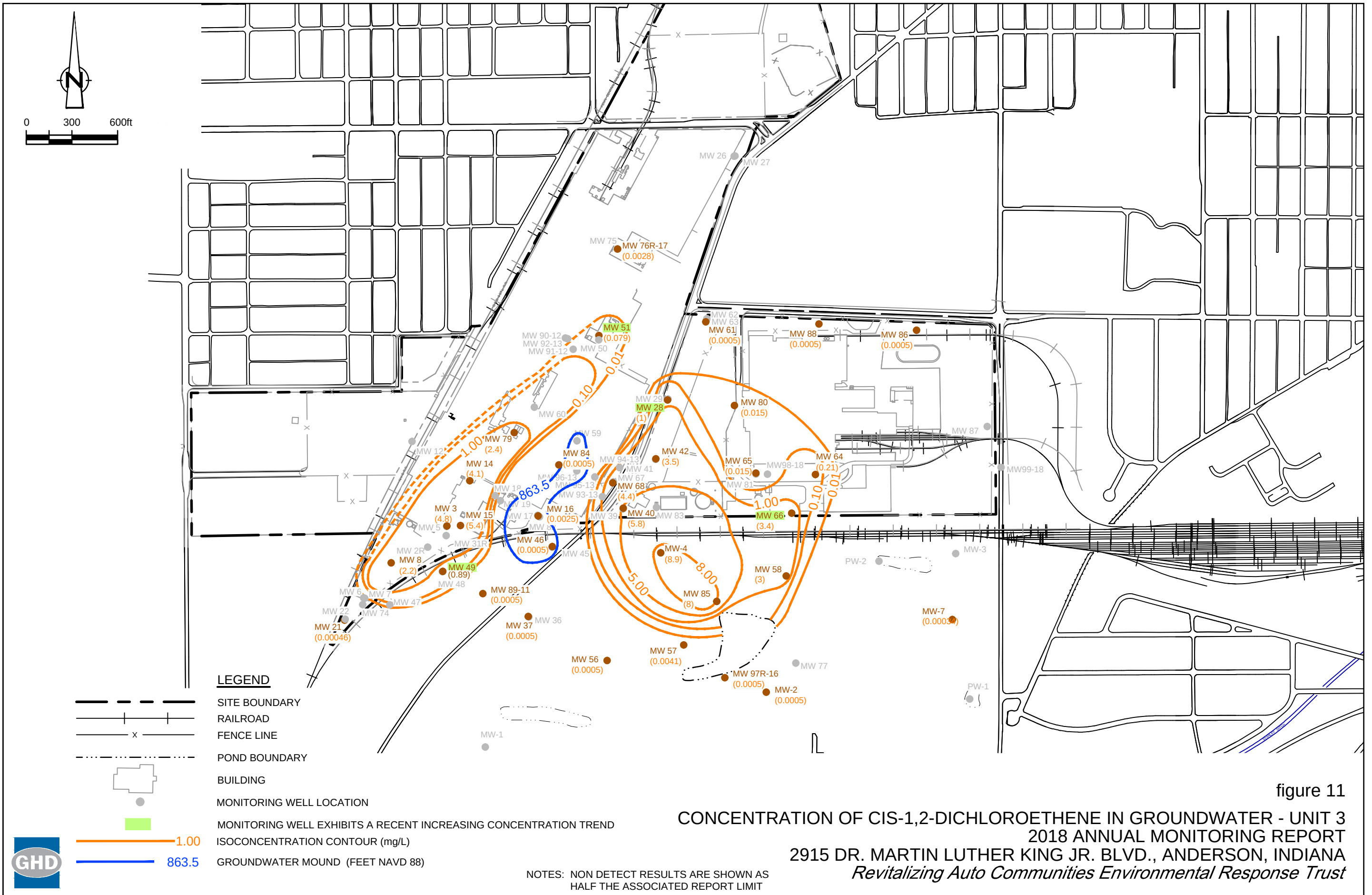
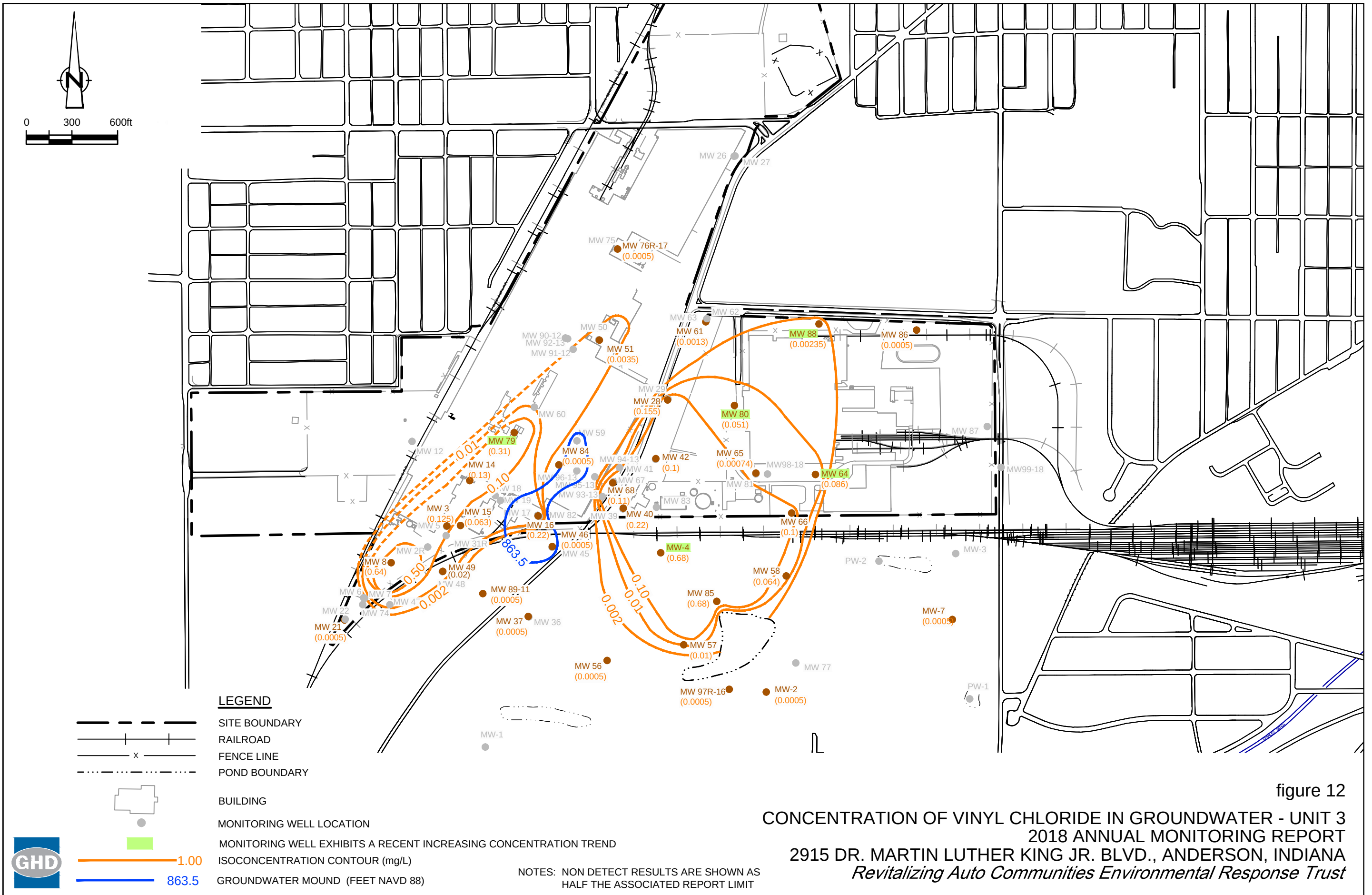


figure 11



MW 15	10/23/2014	10/14/2015	10/21/2016	10/17/2017	10/20/2018
FRASER	3s	3s	3s	3s	3s
Dissolved oxygen (DO), field	0.14	0.09	0.70	0.20	0.05
Ferrous iron	0	0.5	-	0.5	0.5
Oxidation reduction potential (ORP), field	95	-22	2860	13	-124.8
Gal	6.74	7.06	7.31	6.81	7.27
Gas					
Ethane	0.0097	0.0074	0.0018	0.0038	0.0034
Ethyl acetate	0.011	0.0019	0.0013	0.0013	0.0013
Methane	0.019	0.013	0.0026	0.0018	0.0069
Aq					
Aluminum, bicarbonate	50.0	390	250	230.0	5.0
Aluminum, carbonate	0.010	42.2	5.0	1.0	5.0
Chloride	30	15	79	19	12
Dissolved organic carbon (DOC)	28	5.5	6.4	4.0	2.6
Hardness	240	50	20	20	20
Nitrate (as N)	0.10	0.10	0.091	0.32	0.10
Nitrite (as N)	0.10	0.10	0.10	0.018	0.10
Sulfate	90	76	100	92	51
Total organic carbon (TOC)	30	30.0	30.0	30.0	30.0
Total organic carbon (TIC)	22	2.5	6.3	4.2	2.2

ANV 3	10/25/2014	10/31/2015	10/25/2016	10/12/2017	10/30/2018
	3s	3s	3s	3s	3s
SPINAM					
Dissolved oxygen (DO), field	0.47	0.12	-	0.14	0.22
Ferrous iron	0	0.0	-	0.5	0
162	162	22.5	-	43	295
Oxidation reduction potential (ORP), field	7.15	7.35	-	6.80	7.39
Gases					
Ethane	0.0222	0.0016	0.0007	0.0019	0.0021
Methane	0.0046	0.0054	0.0028	0.0028	0.0011
0.0223	0.0018	0.0004	0.0004	0.0004	0.0027
Wet					
Alkalinity, bicarbonate	319.9	370	319.9	319.9	330
Alkalinity, carbonate	5.0	5.0	5.0	5.0	5.0
Chloride	12	8.8	7.7	7.7	6.6
Dissolved organic carbon (DOC)	3.7	4.0	4.2	3.5	3.4
Hardness	350	350	350	340	340
Nitrate (as N)	2.6	1.7	2.1	2.2	0.55
Nitrite (as N)	0.67	0.24	0.38	0.11	0.075
73	73	67	59	56	56
Sulfide	3.0	3.0	3.0	3.0	3.0
Total organic carbon (TOC)	3.8	4.0	4.3	3.3	3.4

MW 3R	10/27/2014	10/14/2015	10/21/2016	10/12/2017	10/29/2018
Chlorinated oxygen (DO), field	0.11	0.05	0.00	0.10	0
Ferrus iron	0	4.0	-	2.5	1.5
Redox potential (ORP), field	-23	-135.7	-124.0	-142	-177
Ca, field	6.45	7.06	7.21	6.92	7.11
Dissolved oxygen (DO)	0.065	0.055	0.086	0.19	0.20
Ethane	2.1	1.4	2.12	4.7	1.40
Ethylbenzene	0.37	0.86	0.940	0.8	1.21
Alkyl	460	620	40840	45.8	5005
Acetate, bicarbonate	5.0	5.0	5.0	5.0	5.0
Acetate, carbonate	69	90	120120	120	626
Chloride	15	10	17318	18	11/1
Hardness	60	600	600	600	600
Hydrogen sulfide (as N)	0.11H	0.04E3	0.20E3	0.2	0.30
Iron (as NO)	0.10	0.10	0.10	0.10	0.10
Iron (as NO3)	0.10	0.10	0.10	0.10	0.10
Iron	10	11	6785	11	10.8
Sulfate	3.0	3.0	3.0	3.0	3.0
Total organic carbon (TOC)	34	11	17318	18	11/1

MW 8	10/23/2014	10/14/2015	10/21/2016	10/21/2017	10/22/2018
	3s	3s	3s	3s	3s
EPHAPAM					
Dissolved oxygen (DO), field	0.17	0.10	0.00	0.05	0
Ferrous iron	1.5	1.5	-	2.5	1 ¹
Oxidation reduction potential (ORP), field	7	-81.1	-81.0	7.5	-15.0
Total organic carbon (TOC)	7.2	7.04	6.99	6.70	7.2
Ethane	0.0209	0.03	0.0188	0.027	0
Ethene	0.09	0.085	0.088	0.08	0.08
Methane	0.085	0.16	0.096	0.15	0.2
Wet					
Alkalinity, bicarbonate	400 ± 8	450	420	410 ± 8	400
Alkalinity, carbonate	5.0	5.0	5.0	5.0	5.0
Dissolved inorganic carbon	17	18	22	19	14
Chloride	1.9	2.5	2.4	1.7	2
Chloride organic carbon (DOC)	520	580	560	560	560
Nitrate (as N)	0.10 ± 0	0.10 ± 0	0.10 ± 0	0.10 ± 0	0.10 ± 0
Nitrite (as N)	0.10 ± 0	0.10 ± 0	0.10 ± 0	0.10 ± 0	0.10 ± 0
Sulfate	110	210	130	170	190
Sulfide	3.0 ± 0.3	3.0 ± 0.3	3.0 ± 0.3	3.0 ± 0.3	3.0 ± 0.3
Total organic carbon (TOC)	2.0	2.3	2.3	2.6	2.8

MPW 21	10/14/2015 3s	10/21/2015 3s	10/28/2015 10s
PARAM			
Dissolved oxygen (DO), field	8.20	2.78	
Ferrous iron	2.0	-	
Oxidation reduction potential (ORP), field, p/p	-32.5	81.0	
	7.02	7.02	
Gels			
Ethane	0.0005 U	0.0005 U	0
Ethylene	0.0006 U	0.0004 U	0
Methane	0.0027		
Wet			
Alkalinity, bicarbonate	350	320	
Alkalinity, carbonate	15.0 U	5.0 U	
Chloride	47	41	
Dissolved organic carbon (DOC)	7.1	3.9	
Hardness	430	430	
Nitrate (as N)	0.10 U	0.10 U	
Nitrite (as N)	0.10 U	0.10 U	
Sulfate	56	54	
Sulfide	3.0 U	3.0 U	
Total organic carbon (TOC)	7.5	4.7	

FWAR-11	10/28/2014	3/1	10/15/2015	20/25/2016	10/17/2017	10/8/2018
FWAR-11						
Dissolved oxygen (DO), field	1.59	3.41	0.00	2.59	1.27	1.27
Ferrous iron	0	0.0	-	1.5	1.5	1.5
DO saturation	7.83	59.3	616.0	105	170	170
Redox potential reduction potential (ORP), field	7.83	59.3	616.0	105	170	170
Gas						
Ethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0001 U	0.0001 U
Ethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0001 U	0.0001 U
Ethane	0.000013 U	0.00005	0.002404 U	0.0023 U	0.0001 U	0.0001 U
HW						
Alkalinity, bicarbonate	390.0	50.0	420.0 U	390.0	370	370
Alkalinity, carbonate	50.0	50.0	50 U	50.0	50.0	50.0
Chloride	43	37	139.3	34	22	22
Dissolved organic carbon (DOC)	3.2	1.3	3.81	2.1	1.1	1.1
Hardness	470	490	500.0 U	470	450	450
Nitrate (as N)	3.8	7.5	2.92	4.1	0.0	0.0
Nitrite (as N)	0.10 U	0.10 U	0.10 U	0.10 U	0.10	0.10
Sulfate	45	55	55	45	55	55
Sulfide	3.0	3.0	3.0 U	3.0	3.0	3.0
Total organic carbon (TOC)	0.96 U	1.3	1.3 U	1.3	1.0	1.0

HW 79	10/28/2014	10/31/2015	10/12/2016	10/11/2017	10/02/2018
	3s	3s	3s	3s	3s
PFAS/MAP					
Dissolved oxygen (DO), field	0.27	0.10	0.00	0.07	0.07
Ferrous iron	0.5	2.5	-	2.5	2.5
Redox potential (ORP), field	149	-70.4	8.0	82	-252.1
DO, field	4.07	7.06	7.01	8.75	7.13
Gas					
Ethane	0.00025	0.00022	0.0004	0.0005	0.001
Ethyl acetate	0.00203	0.0022	0.0015	0.0022	0.0016
Methane	0.00076	0.00074	0.0054	0.0007	0.0076
Water					
Alkalinity, bicarbonate	320	330 B	330	340 B	340
Alkalinity, carbonate	5.0	5.0 U	5.0	5.0 U	5.0 U
Chloride	486	481	43	44	45
Dissolved oxygen (DOC)	0.86	0.85	1.6	1.0	1.5
Hardness	440	440	40	40	40
Nitrate (as N)	0.10	0.10 U	0.10 U	0.10 U	0.10 U
Nitrite (as N)	0.10	0.10 U	0.10 U	0.10 U	0.10 U
Ammonia	7474	7474	50	50	50
Sulfide	3.0	3.0 U	3.0	3.0	3.0
Total organic carbon (TOC)	0.76	0.82	1.4	1.0	3.5

AN 40	10/27/2014	10/31/2015	10/30/2016	10/30/2017	10/30/2018
PHARM					
Dissolved oxygen (DO), field	0.16	0.05	2.49	0.00	0.02
Ferrous iron	0.5	2.5	-	2.5	2.5
Oxidation reduction potential (ORP), field	-8	-86.6	10.0	-82	-53.6
DO, lab, field	7.34	6.06	7.35	7.47	7.29
gases					
Ethane	0.00006	0.00032	0.00042	0.00004	0.00033
Ethanol	0.0059	0.0028	0.0030	0.00000	0.00000
Methane	0.025	0.017	0.028	0.00036	0.001
Alot					
Ammonia, bicarbonate					
Ammonia, carbonate	330	360	340	320 B/220 B	330
Chloride	510	500	500	510	520
Dissolved organic carbon (DOC)	19	1.7	1.2	1.913	1.3
Iron	40	10	10	47640	390
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	0.10 U
Sulfate	77	94	77	707	67
Total organic carbon (TOC)	3.0	1.0	1.0	3.0 U/2.0 U	3.0 U
Total organic carbon	1.1	1.6	1.1	1.913	1.2

MW %	10/29/2014	10/19/2015	10/24/2016	10/18/2017	10/9/2018
	3d	3d	3d	3d	3d
PMMA					
Dissolved oxygen (DO), field	0.01	0.11	2.29	0.12	0
Ferrous iron	1.5	2.0	-	-	0.5
Oxidation reduction potential (ORP), field	0	-69.4	-44.0	-61	-162
Calc. SOD	7.51	68.9	6.85	7.14	6.98
GAS					
Ethane	0.0043 ± 3	0.0003	0.0017	0.0052	0.011
Ethanol	0.026	0.0093	0.0012	0.0007	0.013
Acetylene	0.0043 ± 3	0.0057	0.004	0.0057	0.015
Alkalinity					
Alkalinity, carbonate	360	440	370	380	510
Alkalinity, carbonate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloride	32	28	33	32	32
Dissolved organic carbon (DOC)	2.4	2.4	3.3	3.7	3.4
Dissolved organic carbon (DOC)	500	490	490	490	320
Ammonia (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	0.10 U
Sulfate	100	120	96	94	80
Total organic carbon (TOC)	0.10	0.10	0.10	0.10	0.10
Total organic carbon (TOC)	2.6	2.7	3.7	3.9	3.5

HW-3	10/29/2014	10/10/2015	10/24/2016	10/17/2017	10/18/2018
PARAM					
Dissolved oxygen (DO), field	0.24	0.15	0.00	0.03	0.08
DO, saturation	6.15	2.0	1.5	1.5	1.5
Oxidation reduction potential (ORP), field	78	-60.7	-23.0	-34	-158
ORP, saturation	6.53	69.93	6.88	7.19	6.51
Chloride	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.005 U
Ammonia	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.005 U
Methane	0.0042	0.015	0.0032	0.0043	0.018
Alkalinity, bicarbonate	350	430	370	350	8
Alkalinity, carbonate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Alkalinity, total	25	25	17	17	17
Dissolved organic carbon (DOC)	2.3	2.4	2.7	2.8	3.2
Tardness	480	490	450	460	500
Chloride (as N)	0.069	0.10	0.06	0.17	2.4
Ammonia (as N)	0.010	0.010	0.010	0.010	0.010
Sulfate	59	76	47	50	56
Calcium	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Electrical conductivity (EC)	2	2	2	2	2

MW IS	10/26/2014 3d	10/19/2015 3d	10/24/2016 3d	10/17/2017 3d	10/09/2018 3d
FFARAR					
Dissolved oxygen (DO), field	0.17	0.37	0.00	0.09	0.03
DO Sat	2	2	5.5	3	4
Oxidation reduction potential (ORP), field	-110	-71.8	-80.0	-85	-173.2
pH	9.51	7.00	6.92	7.27	7.14
Ethane	0.0044	0.0018	0.00079	0.00084	0.001
Ethane	0.011	0.0004	0.0043	0.0003	0.003
Alkane	0.023	0.02	0.011	0.016	0.05
Methane, bicarbonate					
Alkane, organic					
Chloride	340	410	340	340	320
Dissolved organic carbon (DOC)	5.0	5.0	5.0	5.0	5.0
Hardness	450	120	120	93	64
Iron (mg/L)	1.5	1.8	1.5	1.6	3.4
Ammonia (mg/L)	460	430	460	430	420
Nitrite (mg/L)	0.10	0.10	0.10	0.10	0.10
Nitrate (mg/L)	0.10	0.10	0.10	0.10	0.10
Sulfate	74	74	69	70	62
Sulfide	3.0	3.0	3.0	3.0	3.0
Dissolved organic carbon (DOC)					

Fig. 68	4/15/2014	3/3/2014	10/13/2015	10/20/2016	10/11/2017	10/2/2018
	3s	3s	3s	3s	3s	3s
PSADAM						
Dissolved oxygen (DO), field	3.8	0.96	0.07	0.00	0.09	0.18
Ferrous iron	1	1	2.0	-	1	2
Oxidation reduction potential (ORP), field	49	-153	-77.1	20.0	-77	-258.6
pH, field	8.57	4.83	7.07	7.17	6.73	7.12
Gels						
Ethane	0.0005	0.0005	0.0005	0.0005	0.0001	0.0014
Ethanol	0.0051	0.0015	0.0001	0.0054	0.0001	0.0001
Acetone	0.027	0.027	0.0100	0.0083	0.0053	0.0014
Water						
Ammonia, bicarbonate	340	330 B	370/370	330	250 B	330
Ammonia, carbonate	5.0	5.0	5.0	5.5	5.0	5.0
Chloride	40	43	34/34	34	29	32
Dissolved organic carbon (DOC)	2.3	1.2	1.9/1.3	1.3	1.6	2.1
Dissolved inorganic carbon (DIC)	400	400	420/420	400	400	400
Nitrate (as N)	0.10	0.10	0.10	0.10	0.10	0.10
Nitrite (as N)	0.10	0.10	0.10	0.10	0.10	0.10
Phosphate (as P)	2.1	72	69/68	62	72	66
Sulfate	10.0	10.0	10.0	10.0	10.0	10.0
Total organic carbon (TOC)	76.1	1.4	2.9/4.3	1.3	1.4	2.5

4-W-4	10/29/2014	10/19/2015	10/24/2016	10/19/2017	10/28/2018
1990/80		3d	3d	3d	3d
Dissolved oxygen (DO), field					
Ferrous iron	0.12	0.18	0.00	0.06	0.03
Ferrous iron	1.5	1.0	-	2.5	2.5
Oxidation reduction potential (ORP), field	-24	-42	-52.0	-74	-706
Calcium	8.41	6.98	6.50	7.29	7.17
Chloride					
Ethane	0.0042	0.002	0.00067	0.00101 (0.0006)	0.001
Hydrogen sulfide	0.011	0.021	0.016	0.026	0.026
Mercury	0.028	0.022	0.011	0.020 (0.01)	0.018
Nitrate					
Nitrite					
Phosphate, bicarbonate					
Salinity	350	410	500	510 (510)	510
Sulfate, carbonate	5.0	1.0	5.0	6.0 (5.0)	5.0
Total dissolved solids	80	62	56	51 (51)	41
Chloride oxygen: carbon (C:O)	1.6	2.0	1.6	1.6 (1.7)	2.0
Chloride	4.0	4.0	4.0	4.0 (4.0)	4.0
Chloride (as N)	0.10	0.10	0.10	0.10 (0.10)	0.10
Chloride (as N)	0.10	0.10	0.10	0.10 (0.10)	0.10
Chloride	7.0	7.0	7.0	7.0 (7.0)	7.0
Chloride	3.0	3.0	3.0	3.0 (3.0)	3.0
Total organic carbon (TOC)	1.5	1.8	1.6	1.7 (1.8)	2.3

WW 64	10/28/2014	31/01/2015	10/20/2016	10/10/2017	10/20/2018
	3d	3d	3d	3d	3d
TPH(mg/L)					
Dissolved oxygen (DO), field	0.3	0.12	3.09	1.00	0.01
Ferrous iron	0	0.5	-	0.5	2
Oxidation reduction potential (ORP), field	4	-28.3	217.0	8	85.2
pH, field	8.12	7.07	7.19	7.51	7.66
Gas					
Ethane	0.00005	0.000313	0.000233	0.00005	0.001
Ethene	0.000635	0.00077	0.000773	0.00028	0.001
Hydrogen	0.002	0.00079	0.000939	0.0043	0.000202
Alkalinity					
Alkalinity, bicarbonate	280.8	310	190	270	270
Alkalinity, carbonate	5.01	5.01	5.01	5.01	5.01
Chloride	48	52	36	48	424.8
Dissolved organic carbon (DOC)	1.2	1.7	3.4	2.0	1.28
Hardness (as CaCO_3)	280.8	310	190	270	270
Nitrite (as N)	0.10 μM	0.10 μM	0.13	0.10 μM	0.10 μM
Nitrate (as N)	0.10 μM	0.10 μM	0.10 μM	0.10 μM	0.10 μM
Sulfate	81	75	82	79	70
Total dissolved solids (TDS)	310	310	310	310	310
Total organic carbon (TOC)	1.0	1.5	3.2	1.9	1.3072

66	10/20/2014	10/27/2014	11/13/2015	10/20/2016	10/31/2017	10/30/2018
	3d	3d	3d	3d	3d	3d
NOAA						
dissolved oxygen (DO), field	0.14	-	0.05	0.00	0.07	0.00
iron (Fe), field	0.5	0	0	0	1	1
total organic carbon (TOC), field	0.59	-	51.4	66.0	52	-2
total organic carbon (TOC), field	6.3	7.1	7.4	7.5	7.49	7.2
ammonia	-	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
nitrate	-	0.0004 U	0.00034 U	0.0005 U	0.0005 U	0.0005 U
phosphate	-	0.0004	0.0048	0.0025	0.0005	0.005
silica	-	5.0	330	300	250	25
silica, carbonate	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
nitrite	-	35	47	46	47	46
dissolved organic carbon (DOC)	-	1.2	1.4	1.2	1.1	2
total organic carbon (TOC)	-	400	380	380	380	380
total organic carbon (TOC) (as %)	-	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
total organic carbon (TOC) (as %)	-	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
total organic carbon (TOC) (as %)	-	61	69	71	69	69
total organic carbon (TOC) (as %)	-	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
total organic carbon (TOC) (as %)	-	1.1	1.4	1.1	1.1	2

MW 58	10/20/2014	10/20/2015	10/25/2016	10/17/2017	10/17/2018
	3d	3d	3d	3d	3d
FFRAM					
Dissolved oxygen (DO), field	0.27	0.12	0.00	0.20	
Ferrous iron	0.5	1.0	-	3	
Chemical reduction potential (CRP), field	240	-38.0	0.0	-398	
pH	8.53	6.92	6.85	7.4	
Ethane	0.0062	0.005805000000000000	0.002929	0.002994	
Ethene	0.0007200000000000000	0.0000720000000000000	0.000051	0.0004414	
Methane	0.0018	0.01010900000000000	0.0067	0.0082	
West					
Alkalinity, bicarbonate	330	440.440	390	390	
Alkalinity, carbonate	5.0 U	5.0 U5.0 U	5.0 U	5.0 U	
Chloride	50	4342	35	31	
Dissolved organic carbon (DOC)	1.7	1.778	2.1	2.1	
Hardness	420	530.650	520	470	
Nitrate (as N)	0.10 U	0.10 U10.10 U	0.036	0.10 U	0.0
Nitrite (as N)	0.10 U	0.10 U10.10 U	0.10 U	0.10 U	0.0
Nitrogen	59	110.110			
Sulfide	3.0	3.0 U0.0 U	3.0 U	3.0 U	
Total organic carbon (TOC)	1.7	2.322	2.2	2.1	

Parameter	10/29/2014 SE	10/15/2015 SE	10/27/2016 SE	10/17/2017 SE	10/08/2018 SE
FFARAR					
Dissolved oxygen (DO), field	0.17	0.37	0.00	0.09	0.03
DO saturation	2.2	2.5	2.2	2.2	2.2
Oxidation reduction potential (ORP), field	-110	-71.8	-80.0	-85	-173.2
pH, field	9.51	7.00	6.92	7.27	7.14
Ammonia	0.0044	0.0018	0.00079	0.00084	0.0011
Ethane	0.0011	0.0061	0.0043	0.0026	0.003
Methane	0.0023	0.02	0.011	0.016	0.05
Water					
Alkalinity, bicarbonate	340	440	340	340	320
Alkalinity, carbonate	6.0	5.0	5.0	5.0	5.0
Chloride	150	120	120	93	77
Dissolved organic carbon (DOC)	1.5	1.8	1.8	1.6	1.8
Hardness	460	430	430	430	430
Nitrate (as N)	0.10	0.10	0.10	0.10	0.10
Nitrite (as N)	0.10	0.10	0.10	0.10	0.10
Sulfide	74	74	69	70	62
Sulfate	3.0	3.0	3.0	3.0	3.0
Total organic carbon (TOC)	1.4	1.8	1.5	1.6	2.7

LEGEND

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

0 100 300'

		SAMPLE LOCATION
PW-4	10042015	SAMPLE DATE
	3F	GEOLOGIC UNIT
PARAMETER		WS - SURFACE WATER
Dissolved oxygen (DO), field	0.00	1 - UNIT 1 PERCHED GROUNDWATER IN UPPERMOST AQUIFER
Ferrous iron (Fe ²⁺), field	6.90	2S - UNIT 3 SHALLOW GROUNDWATER IN UPPERMOST AQUIFER
Oxidation reduction potential (ORP), field	-52.0	3 - UNIT 3 INTERMEDIATE GROUNDWATER IN UPPERMOST AQUIFER
pH	8.20	3D - UNIT 3 DEEP GROUNDWATER IN UPPERMOST AQUIFER
Chloride	0.0061	B - BEDROCK GROUNDWATER IN BEDROCK AQUIFER
Nitrate	0.010	
Arsenic	0.0007	
Alkalinity, bicarbonate	350	
Alkalinity, carbonate	50.0	
Calcium	56	
Dissolved organic carbon (DOC)	1.6	
Total hardness	480	
Ammonia nitrogen (as N)	0.010	
Nitrite (as N)	0.010	
Nitrogen	72	
Sulfate	30.0	
Sulfide	0.010	
		CONCENTRATION (mg/L)

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 46013
REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

2018 ANNUAL MONITORING REPORT

GROUNDWATER RESULTS

MNA PARAMETERS (2014 - 2018)



Source Reference:

Project Manager:

Reviewed By:

Date: DECEMBER 2018

Scale:

Project №:

Report №:

rawing №:

I:\DRAWINGS\17000s\017302\017302-REPORT\017302-T07(057)\017302-T07(057)GN\017302-T07(057)GN-SC012.DWG Plot Date: JAN 24, 2015

Tables

Table 1

**Site-Wide Groundwater Monitoring Program
2018 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
2018 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
2018 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
MW 98-18	B	1761478.34	319419.65	864.52		816.52	806.52
MW 99-18	B	1761544.64	320973.65	864.84		829.84	819.84
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

NA - Not Applicable

Table 3

Groundwater Elevation Data 2018
2018 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Monitoring Well Location	Hydro-Geologic Unit	Riser Elevation (f NAVD 88)	3-Oct-17		9-Apr-18		1-Oct-18		13-Dec-18	
			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)	Depth to Water (f btor)	Groundwater Elevation (f NAVD 88)
MW2 R	3s	879.25	-	-	-	-	-	-	-	-
MW 3	3s	880.41	17.70	862.71	14.19	866.22	17.08	863.33	-	-
MW 5	3s	880.54	17.67	862.87	-	-	17.01	863.53	-	-
MW 6	3s	878.22	14.81	863.41	-	-	13.86	864.36	-	-
MW 7	3d	878.18	14.79	863.39	-	-	13.88	864.30	-	-
MW 8	3s	878.41	15.26	863.15	11.00	867.41	14.47	863.94	-	-
MW 12	3i	882.78	19.48	863.30	16.21	866.57	18.98	863.80	-	-
MW 13	3s	881.25	-	-	-	-	18.14	863.11	-	-
MW 14	3s	881.36	18.78	862.58	15.62	865.74	18.25	863.11	-	-
MW 15	3s	879.67	17.10	862.57	13.68	865.99	16.48	863.19	-	-
MW 16	3s	879.83	16.70	863.13	13.88	865.95	16.02	863.81	-	-
MW 17	3s	879.86	16.72	863.14	-	-	16.13	863.73	-	-
MW 18	3s	881.08	21.92	859.16	-	-	18.38	862.70	-	-
MW 19	3s	880.75	5.08	875.67	-	-	2.77	877.98	-	-
MW 21	3s	878.74	15.15	863.59	9.66	869.08	14.08	864.66	-	-
MW 22	3s	879.11	15.47	863.64	-	-	14.45	864.66	-	-
MW 26	3d	883.09	25.75	857.34	-	-	25.52	857.57	-	-
MW 27	1	883.04	23.02	860.02	-	-	22.74	860.30	-	-
MW 28	3d	877.44	19.80	857.64	18.42	859.02	19.46	857.98	-	-
MW 29	3s	877.53	14.48	863.05	13.60	863.93	14.52	863.01	-	-
MW 31R	1	879.71	8.46	871.25	6.47	873.24	7.50	872.21	-	-
MW 36	3d	870.09	10.72	859.37	-	-	10.53	859.56	-	-
MW 37	3s	869.95	8.61	861.34	6.14	863.81	7.92	862.03	-	-
MW 39	3d	879.51	21.55	857.96	-	-	21.21	858.30	-	-
MW 40	3s	879.51	21.55	857.96	20.17	859.34	21.22	858.29	-	-
MW 41	3d	878.26	25.12	853.14	19.18	859.08	20.23	858.03	-	-
MW 42	3s	878.19	25.18	853.01	18.94	859.25	19.99	858.20	-	-
MW 45	3d	873.72	14.59	859.13	-	-	14.18	859.54	-	-
MW 46	3s	873.64	10.67	862.97	7.79	865.85	10.08	863.56	-	-
MW 47	3s	880.27	17.60	862.67	-	-	16.72	863.55	-	-
MW 48	3d	877.96	-	-	11.76	866.20	-	-	-	-
MW 49	3s	877.93	-	-	11.46	866.47	14.55	863.38	-	-
MW 50	3d	878.27	16.65	861.62	-	-	16.44	861.83	-	-
MW 51	3s	878.19	16.29	861.90	14.71	863.48	16.02	862.17	-	-
MW 56	3d	859.32	2.27	857.05	1.68	857.64	2.03	857.29	-	-
MW 57	3d	862.52	5.63	856.89	5.03	857.49	5.39	857.13	-	-
MW 58	3d	861.46	4.65	856.81	4.12	857.34	4.42	857.04	-	-
MW 59	3s	882.00	18.68	863.32	17.01	864.99	18.45	863.55	-	-
MW 60	3s	881.77	19.91	861.86	-	-	19.50	862.27	-	-
MW 61	3d	876.57	19.25	857.32	17.94	858.63	18.92	857.65	-	-
MW 62	B	876.70	18.57	858.13	-	-	18.31	858.39	18.17	858.53
MW 63	3s	876.53	17.86	858.67	-	-	17.46	859.07	-	-
MW 64	3d	863.97	7.50	856.47	6.02	857.95	6.70	857.27	-	-
MW 65	3d	864.22	7.03	857.19	5.96	858.26	6.71	857.51	-	-
MW 66	3d	861.67	4.74	856.93	3.85	857.82	4.42	857.25	-	-
MW 67	3d	877.03	19.05	857.98	-	-	18.70	858.33	-	-
MW 68	3s	876.98	18.80	858.18	17.31	859.67	18.47	858.51	-	-
MW 74	B	881.10	16.99	864.11	-	-	16.02	865.08	15.40	865.70
MW 75	3d	882.23	22.00	860.23	20.70	861.53	21.79	860.44	-	-
MW 76R-17	3s	882.54	21.95	860.59	20.64	861.90	22.24	860.30	-	-
MW 77	B	862.77	6.02	856.75	-	-	5.78	856.99	-	-
MW 79	3s	881.92	20.83	861.09	17.01	864.91	19.32	862.60	-	-
MW 80	3d	865.49	8.44	857.05	7.27	858.22	8.09	857.40	-	-
MW 81	B	864.38	7.25	857.13	6.21	858.17	6.97	857.41	6.80	857.58
MW 82	B	879.70	16.38	863.32	12.64	867.06	15.61	864.09	15.11	864.59
MW 83	B	876.23	18.90	857.33	17.91	858.32	-	-	18.46	857.77
MW 84	3s	881.95	18.94	863.01	16.73	865.22	18.48	863.47	-	-
MW 85	3d	866.11	9.20	856.91	8.56	857.55	8.95	857.16	-	-
MW 86	3d	859.12	3.50	855.62	2.19	856.93	3.08	856.04	-	-
MW 87	3d	861.51	2.50	859.01	-	-	1.82	859.69	-	-
MW 88	3d	859.59	3.27	856.32	2.03	857.56	2.91	856.68	-	-
MW 89-11	3s	875.39	13.15	862.24	9.68	865.71	12.58	862.81	-	-
MW 90-12	1	884.31	9.98	874.33	-	-	7.88	876.43	-	-
MW91-12	1	884.50	9.78	874.72	-	-	7.18	877.32	-	-
MW 92-13	3s	884.31	22.67	861.64	-	-	22.38	861.93	-	-
MW 93-13	3s	880.71	22.55	858.16	-	-	22.19	858.52	-	-
MW 94-13	3s	880.77	22.64	858.13	-	-	22.27	858.50	-	-
MW 95-13	3s	884.13	21.63	862.50	-	-	21.17	862.96	-	-

Table 3

Groundwater Elevation Data 2018
2018 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Monitoring Well Location	Hydro-Geologic Unit	Riser Elevation (f NAVD 88)	3-Oct-17		9-Apr-18		1-Oct-18		13-Dec-18	
			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)	Depth to Water (f btor)	Groundwater Elevation (f NAVD 88)
MW 96-13	3s	884.18	20.93	863.25	-	-	20.54	863.64	-	-
MW 97R-16	3d	864.87	8.14	856.73	7.59	857.28	7.92	856.95	-	-
MW 98-18	B	864.52	-	-	-	-	-	-	6.73	857.79
MW 99-18	B	864.84	-	-	-	-	-	-	4.44	860.40
Meadowbrook Golf Course Wells										
MW-1	3d	859.18	1.25	857.93	-	-	1.02	858.16	-	-
MW-2	3d	860.08	3.23	856.85	2.60	857.48	3.01	857.07	-	-
MW-3	3d	862.68	3.14	859.54	-	-	2.48	860.2	-	-
MW-4	3d	861.67	4.38	857.29	3.45	858.22	4.08	857.59	-	-
MW-7	3d	869.69	10.03	859.66	8.48	861.21	9.46	860.23	-	-
Pond (North)	Surface Water	857.79	1.20	856.59	0.70	857.09	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
2018 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

<i>Sample Location</i>	<i>Sample Identification</i>	<i>Sample Date</i>	<i>Time</i>	<i>Matrix</i>	<i>Sample Type</i>	<i>Parent Sample</i>	<i>TCL VOCs</i>	<i>MNA Parameters</i>
MW-2	GW-100818-BE-034	10/08/18	11:11	GW	N	--	X	X
MW 3	GW-041118-BE-007	04/11/18	9:58	GW	N	--	X	
MW 3	GW-100318-AF-010	10/03/18	10:30	GW	N	--	X	X
MW-4	GW-041118-BE-013	04/12/18	10:52	GW	N	--	X	
MW-4	GW-041118-BE-014	04/12/18	10:54	GW	FD	GW-041118-BE-013	X	
MW-4	GW-100818-BE-035	10/08/18	12:09	GW	N	--	X	X
MW-7	GW-100918-BE-041	10/09/18	12:22	GW	N	--	X	
MW-7	GW-100918-BE-042	10/09/18	12:25	GW	FD	GW-100918-BE-041	X	
MW 8	GW-041018-BE-005	04/10/18	16:03	GW	N	--	X	
MW 8	GW-100218-AF-002	10/02/18	11:40	GW	N	--	X	X
MW 12	GW-041118-BE-009	04/11/18	12:49	GW	N	--	X	
MW 12	GW-100418-BE-029	10/04/18	14:22	GW	N	--	X	
MW 14	GW-041018-BE-004	04/10/18	15:02	GW	N	--	X	
MW 14	GW-100318-AF-014	10/03/18	14:37	GW	N	--	X	
MW 15	GW-100218-AF-008	10/02/18	16:00	GW	N	--	X	X
MW 16	GW-100318-AF-016	10/03/18	15:37	GW	N	--	X	
MW 21	GW-100318-AF-012	10/03/18	13:00	GW	N	--	X	X
MW 28	GW-041118-BE-016	04/12/18	14:50	GW	N	--	X	
MW 28	GW-100418-AF-020	10/04/18	12:10	GW	N	--	X	
MW 28	GW-100418-AF-022	10/04/18	12:13	GW	FD	GW-100418-AF-020	X	
MW 31R	GW-041018-BE-006	04/10/18	17:04	GW	N	--	X	
MW 31R	GW-100218-AF-004	10/02/18	13:40	GW	N	--	X	X
MW 31R	GW-100218-AF-006	10/02/18	13:45	GW	FD	GW-100218-AF-004	X	X
MW 37	GW-100518-BE-033	10/05/18	9:31	GW	N	--	X	
MW 40	GW-041118-BE-017	04/13/18	11:27	GW	N	--	X	
MW 40	GW-100318-BE-013	10/03/18	11:26	GW	N	--	X	X
MW 41	GW-041118-BE-018	04/13/18	12:28	GW	N	--	X	
MW 41	GW-100418-AF-024	10/04/18	14:03	GW	N	--	X	
MW 42	GW-041118-BE-019	04/13/18	13:19	GW	N	--	X	
MW 42	GW-100418-AF-026	10/04/18	14:44	GW	N	--	X	
MW 46	GW-100518-AF-030	10/05/18	9:31	GW	N	--	X	
MW 49	GW-041118-BE-010	04/11/18	14:42	GW	N	--	X	
MW 49	GW-100318-BE-011	10/03/18	10:18	GW	N	--	X	X
MW 51	GW-041018-BE-001	04/10/18	11:30	GW	N	--	X	
MW 51	GW-041018-BE-002	04/10/18	11:32	GW	FD	GW-041018-BE-001	X	
MW 51	GW-100418-BE-031	10/04/18	15:37	GW	N	--	X	
MW 56	GW-100518-AF-032	10/05/18	11:03	GW	N	--	X	
MW 57	GW-100818-BE-037	10/08/18	13:59	GW	N	--	X	X
MW 58	GW-100818-BE-036	10/08/18	13:00	GW	N	--	X	X
MW 61	GW-100418-AF-018	10/04/18	11:03	GW	N	--	X	
MW 64	GW-100318-BE-017	10/03/18	14:53	GW	N	--	X	X
MW 64	GW-100318-BE-019	10/03/18	14:56	GW	FD	GW-100318-BE-017	X	X
MW 65	GW-100418-AF-028	10/04/18	16:00	GW	N	--	X	
MW 66	GW-041118-BE-011	04/11/18	16:13	GW	N	--	X	
MW 66	GW-100318-BE-015	10/03/18	13:18	GW	N	--	X	X
MW 68	GW-041118-BE-008	04/11/18	10:58	GW	N	--	X	
MW 68	GW-100218-BE-005	10/02/18	13:40	GW	N	--	X	X
MW 75	GW-100218-BE-003	10/02/18	12:30	GW	N	--	X	
MW 76R-16	GW-100218-BE-001	10/02/18	11:08	GW	N	--	X	
MW 79	GW-041018-BE-003	04/10/18	13:28	GW	N	--	X	
MW 79	GW-100218-BE-007	10/02/18	14:57	GW	N	--	X	X
MW 80	GW-100218-BE-009	10/02/18	16:47	GW	N	--	X	
MW 81	GW-100918-AF-043	10/09/18	15:20	GW	N	--	X	
MW 82	GW-101018-AF-048	10/10/18	15:27	GW	N	--	X	
MW 82	GW-101018-AF-049	10/10/18	15:30	GW	FD	GW-101018-AF-048	X	
MW 83	GW-121318-BE-001	12/13/18	12:53	GW	N	--	X	
MW 84	GW-100418-BE-027	10/04/18	12:18	GW	N	--	X	
MW 85	GW-041118-BE-015	04/12/18	12:36	GW	N	--	X	
MW 85	GW-100818-BE-038	10/08/18	15:20	GW	N	--	X	X
MW 86	GW-100418-BE-025	10/04/18	11:22	GW	N	--	X	
MW 88	GW-100418-BE-021	10/04/18	10:33	GW	N	--	X	
MW 88	GW-100418-BE-023	10/04/18	10:38	GW	FD	GW-100418-BE-021	X	
MW 89-11	GW-041118-BE-012	04/11/18	17:35	GW	N	--	X	
MW 89-11	GW-100818-BE-039	10/08/18	17:08	GW	N	--	X	X

Table 4

Sample Key
2018 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

<i>Sample Location</i>	<i>Sample Identification</i>	<i>Sample Date</i>	<i>Time</i>	<i>Matrix</i>	<i>Sample Type</i>	<i>Parent Sample</i>	<i>TCL VOCs</i>	<i>MNA Parameters</i>
MW 97R-16	GW-100918-BE-040	10/09/18	10:10	GW	N	--	X	
Pond (Intake)	SW-040918-BE-001	04/09/18	15:46	SW	N	--	X	
Pond (Intake)	SW-070518-BE-002	07/05/18	10:05	SW	N	--	X	
Pond (Intake)	SW-070518-BE-003	07/05/18	10:12	SW	FD	SW-070518-BE-002	X	
Pond (Intake)	SW-100918-BE-001	10/09/18	10:40	SW	N	--	X	
Pond (North)	SW-040918-BE-002	04/09/18	16:20	SW	N	--	X	
Pond (North)	SW-040918-BE-003	04/09/18	16:22	SW	FD	SW-040918-BE-002	X	
Pond (North)	SW-070518-BE-001	07/05/18	9:40	SW	N	--	X	
Pond (North)	SW-100918-BE-002	10/09/18	10:50	SW	N	--	X	
Pond (North)	SW-100918-BE-003	10/09/18	10:55	SW	FD	SW-100918-BE-002	X	
Equipment Blank	EB-041018-BE-001	04/10/18	11:48	EB	EB	--	X	
Equipment Blank	EB-041118-BE-002	04/11/18	12:56	EB	EB	--	X	
Equipment Blank	EB-041318-BE-003	04/13/18	13:36	EB	EB	--	X	
Equipment Blank	EB-100318-BE-001	10/03/18	16:15	EB	EB	--	X	
Equipment Blank	EB-100418-AF-002	10/04/18	11:17	EB	EB	--	X	
Equipment Blank	EB-100818-AF-003	10/08/18	15:30	EB	EB	--	X	
Equipment Blank	EB-100918-AF-004	10/09/18	14:15	EB	EB	--	X	
Trip Blank	TB-041218-BE-001	04/12/18	15:15	TB	TB	--	X	
Trip Blank	TB-041318-BE-002	04/13/18	14:10	TB	TB	--	X	
Trip Blank	TB-070518-BE-001	07/05/18	10:35	TB	TB	--	X	
Trip Blank	TB-100218-BE-001	10/02/18	17:07	TB	TB	--	X	
Trip Blank	TB-100218-AF-002	10/02/18	19:00	TB	TB	--	X	
Trip Blank	TB-100318-AF-003	10/03/18	16:30	TB	TB	--	X	
Trip Blank	TB-100818-AF-004	10/08/18	17:30	TB	TB	--	X	
Trip Blank	TB-100918-BE-005	10/09/18	15:07	TB	TB	--	X	
Trip Blank	Trip Blank	12/13/18	--	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

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, October and December 2018
2018 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

<i>Location</i>	<i>Date</i>	<i>Time (24 hr)</i>	<i>Temperature (°C)</i>	<i>Conductivity (mS/cm)</i>	<i>DO mg/L</i>	<i>Turbidity (NTU)</i>	<i>pH (s.u.)</i>	<i>ORP (mV)</i>
MW-2	10/8/2018	10:40	--	--	--	--	--	--
		10:55	21.97	1.030	0.09	2.4	6.91	-171
		11:00	22.62	1.040	0.10	1.2	6.90	-165
		11:05	22.40	1.040	0.10	1.1	6.91	-162
		11:10	22.22	1.040	0.08	1.5	6.91	-158
MW 3	4/11/2018	8:45	--	--	--	--	--	--
		9:05	10.77	0.710	0.22	14.8	7.17	18
		9:10	11.56	0.690	0.11	6.6	7.18	20
		9:15	11.47	0.690	0.10	1.5	7.18	22
		9:20	11.38	0.690	0.06	0.9	7.19	25
		9:25	11.14	0.690	0.08	0.7	7.20	26
		9:30	11.01	0.690	0.11	1.1	7.20	30
		9:35	11.57	0.700	0.07	1.0	7.19	29
		9:40	11.66	0.690	0.02	0.6	7.19	30
		9:45	11.75	0.690	0.04	0.6	7.19	32
		9:50	11.68	0.690	0.04	0.7	7.19	33
		9:55	11.59	0.690	0.03	0.5	7.19	34
MW 3	10/3/2018	9:35	--	--	--	--	--	--
		9:50	15.41	0.760	0.24	2.0	7.19	237
		9:55	15.41	0.760	0.22	1.9	7.19	239
		10:00	15.39	0.760	0.22	1.9	7.19	235
MW-4	4/12/2018	10:00	--	--	--	--	--	--
		10:15	11.88	1.010	0.10	10.4	7.16	-154
		10:20	12.05	1.000	0.08	6.9	7.16	-144
		10:25	11.99	1.000	0.07	5.2	7.16	-136
		10:30	12.12	0.990	0.06	4.3	7.15	-124
		10:35	12.61	0.990	0.09	3.3	7.15	-119
		10:40	12.58	0.990	0.07	3.0	7.15	-113
		10:45	12.40	0.980	0.06	2.6	7.15	-107
		10:50	12.48	0.990	0.05	3.4	7.15	-102
MW-4	10/8/2018	11:42	--	--	--	--	--	--
		11:57	17.99	0.930	0.04	3.2	7.20	-209
		12:02	18.08	0.930	0.04	2.8	7.18	-207
		12:07	18.11	0.920	0.03	1.8	7.17	-206
MW-7	10/9/2018	11:10	--	--	--	--	--	--
		11:30	18.26	1.500	1.06	473.0	6.97	-132
		11:40	18.27	1.530	0.76	109.0	6.98	-131
		11:50	18.44	1.540	0.62	46.6	6.98	-132
		12:00	18.43	1.540	0.42	22.7	6.98	-133
		12:05	18.57	1.550	0.32	17.7	6.98	-134
		12:10	18.52	1.550	0.26	13.8	6.98	-135
		12:15	18.49	1.550	0.22	10.4	6.99	-135
		12:20	18.49	1.550	0.20	9.8	6.99	-135
MW 8	4/10/2018	15:30	--	--	--	--	--	--
		15:45	10.99	1.110	0.12	5.0	7.36	-140
		15:50	11.11	1.100	0.09	3.4	7.36	-134
		15:55	11.10	1.090	0.08	3.3	7.36	-131
		16:00	11.11	1.090	0.09	6.3	7.36	-127
MW 8	10/2/2018	11:05	--	--	--	--	--	--
		11:20	14.31	1.200	-0.01	4.6	7.23	-152
		11:25	14.26	1.180	-0.01	5.8	7.23	-153
		11:30	14.22	1.180	-0.01	4.5	7.24	-152
MW 12	4/11/2018	11:32	--	--	--	--	--	--
		11:47	15.60	0.840	0.24	22.8	7.11	-38
		11:57	14.76	0.870	0.17	19.4	7.12	-39
		12:07	15.30	0.870	0.15	19.8	7.13	-44
		12:17	15.03	0.870	0.06	11.0	7.13	-45
		12:27	15.17	0.850	0.07	6.5	7.13	-46
		12:32	15.03	0.860	0.04	4.0	7.13	-48
		12:37	15.16	0.860	0.01	6.1	7.13	-48
		12:42	15.20	0.860	0.01	3.1	7.13	-48

Table 5

Well Stabilization Parameters - April, October and December 2018
2018 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

<i>Location</i>	<i>Date</i>	<i>Time (24 hr)</i>	<i>Temperature (°C)</i>	<i>Conductivity (mS/cm)</i>	<i>DO mg/L</i>	<i>Turbidity (NTU)</i>	<i>pH (s.u.)</i>	<i>ORP (mV)</i>
MW-12	10/4/2018	13:33	--	--	--	--	--	--
		13:48	18.87	0.910	0.15	23.1	6.98	-72
		13:53	18.03	0.910	0.10	19.1	6.98	-67
		14:03	18.39	0.910	0.09	10.0	6.98	-65
		14:08	18.43	0.920	0.10	8.5	6.97	-63
		14:13	17.57	0.900	0.05	6.5	6.98	-58
		14:18	17.72	0.920	0.07	5.9	6.97	-60
MW 14	4/10/2018	14:15	--	--	--	--	--	--
		14:30	11.88	0.850	0.20	7.8	7.39	-96
		14:35	12.22	0.840	0.11	2.8	7.39	-93
		14:40	12.31	0.830	0.10	2.3	7.39	-95
		14:45	12.40	0.830	0.09	2.5	7.38	-87
		14:50	12.39	0.850	0.07	2.5	7.39	-81
		14:55	12.35	0.860	0.07	2.2	7.39	-78
MW 14	10/3/2018	15:00	12.39	0.860	0.06	1.8	7.39	-76
		14:07	--	--	--	--	--	--
		14:22	17.01	0.880	0.12	12.9	7.20	-156
		14:27	17.26	0.890	0.10	4.9	7.19	-155
		14:32	16.96	0.880	0.08	3.6	7.20	-153
		15:15	--	--	--	--	--	--
		15:30	14.90	0.780	0.05	13.0	7.27	-138
MW 15	10/2/2018	15:35	15.30	0.770	0.07	9.1	7.27	-133
		15:40	15.72	0.780	0.05	7.0	7.25	-130
		15:45	15.35	0.780	0.05	7.6	7.27	-125
		15:09	--	--	--	--	--	--
MW 16	10/3/2018	15:24	14.47	0.960	0.00	4.5	7.43	-87
		15:29	14.31	0.960	0.00	3.0	7.42	-78
		15:34	14.29	0.960	-0.01	2.0	7.41	-74
		12:23	--	--	--	--	--	--
MW 21	10/3/2018	12:38	13.22	0.800	0.02	13.7	7.40	-203
		12:43	13.17	0.800	0.01	9.8	7.36	-202
		12:48	13.16	0.800	0.00	8.4	7.34	-200
		13:45	--	--	--	--	--	--
MW 28	4/12/2018	14:00	18.38	0.940	0.25	47.0	6.89	-269
		14:15	17.67	1.030	0.12	13.0	7.08	-242
		14:20	17.72	1.040	0.10	12.6	7.08	-237
		14:25	17.92	1.030	0.08	24.5	7.08	-232
		14:30	17.81	1.030	0.07	8.2	7.09	-221
		14:35	17.65	1.040	0.06	6.5	7.09	-212
		14:40	17.90	1.040	0.06	4.2	7.09	-209
		11:33	--	--	--	--	--	--
MW 28	10/4/2018	11:48	16.23	1.010	0.07	21.9	7.18	-202
		11:53	16.16	1.020	0.05	17.9	7.15	-202
		11:58	16.21	1.020	0.04	19.2	7.13	-202
		12:03	16.29	1.020	0.05	22.8	7.12	-201
		12:08	16.56	1.020	0.06	27.0	7.11	-199
		16:20	--	--	--	--	--	--
MW 31R	4/10/2018	16:40	9.29	1.090	0.28	13.4	7.47	-134
		16:45	9.35	1.090	0.22	5.0	7.47	-132
		16:50	9.18	1.090	0.18	4.8	7.47	-130
		16:55	9.09	1.090	0.15	4.3	7.48	-129
		17:00	9.04	1.090	0.13	5.2	7.47	-129

Table 5

Well Stabilization Parameters - April, October and December 2018
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<i>Location</i>	<i>Date</i>	<i>Time (24 hr)</i>	<i>Temperature (°C)</i>	<i>Conductivity (mS/cm)</i>	<i>DO mg/L</i>	<i>Turbidity (NTU)</i>	<i>pH (s.u.)</i>	<i>ORP (mV)</i>
MW 31R	10/2/2018	12:55	--	--	--	--	--	--
		13:10	17.38	1.370	0.00	6.2	7.13	-166
		13:15	17.36	1.370	0.00	7.1	7.12	-174
		13:20	17.37	1.370	-0.01	5.3	7.11	-177
MW 37	10/5/2018	8:53	--	--	--	--	--	--
		9:08	17.41	0.890	0.08	17.9	6.83	-51
		9:18	17.39	0.900	0.13	10.5	6.82	-37
		9:23	17.37	0.910	0.14	5.4	6.81	-29
		9:28	17.35	0.910	0.14	5.2	6.81	-26
MW 40	4/13/2018	9:35	--	--	--	--	--	--
		9:50	15.88	0.950	0.11	227.0	7.12	-106
		10:05	15.80	0.930	0.05	106.0	7.13	-80
		10:20	16.08	0.930	0.05	73.3	7.13	-70
		10:35	15.96	0.950	0.04	28.9	7.13	-62
		10:45	16.02	0.950	0.04	24.1	7.13	-60
		10:55	16.16	0.950	0.05	19.3	7.13	-58
		11:05	16.11	0.940	0.04	16.1	7.13	-56
		11:15	16.19	0.940	0.04	13.8	7.13	-51
		11:20	16.15	0.930	0.04	11.8	7.13	-50
MW 40	10/3/2018	10:56	--	--	--	--	--	--
		11:11	16.55	0.870	0.04	5.3	7.29	-61
		11:16	16.22	0.860	0.02	3.6	7.29	-56
		11:21	16.18	0.860	0.02	2.2	7.29	-54
MW 41	4/13/2018	11:50	--	--	--	--	--	--
		12:05	16.02	1.060	0.09	41.5	7.10	-68
		12:15	15.94	1.060	0.05	6.6	7.10	-63
		12:20	15.93	1.060	0.04	4.3	7.10	-63
		12:25	15.91	1.060	0.04	3.6	7.10	-64
MW 41	10/4/2018	13:35	--	--	--	--	--	--
		13:50	16.38	1.040	0.05	2.8	7.10	-142
		13:55	16.38	1.040	0.04	1.3	7.10	-144
		14:00	16.32	1.040	0.04	1.2	7.10	-145
MW 42	4/13/2018	12:35	--	--	--	--	--	--
		12:50	15.57	1.040	0.05	14.7	7.10	-174
		13:00	15.66	1.030	0.04	4.9	7.10	-163
		13:05	15.80	1.020	0.04	5.2	7.09	-159
		13:10	15.87	1.020	0.03	5.7	7.09	-150
		13:15	15.91	1.020	0.04	4.7	7.09	-154
MW 42	10/4/2018	14:11	--	--	--	--	--	--
		14:26	16.43	1.070	0.12	14.6	7.09	-140
		14:31	16.47	1.070	0.11	11.6	7.08	-139
		14:36	16.50	1.060	0.08	7.5	7.08	-138
		14:41	16.38	1.060	0.06	5.3	7.08	-137
MW 46	10/5/2018	9:03	--	--	--	--	--	--
		9:18	15.21	0.850	0.09	4.3	7.05	-45
		9:23	15.18	0.850	0.08	2.7	7.04	-42
		9:28	15.16	0.870	0.09	2.0	7.03	-40
MW 49	4/11/2018	13:50	--	--	--	--	--	--
		14:10	14.81	0.810	0.13	70.0	7.10	50
		14:23	14.14	0.800	0.04	14.7	7.10	54
		14:28	14.10	0.800	0.04	8.3	7.10	57
		14:33	14.22	0.790	0.03	5.0	7.10	55
		14:38	14.22	0.790	0.03	3.4	7.10	57
MW 49	10/4/2018	9:37	--	--	--	--	--	--
		9:52	14.50	0.870	0.01	48.9	7.25	121
		10:02	14.31	0.860	-0.01	14.6	7.25	113
		10:07	14.53	0.860	-0.01	10.7	7.25	109
		10:12	14.53	0.860	-0.01	8.0	7.25	100

Table 5

Well Stabilization Parameters - April, October and December 2018
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<i>Location</i>	<i>Date</i>	<i>Time (24 hr)</i>	<i>Temperature (°C)</i>	<i>Conductivity (mS/cm)</i>	<i>DO mg/L</i>	<i>Turbidity (NTU)</i>	<i>pH (s.u.)</i>	<i>ORP (mV)</i>
MW 51	4/10/2018	10:12	--	--	--	--	--	--
		10:27	12.77	0.753	0.15	28.7	7.50	-61
		10:32	13.08	0.809	0.08	20.8	7.47	-43
		10:37	12.76	0.814	0.54	14.7	7.48	-33
		10:42	13.08	0.822	0.44	12.8	7.48	-30
		10:47	13.06	0.845	0.37	6.7	7.46	-15
		10:52	13.13	0.849	0.35	4.4	7.46	-11
		10:57	13.19	0.850	0.32	3.5	7.45	-4
		11:02	13.13	0.850	0.28	2.5	7.45	0
		11:07	13.31	0.852	0.26	2.6	7.45	4
		11:12	13.31	0.852	0.20	2.0	7.46	7
		11:17	13.41	0.859	0.16	1.5	7.45	12
		11:22	13.45	0.859	0.15	1.2	7.45	15
		11:27	13.43	0.859	0.14	0.7	7.44	16
MW 51	10/4/2018	15:03	--	--	--	--	--	--
		15:18	15.39	0.930	0.03	7.0	7.04	-41
		15:23	15.39	0.930	0.03	2.5	7.03	-28
		15:28	15.57	0.930	0.02	1.5	7.03	-10
		15:33	15.61	0.930	0.01	1.6	7.03	1
MW 56	10/5/2018	10:21	--	--	--	--	--	--
		10:36	16.32	0.870	0.07	99.6	6.96	-149
		10:46	15.15	0.870	-0.01	42.0	6.99	-153
		10:51	15.23	0.870	-0.01	9.9	6.99	-152
		10:56	15.27	0.870	-0.01	6.4	6.99	-152
		11:01	15.26	0.870	-0.02	6.4	6.99	-152
MW 57	10/8/2018	13:30	--	--	--	--	--	--
		13:45	18.33	1.040	0.01	7.0	6.99	-161
		13:50	18.12	1.030	0.00	5.4	6.99	-164
		13:55	18.08	1.040	0.00	3.1	6.98	-162
MW 58	10/8/2018	12:32	--	--	--	--	--	--
		12:47	17.47	1.040	0.02	3.4	7.04	-132
		12:52	17.59	1.040	0.01	2.2	7.03	-131
		12:57	17.57	1.040	0.01	1.1	7.02	-131
MW 61	10/4/2018	10:19	--	--	--	--	--	--
		10:34	16.06	1.050	0.02	28.0	7.20	-259
		10:39	16.11	1.050	0.01	21.6	7.19	-255
		10:44	16.11	1.050	0.00	19.3	7.18	-253
		10:49	16.11	1.050	0.02	14.6	7.17	-249
		10:54	16.11	1.050	0.00	9.9	7.17	-248
		10:59	16.13	1.050	0.00	9.5	7.16	-245
MW 64	10/3/2018	14:07	--	--	--	--	--	--
		14:22	19.50	0.780	0.25	47.9	7.36	-130
		14:32	19.86	0.790	0.48	17.2	7.36	-93
		14:37	19.90	0.790	0.44	11.4	7.36	-88
		14:42	19.69	0.790	0.02	6.3	7.36	-85
		14:47	19.54	0.800	0.01	4.6	7.36	-85
MW 65	10/4/2018	15:25	--	--	--	--	--	--
		15:40	18.61	0.820	0.02	18.4	7.41	-233
		15:45	18.57	0.820	0.02	12.4	7.39	-234
		15:50	18.63	0.820	0.01	9.1	7.37	-232
		15:55	18.35	0.820	-0.01	4.8	7.37	-233
MW 66	4/11/2018	15:20	--	--	--	--	--	--
		15:35	12.07	0.800	0.18	9.9	7.20	-63
		15:40	11.93	0.800	0.13	6.1	7.20	-43
		15:45	12.06	0.800	0.11	5.7	7.20	-40
		15:50	12.31	0.800	0.08	5.3	7.20	-33
		15:55	12.31	0.800	0.05	3.5	7.20	-24
		16:00	12.30	0.800	0.05	3.2	7.20	-18
		16:05	12.08	0.800	0.04	3.0	7.20	-6
		16:10	12.07	0.790	0.04	2.5	7.19	-7

Table 5

Well Stabilization Parameters - April, October and December 2018
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<i>Location</i>	<i>Date</i>	<i>Time (24 hr)</i>	<i>Temperature (°C)</i>	<i>Conductivity (mS/cm)</i>	<i>DO mg/L</i>	<i>Turbidity (NTU)</i>	<i>pH (s.u.)</i>	<i>ORP (mV)</i>
MW 66	10/3/2018	12:41	--	--	--	--	--	--
		12:56	19.26	0.800	0.10	3.1	7.30	-34
		13:01	18.79	0.800	0.06	2.3	7.30	-25
		13:06	19.06	0.800	0.05	2.1	7.30	-24
		13:11	19.87	0.800	0.06	2.1	7.30	-24
		13:16	19.64	0.800	0.05		7.29	-21
MW 68	4/11/2018	10:15	--	--	--	--	--	--
		10:30	14.27	0.840	0.10	6.7	7.10	-113
		10:35	14.33	0.840	0.08	6.5	7.10	-107
		10:40	14.44	0.840	0.09	4.4	7.10	-100
		10:45	14.50	0.830	0.08	2.3	7.10	-92
		10:50	14.53	0.830	0.07	3.8	7.10	-93
		10:55	14.58	0.840	0.07	3.6	7.10	-90
MW 68	10/2/2018	13:05	--	--	--	--	--	--
		13:20	17.30	0.820	0.31	18.0	7.09	-276
		13:25	16.52	0.820	0.23	12.5	7.11	-269
		13:30	16.47	0.820	0.21	10.1	7.12	-265
		13:35	16.47	0.820	0.18	6.5	7.12	-259
MW 75	10/2/2018	11:45	--	--	--	--	--	--
		12:00	18.11	0.500	0.13	19.5	7.17	-309
		12:05	18.10	0.690	0.04	10.2	7.13	-321
		12:10	18.43	0.770	0.03	6.6	7.19	-319
		12:15	18.72	0.800	0.03	7.3	7.23	-311
		12:20	19.06	0.810	0.05	5.2	7.25	-302
		12:25	18.56	0.810	0.04	7.2	7.27	-296
MW 76R-17	10/2/2018	10:20	--	--	--	--	--	--
		10:35	17.54	0.920	0.05	17.2	7.04	12
		10:40	17.63	0.920	0.03	18.0	7.05	5
		10:45	18.03	0.930	0.04	20.1	7.05	-4
		10:55	18.03	0.930	0.02	19.4	7.06	-9
		11:00	18.03	0.930	0.02	21.4	7.06	-12
		11:05	18.10	0.930	0.02	20.5	7.07	-14
MW 79	4/10/2018	12:25	--	--	--	--	--	--
		12:40	13.27	0.871	0.18	5.5	7.34	-274
		12:45	14.13	0.866	0.13	4.7	7.37	-257
		12:50	13.44	0.862	0.11	2.7	7.37	-245
		12:55	13.23	0.861	0.09	1.5	7.36	-227
		13:00	13.45	0.856	0.08	1.0	7.36	-220
		13:05	13.09	0.852	0.09	0.9	7.36	-213
		13:10	13.40	0.845	0.08	1.1	7.36	-216
		13:15	13.42	0.835	0.07	1.4	7.36	-206
		13:20	13.44	0.859	0.05	1.0	7.36	-206
		13:25	13.48	0.856	0.04	1.0	7.35	-201
MW 79	10/2/2018	14:27	--	--	--	--	--	--
		14:42	16.60	0.860	0.21	8.9	7.13	-254
		14:47	15.71	0.850	0.12	7.2	7.13	-252
		14:52	15.39	0.860	0.07	5.9	7.13	-252
MW 80	10/2/2018	16:15	--	--	--	--	--	--
		16:30	19.37	1.070	0.01	15.7	7.11	-268
		16:35	19.36	1.060	0.02	12.4	7.11	-259
		16:40	19.50	1.060	0.02	9.7	7.11	-254
MW 81	10/9/2018	14:41	--	--	--	--	--	--
		14:56	17.94	0.880	0.05	24.5	7.42	-219
		15:01	17.83	0.910	0.07	14.2	7.38	-217
		15:06	18.12	0.910	0.06	14.4	7.35	-217
		15:11	17.59	0.900	0.04	7.6	7.35	-220
		15:16	17.81	0.910	0.04	7.9	7.32	-219

Table 5

Well Stabilization Parameters - April, October and December 2018
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<i>Location</i>	<i>Date</i>	<i>Time (24 hr)</i>	<i>Temperature (°C)</i>	<i>Conductivity (mS/cm)</i>	<i>DO mg/L</i>	<i>Turbidity (NTU)</i>	<i>pH (s.u.)</i>	<i>ORP (mV)</i>
MW 82	10/10/2018	15:00	--	--	--	--	--	--
		15:15	15.03	0.270	0.09	8.1	8.63	-224
		15:20	15.17	0.280	0.08	7.3	8.57	-229
		15:25	15.26	0.280	0.06	7.6	8.56	-239
MW 83	12/13/2018	12:25	--	--	--	--	--	--
		12:40	13.82	0.98	0.08	5.96	6.92	-134.4
		12:14	13.72	0.98	0.07	4.33	6.93	-131.2
		12:50	13.49	0.99	0.08	3.59	6.93	-125.6
MW 84	10/4/2018	11:41	--	--	--	--	--	--
		11:56	14.65	0.930	0.08	3.4	7.09	3
		12:01	14.50	0.900	0.06	2.8	7.10	-30
		12:06	14.72	0.940	0.05	0.5	7.08	15
		12:11	14.68	0.940	0.04	1.4	7.08	18
		12:16	14.78	0.940	0.04	1.0	7.08	17
MW 85	4/12/2018	11:15	--	--	--	--	--	--
		11:30	14.41	1.070	0.10	375.0	7.12	-115
		11:45	14.00	1.070	0.06	118.0	7.12	-100
		12:00	14.08	1.070	0.06	37.2	7.12	-86
		12:10	14.03	1.060	0.06	29.5	7.12	-77
		12:20	14.02	1.060	0.05	12.8	7.12	-67
		12:25	14.09	1.060	0.05	8.6	7.12	-64
		12:30	13.83	1.070	0.04	7.9	7.12	-63
MW 85	10/8/2018	14:22	--	--	--	--	--	--
		14:37	17.09	1.060	0.07	218.0	7.18	-210
		14:47	16.85	1.060	0.04	78.9	7.15	-198
		14:57	16.91	1.060	0.03	30.2	7.14	-188
		15:02	16.88	1.050	0.02	18.1	7.14	-184
		15:07	16.83	1.060	0.03	13.8	7.14	-180
		15:12	16.91	1.060	0.03	10.3	7.14	-177
		15:17	16.81	1.060	0.03	8.2	7.14	-173
MW 86	10/4/2018	10:54	--	--	--	--	--	--
		11:09	15.95	1.100	0.27	6.5	6.85	-40
		11:14	15.78	1.100	0.27	6.3	6.85	-40
		11:19	15.44	1.100	0.26	5.5	6.85	-39
MW 88	10/4/2018	9:50	--	--	--	--	--	--
		10:05	18.70	1.180	0.08	17.0	6.90	-87
		10:10	19.15	1.180	0.05	17.9	6.90	-87
		10:15	19.24	1.180	0.04	25.4	6.90	-88
		10:20	19.55	1.180	0.04	15.3	6.91	-89
		10:25	19.58	1.180	0.04	15.9	6.91	89
MW 89-11	4/11/2018	16:32	--	--	--	--	--	--
		16:47	12.86	1.160	0.28	19.3	6.88	108
		16:52	12.95	1.160	0.20	16.6	6.88	113
		16:57	12.76	1.150	0.15	15.1	6.88	116
		17:17	12.03	1.120	0.18	15.3	6.91	125
		17:22	11.98	1.110	0.18	16.5	6.91	118
		17:22	11.98	1.090	0.21	14.1	6.92	115
		17:32	12.03	1.090	0.22	10.6	6.92	114

Table 5

Well Stabilization Parameters - April, October and December 2018
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<i>Location</i>	<i>Date</i>	<i>Time (24 hr)</i>	<i>Temperature (°C)</i>	<i>Conductivity (mS/cm)</i>	<i>DO mg/L</i>	<i>Turbidity (NTU)</i>	<i>pH (s.u.)</i>	<i>ORP (mV)</i>
MW 89-11	10/8/2018	16:26	--	--	--	--	--	--
		16:41	16.60	0.980	1.03	2.2	7.00	107
		16:46	16.32	0.980	1.07	3.1	7.02	118
		16:51	16.20	0.960	1.19	3.7	7.03	164
		16:56	16.65	0.950	1.25	3.1	7.03	172
		17:01	16.74	0.950	1.26	3.3	7.02	171
		17:06	16.79	0.950	1.27	3.2	7.01	170
MW 97R-16	10/9/2018	9:22	--	--	--	--	--	--
		9:37	18.12	1.260	0.14	57.2	6.81	-101
		9:42	17.99	1.260	0.11	39.1	6.82	-100
		9:52	18.18	1.270	0.09	13.2	6.82	-99
		9:57	18.52	1.270	0.09	15.8	6.81	-98
		10:02	18.43	1.270	0.07	9.2	6.81	-98
		10:07	18.44	1.270	0.07	7.0	6.81	-98

Notes:

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

Table 6

Summary of Groundwater Analytical Data - VOCs
2018 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location:		MW-2	MW 3	MW 3	MW-4
Sample ID:		GW-100818-BE-034	GW-041118-BE-007	GW-100318-AF-010	GW-041218-BE-013
Sample Date:		10/8/2018	4/11/2018	10/3/2018	4/12/2018
Geologic Unit:		3d	3s	3s	3d
Parameters	Units				
Volatile Organic Compounds					
Acetone	mg/L	0.01 U	5 U	2.5 U	5 U
Benzene	mg/L	0.001 U	0.5 U	0.25 U	0.5 U
Bromodichloromethane	mg/L	0.001 U	0.5 U	0.25 U	0.5 U
Bromoform	mg/L	0.001 U	0.5 U	0.25 U	0.5 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.5 U	0.25 U	0.5 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.01 U	5 U	2.5 U	5 U
Carbon disulfide	mg/L	0.001 U	0.5 U	0.25 U	0.5 U
Carbon tetrachloride	mg/L	0.001 U	0.5 U	0.25 U	0.5 U
Chlorobenzene	mg/L	0.001 U	0.5 U	0.25 U	0.5 U
Chloroethane	mg/L	0.001 U	0.5 U	0.25 U	0.5 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.5 U	0.25 U	0.5 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.5 U	0.25 U	0.5 U
Dibromochloromethane	mg/L	0.001 U	0.5 U	0.25 U	0.5 U
1,1-Dichloroethane	mg/L	0.001 U	0.18 J	0.2 J	0.32 J
1,2-Dichloroethane	mg/L	0.001 U	0.5 U	0.25 U	0.5 U
1,1-Dichloroethene	mg/L	0.001 U	0.5 U	0.068 J	0.5 U
cis-1,2-Dichloroethene	mg/L	0.001 U	3.2	4.8	8.8
trans-1,2-Dichloroethene	mg/L	0.001 U	0.5 U	0.25 U	0.21 J
1,2-Dichloropropane	mg/L	0.001 U	0.5 U	0.25 U	0.5 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.5 U	0.25 U	0.5 U
trans-1,3-Dichloropropene	mg/L	0.001 U	0.5 U	0.25 U	0.5 U
Ethylbenzene	mg/L	0.001 U	0.5 U	0.25 U	0.5 U
2-Hexanone	mg/L	0.01 U	5 U	2.5 U	5 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U	5 U	2.5 U	5 U
Methylene chloride	mg/L	0.005 U	0.5 U	1.3 U	0.5 U
Styrene	mg/L	0.001 U	0.5 U	0.25 U	0.5 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.5 U	0.25 U	0.5 U
Tetrachloroethene	mg/L	0.001 U	0.5 U	0.25 U	0.5 U
Toluene	mg/L	0.001 U	0.5 U	0.25 U	0.5 U
1,1,1-Trichloroethane	mg/L	0.001 U	0.35 J	0.34	0.5 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.5 U	0.25 U	0.5 U
Trichloroethene	mg/L	0.001 U	7.8	8.5	1.3
Vinyl chloride	mg/L	0.001 U	0.5 U	0.25 U	0.68
Xylenes (total)	mg/L	0.002 U	1 U	0.5 U	1 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
2018 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location:		MW-4	MW-4	MW-7	MW-7
Sample ID:		GW-041218-BE-014	GW-100818-BE-035	GW-100918-BE-041	GW-100918-BE-042
Sample Date:		4/12/2018	10/8/2018	10/9/2018	10/9/2018
Geologic Unit:		3d	3d	3d	3d
Parameters	Units	(Duplicate)			(Duplicate)
Volatile Organic Compounds					
Acetone	mg/L	5 U	5 U	0.01 U	0.01 U
Benzene	mg/L	0.5 U	0.5 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.5 U	0.5 U	0.001 U	0.001 U
Bromoform	mg/L	0.5 U	0.5 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.5 U	0.5 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	5 U	5 U	0.01 U	0.01 U
Carbon disulfide	mg/L	0.5 U	0.5 U	0.001 U	0.001 U
Carbon tetrachloride	mg/L	0.5 U	0.5 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.5 U	0.5 U	0.001 U	0.001 U
Chloroethane	mg/L	0.5 U	0.5 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.5 U	0.5 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.5 U	0.5 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.5 U	0.5 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.29 J	0.33 J	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.5 U	0.5 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.5 U	0.5 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	8.3	8.9	0.00018 J	0.001 U
trans-1,2-Dichloroethene	mg/L	0.22 J	0.2 J	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.5 U	0.5 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.5 U	0.5 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.5 U	0.5 U	0.001 U	0.001 U
Ethylbenzene	mg/L	0.5 U	0.5 U	0.001 U	0.001 U
2-Hexanone	mg/L	5 U	5 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	5 U	5 U	0.01 U	0.01 U
Methylene chloride	mg/L	0.5 U	2.5 U	0.005 U	0.005 U
Styrene	mg/L	0.5 U	0.5 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.5 U	0.5 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	0.5 U	0.5 U	0.001 U	0.001 U
Toluene	mg/L	0.5 U	0.5 U	0.001 U	0.001 U
1,1,1-Trichloroethane	mg/L	0.5 U	0.5 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.5 U	0.5 U	0.001 U	0.001 U
Trichloroethene	mg/L	1.4	1.6	0.001 U	0.001 U
Vinyl chloride	mg/L	0.65	0.68	0.001 U	0.001 U
Xylenes (total)	mg/L	1 U	1 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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2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location:		MW 8	MW 8	MW 12	MW 12
Sample ID:		GW-041018-BE-005	GW-100218-AF-002	GW-041118-BE-009	GW-100418-BE-029
Sample Date:		4/10/2018	10/2/2018	4/11/2018	10/4/2018
Geologic Unit:		3s	3s	3i	3i
Parameters	Units				
Volatile Organic Compounds					
Acetone	mg/L	2 U	1 U	0.067 U	0.05 U
Benzene	mg/L	0.2 U	0.1 U	0.0067 U	0.005 U
Bromodichloromethane	mg/L	0.2 U	0.1 U	0.0067 U	0.005 U
Bromoform	mg/L	0.2 U	0.1 U	0.0067 U	0.005 U
Bromomethane (Methyl bromide)	mg/L	0.2 U	0.1 U	0.0067 U	0.005 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	2 U	1 U	0.067 U	0.05 U
Carbon disulfide	mg/L	0.2 U	0.1 U	0.0067 U	0.005 U
Carbon tetrachloride	mg/L	0.2 U	0.1 U	0.0067 U	0.005 U
Chlorobenzene	mg/L	0.2 U	0.1 U	0.0067 U	0.005 U
Chloroethane	mg/L	0.2 U	0.1 U	0.0067 U	0.005 U
Chloroform (Trichloromethane)	mg/L	0.2 U	0.1 U	0.0067 U	0.005 U
Chloromethane (Methyl chloride)	mg/L	0.2 U	0.1 U	0.0067 U	0.005 U
Dibromochloromethane	mg/L	0.2 U	0.1 U	0.0067 U	0.005 U
1,1-Dichloroethane	mg/L	0.2 U	0.031 J	0.0067 U	0.005 U
1,2-Dichloroethane	mg/L	0.2 U	0.1 U	0.0067 U	0.005 U
1,1-Dichloroethene	mg/L	0.2 U	0.1 U	0.0067 U	0.005 U
cis-1,2-Dichloroethene	mg/L	3.6	2.2	0.1	0.08
trans-1,2-Dichloroethene	mg/L	0.2 U	0.1 U	0.0067 U	0.005 U
1,2-Dichloropropane	mg/L	0.2 U	0.1 U	0.0067 U	0.005 U
cis-1,3-Dichloropropene	mg/L	0.2 U	0.1 U	0.0067 U	0.005 U
trans-1,3-Dichloropropene	mg/L	0.2 U	0.1 U	0.0067 U	0.005 U
Ethylbenzene	mg/L	0.2 U	0.1 U	0.0067 U	0.005 U
2-Hexanone	mg/L	2 U	1 U	0.067 U	0.05 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	2 U	1 U	0.067 U	0.05 U
Methylene chloride	mg/L	0.2 U	0.5 U	0.0067 U	0.025 U
Styrene	mg/L	0.2 U	0.1 U	0.0067 U	0.005 U
1,1,1,2-Tetrachloroethane	mg/L	0.2 U	0.1 U	0.0067 U	0.005 U
Tetrachloroethene	mg/L	0.2 U	0.1 U	0.0067 U	0.005 U
Toluene	mg/L	0.2 U	0.1 U	0.0067 U	0.005 U
1,1,1-Trichloroethane	mg/L	0.2 U	0.1 U	0.0067 U	0.005 U
1,1,2-Trichloroethane	mg/L	0.2 U	0.1 U	0.0067 U	0.005 U
Trichloroethene	mg/L	0.15 J	0.17	0.0026 J	0.005 U
Vinyl chloride	mg/L	0.62	0.64	0.0067 U	0.005 U
Xylenes (total)	mg/L	0.4 U	0.2 U	0.013 U	0.01 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 15	MW 16
Sample ID:		GW-041018-BE-004	GW-100318-AF-014	GW-100218-AF-008	GW-100318-AF-016
Sample Date:		4/10/2018	10/3/2018	10/2/2018	10/3/2018
Geologic Unit:		3s	3s	3s	3s
Parameters	Units				
Volatile Organic Compounds					
Acetone	mg/L	2 U	2 U	2 U	0.05 U
Benzene	mg/L	0.2 U	0.2 U	0.2 U	0.005 U
Bromodichloromethane	mg/L	0.2 U	0.2 U	0.2 U	0.005 U
Bromoform	mg/L	0.2 U	0.2 U	0.2 U	0.005 U
Bromomethane (Methyl bromide)	mg/L	0.2 U	0.2 U	0.2 U	0.005 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	2 U	0.38 J	2 U	0.05 U
Carbon disulfide	mg/L	0.2 U	0.2 U	0.2 U	0.005 U
Carbon tetrachloride	mg/L	0.2 U	0.2 U	0.2 U	0.005 U
Chlorobenzene	mg/L	0.2 U	0.2 U	0.2 U	0.005 U
Chloroethane	mg/L	0.2 U	0.2 U	0.2 U	0.005 U
Chloroform (Trichloromethane)	mg/L	0.2 U	0.2 U	0.2 U	0.005 U
Chloromethane (Methyl chloride)	mg/L	0.2 U	0.2 U	0.2 U	0.005 U
Dibromochloromethane	mg/L	0.2 U	0.2 U	0.2 U	0.005 U
1,1-Dichloroethane	mg/L	0.2 U	0.2 U	0.13 J	0.005 U
1,2-Dichloroethane	mg/L	0.2 U	0.2 U	0.2 U	0.005 U
1,1-Dichloroethene	mg/L	0.2 U	0.2 U	0.049 J	0.005 U
cis-1,2-Dichloroethene	mg/L	4	4.1	5.4	0.005 U
trans-1,2-Dichloroethene	mg/L	0.2 U	0.2 U	0.056 J	0.005 U
1,2-Dichloropropane	mg/L	0.2 U	0.2 U	0.2 U	0.005 U
cis-1,3-Dichloropropene	mg/L	0.2 U	0.2 U	0.2 U	0.005 U
trans-1,3-Dichloropropene	mg/L	0.2 U	0.2 U	0.2 U	0.005 U
Ethylbenzene	mg/L	0.2 U	0.2 U	0.2 U	0.005 U
2-Hexanone	mg/L	2 U	2 U	2 U	0.05 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	2 U	2 U	2 U	0.05 U
Methylene chloride	mg/L	0.2 U	1 U	1 U	0.025 U
Styrene	mg/L	0.2 U	0.2 U	0.2 U	0.005 U
1,1,2,2-Tetrachloroethane	mg/L	0.2 U	0.2 U	0.2 U	0.005 U
Tetrachloroethene	mg/L	0.2 U	0.2 U	0.2 U	0.005 U
Toluene	mg/L	0.2 U	0.2 U	0.2 U	0.005 U
1,1,1-Trichloroethane	mg/L	0.2 U	0.2 U	0.23	0.005 U
1,1,2-Trichloroethane	mg/L	0.2 U	0.2 U	0.2 U	0.005 U
Trichloroethene	mg/L	0.2 U	0.2 U	3.7	0.005 U
Vinyl chloride	mg/L	0.11 J	0.13 J	0.063 J	0.22
Xylenes (total)	mg/L	0.4 U	0.4 U	0.4 U	0.01 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 21	MW 28	MW 28	MW 28
Sample ID:		GW-100318-AF-012	GW-041218-BE-016	GW-100418-AF-020	GW-100418-AF-022
Sample Date:		10/3/2018	4/12/2018	10/4/2018	10/4/2018
Geologic Unit:		3s	3d	3d	3d
Parameters	Units				(Duplicate)
Volatile Organic Compounds					
Acetone	mg/L	0.01 U	0.5 U	0.67 U	0.67 U
Benzene	mg/L	0.001 U	0.05 U	0.067 U	0.067 U
Bromodichloromethane	mg/L	0.001 U	0.05 U	0.067 U	0.067 U
Bromoform	mg/L	0.001 U	0.05 U	0.067 U	0.067 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.05 U	0.067 U	0.067 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.01 U	0.5 U	0.67 U	0.67 U
Carbon disulfide	mg/L	0.001 U	0.05 U	0.067 U	0.067 U
Carbon tetrachloride	mg/L	0.001 U	0.05 U	0.067 U	0.067 U
Chlorobenzene	mg/L	0.001 U	0.05 U	0.067 U	0.067 U
Chloroethane	mg/L	0.001 U	0.05 U	0.067 U	0.067 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.05 U	0.067 U	0.067 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.05 U	0.067 U	0.067 U
Dibromochloromethane	mg/L	0.001 U	0.05 U	0.067 U	0.067 U
1,1-Dichloroethane	mg/L	0.00019 J	0.05 U	0.067 U	0.067 U
1,2-Dichloroethane	mg/L	0.001 U	0.05 U	0.067 U	0.067 U
1,1-Dichloroethene	mg/L	0.001 U	0.05 U	0.067 U	0.067 U
cis-1,2-Dichloroethene	mg/L	0.00046 J	0.97	1	1
trans-1,2-Dichloroethene	mg/L	0.001 U	0.02 J	0.019 J	0.024 J
1,2-Dichloropropane	mg/L	0.001 U	0.05 U	0.067 U	0.067 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.05 U	0.067 U	0.067 U
trans-1,3-Dichloropropene	mg/L	0.001 U	0.05 U	0.067 U	0.067 U
Ethylbenzene	mg/L	0.001 U	0.05 U	0.067 U	0.067 U
2-Hexanone	mg/L	0.01 U	0.5 U	0.67 U	0.67 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U	0.5 U	0.67 U	0.67 U
Methylene chloride	mg/L	0.005 U	0.05 U	0.33 U	0.33 U
Styrene	mg/L	0.001 U	0.05 U	0.067 U	0.067 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.05 U	0.067 U	0.067 U
Tetrachloroethene	mg/L	0.001 U	0.05 U	0.067 U	0.067 U
Toluene	mg/L	0.001 U	0.05 U	0.067 U	0.067 U
1,1,1-Trichloroethane	mg/L	0.001 U	0.05 U	0.067 U	0.067 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.05 U	0.067 U	0.067 U
Trichloroethene	mg/L	0.0013	0.05 U	0.067 U	0.067 U
Vinyl chloride	mg/L	0.001 U	0.17	0.15	0.16
Xylenes (total)	mg/L	0.002 U	0.1 U	0.13 U	0.13 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 31R	MW 31R	MW 31R	MW 37
Sample ID:		GW-041018-BE-006	GW-100218-AF-004	GW-100218-AF-006	GW-100518-BE-033
Sample Date:		4/10/2018	10/2/2018	10/2/2018	10/5/2018
Geologic Unit:		1	1	1	3s
Parameters	Units			(Duplicate)	
Volatile Organic Compounds					
Acetone	mg/L	10 U	10 U	10 U	0.01 U
Benzene	mg/L	1 U	1 U	1 U	0.001 U
Bromodichloromethane	mg/L	1 U	1 U	1 U	0.001 U
Bromoform	mg/L	1 U	1 U	1 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	1 U	1 U	1 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	10 U	10 U	10 U	0.01 U
Carbon disulfide	mg/L	1 U	1 U	1 U	0.001 U
Carbon tetrachloride	mg/L	1 U	1 U	1 U	0.001 U
Chlorobenzene	mg/L	1 U	1 U	1 U	0.001 U
Chloroethane	mg/L	1 U	1 U	1 U	0.001 U
Chloroform (Trichloromethane)	mg/L	1 U	1 U	1 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	1 U	1 U	1 U	0.001 U
Dibromochloromethane	mg/L	1 U	1 U	1 U	0.001 U
1,1-Dichloroethane	mg/L	0.32 J	0.67 J	0.62 J	0.001 U
1,2-Dichloroethane	mg/L	1 U	1 U	1 U	0.001 U
1,1-Dichloroethene	mg/L	1 U	1 U	1 U	0.001 U
cis-1,2-Dichloroethene	mg/L	20	33	32	0.001 U
trans-1,2-Dichloroethene	mg/L	1 U	1 U	1 U	0.001 U
1,2-Dichloropropane	mg/L	1 U	1 U	1 U	0.001 U
cis-1,3-Dichloropropene	mg/L	1 U	1 U	1 U	0.001 U
trans-1,3-Dichloropropene	mg/L	1 U	1 U	1 U	0.001 U
Ethylbenzene	mg/L	0.36 J	0.65 J	0.59 J	0.001 U
2-Hexanone	mg/L	10 U	10 U	10 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	10 U	10 U	10 U	0.01 U
Methylene chloride	mg/L	1 U	5 U	5 U	0.005 U
Styrene	mg/L	1 U	1 U	1 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	1 U	1 U	1 U	0.001 U
Tetrachloroethene	mg/L	1 U	1 U	1 U	0.001 U
Toluene	mg/L	1.5	2.6	2.4	0.001 U
1,1,1-Trichloroethane	mg/L	1 U	1 U	1 U	0.001 U
1,1,2-Trichloroethane	mg/L	1 U	1 U	1 U	0.001 U
Trichloroethene	mg/L	1 U	1 U	1 U	0.001 U
Vinyl chloride	mg/L	1.1	2.4	2.1	0.001 U
Xylenes (total)	mg/L	1.1 J	1.7 J	1.5 J	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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2915 Dr. Martin Luther King Jr. Boulevard,
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Sample Location:		MW 40	MW 40	MW 41	MW 41
Sample ID:		GW-041318-BE-017	GW-100318-BE-013	GW-041318-BE-018	GW-100418-AF-024
Sample Date:		4/13/2018	10/3/2018	4/13/2018	10/4/2018
Geologic Unit:		3s	3s	3d	3d
Parameters	Units				
Volatile Organic Compounds					
Acetone	mg/L	3.3 U	2 U	3.3 U	3.3 U
Benzene	mg/L	0.33 U	0.2 U	0.33 U	0.33 U
Bromodichloromethane	mg/L	0.33 U	0.2 U	0.33 U	0.33 U
Bromoform	mg/L	0.33 U	0.2 U	0.33 U	0.33 U
Bromomethane (Methyl bromide)	mg/L	0.33 U	0.2 U	0.33 U	0.33 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	3.3 U	0.49 J	3.3 U	3.3 U
Carbon disulfide	mg/L	0.33 U	0.2 U	0.33 U	0.33 U
Carbon tetrachloride	mg/L	0.33 U	0.2 U	0.33 U	0.33 U
Chlorobenzene	mg/L	0.33 U	0.2 U	0.33 U	0.33 U
Chloroethane	mg/L	0.33 U	0.2 U	0.33 U	0.33 U
Chloroform (Trichloromethane)	mg/L	0.33 U	0.2 U	0.33 U	0.33 U
Chloromethane (Methyl chloride)	mg/L	0.33 U	0.2 U	0.33 U	0.33 U
Dibromochloromethane	mg/L	0.33 U	0.2 U	0.33 U	0.33 U
1,1-Dichloroethane	mg/L	0.17 J	0.16 J	0.33 U	0.33 U
1,2-Dichloroethane	mg/L	0.33 U	0.2 U	0.33 U	0.33 U
1,1-Dichloroethene	mg/L	0.33 U	0.2 U	0.33 U	0.33 U
cis-1,2-Dichloroethene	mg/L	5.8	5.4	5.8	4.8
trans-1,2-Dichloroethene	mg/L	0.33 U	0.078 J	0.33 U	0.075 J
1,2-Dichloropropane	mg/L	0.33 U	0.2 U	0.33 U	0.33 U
cis-1,3-Dichloropropene	mg/L	0.33 U	0.2 U	0.33 U	0.33 U
trans-1,3-Dichloropropene	mg/L	0.33 U	0.2 U	0.33 U	0.33 U
Ethylbenzene	mg/L	0.33 U	0.2 U	0.33 U	0.33 U
2-Hexanone	mg/L	3.3 U	2 U	3.3 U	3.3 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	3.3 U	2 U	3.3 U	3.3 U
Methylene chloride	mg/L	0.18 J	1 U	0.33 U	1.7 U
Styrene	mg/L	0.33 U	0.2 U	0.33 U	0.33 U
1,1,2,2-Tetrachloroethane	mg/L	0.33 U	0.2 U	0.33 U	0.33 U
Tetrachloroethene	mg/L	0.33 U	0.2 U	0.33 U	0.33 U
Toluene	mg/L	0.33 U	0.2 U	0.33 U	0.33 U
1,1,1-Trichloroethane	mg/L	0.33 U	0.2 U	0.33 U	0.33 U
1,1,2-Trichloroethane	mg/L	0.33 U	0.2 U	0.33 U	0.33 U
Trichloroethene	mg/L	0.34	0.28	0.33 U	0.33 U
Vinyl chloride	mg/L	0.18 J	0.22	0.3 J	0.21 J
Xylenes (total)	mg/L	0.67 U	0.4 U	0.67 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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Sample Location:		MW 42	MW 42	MW 46	MW 49
Sample ID:		GW-041318-BE-019	GW-100418-AF-026	GW-100518-AF-030	GW-041118-BE-010
Sample Date:		4/13/2018	10/4/2018	10/5/2018	4/11/2018
Geologic Unit:		3s	3s	3s	3s
Parameters	Units				
Volatile Organic Compounds					
Acetone	mg/L	2 U	2 U	0.01 U	0.5 U
Benzene	mg/L	0.2 U	0.2 U	0.001 U	0.05 U
Bromodichloromethane	mg/L	0.2 U	0.2 U	0.001 U	0.05 U
Bromoform	mg/L	0.2 U	0.2 U	0.001 U	0.05 U
Bromomethane (Methyl bromide)	mg/L	0.2 U	0.2 U	0.001 U	0.05 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	2 U	2 U	0.01 U	0.5 U
Carbon disulfide	mg/L	0.2 U	0.2 U	0.001 U	0.05 U
Carbon tetrachloride	mg/L	0.2 U	0.2 U	0.001 U	0.05 U
Chlorobenzene	mg/L	0.2 U	0.2 U	0.001 U	0.05 U
Chloroethane	mg/L	0.2 U	0.2 U	0.001 U	0.05 U
Chloroform (Trichloromethane)	mg/L	0.2 U	0.2 U	0.001 U	0.05 U
Chloromethane (Methyl chloride)	mg/L	0.2 U	0.2 U	0.001 U	0.05 U
Dibromochloromethane	mg/L	0.2 U	0.2 U	0.001 U	0.05 U
1,1-Dichloroethane	mg/L	0.2 U	0.2 U	0.001 U	0.05 U
1,2-Dichloroethane	mg/L	0.2 U	0.2 U	0.001 U	0.05 U
1,1-Dichloroethene	mg/L	0.2 U	0.2 U	0.001 U	0.05 U
cis-1,2-Dichloroethene	mg/L	3.9	3.5	0.001 U	0.89
trans-1,2-Dichloroethene	mg/L	0.14 J	0.15 J	0.001 U	0.027 J
1,2-Dichloropropane	mg/L	0.2 U	0.2 U	0.001 U	0.05 U
cis-1,3-Dichloropropene	mg/L	0.2 U	0.2 U	0.001 U	0.05 U
trans-1,3-Dichloropropene	mg/L	0.2 U	0.2 U	0.001 U	0.05 U
Ethylbenzene	mg/L	0.2 U	0.2 U	0.001 U	0.05 U
2-Hexanone	mg/L	2 U	2 U	0.01 U	0.5 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	2 U	2 U	0.01 U	0.5 U
Methylene chloride	mg/L	0.2 U	1 U	0.005 U	0.05 U
Styrene	mg/L	0.2 U	0.2 U	0.001 U	0.05 U
1,1,2,2-Tetrachloroethane	mg/L	0.2 U	0.2 U	0.001 U	0.05 U
Tetrachloroethene	mg/L	0.2 U	0.2 U	0.001 U	0.05 U
Toluene	mg/L	0.2 U	0.2 U	0.001 U	0.05 U
1,1,1-Trichloroethane	mg/L	0.2 U	0.2 U	0.001 U	0.05 U
1,1,2-Trichloroethane	mg/L	0.2 U	0.2 U	0.001 U	0.05 U
Trichloroethene	mg/L	0.2 U	0.2 U	0.00015 J	0.05 U
Vinyl chloride	mg/L	0.11 J	0.2 U	0.001 U	0.05 U
Xylenes (total)	mg/L	0.4 U	0.4 U	0.002 U	0.1 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
2018 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location:		MW 49	MW 51	MW 51	MW 51
Sample ID:		GW-100318-BE-011	GW-041018-BE-001	GW-041018-BE-002	GW-100418-BE-031
Sample Date:		10/3/2018	4/10/2018	4/10/2018	10/4/2018
Geologic Unit:		3s	3s	3s	3s
Parameters	Units			(Duplicate)	
Volatile Organic Compounds					
Acetone	mg/L	0.4 U	0.033 U	0.033 U	0.05 U
Benzene	mg/L	0.04 U	0.0033 U	0.0033 U	0.005 U
Bromodichloromethane	mg/L	0.04 U	0.0033 U	0.0033 U	0.005 U
Bromoform	mg/L	0.04 U	0.0033 U	0.0033 U	0.005 U
Bromomethane (Methyl bromide)	mg/L	0.04 U	0.0033 U	0.0033 U	0.005 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.4 U	0.033 U	0.033 U	0.05 U
Carbon disulfide	mg/L	0.04 U	0.0033 U	0.0033 U	0.005 U
Carbon tetrachloride	mg/L	0.04 U	0.0033 U	0.0033 U	0.005 U
Chlorobenzene	mg/L	0.04 U	0.0033 U	0.0033 U	0.005 U
Chloroethane	mg/L	0.04 U	0.0033 U	0.0033 U	0.005 U
Chloroform (Trichloromethane)	mg/L	0.04 U	0.0033 U	0.0033 U	0.005 U
Chloromethane (Methyl chloride)	mg/L	0.04 U	0.0033 U	0.0033 U	0.005 U
Dibromochloromethane	mg/L	0.04 U	0.0033 U	0.0033 U	0.005 U
1,1-Dichloroethane	mg/L	0.04 U	0.0033 U	0.0033 U	0.005 U
1,2-Dichloroethane	mg/L	0.04 U	0.0033 U	0.0033 U	0.005 U
1,1-Dichloroethene	mg/L	0.04 U	0.0033 U	0.0033 U	0.005 U
cis-1,2-Dichloroethene	mg/L	0.89	0.032	0.034	0.079
trans-1,2-Dichloroethene	mg/L	0.029 J	0.0033 U	0.0033 U	0.005 U
1,2-Dichloropropane	mg/L	0.04 U	0.0033 U	0.0033 U	0.005 U
cis-1,3-Dichloropropene	mg/L	0.04 U	0.0033 U	0.0033 U	0.005 U
trans-1,3-Dichloropropene	mg/L	0.04 U	0.0033 U	0.0033 U	0.005 U
Ethylbenzene	mg/L	0.04 U	0.0033 U	0.0033 U	0.005 U
2-Hexanone	mg/L	0.4 U	0.033 U	0.033 U	0.05 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.4 U	0.033 U	0.033 U	0.05 U
Methylene chloride	mg/L	0.2 U	0.0068 U	0.0054 U	0.025 U
Styrene	mg/L	0.04 U	0.0033 U	0.0033 U	0.005 U
1,1,2,2-Tetrachloroethane	mg/L	0.04 U	0.0033 U	0.0033 U	0.005 U
Tetrachloroethene	mg/L	0.04 U	0.0033 U	0.0033 U	0.005 U
Toluene	mg/L	0.04 U	0.0033 U	0.0033 U	0.005 U
1,1,1-Trichloroethane	mg/L	0.04 U	0.0033 U	0.0033 U	0.005 U
1,1,2-Trichloroethane	mg/L	0.04 U	0.0033 U	0.0033 U	0.005 U
Trichloroethene	mg/L	0.047	0.087	0.097	0.064
Vinyl chloride	mg/L	0.04 U	0.0038	0.0046	0.0035 J
Xylenes (total)	mg/L	0.08 U	0.0067 U	0.0067 U	0.01 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
2018 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location:		MW 56	MW 57	MW 58	MW 61
Sample ID:		GW-100518-AF-032	GW-100818-BE-037	GW-100818-BE-036	GW-100418-AF-018
Sample Date:		10/5/2018	10/8/2018	10/8/2018	10/4/2018
Geologic Unit:		3d	3d	3d	3d
Parameters	Units				
Volatile Organic Compounds					
Acetone	mg/L	0.01 U	0.01 U	2 U	0.01 U
Benzene	mg/L	0.001 U	0.001 U	0.2 U	0.001 U
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.2 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.2 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 U	0.2 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.01 U	0.01 U	2 U	0.01 U
Carbon disulfide	mg/L	0.001 U	0.00043 J	0.2 U	0.001 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.2 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.2 U	0.001 U
Chloroethane	mg/L	0.001 U	0.001 U	0.2 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.2 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.2 U	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.2 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.097 J	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.2 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.2 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.0082 U	3	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.13 J	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.2 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.2 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.2 U	0.001 U
Ethylbenzene	mg/L	0.001 U	0.001 U	0.2 U	0.001 U
2-Hexanone	mg/L	0.01 U	0.01 U	2 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U	0.01 U	2 U	0.01 U
Methylene chloride	mg/L	0.005 U	0.005 U	1 U	0.005 U
Styrene	mg/L	0.001 U	0.001 U	0.2 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U	0.2 U	0.001 U
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.2 U	0.001 U
Toluene	mg/L	0.001 U	0.001 U	0.2 U	0.001 U
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.2 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.2 U	0.001 U
Trichloroethene	mg/L	0.001 U	0.001 U	0.2 U	0.001 U
Vinyl chloride	mg/L	0.001 U	0.02	0.064 J	0.0013
Xylenes (total)	mg/L	0.002 U	0.002 U	0.4 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
2018 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location:		MW 64	MW 64	MW 65	MW 66
Sample ID:		GW-100318-BE-017	GW-100318-BE-019	GW-100418-AF-028	GW-041118-BE-011
Sample Date:		10/3/2018	10/3/2018	10/4/2018	4/11/2018
Geologic Unit:		3d	3d	3d	3d
Parameters	Units		(Duplicate)		
Volatile Organic Compounds					
Acetone	mg/L	0.1 U	0.1 U	0.01 U	2 U
Benzene	mg/L	0.01 U	0.01 U	0.001 U	0.2 U
Bromodichloromethane	mg/L	0.01 U	0.01 U	0.001 U	0.2 U
Bromoform	mg/L	0.01 U	0.01 U	0.001 U	0.2 U
Bromomethane (Methyl bromide)	mg/L	0.01 U	0.01 U	0.001 U	0.2 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.018 J	0.1 U	0.01 U	2 U
Carbon disulfide	mg/L	0.01 U	0.01 U	0.001 U	0.2 U
Carbon tetrachloride	mg/L	0.01 U	0.01 U	0.001 U	0.2 U
Chlorobenzene	mg/L	0.01 U	0.01 U	0.001 U	0.2 U
Chloroethane	mg/L	0.01 U	0.01 U	0.001 U	0.2 U
Chloroform (Trichloromethane)	mg/L	0.01 U	0.01 U	0.00053 J	0.2 U
Chloromethane (Methyl chloride)	mg/L	0.01 U	0.01 U	0.001 U	0.2 U
Dibromochloromethane	mg/L	0.01 U	0.01 U	0.001 U	0.2 U
1,1-Dichloroethane	mg/L	0.014	0.014	0.00092 J	0.12 J
1,2-Dichloroethane	mg/L	0.01 U	0.01 U	0.001 U	0.2 U
1,1-Dichloroethene	mg/L	0.01 U	0.01 U	0.001 U	0.2 U
cis-1,2-Dichloroethene	mg/L	0.21	0.21	0.015	2.6
trans-1,2-Dichloroethene	mg/L	0.023	0.022	0.00069 J	0.13 J
1,2-Dichloropropane	mg/L	0.01 U	0.01 U	0.001 U	0.2 U
cis-1,3-Dichloropropene	mg/L	0.01 U	0.01 U	0.001 U	0.2 U
trans-1,3-Dichloropropene	mg/L	0.01 U	0.01 U	0.001 U	0.2 U
Ethylbenzene	mg/L	0.01 U	0.01 U	0.001 U	0.2 U
2-Hexanone	mg/L	0.1 U	0.1 U	0.01 U	2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.1 U	0.1 U	0.01 U	2 U
Methylene chloride	mg/L	0.05 U	0.05 U	0.005 U	0.2 U
Styrene	mg/L	0.01 U	0.01 U	0.001 U	0.2 U
1,1,2,2-Tetrachloroethane	mg/L	0.01 U	0.01 U	0.001 U	0.2 U
Tetrachloroethene	mg/L	0.01 U	0.01 U	0.001 U	0.2 U
Toluene	mg/L	0.01 U	0.01 U	0.001 U	0.2 U
1,1,1-Trichloroethane	mg/L	0.01 U	0.01 U	0.001 U	0.2 U
1,1,2-Trichloroethane	mg/L	0.01 U	0.01 U	0.001 U	0.2 U
Trichloroethene	mg/L	0.01 U	0.01 U	0.00027 J	0.2 U
Vinyl chloride	mg/L	0.083	0.089	0.00074 J	0.2 U
Xylenes (total)	mg/L	0.02 U	0.02 U	0.002 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,
Anderson, Indiana

Sample Location:		MW 66	MW 68	MW 68	MW 75
Sample ID:		GW-100318-BE-015	GW-041118-BE-008	GW-100218-BE-005	GW-100218-BE-003
Sample Date:		10/3/2018	4/11/2018	10/2/2018	10/2/2018
Geologic Unit:		3d	3s	3s	3d
Parameters	Units				
Volatile Organic Compounds					
Acetone	mg/L	2 U	2 U	2 U	0.01 U
Benzene	mg/L	0.2 U	0.2 U	0.2 U	0.001 U
Bromodichloromethane	mg/L	0.2 U	0.2 U	0.2 U	0.001 U
Bromoform	mg/L	0.2 U	0.2 U	0.2 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.2 U	0.2 U	0.2 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	2 U	2 U	2 U	0.01 U
Carbon disulfide	mg/L	0.2 U	0.2 U	0.2 U	0.001 U
Carbon tetrachloride	mg/L	0.2 U	0.2 U	0.2 U	0.001 U
Chlorobenzene	mg/L	0.2 U	0.2 U	0.2 U	0.001 U
Chloroethane	mg/L	0.2 U	0.2 U	0.2 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.2 U	0.2 U	0.2 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.2 U	0.2 U	0.2 U	0.001 U
Dibromochloromethane	mg/L	0.2 U	0.2 U	0.2 U	0.001 U
1,1-Dichloroethane	mg/L	0.16 J	0.15 J	0.16 J	0.001 U
1,2-Dichloroethane	mg/L	0.2 U	0.2 U	0.2 U	0.001 U
1,1-Dichloroethene	mg/L	0.2 U	0.2 U	0.2 U	0.001 U
cis-1,2-Dichloroethene	mg/L	3.4	3.7	4.4	0.001 U
trans-1,2-Dichloroethene	mg/L	0.18 J	0.15 J	0.17 J	0.001 U
1,2-Dichloropropane	mg/L	0.2 U	0.2 U	0.2 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.2 U	0.2 U	0.2 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.2 U	0.2 U	0.2 U	0.001 U
Ethylbenzene	mg/L	0.2 U	0.2 U	0.2 U	0.001 U
2-Hexanone	mg/L	2 U	2 U	2 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	2 U	2 U	2 U	0.01 U
Methylene chloride	mg/L	1 U	0.2 U	1 U	0.005 U
Styrene	mg/L	0.2 U	0.2 U	0.2 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.2 U	0.2 U	0.2 U	0.001 U
Tetrachloroethene	mg/L	0.2 U	0.2 U	0.2 U	0.001 U
Toluene	mg/L	0.2 U	0.2 U	0.2 U	0.001 U
1,1,1-Trichloroethane	mg/L	0.2 U	0.2 U	0.2 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.2 U	0.2 U	0.2 U	0.001 U
Trichloroethene	mg/L	0.2 U	1.7	1.4	0.001 U
Vinyl chloride	mg/L	0.2 U	0.099 J	0.11 J	0.001 U
Xylenes (total)	mg/L	0.4 U	0.4 U	0.4 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
2018 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location:		MW 76R-17	MW 79	MW 79	MW 80
Sample ID:		GW-100218-BE-001	GW-041018-BE-003	GW-100218-BE-007	GW-100218-BE-009
Sample Date:		10/2/2018	4/10/2018	10/2/2018	10/2/2018
Geologic Unit:		3s	3s	3s	3d
Parameters	Units				
Volatile Organic Compounds					
Acetone	mg/L	0.01 U	1 U	1 U	0.02 U
Benzene	mg/L	0.001 U	0.1 U	0.1 U	0.002 U
Bromodichloromethane	mg/L	0.001 U	0.1 U	0.1 U	0.002 U
Bromoform	mg/L	0.001 U	0.1 U	0.1 U	0.002 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.1 U	0.1 U	0.002 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.01 U	1 U	1 U	0.02 U
Carbon disulfide	mg/L	0.001 U	0.1 U	0.1 U	0.002 U
Carbon tetrachloride	mg/L	0.001 U	0.1 U	0.1 U	0.002 U
Chlorobenzene	mg/L	0.001 U	0.1 U	0.1 U	0.002 U
Chloroethane	mg/L	0.001 U	0.1 U	0.1 U	0.002 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.1 U	0.1 U	0.002 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.1 U	0.1 U	0.002 U
Dibromochloromethane	mg/L	0.001 U	0.1 U	0.1 U	0.002 U
1,1-Dichloroethane	mg/L	0.001 U	0.1 U	0.1 U	0.002 U
1,2-Dichloroethane	mg/L	0.001 U	0.1 U	0.1 U	0.002 U
1,1-Dichloroethene	mg/L	0.001 U	0.1 U	0.1 U	0.002 U
cis-1,2-Dichloroethene	mg/L	0.0028	3.5	2.4	0.015
trans-1,2-Dichloroethene	mg/L	0.001 U	0.12	0.084 J	0.001 J
1,2-Dichloropropane	mg/L	0.001 U	0.1 U	0.1 U	0.002 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.1 U	0.1 U	0.002 U
trans-1,3-Dichloropropene	mg/L	0.001 U	0.1 U	0.1 U	0.002 U
Ethylbenzene	mg/L	0.001 U	0.1 U	0.1 U	0.002 U
2-Hexanone	mg/L	0.01 U	1 U	1 U	0.02 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U	1 U	1 U	0.02 U
Methylene chloride	mg/L	0.005 U	0.37 U	0.5 U	0.01 U
Styrene	mg/L	0.001 U	0.1 U	0.1 U	0.002 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.1 U	0.1 U	0.002 U
Tetrachloroethene	mg/L	0.001 U	0.1 U	0.1 U	0.002 U
Toluene	mg/L	0.001 U	0.1 U	0.1 U	0.002 U
1,1,1-Trichloroethane	mg/L	0.001 U	0.1 U	0.1 U	0.002 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.1 U	0.1 U	0.002 U
Trichloroethene	mg/L	0.001 U	0.1 U	0.1 U	0.002 U
Vinyl chloride	mg/L	0.001 U	0.31	0.31	0.051
Xylenes (total)	mg/L	0.002 U	0.2 U	0.2 U	0.004 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,
Anderson, Indiana

Sample Location:		MW 81	MW 82	MW 82	MW 83
Sample ID:		GW-100918-AF-043	GW-101018-AF-048	GW-101018-AF-049	GW-121318-BE-001
Sample Date:		10/9/2018	10/10/2018	10/10/2018	12/13/2018
Geologic Unit:		B	B	B	B
Parameters	Units			(Duplicate)	
Volatile Organic Compounds					
Acetone	mg/L	0.04 U	0.01 U	0.01 U	0.01 U
Benzene	mg/L	0.004 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.004 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.004 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.004 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.04 U	0.01 U	0.01 U	0.01 U
Carbon disulfide	mg/L	0.004 U	0.001 U	0.001 U	0.001 U
Carbon tetrachloride	mg/L	0.004 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.004 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.004 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.004 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.004 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.004 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.0012 J	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.004 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.004 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.078	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 J	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.004 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.004 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.004 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	mg/L	0.004 U	0.001 U	0.001 U	0.001 U
2-Hexanone	mg/L	0.04 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.04 U	0.01 U	0.01 U	0.01 U
Methylene chloride	mg/L	0.02 U	0.005 U	0.005 U	0.005 U
Styrene	mg/L	0.004 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.004 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	0.004 U	0.001 U	0.001 U	0.001 U
Toluene	mg/L	0.004 U	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	mg/L	0.004 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.004 U	0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	0.004 U	0.00012 J	0.00014 J	0.001 U
Vinyl chloride	mg/L	0.027	0.001 U	0.001 U	0.012
Xylenes (total)	mg/L	0.008 U	0.002 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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2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location:		MW 84	MW 85	MW 85	MW 86
Sample ID:		GW-100418-BE-027	GW-041218-BE-015	GW-100818-BE-038	GW-100418-BE-025
Sample Date:		10/4/2018	4/12/2018	10/8/2018	10/4/2018
Geologic Unit:		3s	3d	3d	3d
Parameters	Units				
Volatile Organic Compounds					
Acetone	mg/L	0.01 U	5 U	5 U	0.01 U
Benzene	mg/L	0.001 U	0.5 U	0.5 U	0.001 U
Bromodichloromethane	mg/L	0.001 U	0.5 U	0.5 U	0.001 U
Bromoform	mg/L	0.001 U	0.5 U	0.5 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.5 U	0.5 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.01 U	5 U	5 U	0.01 U
Carbon disulfide	mg/L	0.001 U	0.5 U	0.5 U	0.001 U
Carbon tetrachloride	mg/L	0.001 U	0.5 U	0.5 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.5 U	0.5 U	0.001 U
Chloroethane	mg/L	0.001 U	0.5 U	0.5 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.5 U	0.5 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.5 U	0.5 U	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.5 U	0.5 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.27 J	0.3 J	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.5 U	0.5 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	0.5 U	0.5 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.001 U	7.3	8	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	0.26 J	0.28 J	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.5 U	0.5 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.5 U	0.5 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.001 U	0.5 U	0.5 U	0.001 U
Ethylbenzene	mg/L	0.001 U	0.5 U	0.5 U	0.001 U
2-Hexanone	mg/L	0.01 U	5 U	5 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U	5 U	5 U	0.01 U
Methylene chloride	mg/L	0.005 U	0.5 U	2.5 U	0.005 U
Styrene	mg/L	0.001 U	0.5 U	0.5 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.5 U	0.5 U	0.001 U
Tetrachloroethene	mg/L	0.001 U	0.5 U	0.5 U	0.001 U
Toluene	mg/L	0.001 U	0.5 U	0.5 U	0.001 U
1,1,1-Trichloroethane	mg/L	0.001 U	0.5 U	0.5 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.5 U	0.5 U	0.001 U
Trichloroethene	mg/L	0.001 U	0.5 U	0.5 U	0.001 U
Vinyl chloride	mg/L	0.001 U	0.35 J	0.68	0.001 U
Xylenes (total)	mg/L	0.002 U	1 U	1 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
2018 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location:		MW 88	MW 88	MW 89-11	MW 89-11
Sample ID:		GW-100418-BE-021	GW-100418-BE-023	GW-041118-BE-012	GW-100818-BE-039
Sample Date:		10/4/2018	10/4/2018	4/11/2018	10/8/2018
Geologic Unit:		3d	3d	3s	3s
Parameters	Units		(Duplicate)		
Volatile Organic Compounds					
Acetone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.01 U	0.01 U	0.01 U	0.01 U
Carbon disulfide	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.00023 J
cis-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
2-Hexanone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U	0.01 U	0.01 U	0.01 U
Methylene chloride	mg/L	0.005 U	0.005 U	0.001 U	0.005 U
Styrene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.00066 J	0.0029
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	mg/L	0.0024	0.0023	0.001 U	0.001 U
Xylenes (total)	mg/L	0.002 U	0.002 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
2018 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location: **MW 97R-16**
Sample ID: **GW-100918-BE-040**
Sample Date: **10/9/2018**
Geologic Unit: **3d**
Parameters **Units**

Volatile Organic Compounds

Acetone	mg/L	0.01 U
Benzene	mg/L	0.001 U
Bromodichloromethane	mg/L	0.001 U
Bromoform	mg/L	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.01 U
Carbon disulfide	mg/L	0.001 U
Carbon tetrachloride	mg/L	0.001 U
Chlorobenzene	mg/L	0.001 U
Chloroethane	mg/L	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U
Dibromochloromethane	mg/L	0.001 U
1,1-Dichloroethane	mg/L	0.001 U
1,2-Dichloroethane	mg/L	0.001 U
1,1-Dichloroethene	mg/L	0.001 U
cis-1,2-Dichloroethene	mg/L	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U
1,2-Dichloropropane	mg/L	0.001 U
cis-1,3-Dichloropropene	mg/L	0.001 U
trans-1,3-Dichloropropene	mg/L	0.001 U
Ethylbenzene	mg/L	0.001 U
2-Hexanone	mg/L	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U
Methylene chloride	mg/L	0.005 U
Styrene	mg/L	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U
Tetrachloroethene	mg/L	0.001 U
Toluene	mg/L	0.001 U
1,1,1-Trichloroethane	mg/L	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U
Trichloroethene	mg/L	0.001 U
Vinyl chloride	mg/L	0.001 U
Xylenes (total)	mg/L	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
2018 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location:		Pond Intake	Pond Intake	Pond Intake	Pond Intake
Sample ID:		SW-040918-BE-001	SW-070518-BE-002	SW-070518-BE-003	SW-100918-BE-001
Sample Date:		4/9/2018	7/5/2018	7/5/2018	10/9/2018
Parameters	Units			(Duplicate)	
Volatile Organic Compounds					
Acetone	mg/L	0.05 U	0.033 U	0.033 U	0.05 U
Benzene	mg/L	0.005 U	0.0033 U	0.0033 U	0.005 U
Bromodichloromethane	mg/L	0.005 U	0.0033 U	0.0033 U	0.005 U
Bromoform	mg/L	0.005 U	0.0033 U	0.0033 U	0.005 U
Bromomethane (Methyl bromide)	mg/L	0.005 U	0.0033 U	0.0033 U	0.005 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.05 U	0.033 U	0.033 U	0.05 U
Carbon disulfide	mg/L	0.005 U	0.0033 U	0.0033 U	0.005 U
Carbon tetrachloride	mg/L	0.005 U	0.0033 U	0.0033 U	0.005 U
Chlorobenzene	mg/L	0.005 U	0.0033 U	0.0033 U	0.005 U
Chloroethane	mg/L	0.005 U	0.0033 U	0.0033 U	0.005 U
Chloroform (Trichloromethane)	mg/L	0.005 U	0.0033 U	0.0033 U	0.005 U
Chloromethane (Methyl chloride)	mg/L	0.005 U	0.0033 U	0.0033 U	0.005 U
Dibromochloromethane	mg/L	0.005 U	0.0033 U	0.0033 U	0.005 U
1,1-Dichloroethane	mg/L	0.0057	0.0039	0.0038	0.0051
1,2-Dichloroethane	mg/L	0.005 U	0.0033 U	0.0033 U	0.005 U
1,1-Dichloroethene	mg/L	0.005 U	0.0033 U	0.0033 U	0.005 U
cis-1,2-Dichloroethene	mg/L	0.12	0.077	0.072	0.1
trans-1,2-Dichloroethene	mg/L	0.0046 J	0.0019 J	0.0017 J	0.0025 J
1,2-Dichloropropane	mg/L	0.005 U	0.0033 U	0.0033 U	0.005 U
cis-1,3-Dichloropropene	mg/L	0.005 U	0.0033 U	0.0033 U	0.005 U
trans-1,3-Dichloropropene	mg/L	0.005 U	0.0033 U	0.0033 U	0.005 U
Ethylbenzene	mg/L	0.005 U	0.0033 U	0.0033 U	0.005 U
2-Hexanone	mg/L	0.05 U	0.033 U	0.033 U	0.05 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.05 U	0.033 U	0.033 U	0.05 U
Methylene chloride	mg/L	0.016 U	0.017 U	0.017 U	0.025 U
Styrene	mg/L	0.005 U	0.0033 U	0.0033 U	0.005 U
1,1,2,2-Tetrachloroethane	mg/L	0.005 U	0.0033 U	0.0033 U	0.005 U
Tetrachloroethene	mg/L	0.005 U	0.0033 U	0.0033 U	0.005 U
Toluene	mg/L	0.005 U	0.0033 U	0.0033 U	0.005 U
1,1,1-Trichloroethane	mg/L	0.005 U	0.0033 U	0.0033 U	0.005 U
1,1,2-Trichloroethane	mg/L	0.005 U	0.0033 U	0.0033 U	0.005 U
Trichloroethene	mg/L	0.005 U	0.0033 U	0.0033 U	0.005 U
Vinyl chloride	mg/L	0.013	0.0076	0.0073	0.005
Xylenes (total)	mg/L	0.01 U	0.0067 U	0.0067 U	0.01 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
2018 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-040918-BE-002	SW-040918-BE-003	SW-070518-BE-001	SW-100918-BE-002
Sample Date:		4/9/2018	4/9/2018	7/5/2018	10/9/2018
Parameters	Units		(Duplicate)		
Volatile Organic Compounds					
Acetone	mg/L	0.11 U	0.1 U	0.063 U	0.067 U
Benzene	mg/L	0.011 U	0.01 U	0.0063 U	0.0067 U
Bromodichloromethane	mg/L	0.011 U	0.01 U	0.0063 U	0.0067 U
Bromoform	mg/L	0.011 U	0.01 U	0.0063 U	0.0067 U
Bromomethane (Methyl bromide)	mg/L	0.011 U	0.01 U	0.0063 U	0.0067 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.11 U	0.1 U	0.063 U	0.067 U
Carbon disulfide	mg/L	0.011 U	0.01 U	0.0063 U	0.0067 U
Carbon tetrachloride	mg/L	0.011 U	0.01 U	0.0063 U	0.0067 U
Chlorobenzene	mg/L	0.011 U	0.01 U	0.0063 U	0.0067 U
Chloroethane	mg/L	0.011 U	0.01 U	0.0063 U	0.0067 U
Chloroform (Trichloromethane)	mg/L	0.011 U	0.01 U	0.0063 U	0.0067 U
Chloromethane (Methyl chloride)	mg/L	0.011 U	0.01 U	0.0063 U	0.0067 U
Dibromochloromethane	mg/L	0.011 U	0.01 U	0.0063 U	0.0067 U
1,1-Dichloroethane	mg/L	0.0085 J	0.0091 J	0.013	0.0062 J
1,2-Dichloroethane	mg/L	0.011 U	0.01 U	0.0063 U	0.0067 U
1,1-Dichloroethene	mg/L	0.011 U	0.01 U	0.0063 U	0.0067 U
cis-1,2-Dichloroethene	mg/L	0.21	0.22	0.16	0.13
trans-1,2-Dichloroethene	mg/L	0.0071 J	0.0087 J	0.0095	0.0033 J
1,2-Dichloropropane	mg/L	0.011 U	0.01 U	0.0063 U	0.0067 U
cis-1,3-Dichloropropene	mg/L	0.011 U	0.01 U	0.0063 U	0.0067 U
trans-1,3-Dichloropropene	mg/L	0.011 U	0.01 U	0.0063 U	0.0067 U
Ethylbenzene	mg/L	0.011 U	0.01 U	0.0063 U	0.0067 U
2-Hexanone	mg/L	0.11 U	0.1 U	0.063 U	0.067 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.11 U	0.1 U	0.063 U	0.067 U
Methylene chloride	mg/L	0.011 U	0.034 U	0.031 U	0.033 U
Styrene	mg/L	0.011 U	0.01 U	0.0063 U	0.0067 U
1,1,2,2-Tetrachloroethane	mg/L	0.011 U	0.01 U	0.0063 U	0.0067 U
Tetrachloroethene	mg/L	0.011 U	0.01 U	0.0063 U	0.0067 U
Toluene	mg/L	0.011 U	0.01 U	0.0063 U	0.0067 U
1,1,1-Trichloroethane	mg/L	0.011 U	0.01 U	0.0063 U	0.0067 U
1,1,2-Trichloroethane	mg/L	0.011 U	0.01 U	0.0063 U	0.0067 U
Trichloroethene	mg/L	0.011 U	0.01 U	0.0063 U	0.0067 U
Vinyl chloride	mg/L	0.014	0.018	0.023 J	0.0059 J
Xylenes (total)	mg/L	0.022 U	0.02 U	0.013 U	0.013 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
2018 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location:	Pond North
Sample ID:	SW-100918-BE-003
Sample Date:	10/9/2018
Parameters	(Duplicate)

Volatile Organic Compounds

	Units	
Acetone	mg/L	0.067 U
Benzene	mg/L	0.0067 U
Bromodichloromethane	mg/L	0.0067 U
Bromoform	mg/L	0.0067 U
Bromomethane (Methyl bromide)	mg/L	0.0067 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.067 U
Carbon disulfide	mg/L	0.0067 U
Carbon tetrachloride	mg/L	0.0067 U
Chlorobenzene	mg/L	0.0067 U
Chloroethane	mg/L	0.0067 U
Chloroform (Trichloromethane)	mg/L	0.0067 U
Chloromethane (Methyl chloride)	mg/L	0.0067 U
Dibromochloromethane	mg/L	0.0067 U
1,1-Dichloroethane	mg/L	0.0066 J
1,2-Dichloroethane	mg/L	0.0067 U
1,1-Dichloroethene	mg/L	0.0067 U
cis-1,2-Dichloroethene	mg/L	0.13
trans-1,2-Dichloroethene	mg/L	0.0037 J
1,2-Dichloropropane	mg/L	0.0067 U
cis-1,3-Dichloropropene	mg/L	0.0067 U
trans-1,3-Dichloropropene	mg/L	0.0067 U
Ethylbenzene	mg/L	0.0067 U
2-Hexanone	mg/L	0.067 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.067 U
Methylene chloride	mg/L	0.033 U
Styrene	mg/L	0.0067 U
1,1,2,2-Tetrachloroethane	mg/L	0.0067 U
Tetrachloroethene	mg/L	0.0067 U
Toluene	mg/L	0.0067 U
1,1,1-Trichloroethane	mg/L	0.0067 U
1,1,2-Trichloroethane	mg/L	0.0067 U
Trichloroethene	mg/L	0.0067 U
Vinyl chloride	mg/L	0.0064 J
Xylenes (total)	mg/L	0.013 U

Notes:

mg/L - milligram per litre

J - Estimated concentration.

U - Not detected at the associated reporting limit.

Table 8

**Preliminary Screening for Anaerobic Biodegradation Process
2018 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana**

<i>Analysis</i>	<i>Concentration in Most Contaminated Zone</i>	<i>Value</i>	<i>AOC 1- South Court Plume</i>	<i>Former WWTP Plume</i>
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	0	0
Sulfide*	>1mg/L	3	0	0
Methane*	<0.5 mg/L >0.5 mg/L	0 3	3	0
ORP*	<50 mV <-100mV	1 2	2	2
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	0	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:			22	20

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
2018 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 -- 2018	--	--	--
MW 3	3s	AOC 1, Source	2005 -- 2018	NT or Decreasing	NT or Decreasing	NT or Decreasing ⁽¹⁾
MW-4	3d	WWTP, Tail	2005 -- 2018	Increasing ⁽¹⁾	NT or Decreasing	NT or Decreasing
MW-7	3d	WWTP, Margin	2012 -- 2018	--	--	--
MW 8	3s	AOC 1, Source	2005 -- 2018	NT or Decreasing	NT or Decreasing	NT or Decreasing
MW 12	3i	AOC 1, Tail	2005 -- 2018	NT or Decreasing ⁽¹⁾	NT or Decreasing	--
MW 14	3s	AOC 1, Tail	2005 -- 2018	--	NT or Decreasing	NT or Decreasing
MW 15 ⁽²⁾⁽³⁾	3s	AOC 1, Source	2005 -- 2018	NT or Decreasing	NT or Decreasing	NT or Decreasing
MW 16	3s	AOC 1, Margin	2005 -- 2018	--	--	--
MW 21 ⁽²⁾	3s	AOC 1, Margin	2005 -- 2018	--	--	--
MW 28	3d	WWTP, Tail	2005 -- 2018	--	Increasing ⁽¹⁾	Increasing
MW 31R	1	AOC 1, Source	2005 -- 2018	NT or Decreasing ⁽¹⁾	NT or Decreasing	NT or Decreasing
MW 37	3s	AOC 1, Margin	2005 -- 2018	--	--	--
MW 40	3s	WWTP, Source	2005 -- 2018	Increasing ⁽¹⁾	NT or Decreasing	NT or Decreasing
MW 41	3d	WWTP, Source	2005 -- 2018	--	NT or Decreasing	Increasing
MW 42	3s	WWTP, Source	2005 -- 2018	--	NT or Decreasing	NT or Decreasing
MW 46	3s	AOC 1, Margin	2005 -- 2018	--	--	--
MW 49	3s	AOC 1, Tail	2005 -- 2018	--	Increasing	-- (NT or Decreasing) ⁽⁴⁾
MW 51	3s	AOC 1, Tail	2008 -- 2018	NT or Decreasing	Increasing	Increasing ⁽¹⁾
MW 56	3d	WWTP, Margin	2005 -- 2018	--	--	--
MW 57	3d	WWTP, Margin	2005 -- 2018	--	--	--
MW 58	3d	WWTP, Margin	2005 -- 2018	--	--	Increasing
MW 61	3d	WWTP, Margin	2005 -- 2018	--	--	--
MW 64	3d	WWTP, Margin	2005 -- 2018	--	--	Increasing
MW 65	3d	WWTP, Margin	2005 -- 2018	--	NT or Decreasing	NT or Decreasing ⁽¹⁾
MW 66	3d	WWTP, Tail	2005 -- 2018	--	Increasing ⁽¹⁾	-- (Increasing) ⁽⁵⁾
MW 68	3s	WWTP, Source	2005 -- 2018	Increasing	NT or Decreasing	NT or Decreasing
MW 75	3d	AOC 1, Margin	2005 -- 2018	--	--	--
MW 76/MW 76R-17	3s	AOC 1, Margin	2005 -- 2018	--	--	--
MW 79	3s	AOC 1, Tail	2005 -- 2018	--	Increasing	NT or Decreasing
MW 80	3d	WWTP, Margin	2005 -- 2018	--	--	NT or Decreasing
MW 81	B	WWTP, Margin	2005 -- 2018	--	Increasing ⁽¹⁾	Increasing
MW 82	B	AOC 1, Margin	2005 -- 2018	--	--	--
MW 83	B	WWTP, Margin	2005 -- 2018	--	--	Increasing ⁽¹⁾
MW 84	3S	WWTP, Margin	2005 -- 2018	--	--	--
MW 85	3d	WWTP, Tail	2008 -- 2018	--	Increasing	NT or Decreasing
MW 86	3d	WWTP, Tail	2010 -- 2018	--	--	--
MW 88	3d	WWTP, Tail	2010 -- 2018	--	--	Increasing ⁽¹⁾
MW 89-11	3s	AOC 1, Tail	2011 -- 2018	--	--	--
MW 97R-16	3d	WWTP, Margin	2016 -- 2018	--	--	--
Pond Intake ⁽²⁾	Surface Water	Surface Water	2005 -- 2018	--	Increasing ⁽¹⁾	Increasing ⁽¹⁾
Pond North ⁽²⁾	Surface Water	Surface Water	2005 -- 2018	--	Increasing ⁽¹⁾	Increasing ⁽¹⁾

Notes:

- (1) Trend 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 monitoring record, the assumption of data equally spaced through time was not met. Therefore supplementary tests were performed (see text for details).
- (4) Non-detect during 2018 (two events), but reporting limit is above previous detected values. Trend prior to the current year was NT or Decreasing.
- (5) Non-detect during 2018 (two events), but reporting limit is above previous detected values. Trend prior to the current year was Increasing.
- 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

Table 10

Trend Test Summary (Recent Period)
2018 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	2014 -- 2018	--	--	--
MW 3	3s	AOC 1, Source	2015 -- 2018	NT or Decreasing	NT or Decreasing	--
MW-4	3d	WWTP, Tail	2015 -- 2018	Increasing	NT or Decreasing	Increasing
MW-7	3d	WWTP, Margin	2017 -- 2018	--	--	--
MW 8	3s	AOC 1, Source	2015 -- 2018	NT or Decreasing	NT or Decreasing	NT or Decreasing
MW 12	3i	AOC 1, Tail	2015 -- 2018	--	NT or Decreasing	--
MW 14	3s	AOC 1, Tail	2015 -- 2018	--	NT or Decreasing	NT or Decreasing
MW 15	3s	AOC 1, Source	2014 -- 2018	NT or Decreasing	NT or Decreasing	--
MW 16	3s	AOC 1, Margin	2014 -- 2018	--	--	--
MW 21	3s	AOC 1, Margin	2015 -- 2018	--	--	--
MW 28	3d	WWTP, Tail	2015 -- 2018	--	Increasing	NT or Decreasing
MW 31R	1	AOC 1, Source	2015 -- 2018	--	Increasing	NT or Decreasing
MW 37	3s	AOC 1, Margin	2014 -- 2018	--	--	--
MW 40	3s	WWTP, Source	2015 -- 2018	NT or Decreasing	NT or Decreasing	NT or Decreasing
MW 41	3d	WWTP, Source	2015 -- 2018	--	NT or Decreasing	NT or Decreasing
MW 42	3s	WWTP, Source	2015 -- 2018	--	NT or Decreasing	NT or Decreasing
MW 46	3s	AOC 1, Margin	2014 -- 2018	--	--	--
MW 49	3s	AOC 1, Tail	2015 -- 2018	--	Increasing	--
MW 51	3s	AOC 1, Tail	2015 -- 2018	NT or Decreasing	Increasing	NT or Decreasing
MW 56	3d	WWTP, Margin	2014 -- 2018	--	--	--
MW 57	3d	WWTP, Margin	2014 -- 2018	--	--	NT or Decreasing
MW 58	3d	WWTP, Margin	2014 -- 2018	--	Increasing	NT or Decreasing
MW 61	3d	WWTP, Margin	2014 -- 2018	--	--	NT or Decreasing
MW 64	3d	WWTP, Margin	2014 -- 2018	--	NT or Decreasing	Increasing
MW 65	3d	WWTP, Margin	2014 -- 2018	--	NT or Decreasing	NT or Decreasing
MW 66	3d	WWTP, Tail	2015 -- 2018	--	Increasing	-- (NT or Decreasing) ⁽¹⁾
MW 68	3s	WWTP, Source	2015 -- 2018	NT or Decreasing	NT or Decreasing	NT or Decreasing
MW 75	3d	AOC 1, Margin	2014 -- 2018	--	--	--
MW 76/MW 76R-17	3s	AOC 1, Margin	2014 -- 2018	--	--	--
MW 79	3s	AOC 1, Tail	2015 -- 2018	--	NT or Decreasing	Increasing
MW 80	3d	WWTP, Margin	2014 -- 2018	--	NT or Decreasing	Increasing
MW 81	B	WWTP, Margin	2014 -- 2018	--	NT or Decreasing	NT or Decreasing
MW 82	B	AOC 1, Margin	2014 -- 2018	--	--	--
MW 83	B	WWTP, Margin	2014 -- 2018	--	--	Increasing
MW 84	3S	WWTP, Margin	2014 -- 2018	--	--	--
MW 85	3d	WWTP, Tail	2015 -- 2018	--	NT or Decreasing	NT or Decreasing
MW 86	3d	WWTP, Tail	2014 -- 2018	--	--	--
MW 88	3d	WWTP, Tail	2014 -- 2018	--	--	Increasing
MW 89-11	3s	AOC 1, Tail	2015 -- 2018	--	--	--
MW 97R-16	3d	WWTP, Margin	2016 -- 2018	--	--	--
Pond Intake	Surface Water	Surface Water	2016 -- 2018	--	NT or Decreasing	Increasing
Pond North	Surface Water	Surface Water	2016 -- 2018	--	NT or Decreasing	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

(1) Non-detect during 2018 (two events), but reporting limit is above previous detected values. Trend prior to the current year was NT or Decreasing.

Appendices

Appendix A

Laboratory Certificates of Analysis

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-102192-1

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:

10/17/2018 1:30:08 PM

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com

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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: 240-102192-1

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
H	Sample was prepped or analyzed beyond the specified holding time
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

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

TestAmerica Job ID: 240-102192-1

Job ID: 240-102192-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative 240-102192-1

Comments

No additional comments.

Receipt

The samples were received on 10/3/2018 10:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.5° C and 3.3° 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 240-349616.

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

Method(s) 300.0, 9056A: Reanalysis of the following sample was performed outside of the analytical holding time due to an auto-sampler malfunction which caused the instrument to stop in the middle of the run : GW-100218-AF-008 (240-102192-10).

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

Method Summary

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

TestAmerica Job ID: 240-102192-1

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
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CAN
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	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: 240-102192-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-102192-3	GW-100218-BE-005	Water	10/02/18 13:40	10/03/18 10:10
240-102192-4	GW-100218-BE-007	Water	10/02/18 14:57	10/03/18 10:10
240-102192-7	GW-100218-AF-002	Water	10/02/18 11:40	10/03/18 10:10
240-102192-8	GW-100218-AF-004	Water	10/02/18 13:40	10/03/18 10:10
240-102192-9	GW-100218-AF-006	Water	10/02/18 13:45	10/03/18 10:10
240-102192-10	GW-100218-AF-008	Water	10/02/18 16:00	10/03/18 10:10

Detection Summary

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

TestAmerica Job ID: 240-102192-1

Client Sample ID: GW-100218-BE-005

Lab Sample ID: 240-102192-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methane	14		1.0	0.17	ug/L	1			RSK-175	Total/NA
Manganese	260		15	2.1	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	32		1.0	0.28	mg/L	1			300.0	Total/NA
Sulfate	65		1.0	0.35	mg/L	1			300.0	Total/NA
Total Organic Carbon	2.5		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-100218-BE-007

Lab Sample ID: 240-102192-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methane	1300		1.0	0.17	ug/L	1			RSK-175	Total/NA
Ethylene	16		1.0	0.11	ug/L	1			RSK-175	Total/NA
Manganese	86		15	2.1	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	410		25	12	mg/L	1			2340C-1997	Total/NA
Chloride	45		1.0	0.28	mg/L	1			300.0	Total/NA
Sulfate	53		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	3.5		1.0	0.14	mg/L	1			9060	Dissolved

Client Sample ID: GW-100218-AF-002

Lab Sample ID: 240-102192-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methane	210		1.0	0.17	ug/L	1			RSK-175	Total/NA
Ethane	40		1.0	0.10	ug/L	1			RSK-175	Total/NA
Ethylene	100		1.0	0.11	ug/L	1			RSK-175	Total/NA
Manganese	590		15	2.1	ug/L	1			6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	400		5.0	2.6	mg/L	1			2320B-1997	Total/NA
Hardness as calcium carbonate	560		25	12	mg/L	1			2340C-1997	Total/NA
Chloride	14		1.0	0.28	mg/L	1			300.0	Total/NA
Sulfate	190		1.0	0.35	mg/L	1			300.0	Total/NA
Total Organic Carbon	2.2		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-100218-AF-004

Lab Sample ID: 240-102192-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methane	1600		1.0	0.17	ug/L	1			RSK-175	Total/NA
Ethane	150		1.0	0.10	ug/L	1			RSK-175	Total/NA
Ethylene	1700		1.0	0.11	ug/L	1			RSK-175	Total/NA
Manganese	420		15	2.1	ug/L	1			6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	500		5.0	2.6	mg/L	1			2320B-1997	Total/NA
Hardness as calcium carbonate	630		25	12	mg/L	1			2340C-1997	Total/NA
Chloride	64		1.0	0.28	mg/L	1			300.0	Total/NA
Sulfate	86		1.0	0.35	mg/L	1			300.0	Total/NA
Total Organic Carbon	11		2.0	0.28	mg/L	2			9060	Total/NA
Dissolved Organic Carbon	11		2.0	0.28	mg/L	2			9060	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

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

TestAmerica Job ID: 240-102192-1

Client Sample ID: GW-100218-AF-006

Lab Sample ID: 240-102192-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methane	1300		1.0	0.17	ug/L	1			RSK-175	Total/NA
Ethane	120		1.0	0.10	ug/L	1			RSK-175	Total/NA
Ethylene	1400		1.0	0.11	ug/L	1			RSK-175	Total/NA
Manganese	430		15	2.1	ug/L	1			6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	500		5.0	2.6	mg/L	1			2320B-1997	Total/NA
Hardness as calcium carbonate	630		25	12	mg/L	1			2340C-1997	Total/NA
Chloride	62		1.0	0.28	mg/L	1			300.0	Total/NA
Sulfate	87		1.0	0.35	mg/L	1			300.0	Total/NA
Total Organic Carbon	53		9.0	1.3	mg/L	9			9060	Total/NA
Dissolved Organic Carbon	12		2.0	0.28	mg/L	2			9060	Dissolved

Client Sample ID: GW-100218-AF-008

Lab Sample ID: 240-102192-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methane	6.9		1.0	0.17	ug/L	1			RSK-175	Total/NA
Ethane	3.4		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	250		15	2.1	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	350		25	12	mg/L	1			2340C-1997	Total/NA
Chloride	16		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	2.2		1.0	0.14	mg/L	1			9060	Total/NA
Dissolved Organic Carbon	2.2		1.0	0.14	mg/L	1			9060	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102192-1

Method: RSK-175 - Dissolved Gases (GC)

Client Sample ID: GW-100218-BE-005

Date Collected: 10/02/18 13:40

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	14		1.0	0.17	ug/L			10/11/18 17:34	1
Ethane	1.0	U	1.0	0.10	ug/L			10/11/18 17:34	1
Ethylene	1.0	U	1.0	0.11	ug/L			10/11/18 17:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	122		60 - 140					10/11/18 17:34	1

Client Sample ID: GW-100218-BE-007

Date Collected: 10/02/18 14:57

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	1300		1.0	0.17	ug/L			10/11/18 17:51	1
Ethane	1.0	U	1.0	0.10	ug/L			10/11/18 17:51	1
Ethylene	16		1.0	0.11	ug/L			10/11/18 17:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	120		60 - 140					10/11/18 17:51	1

Client Sample ID: GW-100218-AF-002

Date Collected: 10/02/18 11:40

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	210		1.0	0.17	ug/L			10/11/18 18:08	1
Ethane	40		1.0	0.10	ug/L			10/11/18 18:08	1
Ethylene	100		1.0	0.11	ug/L			10/11/18 18:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	118		60 - 140					10/11/18 18:08	1

Client Sample ID: GW-100218-AF-004

Date Collected: 10/02/18 13:40

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	1600		1.0	0.17	ug/L			10/11/18 18:25	1
Ethane	150		1.0	0.10	ug/L			10/11/18 18:25	1
Ethylene	1700		1.0	0.11	ug/L			10/11/18 18:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	114		60 - 140					10/11/18 18:25	1

Client Sample ID: GW-100218-AF-006

Date Collected: 10/02/18 13:45

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	1300		1.0	0.17	ug/L			10/11/18 18:59	1
Ethane	120		1.0	0.10	ug/L			10/11/18 18:59	1
Ethylene	1400		1.0	0.11	ug/L			10/11/18 18:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	112		60 - 140					10/11/18 18:59	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102192-1

Method: RSK-175 - Dissolved Gases (GC)

Client Sample ID: GW-100218-AF-008

Date Collected: 10/02/18 16:00

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-10

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	6.9		1.0	0.17	ug/L			10/11/18 19:16	1
Ethane	3.4		1.0	0.10	ug/L			10/11/18 19:16	1
Ethylene	2.3		1.0	0.11	ug/L			10/11/18 19:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	112		60 - 140					10/11/18 19:16	1

Client Sample Results

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

TestAmerica Job ID: 240-102192-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-100218-BE-005

Date Collected: 10/02/18 13:40

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	260		15	2.1	ug/L	—	10/04/18 14:00	10/05/18 12:17	1

Client Sample ID: GW-100218-BE-007

Date Collected: 10/02/18 14:57

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	86		15	2.1	ug/L	—	10/04/18 14:00	10/05/18 12:22	1

Client Sample ID: GW-100218-AF-002

Date Collected: 10/02/18 11:40

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	590		15	2.1	ug/L	—	10/04/18 14:00	10/05/18 12:26	1

Client Sample ID: GW-100218-AF-004

Date Collected: 10/02/18 13:40

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	420		15	2.1	ug/L	—	10/04/18 14:00	10/05/18 12:30	1

Client Sample ID: GW-100218-AF-006

Date Collected: 10/02/18 13:45

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	430		15	2.1	ug/L	—	10/04/18 14:00	10/05/18 12:35	1

Client Sample ID: GW-100218-AF-008

Date Collected: 10/02/18 16:00

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-10

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	250		15	2.1	ug/L	—	10/04/18 14:00	10/05/18 12:47	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102192-1

General Chemistry

Client Sample ID: GW-100218-BE-005

Date Collected: 10/02/18 13:40

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	330		5.0	2.6	mg/L			10/03/18 21:37	1
Carbonate Alkalinity as CaCO ₃	5.0	U	5.0	2.6	mg/L			10/03/18 21:37	1
Hardness as calcium carbonate	410		25	12	mg/L			10/16/18 14:23	1
Chloride	32		1.0	0.28	mg/L			10/03/18 13:42	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/03/18 13:42	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/03/18 13:42	1
Sulfate	65		1.0	0.35	mg/L			10/03/18 13:42	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/08/18 10:18	10/08/18 13:40	1
Total Organic Carbon	2.5		1.0	0.14	mg/L			10/08/18 13:12	1

Client Sample ID: GW-100218-BE-007

Date Collected: 10/02/18 14:57

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	340		5.0	2.6	mg/L			10/03/18 21:41	1
Carbonate Alkalinity as CaCO ₃	5.0	U	5.0	2.6	mg/L			10/03/18 21:41	1
Hardness as calcium carbonate	410		25	12	mg/L			10/16/18 14:56	1
Chloride	45		1.0	0.28	mg/L			10/03/18 14:02	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/03/18 14:02	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/03/18 14:02	1
Sulfate	53		1.0	0.35	mg/L			10/03/18 14:02	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/08/18 10:18	10/08/18 13:43	1
Total Organic Carbon	3.5		1.0	0.14	mg/L			10/08/18 13:54	1

Client Sample ID: GW-100218-AF-002

Date Collected: 10/02/18 11:40

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	400		5.0	2.6	mg/L			10/03/18 21:46	1
Carbonate Alkalinity as CaCO ₃	5.0	U	5.0	2.6	mg/L			10/03/18 21:46	1
Hardness as calcium carbonate	560		25	12	mg/L			10/16/18 15:18	1
Chloride	14		1.0	0.28	mg/L			10/03/18 16:44	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/03/18 16:44	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/03/18 16:44	1
Sulfate	190		1.0	0.35	mg/L			10/03/18 16:44	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/08/18 10:18	10/08/18 13:47	1
Total Organic Carbon	2.2		1.0	0.14	mg/L			10/08/18 14:20	1

Client Sample ID: GW-100218-AF-004

Date Collected: 10/02/18 13:40

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	500		5.0	2.6	mg/L			10/03/18 21:51	1
Carbonate Alkalinity as CaCO ₃	5.0	U	5.0	2.6	mg/L			10/03/18 21:51	1
Hardness as calcium carbonate	630		25	12	mg/L			10/16/18 15:29	1
Chloride	64		1.0	0.28	mg/L			10/03/18 17:24	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/03/18 17:24	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/03/18 17:24	1
Sulfate	86		1.0	0.35	mg/L			10/03/18 17:24	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/08/18 10:18	10/08/18 13:50	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102192-1

General Chemistry (Continued)

Client Sample ID: GW-100218-AF-004

Date Collected: 10/02/18 13:40

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	11		2.0	0.28	mg/L			10/08/18 14:46	2

Client Sample ID: GW-100218-AF-006

Date Collected: 10/02/18 13:45

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	500		5.0	2.6	mg/L			10/03/18 21:58	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/03/18 21:58	1
Hardness as calcium carbonate	630		25	12	mg/L			10/16/18 15:40	1
Chloride	62		1.0	0.28	mg/L			10/03/18 18:04	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/03/18 18:04	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/03/18 18:04	1
Sulfate	87		1.0	0.35	mg/L			10/03/18 18:04	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/08/18 10:18	10/08/18 13:53	1
Total Organic Carbon	53		9.0	1.3	mg/L			10/08/18 15:12	9

Client Sample ID: GW-100218-AF-008

Date Collected: 10/02/18 16:00

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-10

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	310		5.0	2.6	mg/L			10/03/18 22:03	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/03/18 22:03	1
Hardness as calcium carbonate	350		25	12	mg/L			10/16/18 15:51	1
Chloride	16		1.0	0.28	mg/L			10/04/18 16:19	1
Nitrite as N	0.10	U H	0.10	0.014	mg/L			10/04/18 16:19	1
Nitrate as N	0.10	U H	0.10	0.014	mg/L			10/04/18 16:19	1
Sulfate	51		1.0	0.35	mg/L			10/04/18 16:19	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/08/18 10:18	10/08/18 13:56	1
Total Organic Carbon	2.2		1.0	0.14	mg/L			10/08/18 15:54	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102192-1

General Chemistry - Dissolved

Client Sample ID: GW-100218-BE-005

Date Collected: 10/02/18 13:40

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	2.1		1.0	0.14	mg/L	-		10/11/18 11:17	1

Client Sample ID: GW-100218-BE-007

Date Collected: 10/02/18 14:57

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	3.5		1.0	0.14	mg/L	-		10/11/18 11:59	1

Client Sample ID: GW-100218-AF-002

Date Collected: 10/02/18 11:40

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	2.1		1.0	0.14	mg/L	-		10/11/18 12:24	1

Client Sample ID: GW-100218-AF-004

Date Collected: 10/02/18 13:40

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	11		2.0	0.28	mg/L	-		10/11/18 13:14	2

Client Sample ID: GW-100218-AF-006

Date Collected: 10/02/18 13:45

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	12		2.0	0.28	mg/L	-		10/11/18 13:40	2

Client Sample ID: GW-100218-AF-008

Date Collected: 10/02/18 16:00

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-10

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	2.2		1.0	0.14	mg/L	-		10/11/18 14:23	1

TestAmerica Canton

Surrogate Summary

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

TestAmerica Job ID: 240-102192-1

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TFE2 (60-140)
240-102192-3	GW-100218-BE-005	122
240-102192-4	GW-100218-BE-007	120
240-102192-7	GW-100218-AF-002	118
240-102192-8	GW-100218-AF-004	114
240-102192-9	GW-100218-AF-006	112
240-102192-10	GW-100218-AF-008	112
LCS 240-349616/5	Lab Control Sample	118
LCSD 240-349616/6	Lab Control Sample Dup	116
MB 240-349616/4	Method Blank	123

Surrogate Legend

TFE = 1,1,1-Trifluoroethane

QC Sample Results

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

TestAmerica Job ID: 240-102192-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 240-349616/4

Matrix: Water

Analysis Batch: 349616

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			10/11/18 14:26	1
Ethane	1.0	U	1.0	0.10	ug/L			10/11/18 14:26	1
Ethylene	1.0	U	1.0	0.11	ug/L			10/11/18 14:26	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	123		60 - 140					10/11/18 14:26	1

Lab Sample ID: LCS 240-349616/5

Matrix: Water

Analysis Batch: 349616

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methane	285	294		ug/L		103	80 - 120		
Ethane	536	512		ug/L		95	80 - 120		
Ethylene	501	482		ug/L		96	80 - 120		
Surrogate	%Recovery	LCS Qualifier	Limits						
1,1,1-Trifluoroethane	118		60 - 140						

Lab Sample ID: LCSD 240-349616/6

Matrix: Water

Analysis Batch: 349616

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	295		ug/L		104	80 - 120	1	35
Ethane	536	514		ug/L		96	80 - 120	0	35
Ethylene	501	482		ug/L		96	80 - 120	0	35
Surrogate	%Recovery	LCSD Qualifier	Limits						
1,1,1-Trifluoroethane	116		60 - 140						

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-348537/1-A

Matrix: Water

Analysis Batch: 348735

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 348537

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	15	U	15	2.1	ug/L		10/04/18 14:00	10/05/18 10:44	1

Lab Sample ID: LCS 240-348537/2-A

Matrix: Water

Analysis Batch: 348735

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 348537

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Manganese	500	492		ug/L		98	80 - 120		

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102192-1

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-348607/4

Matrix: Water

Analysis Batch: 348607

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 CaCO ₃	5.0	U	5.0	2.6	mg/L			10/03/18 20:21	1
Carbonate Alkalinity as CaCO ₃	5.0	U	5.0	2.6	mg/L			10/03/18 20:21	1

Method: 2340C-1997 - Hardness, Total

Lab Sample ID: MB 240-350356/1

Matrix: Water

Analysis Batch: 350356

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			10/16/18 14:01	1

Lab Sample ID: LCS 240-350356/2

Matrix: Water

Analysis Batch: 350356

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	207	208		mg/L		100	90 - 110

Lab Sample ID: 240-102192-3 MS

Matrix: Water

Analysis Batch: 350356

Client Sample ID: GW-100218-BE-005

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	1400		mg/L		99	80 - 120

Lab Sample ID: 240-102192-3 MSD

Matrix: Water

Analysis Batch: 350356

Client Sample ID: GW-100218-BE-005

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	1400		mg/L		99	80 - 120	0	10

Lab Sample ID: 240-102192-4 DU

Matrix: Water

Analysis Batch: 350356

Client Sample ID: GW-100218-BE-007

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Hardness as calcium carbonate	410		420		mg/L		2	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-348364/3

Matrix: Water

Analysis Batch: 348364

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			10/03/18 11:21	1
Sulfate	1.0	U	1.0	0.35	mg/L			10/03/18 11:21	1

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102192-1

Lab Sample ID: LCS 240-348364/4

Matrix: Water

Analysis Batch: 348364

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	51.1		mg/L		102	90 - 110
Sulfate	50.0	52.9		mg/L		106	90 - 110

Lab Sample ID: MB 240-348365/3

Matrix: Water

Analysis Batch: 348365

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			10/03/18 11:21	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/03/18 11:21	1

Lab Sample ID: LCS 240-348365/4

Matrix: Water

Analysis Batch: 348365

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	2.54		mg/L		101	90 - 110
Nitrate as N	2.50	2.67		mg/L		107	90 - 110

Lab Sample ID: MB 240-348554/25

Matrix: Water

Analysis Batch: 348554

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			10/04/18 19:46	1
Sulfate	1.0	U	1.0	0.35	mg/L			10/04/18 19:46	1

Lab Sample ID: LCS 240-348554/26

Matrix: Water

Analysis Batch: 348554

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	51.6		mg/L		103	90 - 110
Sulfate	50.0	52.4		mg/L		105	90 - 110

Lab Sample ID: 240-102192-10 MS

Matrix: Water

Analysis Batch: 348554

Client Sample ID: GW-100218-AF-008

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	16		50.0	66.3		mg/L		101	80 - 120
Sulfate	51		50.0	101		mg/L		99	80 - 120

Lab Sample ID: 240-102192-10 MSD

Matrix: Water

Analysis Batch: 348554

Client Sample ID: GW-100218-AF-008

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	16		50.0	67.9		mg/L		104	80 - 120	2	15
Sulfate	51		50.0	103		mg/L		103	80 - 120	2	15

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102192-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 240-348555/25

Matrix: Water

Analysis Batch: 348555

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			10/04/18 19:46	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/04/18 19:46	1

Lab Sample ID: LCS 240-348555/26

Matrix: Water

Analysis Batch: 348555

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	2.51		mg/L		101	90 - 110
Nitrate as N	2.50	2.61		mg/L		104	90 - 110

Lab Sample ID: 240-102192-10 MS

Matrix: Water

Analysis Batch: 348555

Client Sample ID: GW-100218-AF-008

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.10	U H	2.50	2.61		mg/L		104	80 - 120
Nitrate as N	0.10	U H	2.50	2.55		mg/L		102	80 - 120

Lab Sample ID: 240-102192-10 MSD

Matrix: Water

Analysis Batch: 348555

Client Sample ID: GW-100218-AF-008

Prep Type: Total/NA

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 H	2.50	2.69		mg/L		108	80 - 120	3	15
Nitrate as N	0.10	U H	2.50	2.63		mg/L		105	80 - 120	3	15

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-348967/1-A

Matrix: Water

Analysis Batch: 349017

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 348967

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	3.0	U	3.0	1.4	mg/L		10/08/18 10:18	10/08/18 13:15	1

Lab Sample ID: LCS 240-348967/2-A

Matrix: Water

Analysis Batch: 349017

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 348967

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	8.00	7.60		mg/L		95	70 - 120

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102192-1

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 240-349236/4

Matrix: Water

Analysis Batch: 349236

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			10/08/18 12:47	1

Lab Sample ID: LCS 240-349236/6

Matrix: Water

Analysis Batch: 349236

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	22.1	22.8		mg/L		103	80 - 120

Lab Sample ID: LLCS 240-349236/5

Matrix: Water

Analysis Batch: 349236

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	5.53	5.60		mg/L		101	88 - 115

Lab Sample ID: 240-102192-3 MS

Matrix: Water

Analysis Batch: 349236

Client Sample ID: GW-100218-BE-005

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	2.5		12.5	14.9		mg/L		99	65 - 134

Lab Sample ID: 240-102192-3 MSD

Matrix: Water

Analysis Batch: 349236

Client Sample ID: GW-100218-BE-005

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Total Organic Carbon	2.5		12.5	15.0		mg/L		100	65 - 134	1	10

Method: 9060 - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 240-349758/4

Matrix: Water

Analysis Batch: 349758

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			10/11/18 11:00	1

Lab Sample ID: LLCS 240-349758/5

Matrix: Water

Analysis Batch: 349758

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	5.53	5.51		mg/L		100	88 - 115

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102192-1

Method: 9060 - Organic Carbon, Dissolved (DOC) (Continued)

Lab Sample ID: 240-102192-3 MS

Matrix: Water

Analysis Batch: 349758

Client Sample ID: GW-100218-BE-005

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	2.3		5.00	7.34		mg/L		100	65 - 134

Lab Sample ID: 240-102192-3 MSD

Matrix: Water

Analysis Batch: 349758

Client Sample ID: GW-100218-BE-005

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	2.3		5.00	7.35		mg/L		101	65 - 134	0	10

QC Association Summary

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

TestAmerica Job ID: 240-102192-1

GC VOA

Analysis Batch: 349616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102192-3	GW-100218-BE-005	Total/NA	Water	RSK-175	
240-102192-4	GW-100218-BE-007	Total/NA	Water	RSK-175	
240-102192-7	GW-100218-AF-002	Total/NA	Water	RSK-175	
240-102192-8	GW-100218-AF-004	Total/NA	Water	RSK-175	
240-102192-9	GW-100218-AF-006	Total/NA	Water	RSK-175	
240-102192-10	GW-100218-AF-008	Total/NA	Water	RSK-175	
MB 240-349616/4	Method Blank	Total/NA	Water	RSK-175	
LCS 240-349616/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 240-349616/6	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Metals

Prep Batch: 348537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102192-3	GW-100218-BE-005	Dissolved	Water	3005A	
240-102192-4	GW-100218-BE-007	Dissolved	Water	3005A	
240-102192-7	GW-100218-AF-002	Dissolved	Water	3005A	
240-102192-8	GW-100218-AF-004	Dissolved	Water	3005A	
240-102192-9	GW-100218-AF-006	Dissolved	Water	3005A	
240-102192-10	GW-100218-AF-008	Dissolved	Water	3005A	
MB 240-348537/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-348537/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 348735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102192-3	GW-100218-BE-005	Dissolved	Water	6010B	348537
240-102192-4	GW-100218-BE-007	Dissolved	Water	6010B	348537
240-102192-7	GW-100218-AF-002	Dissolved	Water	6010B	348537
240-102192-8	GW-100218-AF-004	Dissolved	Water	6010B	348537
240-102192-9	GW-100218-AF-006	Dissolved	Water	6010B	348537
240-102192-10	GW-100218-AF-008	Dissolved	Water	6010B	348537
MB 240-348537/1-A	Method Blank	Total Recoverable	Water	6010B	348537
LCS 240-348537/2-A	Lab Control Sample	Total Recoverable	Water	6010B	348537

General Chemistry

Analysis Batch: 348364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102192-3	GW-100218-BE-005	Total/NA	Water	300.0	
240-102192-4	GW-100218-BE-007	Total/NA	Water	300.0	
240-102192-7	GW-100218-AF-002	Total/NA	Water	300.0	
240-102192-8	GW-100218-AF-004	Total/NA	Water	300.0	
240-102192-9	GW-100218-AF-006	Total/NA	Water	300.0	
MB 240-348364/3	Method Blank	Total/NA	Water	300.0	
LCS 240-348364/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 348365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102192-3	GW-100218-BE-005	Total/NA	Water	300.0	
240-102192-4	GW-100218-BE-007	Total/NA	Water	300.0	

TestAmerica Canton

QC Association Summary

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

TestAmerica Job ID: 240-102192-1

General Chemistry (Continued)

Analysis Batch: 348365 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102192-7	GW-100218-AF-002	Total/NA	Water	300.0	
240-102192-8	GW-100218-AF-004	Total/NA	Water	300.0	
240-102192-9	GW-100218-AF-006	Total/NA	Water	300.0	
MB 240-348365/3	Method Blank	Total/NA	Water	300.0	
LCS 240-348365/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 348554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102192-10	GW-100218-AF-008	Total/NA	Water	300.0	
MB 240-348554/25	Method Blank	Total/NA	Water	300.0	
LCS 240-348554/26	Lab Control Sample	Total/NA	Water	300.0	
240-102192-10 MS	GW-100218-AF-008	Total/NA	Water	300.0	
240-102192-10 MSD	GW-100218-AF-008	Total/NA	Water	300.0	

Analysis Batch: 348555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102192-10	GW-100218-AF-008	Total/NA	Water	300.0	
MB 240-348555/25	Method Blank	Total/NA	Water	300.0	
LCS 240-348555/26	Lab Control Sample	Total/NA	Water	300.0	
240-102192-10 MS	GW-100218-AF-008	Total/NA	Water	300.0	
240-102192-10 MSD	GW-100218-AF-008	Total/NA	Water	300.0	

Analysis Batch: 348607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102192-3	GW-100218-BE-005	Total/NA	Water	2320B-1997	
240-102192-4	GW-100218-BE-007	Total/NA	Water	2320B-1997	
240-102192-7	GW-100218-AF-002	Total/NA	Water	2320B-1997	
240-102192-8	GW-100218-AF-004	Total/NA	Water	2320B-1997	
240-102192-9	GW-100218-AF-006	Total/NA	Water	2320B-1997	
240-102192-10	GW-100218-AF-008	Total/NA	Water	2320B-1997	
MB 240-348607/4	Method Blank	Total/NA	Water	2320B-1997	

Prep Batch: 348967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102192-3	GW-100218-BE-005	Total/NA	Water	9030B	
240-102192-4	GW-100218-BE-007	Total/NA	Water	9030B	
240-102192-7	GW-100218-AF-002	Total/NA	Water	9030B	
240-102192-8	GW-100218-AF-004	Total/NA	Water	9030B	
240-102192-9	GW-100218-AF-006	Total/NA	Water	9030B	
240-102192-10	GW-100218-AF-008	Total/NA	Water	9030B	
MB 240-348967/1-A	Method Blank	Total/NA	Water	9030B	
LCS 240-348967/2-A	Lab Control Sample	Total/NA	Water	9030B	

Analysis Batch: 349017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102192-3	GW-100218-BE-005	Total/NA	Water	9034	348967
240-102192-4	GW-100218-BE-007	Total/NA	Water	9034	348967
240-102192-7	GW-100218-AF-002	Total/NA	Water	9034	348967
240-102192-8	GW-100218-AF-004	Total/NA	Water	9034	348967
240-102192-9	GW-100218-AF-006	Total/NA	Water	9034	348967
240-102192-10	GW-100218-AF-008	Total/NA	Water	9034	348967

TestAmerica Canton

QC Association Summary

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

TestAmerica Job ID: 240-102192-1

General Chemistry (Continued)

Analysis Batch: 349017 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-348967/1-A	Method Blank	Total/NA	Water	9034	348967
LCS 240-348967/2-A	Lab Control Sample	Total/NA	Water	9034	348967

Analysis Batch: 349236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102192-3	GW-100218-BE-005	Total/NA	Water	9060	
240-102192-4	GW-100218-BE-007	Total/NA	Water	9060	
240-102192-7	GW-100218-AF-002	Total/NA	Water	9060	
240-102192-8	GW-100218-AF-004	Total/NA	Water	9060	
240-102192-9	GW-100218-AF-006	Total/NA	Water	9060	
240-102192-10	GW-100218-AF-008	Total/NA	Water	9060	
MB 240-349236/4	Method Blank	Total/NA	Water	9060	
LCS 240-349236/6	Lab Control Sample	Total/NA	Water	9060	
LLCS 240-349236/5	Lab Control Sample	Total/NA	Water	9060	
240-102192-3 MS	GW-100218-BE-005	Total/NA	Water	9060	
240-102192-3 MSD	GW-100218-BE-005	Total/NA	Water	9060	

Analysis Batch: 349758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102192-3	GW-100218-BE-005	Dissolved	Water	9060	
240-102192-4	GW-100218-BE-007	Dissolved	Water	9060	
240-102192-7	GW-100218-AF-002	Dissolved	Water	9060	
240-102192-8	GW-100218-AF-004	Dissolved	Water	9060	
240-102192-9	GW-100218-AF-006	Dissolved	Water	9060	
240-102192-10	GW-100218-AF-008	Dissolved	Water	9060	
MB 240-349758/4	Method Blank	Dissolved	Water	9060	
LLCS 240-349758/5	Lab Control Sample	Dissolved	Water	9060	
240-102192-3 MS	GW-100218-BE-005	Dissolved	Water	9060	
240-102192-3 MSD	GW-100218-BE-005	Dissolved	Water	9060	

Analysis Batch: 350356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102192-3	GW-100218-BE-005	Total/NA	Water	2340C-1997	
240-102192-4	GW-100218-BE-007	Total/NA	Water	2340C-1997	
240-102192-7	GW-100218-AF-002	Total/NA	Water	2340C-1997	
240-102192-8	GW-100218-AF-004	Total/NA	Water	2340C-1997	
240-102192-9	GW-100218-AF-006	Total/NA	Water	2340C-1997	
240-102192-10	GW-100218-AF-008	Total/NA	Water	2340C-1997	
MB 240-350356/1	Method Blank	Total/NA	Water	2340C-1997	
LCS 240-350356/2	Lab Control Sample	Total/NA	Water	2340C-1997	
240-102192-3 MS	GW-100218-BE-005	Total/NA	Water	2340C-1997	
240-102192-3 MSD	GW-100218-BE-005	Total/NA	Water	2340C-1997	
240-102192-4 DU	GW-100218-BE-007	Total/NA	Water	2340C-1997	

TestAmerica Canton

Lab Chronicle

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

TestAmerica Job ID: 240-102192-1

Client Sample ID: GW-100218-BE-005

Date Collected: 10/02/18 13:40

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	349616	10/11/18 17:34	BPM	TAL CAN
Dissolved	Prep	3005A			348537	10/04/18 14:00	WKD	TAL CAN
Dissolved	Analysis	6010B		1	348735	10/05/18 12:17	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	348607	10/03/18 21:37	JESW	TAL CAN
Total/NA	Analysis	2340C-1997		1	350356	10/16/18 14:23	JESW	TAL CAN
Total/NA	Analysis	300.0		1	348364	10/03/18 13:42	JWW	TAL CAN
Total/NA	Analysis	300.0		1	348365	10/03/18 13:42	JWW	TAL CAN
Total/NA	Prep	9030B			348967	10/08/18 10:18	JMB	TAL CAN
Total/NA	Analysis	9034		1	349017	10/08/18 13:40	JMB	TAL CAN
Dissolved	Analysis	9060		1	349758	10/11/18 11:17	TPH	TAL CAN
Total/NA	Analysis	9060		1	349236	10/08/18 13:12	TPH	TAL CAN

Client Sample ID: GW-100218-BE-007

Date Collected: 10/02/18 14:57

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	349616	10/11/18 17:51	BPM	TAL CAN
Dissolved	Prep	3005A			348537	10/04/18 14:00	WKD	TAL CAN
Dissolved	Analysis	6010B		1	348735	10/05/18 12:22	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	348607	10/03/18 21:41	JESW	TAL CAN
Total/NA	Analysis	2340C-1997		1	350356	10/16/18 14:56	JESW	TAL CAN
Total/NA	Analysis	300.0		1	348364	10/03/18 14:02	JWW	TAL CAN
Total/NA	Analysis	300.0		1	348365	10/03/18 14:02	JWW	TAL CAN
Total/NA	Prep	9030B			348967	10/08/18 10:18	JMB	TAL CAN
Total/NA	Analysis	9034		1	349017	10/08/18 13:43	JMB	TAL CAN
Dissolved	Analysis	9060		1	349758	10/11/18 11:59	TPH	TAL CAN
Total/NA	Analysis	9060		1	349236	10/08/18 13:54	TPH	TAL CAN

Client Sample ID: GW-100218-AF-002

Date Collected: 10/02/18 11:40

Date Received: 10/03/18 10:10

Lab Sample ID: 240-102192-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	349616	10/11/18 18:08	BPM	TAL CAN
Dissolved	Prep	3005A			348537	10/04/18 14:00	WKD	TAL CAN
Dissolved	Analysis	6010B		1	348735	10/05/18 12:26	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	348607	10/03/18 21:46	JESW	TAL CAN
Total/NA	Analysis	2340C-1997		1	350356	10/16/18 15:18	JESW	TAL CAN
Total/NA	Analysis	300.0		1	348364	10/03/18 16:44	JWW	TAL CAN
Total/NA	Analysis	300.0		1	348365	10/03/18 16:44	JWW	TAL CAN

TestAmerica Canton

Lab Chronicle

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

TestAmerica Job ID: 240-102192-1

Client Sample ID: GW-100218-AF-002

Lab Sample ID: 240-102192-7

Date Collected: 10/02/18 11:40

Matrix: Water

Date Received: 10/03/18 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9030B			348967	10/08/18 10:18	JMB	TAL CAN
Total/NA	Analysis	9034		1	349017	10/08/18 13:47	JMB	TAL CAN
Dissolved	Analysis	9060		1	349758	10/11/18 12:24	TPH	TAL CAN
Total/NA	Analysis	9060		1	349236	10/08/18 14:20	TPH	TAL CAN

Client Sample ID: GW-100218-AF-004

Lab Sample ID: 240-102192-8

Date Collected: 10/02/18 13:40

Matrix: Water

Date Received: 10/03/18 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	349616	10/11/18 18:25	BPM	TAL CAN
Dissolved	Prep	3005A			348537	10/04/18 14:00	WKD	TAL CAN
Dissolved	Analysis	6010B		1	348735	10/05/18 12:30	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	348607	10/03/18 21:51	JESW	TAL CAN
Total/NA	Analysis	2340C-1997		1	350356	10/16/18 15:29	JESW	TAL CAN
Total/NA	Analysis	300.0		1	348364	10/03/18 17:24	JWW	TAL CAN
Total/NA	Analysis	300.0		1	348365	10/03/18 17:24	JWW	TAL CAN
Total/NA	Prep	9030B			348967	10/08/18 10:18	JMB	TAL CAN
Total/NA	Analysis	9034		1	349017	10/08/18 13:50	JMB	TAL CAN
Dissolved	Analysis	9060		2	349758	10/11/18 13:14	TPH	TAL CAN
Total/NA	Analysis	9060		2	349236	10/08/18 14:46	TPH	TAL CAN

Client Sample ID: GW-100218-AF-006

Lab Sample ID: 240-102192-9

Date Collected: 10/02/18 13:45

Matrix: Water

Date Received: 10/03/18 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	349616	10/11/18 18:59	BPM	TAL CAN
Dissolved	Prep	3005A			348537	10/04/18 14:00	WKD	TAL CAN
Dissolved	Analysis	6010B		1	348735	10/05/18 12:35	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	348607	10/03/18 21:58	JESW	TAL CAN
Total/NA	Analysis	2340C-1997		1	350356	10/16/18 15:40	JESW	TAL CAN
Total/NA	Analysis	300.0		1	348364	10/03/18 18:04	JWW	TAL CAN
Total/NA	Analysis	300.0		1	348365	10/03/18 18:04	JWW	TAL CAN
Total/NA	Prep	9030B			348967	10/08/18 10:18	JMB	TAL CAN
Total/NA	Analysis	9034		1	349017	10/08/18 13:53	JMB	TAL CAN
Dissolved	Analysis	9060		2	349758	10/11/18 13:40	TPH	TAL CAN
Total/NA	Analysis	9060		9	349236	10/08/18 15:12	TPH	TAL CAN

TestAmerica Canton

Lab Chronicle

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

TestAmerica Job ID: 240-102192-1

Client Sample ID: GW-100218-AF-008

Lab Sample ID: 240-102192-10

Date Collected: 10/02/18 16:00

Matrix: Water

Date Received: 10/03/18 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	349616	10/11/18 19:16	BPM	TAL CAN
Dissolved	Prep	3005A			348537	10/04/18 14:00	WKD	TAL CAN
Dissolved	Analysis	6010B		1	348735	10/05/18 12:47	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	348607	10/03/18 22:03	JESW	TAL CAN
Total/NA	Analysis	2340C-1997		1	350356	10/16/18 15:51	JESW	TAL CAN
Total/NA	Analysis	300.0		1	348554	10/04/18 16:19	JWW	TAL CAN
Total/NA	Analysis	300.0		1	348555	10/04/18 16:19	JWW	TAL CAN
Total/NA	Prep	9030B			348967	10/08/18 10:18	JMB	TAL CAN
Total/NA	Analysis	9034		1	349017	10/08/18 13:56	JMB	TAL CAN
Dissolved	Analysis	9060		1	349758	10/11/18 14:23	TPH	TAL CAN
Total/NA	Analysis	9060		1	349236	10/08/18 15:54	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: 240-102192-1

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	02-23-19
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-19
Illinois	NELAP	5	200004	07-31-19
Kansas	NELAP	7	E-10336	01-31-19
Kentucky (UST)	State Program	4	58	02-23-19
Kentucky (WW)	State Program	4	98016	12-31-18 *
Minnesota	NELAP	5	039-999-348	12-31-18 *
Minnesota (Petrofund)	State Program	1	3506	07-31-19
Nevada	State Program	9	OH00048	07-31-19
New Jersey	NELAP	2	OH001	06-30-19
New York	NELAP	2	10975	03-31-19
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-19
Pennsylvania	NELAP	3	68-00340	08-31-19 *
Texas	NELAP	6	T104704517-17-9	08-31-19
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-19
Washington	State Program	10	C971	01-12-19
West Virginia DEP	State Program	3	210	12-31-18 *

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

TestAmerica Canton



24/C33
CONESTOGA-ROVERS
& ASSOCIATES

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: IN-14303
PAGE 1 OF 1
(See Reverse Side for Instructions)

Project No/Phase/Task Code: 017302A-707-			Laboratory Name: Test America			Lab Location: Normal, Indiana			SSOW ID:		
Project Name: RACER Delphi GW			Lab Contact: Denix Heckler			Lab Quote No:			Cooler No: 1052		
Project Location: Anderson, IN			CONTAINER QUANTITY & PRESERVATION			ANALYSIS REQUESTED (See Back of COC for Definitions)			Carrier: FedEx		
Chemistry Contact: Deborah Anderson			SAMPLE TYPE			Total Containers/Sample			Airbill No:		
Sampler(s): Bryan Enecker			Matrix Code			Other:			Date Shipped: 10/21/18		
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)			DATE (mm/dd/yyyy)			TIME (hh:mm)			COMMENTS/SPECIAL INSTRUCTIONS:		
1 GW-100218-BE-001			10/21/18			1108					
2 -003			10/21/18			1230					
3 -005			10/21/18			1340					
4 -007			10/21/18			1457					
5 GW-100218-BE-009			10/21/18			1647					
6 TB-100218-BE-			10/21/18			1707					
7											
8											
9											
10											
11											
12											
13											
14											

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

Notes/Special Requirements:

Barcode: 240-102192 Chain of Custody

Relinquished By: Bryan Enecker

Company: GHTD

Date: 10/21/18

Time: 1800

Received By: [Signature]

Company: TAC

Date: 10/30/18

Time: 1010



CONESTOGA-ROVERS
& ASSOCIATES

1.6/C2.5

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: IN-14304
PAGE 1 OF 1
(See Reverse Side for Instructions)

Project No/Phase/Task Code: 017302-T07			Laboratory Name: Test America			Lab Location: North Canton, OH			SSOW ID: 017302-T07		
Project Name: MLK - Anderson, IN - GW Sampling			Lab Contact: D. Hecker			Lab Quote No:			Cooler No: 2012		
Project Location: Anderson, IN			Container Quantity & Preservation			Analysis Requested (See Back of COC for Definitions)			Carrier: FedEx		
Chemistry Contact: D. Andrasko			Sample Type			Total Containers/Sample			Airbill No:		
Sampler(s): A. Feldman			Matrix Code			Other: 3x5g, 1x25g			Date Shipped: 10/02/18		
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)			DATE (mm/dd/yyyy)			TIME (hh:mm)			COMMENTS/SPECIAL INSTRUCTIONS:		
1 GW-100218-AF-002			10/02/18			140			X VOC		
2 GW-100218-AF-004			1340			17			X VOC		
3 GW-100218-AF-006			1345			17			X VOC		
4 GW-100218-AF-008			1600			17			X VOC		
5 TB-100213-AF-002			1900			1			X VOC		
TAT Required in business days (use separate COCs for different TATs):			DATE			TIME			Notes/ Special Requirements:		
☐ 1 Day ☐ 2 Days ☐ 3 Days ☒ 2 Week ☐ Other:			10/02/18			1900			Total Number of Containers: 69		
RELINQUISHED BY: A. Feldman			COMPANY: GHD			RECEIVED BY: D. Hecker			All Samples in Cooler must be on COC		
1. [Signature]			DATE: 10/02/18			TIME: 1900			COMPANY: TAC		
2. [Signature]			DATE:			TIME:			DATE: 10/03/18		
3. [Signature]			DATE:			TIME:			DATE: 10/03/18		

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

WHITE - Fully Executed Copy (CRA)

YELLOW - Receiving Laboratory Copy

PINK - Shipper

GOLDENROD - Sampling Crew

CRA Form COC-10A (20110804)

1
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TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 102192

Client CHD Site Name _____ Cooler unpacked by: DeD
 Cooler Received on 10/03/18 Opened on 10/03/18
 FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

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

TestAmerica Cooler # 7A Foam Box Client Cooler Box Other _____
 Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Water Blue Ice Dry Ice Water None See Multiple Cooler Form

1. Cooler temperature upon receipt
 IR GUN# IR-8 (CF +0.9 °C) Observed Cooler Temp. 4.6 °C Corrected Cooler Temp. 2.5 °C
 IR GUN #36 (CF +0.6 °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
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC849161
13. Were VOAs on the COC? Yes No
14. Were air bubbles >6 mm in any VOA vials?  Larger than this. Yes No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # N/A Yes No
16. 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 _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: DeD

18. 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)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Preservative</u> <u>Added (mls)</u>	<u>Lot #</u>
GW-100218-BE-005	240-102192-N-3	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100218-BE-005	240-102192-P-3	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100218-BE-005	240-102192-Q-3	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100218-BE-007	240-102192-N-4	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100218-BE-007	240-102192-P-4	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100218-BE-007	240-102192-Q-4	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100218-AF-002	240-102192-N-7	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100218-AF-002	240-102192-P-7	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100218-AF-002	240-102192-Q-7	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100218-AF-004	240-102192-N-8	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100218-AF-004	240-102192-P-8	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100218-AF-004	240-102192-Q-8	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100218-AF-006	240-102192-N-9	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100218-AF-006	240-102192-P-9	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100218-AF-006	240-102192-Q-9	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100218-AF-008	240-102192-N-10	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100218-AF-008	240-102192-P-10	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100218-AF-008	240-102192-Q-10	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-102293-1

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:

10/17/2018 12:55:08 PM

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



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: 240-102293-1

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.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	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: 240-102293-1

Job ID: 240-102293-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-102293-1

Comments

No additional comments.

Receipt

The samples were received on 10/4/2018 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.9° C, 3.3° C and 3.5° C.

GC VOA

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

Metals

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

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: 240-102293-1

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
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CAN
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	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: 240-102293-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-102293-1	GW-100318-BE-011	Water	10/03/18 10:18	10/04/18 09:30
240-102293-2	GW-100318-AF-010	Water	10/03/18 10:30	10/04/18 09:30
240-102293-3	GW-100318-BE-013	Water	10/03/18 11:26	10/04/18 09:30
240-102293-4	GW-100318-AF-012	Water	10/03/18 13:00	10/04/18 09:30
240-102293-5	GW-100318-BE-015	Water	10/03/18 13:18	10/04/18 09:30
240-102293-6	GW-100318-BE-017	Water	10/03/18 14:53	10/04/18 09:30
240-102293-8	GW-100318-BE-019	Water	10/03/18 14:56	10/04/18 09:30
240-102293-13	GW-100318-BE-011	Water	10/03/18 10:18	10/04/18 09:30
240-102293-14	GW-100318-BE-013	Water	10/03/18 11:26	10/04/18 09:30
240-102293-15	GW-100318-BE-015	Water	10/03/18 13:18	10/04/18 09:30
240-102293-16	GW-100318-BE-017	Water	10/03/18 14:53	10/04/18 09:30
240-102293-17	GW-100318-BE-019	Water	10/03/18 14:56	10/04/18 09:30
240-102293-18	GW-100318-AF-010	Water	10/03/18 10:30	10/04/18 09:30
240-102293-19	GW-100318-AF-012	Water	10/03/18 13:00	10/04/18 09:30

Detection Summary

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

TestAmerica Job ID: 240-102293-1

Client Sample ID: GW-100318-BE-011

Lab Sample ID: 240-102293-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methane	15		1.0	0.17	ug/L	1			RSK-175	Total/NA
Ethane	3.4		1.0	0.10	ug/L	1			RSK-175	Total/NA
Total Organic Carbon	1.1		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-100318-AF-010

Lab Sample ID: 240-102293-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methane	17		1.0	0.17	ug/L	1			RSK-175	Total/NA
Ethane	2.1		1.0	0.10	ug/L	1			RSK-175	Total/NA
Total Organic Carbon	3.4		1.0	0.14	mg/L	1			9060	Total/NA
Dissolved Organic Carbon	3.4		1.0	0.14	mg/L	1			9060	Dissolved

Client Sample ID: GW-100318-BE-013

Lab Sample ID: 240-102293-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methane	56		1.0	0.17	ug/L	1			RSK-175	Total/NA
Ethylene	12		1.0	0.11	ug/L	1			RSK-175	Total/NA
Total Organic Carbon	1.2		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-100318-AF-012

Lab Sample ID: 240-102293-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methane	100		1.0	0.17	ug/L	1			RSK-175	Total/NA
Total Organic Carbon	2.8		1.0	0.14	mg/L	1			9060	Total/NA
Dissolved Organic Carbon	1.8		1.0	0.14	mg/L	1			9060	Dissolved

Client Sample ID: GW-100318-BE-015

Lab Sample ID: 240-102293-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methane	73		1.0	0.17	ug/L	1			RSK-175	Total/NA
Total Organic Carbon	2.4		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-100318-BE-017

Lab Sample ID: 240-102293-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methane	4.2		1.0	0.17	ug/L	1			RSK-175	Total/NA
Total Organic Carbon	0.72	J	1.0	0.14	mg/L	1			9060	Total/NA
Dissolved Organic Carbon	1.2		1.0	0.14	mg/L	1			9060	Dissolved

Client Sample ID: GW-100318-BE-019

Lab Sample ID: 240-102293-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methane	4.2		1.0	0.17	ug/L	1			RSK-175	Total/NA
Total Organic Carbon	1.3		1.0	0.14	mg/L	1			9060	Total/NA
Dissolved Organic Carbon	1.4		1.0	0.14	mg/L	1			9060	Dissolved

Client Sample ID: GW-100318-BE-011

Lab Sample ID: 240-102293-13

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

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

TestAmerica Job ID: 240-102293-1

Client Sample ID: GW-100318-BE-011 (Continued)

Lab Sample ID: 240-102293-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Manganese	140		15	2.1	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	490		25	12	mg/L	1			2340C-1997	Total/NA
Chloride	33		1.0	0.28	mg/L	1			300.0	Total/NA
Sulfate	82		1.0	0.35	mg/L	1			300.0	Total/NA

Client Sample ID: GW-100318-BE-013

Lab Sample ID: 240-102293-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Manganese	110		15	2.1	ug/L	1			6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	320		5.0	2.6	mg/L	1			2320B-1997	Total/NA
Hardness as calcium carbonate	390		5.0	2.4	mg/L	1			2340C-1997	Total/NA
Chloride	42		1.0	0.28	mg/L	1			300.0	Total/NA
Sulfate	67		1.0	0.35	mg/L	1			300.0	Total/NA

Client Sample ID: GW-100318-BE-015

Lab Sample ID: 240-102293-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Manganese	210		15	2.1	ug/L	1			6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	290		5.0	2.6	mg/L	1			2320B-1997	Total/NA
Hardness as calcium carbonate	380		5.0	2.4	mg/L	1			2340C-1997	Total/NA
Chloride	45		1.0	0.28	mg/L	1			300.0	Total/NA
Sulfate	65		1.0	0.35	mg/L	1			300.0	Total/NA

Client Sample ID: GW-100318-BE-017

Lab Sample ID: 240-102293-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Manganese	250		15	2.1	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	360		5.0	2.4	mg/L	1			2340C-1997	Total/NA
Chloride	48		1.0	0.28	mg/L	1			300.0	Total/NA
Sulfate	70		1.0	0.35	mg/L	1			300.0	Total/NA

Client Sample ID: GW-100318-BE-019

Lab Sample ID: 240-102293-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Manganese	290		15	2.1	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	360		5.0	2.4	mg/L	1			2340C-1997	Total/NA
Chloride	48		1.0	0.28	mg/L	1			300.0	Total/NA
Sulfate	70		1.0	0.35	mg/L	1			300.0	Total/NA

Client Sample ID: GW-100318-AF-010

Lab Sample ID: 240-102293-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Manganese	380		15	2.1	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	340		5.0	2.4	mg/L	1			2340C-1997	Total/NA
Chloride	6.6		1.0	0.28	mg/L	1			300.0	Total/NA
Nitrite as N	0.075	J	0.10	0.014	mg/L	1			300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

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

TestAmerica Job ID: 240-102293-1

Client Sample ID: GW-100318-AF-010 (Continued)

Lab Sample ID: 240-102293-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	0.52		0.10	0.014	mg/L	1		300.0	Total/NA
Sulfate	51		1.0	0.35	mg/L	1		300.0	Total/NA

Client Sample ID: GW-100318-AF-012

Lab Sample ID: 240-102293-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	180		15	2.1	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	380		5.0	2.4	mg/L	1		2340C-1997	Total/NA
Chloride	21		1.0	0.28	mg/L	1		300.0	Total/NA
Sulfate	40		1.0	0.35	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102293-1

Method: RSK-175 - Dissolved Gases (GC)

Client Sample ID: GW-100318-BE-011

Date Collected: 10/03/18 10:18

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	15		1.0	0.17	ug/L			10/16/18 04:29	1
Ethane	3.4		1.0	0.10	ug/L			10/16/18 04:29	1
Ethylene	1.0	U	1.0	0.11	ug/L			10/16/18 04:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	111		60 - 140					10/16/18 04:29	1

Client Sample ID: GW-100318-AF-010

Date Collected: 10/03/18 10:30

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	17		1.0	0.17	ug/L			10/16/18 04:45	1
Ethane	2.1		1.0	0.10	ug/L			10/16/18 04:45	1
Ethylene	1.0	U	1.0	0.11	ug/L			10/16/18 04:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	110		60 - 140					10/16/18 04:45	1

Client Sample ID: GW-100318-BE-013

Date Collected: 10/03/18 11:26

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	56		1.0	0.17	ug/L			10/16/18 05:36	1
Ethane	1.0	U	1.0	0.10	ug/L			10/16/18 05:36	1
Ethylene	12		1.0	0.11	ug/L			10/16/18 05:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	110		60 - 140					10/16/18 05:36	1

Client Sample ID: GW-100318-AF-012

Date Collected: 10/03/18 13:00

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	100		1.0	0.17	ug/L			10/16/18 05:52	1
Ethane	1.0	U	1.0	0.10	ug/L			10/16/18 05:52	1
Ethylene	1.0	U	1.0	0.11	ug/L			10/16/18 05:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	110		60 - 140					10/16/18 05:52	1

Client Sample ID: GW-100318-BE-015

Date Collected: 10/03/18 13:18

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	73		1.0	0.17	ug/L			10/16/18 06:09	1
Ethane	1.0	U	1.0	0.10	ug/L			10/16/18 06:09	1
Ethylene	1.0	U	1.0	0.11	ug/L			10/16/18 06:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	111		60 - 140					10/16/18 06:09	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102293-1

Method: RSK-175 - Dissolved Gases (GC)

Client Sample ID: GW-100318-BE-017

Date Collected: 10/03/18 14:53

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	4.2		1.0	0.17	ug/L			10/16/18 06:26	1
Ethane	1.0	U	1.0	0.10	ug/L			10/16/18 06:26	1
Ethylene	1.0	U	1.0	0.11	ug/L			10/16/18 06:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	112		60 - 140					10/16/18 06:26	1

Client Sample ID: GW-100318-BE-019

Date Collected: 10/03/18 14:56

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	4.2		1.0	0.17	ug/L			10/16/18 06:43	1
Ethane	1.0	U	1.0	0.10	ug/L			10/16/18 06:43	1
Ethylene	1.0	U	1.0	0.11	ug/L			10/16/18 06:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	110		60 - 140					10/16/18 06:43	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102293-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-100318-BE-011

Date Collected: 10/03/18 10:18

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-13

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	140		15	2.1	ug/L	—	10/05/18 14:00	10/08/18 17:23	1

Client Sample ID: GW-100318-BE-013

Date Collected: 10/03/18 11:26

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-14

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	110		15	2.1	ug/L	—	10/05/18 14:00	10/08/18 17:28	1

Client Sample ID: GW-100318-BE-015

Date Collected: 10/03/18 13:18

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-15

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	210		15	2.1	ug/L	—	10/05/18 14:00	10/08/18 17:32	1

Client Sample ID: GW-100318-BE-017

Date Collected: 10/03/18 14:53

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-16

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	250		15	2.1	ug/L	—	10/05/18 14:00	10/08/18 17:36	1

Client Sample ID: GW-100318-BE-019

Date Collected: 10/03/18 14:56

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-17

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	290		15	2.1	ug/L	—	10/05/18 14:00	10/08/18 17:41	1

Client Sample ID: GW-100318-AF-010

Date Collected: 10/03/18 10:30

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-18

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	380		15	2.1	ug/L	—	10/05/18 14:00	10/08/18 16:58	1

Client Sample ID: GW-100318-AF-012

Date Collected: 10/03/18 13:00

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-19

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	180		15	2.1	ug/L	—	10/05/18 14:00	10/08/18 17:45	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102293-1

General Chemistry

Client Sample ID: GW-100318-BE-011

Date Collected: 10/03/18 10:18

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.1		1.0	0.14	mg/L			10/09/18 01:36	1

Client Sample ID: GW-100318-AF-010

Date Collected: 10/03/18 10:30

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	3.4		1.0	0.14	mg/L			10/09/18 04:28	1

Client Sample ID: GW-100318-BE-013

Date Collected: 10/03/18 11:26

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.2		1.0	0.14	mg/L			10/09/18 02:43	1

Client Sample ID: GW-100318-AF-012

Date Collected: 10/03/18 13:00

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	2.8		1.0	0.14	mg/L			10/09/18 03:09	1

Client Sample ID: GW-100318-BE-015

Date Collected: 10/03/18 13:18

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	2.4		1.0	0.14	mg/L			10/09/18 03:36	1

Client Sample ID: GW-100318-BE-017

Date Collected: 10/03/18 14:53

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.72	J	1.0	0.14	mg/L			10/09/18 04:02	1

Client Sample ID: GW-100318-BE-019

Date Collected: 10/03/18 14:56

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.3		1.0	0.14	mg/L			10/09/18 05:35	1

Client Sample ID: GW-100318-BE-011

Date Collected: 10/03/18 10:18

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-13

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	340		5.0	2.6	mg/L			10/08/18 21:24	1
Carbonate Alkalinity as CaCO ₃	5.0	U	5.0	2.6	mg/L			10/08/18 21:24	1
Hardness as calcium carbonate	490		25	12	mg/L			10/17/18 10:28	1
Chloride	33		1.0	0.28	mg/L			10/04/18 21:30	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/04/18 21:30	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/04/18 21:30	1
Sulfate	82		1.0	0.35	mg/L			10/04/18 21:30	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/10/18 09:48	10/10/18 11:07	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102293-1

General Chemistry

Client Sample ID: GW-100318-BE-013

Date Collected: 10/03/18 11:26

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-14

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	320		5.0	2.6	mg/L			10/08/18 21:39	1
Carbonate Alkalinity as CaCO ₃	5.0	U	5.0	2.6	mg/L			10/08/18 21:39	1
Hardness as calcium carbonate	390		5.0	2.4	mg/L			10/17/18 10:33	1
Chloride	42		1.0	0.28	mg/L			10/04/18 22:53	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/04/18 22:53	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/04/18 22:53	1
Sulfate	67		1.0	0.35	mg/L			10/04/18 22:53	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/10/18 09:48	10/10/18 11:07	1

Client Sample ID: GW-100318-BE-015

Date Collected: 10/03/18 13:18

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-15

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	290		5.0	2.6	mg/L			10/08/18 21:44	1
Carbonate Alkalinity as CaCO ₃	5.0	U	5.0	2.6	mg/L			10/08/18 21:44	1
Hardness as calcium carbonate	380		5.0	2.4	mg/L			10/17/18 10:38	1
Chloride	45		1.0	0.28	mg/L			10/05/18 00:15	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/05/18 00:15	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/05/18 00:15	1
Sulfate	65		1.0	0.35	mg/L			10/05/18 00:15	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/10/18 09:48	10/10/18 11:07	1

Client Sample ID: GW-100318-BE-017

Date Collected: 10/03/18 14:53

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-16

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	270		5.0	2.6	mg/L			10/15/18 18:09	1
Carbonate Alkalinity as CaCO ₃	5.0	U	5.0	2.6	mg/L			10/15/18 18:09	1
Hardness as calcium carbonate	360		5.0	2.4	mg/L			10/17/18 10:43	1
Chloride	48		1.0	0.28	mg/L			10/05/18 00:36	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/05/18 00:36	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/05/18 00:36	1
Sulfate	70		1.0	0.35	mg/L			10/05/18 00:36	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/10/18 09:48	10/10/18 11:07	1

Client Sample ID: GW-100318-BE-019

Date Collected: 10/03/18 14:56

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-17

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	270		5.0	2.6	mg/L			10/15/18 18:13	1
Carbonate Alkalinity as CaCO ₃	5.0	U	5.0	2.6	mg/L			10/15/18 18:13	1
Hardness as calcium carbonate	360		5.0	2.4	mg/L			10/17/18 10:48	1
Chloride	48		1.0	0.28	mg/L			10/05/18 00:57	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/05/18 00:57	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/05/18 00:57	1
Sulfate	70		1.0	0.35	mg/L			10/05/18 00:57	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/10/18 09:48	10/10/18 11:07	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102293-1

General Chemistry

Client Sample ID: GW-100318-AF-010

Date Collected: 10/03/18 10:30

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-18

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	330		5.0	2.6	mg/L			10/08/18 21:10	1
Carbonate Alkalinity as CaCO ₃	5.0	U	5.0	2.6	mg/L			10/08/18 21:10	1
Hardness as calcium carbonate	340		5.0	2.4	mg/L			10/17/18 10:52	1
Chloride	6.6		1.0	0.28	mg/L			10/04/18 21:51	1
Nitrite as N	0.075	J	0.10	0.014	mg/L			10/04/18 21:51	1
Nitrate as N	0.52		0.10	0.014	mg/L			10/04/18 21:51	1
Sulfate	51		1.0	0.35	mg/L			10/04/18 21:51	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/10/18 09:48	10/10/18 11:07	1

Client Sample ID: GW-100318-AF-012

Date Collected: 10/03/18 13:00

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-19

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	330		5.0	2.6	mg/L			10/08/18 21:19	1
Carbonate Alkalinity as CaCO ₃	5.0	U	5.0	2.6	mg/L			10/08/18 21:19	1
Hardness as calcium carbonate	380		5.0	2.4	mg/L			10/17/18 10:57	1
Chloride	21		1.0	0.28	mg/L			10/04/18 23:55	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/04/18 23:55	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/04/18 23:55	1
Sulfate	40		1.0	0.35	mg/L			10/04/18 23:55	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/10/18 09:48	10/10/18 11:07	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102293-1

General Chemistry - Dissolved

Client Sample ID: GW-100318-BE-011

Date Collected: 10/03/18 10:18

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.1		1.0	0.14	mg/L			10/11/18 14:49	1

Client Sample ID: GW-100318-AF-010

Date Collected: 10/03/18 10:30

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	3.4		1.0	0.14	mg/L			10/11/18 16:33	1

Client Sample ID: GW-100318-BE-013

Date Collected: 10/03/18 11:26

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.3		1.0	0.14	mg/L			10/11/18 15:15	1

Client Sample ID: GW-100318-AF-012

Date Collected: 10/03/18 13:00

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.8		1.0	0.14	mg/L			10/11/18 15:41	1

Client Sample ID: GW-100318-BE-015

Date Collected: 10/03/18 13:18

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	2.1		1.0	0.14	mg/L			10/11/18 16:07	1

Client Sample ID: GW-100318-BE-017

Date Collected: 10/03/18 14:53

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.2		1.0	0.14	mg/L			10/12/18 06:05	1

Client Sample ID: GW-100318-BE-019

Date Collected: 10/03/18 14:56

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.4		1.0	0.14	mg/L			10/11/18 17:43	1

TestAmerica Canton

Surrogate Summary

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

TestAmerica Job ID: 240-102293-1

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TFE2 (60-140)
240-102293-1	GW-100318-BE-011	111
240-102293-2	GW-100318-AF-010	110
240-102293-2 MS	GW-100318-AF-010	111
240-102293-2 MSD	GW-100318-AF-010	109
240-102293-3	GW-100318-BE-013	110
240-102293-4	GW-100318-AF-012	110
240-102293-5	GW-100318-BE-015	111
240-102293-6	GW-100318-BE-017	112
240-102293-8	GW-100318-BE-019	110
LCS 240-350098/37	Lab Control Sample	117
LCSD 240-350098/38	Lab Control Sample Dup	116
MB 240-350098/36	Method Blank	119

Surrogate Legend

TFE = 1,1,1-Trifluoroethane

QC Sample Results

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

TestAmerica Job ID: 240-102293-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 240-350098/36

Matrix: Water

Analysis Batch: 350098

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			10/15/18 23:44	1
Ethane	1.0	U	1.0	0.10	ug/L			10/15/18 23:44	1
Ethylene	1.0	U	1.0	0.11	ug/L			10/15/18 23:44	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	119		60 - 140					10/15/18 23:44	1

Lab Sample ID: LCS 240-350098/37

Matrix: Water

Analysis Batch: 350098

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methane	511	468		ug/L		92	80 - 120		
Ethane	527	436		ug/L		83	80 - 120		
Ethylene	462	401		ug/L		87	80 - 120		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1,1,1-Trifluoroethane	117		60 - 140						

Lab Sample ID: LCSD 240-350098/38

Matrix: Water

Analysis Batch: 350098

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	511	463		ug/L		91	80 - 120	1	35
Ethane	527	430		ug/L		82	80 - 120	1	35
Ethylene	462	397		ug/L		86	80 - 120	1	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1,1,1-Trifluoroethane	116		60 - 140						

Lab Sample ID: 240-102293-2 MS

Matrix: Water

Analysis Batch: 350098

Client Sample ID: GW-100318-AF-010

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methane	17		285	299		ug/L		99	50 - 150		
Ethane	2.1		536	475		ug/L		88	50 - 150		
Ethylene	1.0	U	501	456		ug/L		91	50 - 150		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1,1,1-Trifluoroethane	111		60 - 140								

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102293-1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: 240-102293-2 MSD

Matrix: Water

Analysis Batch: 350098

Client Sample ID: GW-100318-AF-010

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane	17		285	297		ug/L		98	50 - 150	1	30
Ethane	2.1		536	471		ug/L		87	50 - 150	1	30
Ethylene	1.0	U	501	454		ug/L		91	50 - 150	0	30
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
1,1,1-Trifluoroethane	109		60 - 140								

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-348759/1-A

Matrix: Water

Analysis Batch: 348953

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 348759

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	15	U	15	2.1	ug/L		10/05/18 14:00	10/08/18 16:50	1

Lab Sample ID: LCS 240-348759/2-A

Matrix: Water

Analysis Batch: 348953

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 348759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	500	458		ug/L		92	80 - 120

Lab Sample ID: 240-102293-18 MS

Matrix: Water

Analysis Batch: 348953

Client Sample ID: GW-100318-AF-010

Prep Type: Dissolved

Prep Batch: 348759

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	380		500	860		ug/L		95	75 - 125

Lab Sample ID: 240-102293-18 MSD

Matrix: Water

Analysis Batch: 348953

Client Sample ID: GW-100318-AF-010

Prep Type: Dissolved

Prep Batch: 348759

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	380		500	850		ug/L		93	75 - 125	1	20

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-349262/48

Matrix: Water

Analysis Batch: 349262

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			10/08/18 21:34	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/08/18 21:34	1

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102293-1

Method: 2320B-1997 - Alkalinity, Total (Continued)

Lab Sample ID: MB 240-349262/5

Matrix: Water

Analysis Batch: 349262

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			10/08/18 18:23	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/08/18 18:23	1

Lab Sample ID: 240-102293-18 DU

Matrix: Water

Analysis Batch: 349262

Client Sample ID: GW-100318-AF-010

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	Prepared	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO3	330		327		mg/L			0.3	20
Carbonate Alkalinity as CaCO3	5.0	U	5.0	U	mg/L			NC	20

Lab Sample ID: MB 240-350304/4

Matrix: Water

Analysis Batch: 350304

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			10/15/18 17:50	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/15/18 17:50	1

Method: 2340C-1997 - Hardness, Total

Lab Sample ID: MB 240-350534/1

Matrix: Water

Analysis Batch: 350534

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			10/17/18 10:00	1

Lab Sample ID: LCS 240-350534/2

Matrix: Water

Analysis Batch: 350534

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	207	212		mg/L		102	90 - 110

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-348554/25

Matrix: Water

Analysis Batch: 348554

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			10/04/18 19:46	1
Sulfate	1.0	U	1.0	0.35	mg/L			10/04/18 19:46	1

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102293-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 240-348554/26

Matrix: Water

Analysis Batch: 348554

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	51.6		mg/L		103	90 - 110
Sulfate	50.0	52.4		mg/L		105	90 - 110

Lab Sample ID: 240-102293-17 MS

Matrix: Water

Analysis Batch: 348554

Client Sample ID: GW-100318-BE-019

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	48		50.0	98.7		mg/L		101	80 - 120
Sulfate	70		50.0	120		mg/L		100	80 - 120

Lab Sample ID: 240-102293-17 MSD

Matrix: Water

Analysis Batch: 348554

Client Sample ID: GW-100318-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
Chloride	48		50.0	99.1		mg/L		102	80 - 120	0	15
Sulfate	70		50.0	121		mg/L		101	80 - 120	0	15

Lab Sample ID: 240-102293-18 MS

Matrix: Water

Analysis Batch: 348554

Client Sample ID: GW-100318-AF-010

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	6.6		50.0	59.3		mg/L		105	80 - 120
Sulfate	51		50.0	103		mg/L		103	80 - 120

Lab Sample ID: 240-102293-18 MSD

Matrix: Water

Analysis Batch: 348554

Client Sample ID: GW-100318-AF-010

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	6.6		50.0	59.6		mg/L		106	80 - 120	1	15
Sulfate	51		50.0	103		mg/L		104	80 - 120	0	15

Lab Sample ID: MB 240-348555/25

Matrix: Water

Analysis Batch: 348555

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			10/04/18 19:46	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/04/18 19:46	1

Lab Sample ID: LCS 240-348555/26

Matrix: Water

Analysis Batch: 348555

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	2.51		mg/L		101	90 - 110

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102293-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 240-348555/26

Matrix: Water

Analysis Batch: 348555

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	2.61		mg/L		104	90 - 110

Lab Sample ID: 240-102293-17 MS

Matrix: Water

Analysis Batch: 348555

Client Sample ID: GW-100318-BE-019

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.10	U	2.50	2.71		mg/L		108	80 - 120
Nitrate as N	0.10	U	2.50	2.64		mg/L		105	80 - 120

Lab Sample ID: 240-102293-17 MSD

Matrix: Water

Analysis Batch: 348555

Client Sample ID: GW-100318-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
Nitrite as N	0.10	U	2.50	2.72		mg/L		109	80 - 120	0	15
Nitrate as N	0.10	U	2.50	2.66		mg/L		106	80 - 120	1	15

Lab Sample ID: 240-102293-18 MS

Matrix: Water

Analysis Batch: 348555

Client Sample ID: GW-100318-AF-010

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.075	J	2.50	2.79		mg/L		109	80 - 120
Nitrate as N	0.52		2.50	3.13		mg/L		105	80 - 120

Lab Sample ID: 240-102293-18 MSD

Matrix: Water

Analysis Batch: 348555

Client Sample ID: GW-100318-AF-010

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	0.075	J	2.50	2.78		mg/L		108	80 - 120	0	15
Nitrate as N	0.52		2.50	3.16		mg/L		106	80 - 120	1	15

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-349409/1-A

Matrix: Water

Analysis Batch: 349431

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 349409

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	3.0	U	3.0	1.4	mg/L		10/10/18 09:48	10/10/18 11:07	1

Lab Sample ID: LCS 240-349409/2-A

Matrix: Water

Analysis Batch: 349431

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 349409

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	7.33	5.20		mg/L		71	70 - 120

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102293-1

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: 240-102293-18 MS

Matrix: Water

Analysis Batch: 349431

Client Sample ID: GW-100318-AF-010

Prep Type: Total/NA

Prep Batch: 349409

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	3.0	U	7.33	4.80		mg/L		65	32 - 130

Lab Sample ID: 240-102293-18 MSD

Matrix: Water

Analysis Batch: 349431

Client Sample ID: GW-100318-AF-010

Prep Type: Total/NA

Prep Batch: 349409

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	3.0	U	7.33	4.40		mg/L		60	32 - 130	9	30

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 240-349236/37

Matrix: Water

Analysis Batch: 349236

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			10/08/18 23:13	1

Lab Sample ID: LCS 240-349236/39

Matrix: Water

Analysis Batch: 349236

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	22.1	22.7		mg/L		103	80 - 120

Lab Sample ID: LLCS 240-349236/38

Matrix: Water

Analysis Batch: 349236

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	5.53	5.59		mg/L		101	88 - 115

Lab Sample ID: 240-102293-2 MS

Matrix: Water

Analysis Batch: 349236

Client Sample ID: GW-100318-AF-010

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	3.4		12.5	13.9		mg/L		84	65 - 134

Lab Sample ID: 240-102293-2 MSD

Matrix: Water

Analysis Batch: 349236

Client Sample ID: GW-100318-AF-010

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	3.4		12.5	13.9		mg/L		84	65 - 134	0	10

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102293-1

Method: 9060 - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 240-349758/4

Matrix: Water

Analysis Batch: 349758

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	-		10/11/18 11:00	1

Lab Sample ID: LLCS 240-349758/5

Matrix: Water

Analysis Batch: 349758

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	5.53	5.51		mg/L	-	100	88 - 115

Lab Sample ID: 240-102293-2 MS

Matrix: Water

Analysis Batch: 349758

Client Sample ID: GW-100318-AF-010

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	3.4		5.00	8.31		mg/L	-	98	65 - 134

Lab Sample ID: 240-102293-2 MSD

Matrix: Water

Analysis Batch: 349758

Client Sample ID: GW-100318-AF-010

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	3.4		5.00	8.25		mg/L	-	97	65 - 134	1	10

Lab Sample ID: MB 240-349790/4

Matrix: Water

Analysis Batch: 349790

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	-		10/12/18 05:49	1

Lab Sample ID: LLCS 240-349790/5

Matrix: Water

Analysis Batch: 349790

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	5.53	5.59		mg/L	-	101	88 - 115

Lab Sample ID: 240-102293-6 MS

Matrix: Water

Analysis Batch: 349790

Client Sample ID: GW-100318-BE-017

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	1.2		5.00	6.73		mg/L	-	111	65 - 134

Lab Sample ID: 240-102293-6 MSD

Matrix: Water

Analysis Batch: 349790

Client Sample ID: GW-100318-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	1.2		5.00	6.63		mg/L	-	108	65 - 134	2	10

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102293-1

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QC Association Summary

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

TestAmerica Job ID: 240-102293-1

GC VOA

Analysis Batch: 350098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102293-1	GW-100318-BE-011	Total/NA	Water	RSK-175	
240-102293-2	GW-100318-AF-010	Total/NA	Water	RSK-175	
240-102293-3	GW-100318-BE-013	Total/NA	Water	RSK-175	
240-102293-4	GW-100318-AF-012	Total/NA	Water	RSK-175	
240-102293-5	GW-100318-BE-015	Total/NA	Water	RSK-175	
240-102293-6	GW-100318-BE-017	Total/NA	Water	RSK-175	
240-102293-8	GW-100318-BE-019	Total/NA	Water	RSK-175	
MB 240-350098/36	Method Blank	Total/NA	Water	RSK-175	
LCS 240-350098/37	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 240-350098/38	Lab Control Sample Dup	Total/NA	Water	RSK-175	
240-102293-2 MS	GW-100318-AF-010	Total/NA	Water	RSK-175	
240-102293-2 MSD	GW-100318-AF-010	Total/NA	Water	RSK-175	

Metals

Prep Batch: 348759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102293-13	GW-100318-BE-011	Dissolved	Water	3005A	
240-102293-14	GW-100318-BE-013	Dissolved	Water	3005A	
240-102293-15	GW-100318-BE-015	Dissolved	Water	3005A	
240-102293-16	GW-100318-BE-017	Dissolved	Water	3005A	
240-102293-17	GW-100318-BE-019	Dissolved	Water	3005A	
240-102293-18	GW-100318-AF-010	Dissolved	Water	3005A	
240-102293-19	GW-100318-AF-012	Dissolved	Water	3005A	
MB 240-348759/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-348759/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-102293-18 MS	GW-100318-AF-010	Dissolved	Water	3005A	
240-102293-18 MSD	GW-100318-AF-010	Dissolved	Water	3005A	

Analysis Batch: 348953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102293-13	GW-100318-BE-011	Dissolved	Water	6010B	348759
240-102293-14	GW-100318-BE-013	Dissolved	Water	6010B	348759
240-102293-15	GW-100318-BE-015	Dissolved	Water	6010B	348759
240-102293-16	GW-100318-BE-017	Dissolved	Water	6010B	348759
240-102293-17	GW-100318-BE-019	Dissolved	Water	6010B	348759
240-102293-18	GW-100318-AF-010	Dissolved	Water	6010B	348759
240-102293-19	GW-100318-AF-012	Dissolved	Water	6010B	348759
MB 240-348759/1-A	Method Blank	Total Recoverable	Water	6010B	348759
LCS 240-348759/2-A	Lab Control Sample	Total Recoverable	Water	6010B	348759
240-102293-18 MS	GW-100318-AF-010	Dissolved	Water	6010B	348759
240-102293-18 MSD	GW-100318-AF-010	Dissolved	Water	6010B	348759

General Chemistry

Analysis Batch: 348554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102293-13	GW-100318-BE-011	Total/NA	Water	300.0	
240-102293-14	GW-100318-BE-013	Total/NA	Water	300.0	
240-102293-15	GW-100318-BE-015	Total/NA	Water	300.0	

TestAmerica Canton

QC Association Summary

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

TestAmerica Job ID: 240-102293-1

General Chemistry (Continued)

Analysis Batch: 348554 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102293-16	GW-100318-BE-017	Total/NA	Water	300.0	
240-102293-17	GW-100318-BE-019	Total/NA	Water	300.0	
240-102293-18	GW-100318-AF-010	Total/NA	Water	300.0	
240-102293-19	GW-100318-AF-012	Total/NA	Water	300.0	
MB 240-348554/25	Method Blank	Total/NA	Water	300.0	
LCS 240-348554/26	Lab Control Sample	Total/NA	Water	300.0	
240-102293-17 MS	GW-100318-BE-019	Total/NA	Water	300.0	
240-102293-17 MSD	GW-100318-BE-019	Total/NA	Water	300.0	
240-102293-18 MS	GW-100318-AF-010	Total/NA	Water	300.0	
240-102293-18 MSD	GW-100318-AF-010	Total/NA	Water	300.0	

Analysis Batch: 348555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102293-13	GW-100318-BE-011	Total/NA	Water	300.0	
240-102293-14	GW-100318-BE-013	Total/NA	Water	300.0	
240-102293-15	GW-100318-BE-015	Total/NA	Water	300.0	
240-102293-16	GW-100318-BE-017	Total/NA	Water	300.0	
240-102293-17	GW-100318-BE-019	Total/NA	Water	300.0	
240-102293-18	GW-100318-AF-010	Total/NA	Water	300.0	
240-102293-19	GW-100318-AF-012	Total/NA	Water	300.0	
MB 240-348555/25	Method Blank	Total/NA	Water	300.0	
LCS 240-348555/26	Lab Control Sample	Total/NA	Water	300.0	
240-102293-17 MS	GW-100318-BE-019	Total/NA	Water	300.0	
240-102293-17 MSD	GW-100318-BE-019	Total/NA	Water	300.0	
240-102293-18 MS	GW-100318-AF-010	Total/NA	Water	300.0	
240-102293-18 MSD	GW-100318-AF-010	Total/NA	Water	300.0	

Analysis Batch: 349236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102293-1	GW-100318-BE-011	Total/NA	Water	9060	
240-102293-2	GW-100318-AF-010	Total/NA	Water	9060	
240-102293-3	GW-100318-BE-013	Total/NA	Water	9060	
240-102293-4	GW-100318-AF-012	Total/NA	Water	9060	
240-102293-5	GW-100318-BE-015	Total/NA	Water	9060	
240-102293-6	GW-100318-BE-017	Total/NA	Water	9060	
240-102293-8	GW-100318-BE-019	Total/NA	Water	9060	
MB 240-349236/37	Method Blank	Total/NA	Water	9060	
LCS 240-349236/39	Lab Control Sample	Total/NA	Water	9060	
LLCS 240-349236/38	Lab Control Sample	Total/NA	Water	9060	
240-102293-2 MS	GW-100318-AF-010	Total/NA	Water	9060	
240-102293-2 MSD	GW-100318-AF-010	Total/NA	Water	9060	

Analysis Batch: 349262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102293-13	GW-100318-BE-011	Total/NA	Water	2320B-1997	
240-102293-14	GW-100318-BE-013	Total/NA	Water	2320B-1997	
240-102293-15	GW-100318-BE-015	Total/NA	Water	2320B-1997	
240-102293-18	GW-100318-AF-010	Total/NA	Water	2320B-1997	
240-102293-19	GW-100318-AF-012	Total/NA	Water	2320B-1997	
MB 240-349262/48	Method Blank	Total/NA	Water	2320B-1997	
MB 240-349262/5	Method Blank	Total/NA	Water	2320B-1997	

TestAmerica Canton

QC Association Summary

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

TestAmerica Job ID: 240-102293-1

General Chemistry (Continued)

Analysis Batch: 349262 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102293-18 DU	GW-100318-AF-010	Total/NA	Water	2320B-1997	

Prep Batch: 349409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102293-13	GW-100318-BE-011	Total/NA	Water	9030B	
240-102293-14	GW-100318-BE-013	Total/NA	Water	9030B	
240-102293-15	GW-100318-BE-015	Total/NA	Water	9030B	
240-102293-16	GW-100318-BE-017	Total/NA	Water	9030B	
240-102293-17	GW-100318-BE-019	Total/NA	Water	9030B	
240-102293-18	GW-100318-AF-010	Total/NA	Water	9030B	
240-102293-19	GW-100318-AF-012	Total/NA	Water	9030B	
MB 240-349409/1-A	Method Blank	Total/NA	Water	9030B	
LCS 240-349409/2-A	Lab Control Sample	Total/NA	Water	9030B	
240-102293-18 MS	GW-100318-AF-010	Total/NA	Water	9030B	
240-102293-18 MSD	GW-100318-AF-010	Total/NA	Water	9030B	

Analysis Batch: 349431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102293-13	GW-100318-BE-011	Total/NA	Water	9034	349409
240-102293-14	GW-100318-BE-013	Total/NA	Water	9034	349409
240-102293-15	GW-100318-BE-015	Total/NA	Water	9034	349409
240-102293-16	GW-100318-BE-017	Total/NA	Water	9034	349409
240-102293-17	GW-100318-BE-019	Total/NA	Water	9034	349409
240-102293-18	GW-100318-AF-010	Total/NA	Water	9034	349409
240-102293-19	GW-100318-AF-012	Total/NA	Water	9034	349409
MB 240-349409/1-A	Method Blank	Total/NA	Water	9034	349409
LCS 240-349409/2-A	Lab Control Sample	Total/NA	Water	9034	349409
240-102293-18 MS	GW-100318-AF-010	Total/NA	Water	9034	349409
240-102293-18 MSD	GW-100318-AF-010	Total/NA	Water	9034	349409

Analysis Batch: 349758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102293-1	GW-100318-BE-011	Dissolved	Water	9060	
240-102293-2	GW-100318-AF-010	Dissolved	Water	9060	
240-102293-3	GW-100318-BE-013	Dissolved	Water	9060	
240-102293-4	GW-100318-AF-012	Dissolved	Water	9060	
240-102293-5	GW-100318-BE-015	Dissolved	Water	9060	
240-102293-8	GW-100318-BE-019	Dissolved	Water	9060	
MB 240-349758/4	Method Blank	Dissolved	Water	9060	
LLCS 240-349758/5	Lab Control Sample	Dissolved	Water	9060	
240-102293-2 MS	GW-100318-AF-010	Dissolved	Water	9060	
240-102293-2 MSD	GW-100318-AF-010	Dissolved	Water	9060	

Analysis Batch: 349790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102293-6	GW-100318-BE-017	Dissolved	Water	9060	
MB 240-349790/4	Method Blank	Dissolved	Water	9060	
LLCS 240-349790/5	Lab Control Sample	Dissolved	Water	9060	
240-102293-6 MS	GW-100318-BE-017	Dissolved	Water	9060	
240-102293-6 MSD	GW-100318-BE-017	Dissolved	Water	9060	

TestAmerica Canton

QC Association Summary

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

TestAmerica Job ID: 240-102293-1

General Chemistry (Continued)

Analysis Batch: 350304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102293-16	GW-100318-BE-017	Total/NA	Water	2320B-1997	
240-102293-17	GW-100318-BE-019	Total/NA	Water	2320B-1997	
MB 240-350304/4	Method Blank	Total/NA	Water	2320B-1997	

Analysis Batch: 350534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102293-13	GW-100318-BE-011	Total/NA	Water	2340C-1997	
240-102293-14	GW-100318-BE-013	Total/NA	Water	2340C-1997	
240-102293-15	GW-100318-BE-015	Total/NA	Water	2340C-1997	
240-102293-16	GW-100318-BE-017	Total/NA	Water	2340C-1997	
240-102293-17	GW-100318-BE-019	Total/NA	Water	2340C-1997	
240-102293-18	GW-100318-AF-010	Total/NA	Water	2340C-1997	
240-102293-19	GW-100318-AF-012	Total/NA	Water	2340C-1997	
MB 240-350534/1	Method Blank	Total/NA	Water	2340C-1997	
LCS 240-350534/2	Lab Control Sample	Total/NA	Water	2340C-1997	

Lab Chronicle

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

TestAmerica Job ID: 240-102293-1

Client Sample ID: GW-100318-BE-011

Date Collected: 10/03/18 10:18

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	350098	10/16/18 04:29	BPM	TAL CAN
Dissolved	Analysis	9060		1	349758	10/11/18 14:49	TPH	TAL CAN
Total/NA	Analysis	9060		1	349236	10/09/18 01:36	TPH	TAL CAN

Client Sample ID: GW-100318-AF-010

Date Collected: 10/03/18 10:30

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	350098	10/16/18 04:45	BPM	TAL CAN
Dissolved	Analysis	9060		1	349758	10/11/18 16:33	TPH	TAL CAN
Total/NA	Analysis	9060		1	349236	10/09/18 04:28	TPH	TAL CAN

Client Sample ID: GW-100318-BE-013

Date Collected: 10/03/18 11:26

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	350098	10/16/18 05:36	BPM	TAL CAN
Dissolved	Analysis	9060		1	349758	10/11/18 15:15	TPH	TAL CAN
Total/NA	Analysis	9060		1	349236	10/09/18 02:43	TPH	TAL CAN

Client Sample ID: GW-100318-AF-012

Date Collected: 10/03/18 13:00

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	350098	10/16/18 05:52	BPM	TAL CAN
Dissolved	Analysis	9060		1	349758	10/11/18 15:41	TPH	TAL CAN
Total/NA	Analysis	9060		1	349236	10/09/18 03:09	TPH	TAL CAN

Client Sample ID: GW-100318-BE-015

Date Collected: 10/03/18 13:18

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	350098	10/16/18 06:09	BPM	TAL CAN
Dissolved	Analysis	9060		1	349758	10/11/18 16:07	TPH	TAL CAN
Total/NA	Analysis	9060		1	349236	10/09/18 03:36	TPH	TAL CAN

TestAmerica Canton

Lab Chronicle

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

TestAmerica Job ID: 240-102293-1

Client Sample ID: GW-100318-BE-017

Lab Sample ID: 240-102293-6

Date Collected: 10/03/18 14:53

Matrix: Water

Date Received: 10/04/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	350098	10/16/18 06:26	BPM	TAL CAN
Dissolved	Analysis	9060		1	349790	10/12/18 06:05	TPH	TAL CAN
Total/NA	Analysis	9060		1	349236	10/09/18 04:02	TPH	TAL CAN

Client Sample ID: GW-100318-BE-019

Lab Sample ID: 240-102293-8

Date Collected: 10/03/18 14:56

Matrix: Water

Date Received: 10/04/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	350098	10/16/18 06:43	BPM	TAL CAN
Dissolved	Analysis	9060		1	349758	10/11/18 17:43	TPH	TAL CAN
Total/NA	Analysis	9060		1	349236	10/09/18 05:35	TPH	TAL CAN

Client Sample ID: GW-100318-BE-011

Lab Sample ID: 240-102293-13

Date Collected: 10/03/18 10:18

Matrix: Water

Date Received: 10/04/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			348759	10/05/18 14:00	WKD	TAL CAN
Dissolved	Analysis	6010B		1	348953	10/08/18 17:23	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	349262	10/08/18 21:24	JESW	TAL CAN
Total/NA	Analysis	2340C-1997		1	350534	10/17/18 10:28	TPH	TAL CAN
Total/NA	Analysis	300.0		1	348554	10/04/18 21:30	JWW	TAL CAN
Total/NA	Analysis	300.0		1	348555	10/04/18 21:30	JWW	TAL CAN
Total/NA	Prep	9030B			349409	10/10/18 09:48	ACR	TAL CAN
Total/NA	Analysis	9034		1	349431	10/10/18 11:07	ACR	TAL CAN

Client Sample ID: GW-100318-BE-013

Lab Sample ID: 240-102293-14

Date Collected: 10/03/18 11:26

Matrix: Water

Date Received: 10/04/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			348759	10/05/18 14:00	WKD	TAL CAN
Dissolved	Analysis	6010B		1	348953	10/08/18 17:28	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	349262	10/08/18 21:39	JESW	TAL CAN
Total/NA	Analysis	2340C-1997		1	350534	10/17/18 10:33	TPH	TAL CAN
Total/NA	Analysis	300.0		1	348554	10/04/18 22:53	JWW	TAL CAN
Total/NA	Analysis	300.0		1	348555	10/04/18 22:53	JWW	TAL CAN
Total/NA	Prep	9030B			349409	10/10/18 09:48	ACR	TAL CAN
Total/NA	Analysis	9034		1	349431	10/10/18 11:07	ACR	TAL CAN

TestAmerica Canton

Lab Chronicle

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

TestAmerica Job ID: 240-102293-1

Client Sample ID: GW-100318-BE-015

Lab Sample ID: 240-102293-15

Date Collected: 10/03/18 13:18

Matrix: Water

Date Received: 10/04/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			348759	10/05/18 14:00	WKD	TAL CAN
Dissolved	Analysis	6010B		1	348953	10/08/18 17:32	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	349262	10/08/18 21:44	JESW	TAL CAN
Total/NA	Analysis	2340C-1997		1	350534	10/17/18 10:38	TPH	TAL CAN
Total/NA	Analysis	300.0		1	348554	10/05/18 00:15	JWW	TAL CAN
Total/NA	Analysis	300.0		1	348555	10/05/18 00:15	JWW	TAL CAN
Total/NA	Prep	9030B			349409	10/10/18 09:48	ACR	TAL CAN
Total/NA	Analysis	9034		1	349431	10/10/18 11:07	ACR	TAL CAN

Client Sample ID: GW-100318-BE-017

Lab Sample ID: 240-102293-16

Date Collected: 10/03/18 14:53

Matrix: Water

Date Received: 10/04/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			348759	10/05/18 14:00	WKD	TAL CAN
Dissolved	Analysis	6010B		1	348953	10/08/18 17:36	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	350304	10/15/18 18:09	JESW	TAL CAN
Total/NA	Analysis	2340C-1997		1	350534	10/17/18 10:43	TPH	TAL CAN
Total/NA	Analysis	300.0		1	348554	10/05/18 00:36	JWW	TAL CAN
Total/NA	Analysis	300.0		1	348555	10/05/18 00:36	JWW	TAL CAN
Total/NA	Prep	9030B			349409	10/10/18 09:48	ACR	TAL CAN
Total/NA	Analysis	9034		1	349431	10/10/18 11:07	ACR	TAL CAN

Client Sample ID: GW-100318-BE-019

Lab Sample ID: 240-102293-17

Date Collected: 10/03/18 14:56

Matrix: Water

Date Received: 10/04/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			348759	10/05/18 14:00	WKD	TAL CAN
Dissolved	Analysis	6010B		1	348953	10/08/18 17:41	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	350304	10/15/18 18:13	JESW	TAL CAN
Total/NA	Analysis	2340C-1997		1	350534	10/17/18 10:48	TPH	TAL CAN
Total/NA	Analysis	300.0		1	348554	10/05/18 00:57	JWW	TAL CAN
Total/NA	Analysis	300.0		1	348555	10/05/18 00:57	JWW	TAL CAN
Total/NA	Prep	9030B			349409	10/10/18 09:48	ACR	TAL CAN
Total/NA	Analysis	9034		1	349431	10/10/18 11:07	ACR	TAL CAN

TestAmerica Canton

Lab Chronicle

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

TestAmerica Job ID: 240-102293-1

Client Sample ID: GW-100318-AF-010

Lab Sample ID: 240-102293-18

Date Collected: 10/03/18 10:30

Matrix: Water

Date Received: 10/04/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			348759	10/05/18 14:00	WKD	TAL CAN
Dissolved	Analysis	6010B		1	348953	10/08/18 16:58	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	349262	10/08/18 21:10	JESW	TAL CAN
Total/NA	Analysis	2340C-1997		1	350534	10/17/18 10:52	TPH	TAL CAN
Total/NA	Analysis	300.0		1	348554	10/04/18 21:51	JWW	TAL CAN
Total/NA	Analysis	300.0		1	348555	10/04/18 21:51	JWW	TAL CAN
Total/NA	Prep	9030B			349409	10/10/18 09:48	ACR	TAL CAN
Total/NA	Analysis	9034		1	349431	10/10/18 11:07	ACR	TAL CAN

Client Sample ID: GW-100318-AF-012

Lab Sample ID: 240-102293-19

Date Collected: 10/03/18 13:00

Matrix: Water

Date Received: 10/04/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			348759	10/05/18 14:00	WKD	TAL CAN
Dissolved	Analysis	6010B		1	348953	10/08/18 17:45	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	349262	10/08/18 21:19	JESW	TAL CAN
Total/NA	Analysis	2340C-1997		1	350534	10/17/18 10:57	TPH	TAL CAN
Total/NA	Analysis	300.0		1	348554	10/04/18 23:55	JWW	TAL CAN
Total/NA	Analysis	300.0		1	348555	10/04/18 23:55	JWW	TAL CAN
Total/NA	Prep	9030B			349409	10/10/18 09:48	ACR	TAL CAN
Total/NA	Analysis	9034		1	349431	10/10/18 11:07	ACR	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: 240-102293-1

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	02-23-19
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-19
Illinois	NELAP	5	200004	07-31-19
Kansas	NELAP	7	E-10336	01-31-19
Kentucky (UST)	State Program	4	58	02-23-19
Kentucky (WW)	State Program	4	98016	12-31-18 *
Minnesota	NELAP	5	039-999-348	12-31-18 *
Minnesota (Petrofund)	State Program	1	3506	07-31-19
Nevada	State Program	9	OH00048	07-31-19
New Jersey	NELAP	2	OH001	06-30-19
New York	NELAP	2	10975	03-31-19
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-19
Pennsylvania	NELAP	3	68-00340	08-31-19 *
Texas	NELAP	6	T104704517-17-9	08-31-19
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-19
Washington	State Program	10	C971	01-12-19
West Virginia DEP	State Program	3	210	12-31-18 *

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

TestAmerica Canton



**CONESTOGA-ROVERS
& ASSOCIATES**
261C3,5

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: IN-14809

PAGE 1 OF 1
(See Reverse Side for Instructions)

Project No/Phase/Task Code: 017302-T07			Laboratory Name: Test America			Lab Location: North Canton, OH			SSOW ID: 17302-T07		
Project Name: MLK - Anderson, IN - GW Sampling			Lab Contact: D. Heckler			Lab Quote No:			Cooler No: 2 of 3		
Project Location: Anderson, IN			SAMPLE TYPE			CONTAINER QUANTITY & PRESERVATION			ANALYSIS REQUESTED (See Back of COC for Definitions)		
Chemistry Contact: D. Androsko			Grab (G) or Comp (C)			Unpreserved			MS/MSD Request		
Sampler(s): A. Feldman & B. Emmecker			Matrix Code			Hydrochloric Acid (HCl)			Date Shipped: 10/03/18		
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)			DATE (mm/dd/yyyy)			TIME (hh:mm)			COMMENTS/SPECIAL INSTRUCTIONS:		
1 GW-100318-BE-011			100318			1018			1 H ₂ SO ₄ VOA Boks		
2 GW-100318-AF-010			100318			1030					
3 GW-100318-BE-013			100318			1126					
4 GW-100318-AF-012			100318			1300					
5 GW-100318-BE-015			100318			1318					
6 GW-100318-BE-017			100318			1453					
7 GW-100318-AF-014			100318			1437					
8 GW-100318-BE-019			100318			1456					
9 GW-100318-AF-016			100318			1537					
10 TB-100318-AF-003			100318			1630 TB					
11 EB-100318-BE-001			100318			1615 EB					
12 WW-100318-BE-001			100318			1640 WW					
13											
14											
15											
TAT Required in business days (use separate COCs for different TATs):			DATE			TIME			Notes/ Special Requirements:		
☐ 1 Day ☐ 2 Days ☐ 3 Days ☒ 2 Week ☐ Other:			COMPANY			RECEIVED BY			Total Number of Containers: 120		
1. Bryan Emmecker			GHD			10/3/18			1. 800		
2.									2.		
3.									3.		
All Samples in Cooler must be on COC			DATE			TIME			COMPANY		
1. 800			10/3/18			1800			TAC		
2.									10-4-18		
3.									930		

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)

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2.4/C3.3
CONESTOGA-ROVERS
& ASSOCIATES

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO: IN-15033
PAGE 1 OF 1

(See Reverse Side for Instructions)

Project No/Phase/Task Code: 017302A-TD7		Laboratory Name: Test America NC		Lab Location: North Carolina		SSOW ID:	
Project Name: Walter Delphi GW		Lab Contact: Denise Heckler		Lab Quote No:		Cooler No: 1 of 3	
Project Location: Anderson TN		CONTAINER QUANTITY & PRESERVATION		ANALYSIS REQUESTED (See Back of COC for Definitions)			
Chemistry Contact: Deborah Andrusko		SAMPLE TYPE		Carrier: FedEx			
Sampler(s): Bryan E inecker		Matrix Code		Airbill No:			
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)		DATE (mm/dd/yyyy)		TIME (hh:mm)		Date Shipped: 10/3/18	
Item	SAMPLE IDENTIFICATION	DATE	TIME	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)
1	GW-100318-BE-011	10/3/18	1018	GW	2	2	2
2	GW-100318-BE-013	10/3/18	1126	GW	2	2	2
3	GW-100318-BE-015	10/3/18	1318	GW	2	2	2
4	GW-100318-BE-017	10/3/18	1453	GW	2	2	2
5	GW-100318-BE-019	10/3/18	1456	GW	2	2	2
6							
7							
8							
9							
10							
11							
12							
13							
14							

TAT Required in business days (use separate COCs for different TATs):		Total Number of Containers: 125		Notes/ Special Requirements:	
☐ 1 Day	☐ 2 Days	☐ 3 Days	☐ 1 Week	☒ 2 Week	☐ Other:
RELINQUISHED BY: Bryan E inecker		DATE: 10/3/18	TIME: 1800	RECEIVED BY: 1. BOP	COMPANY: TAC
				2.	
				3.	

All Samples in Cooler must be on COC		DATE		TIME	
1. Bryan E inecker		10/3/18	1800	1. BOP	1800
				2.	
				3.	

Total Number of Containers: 125		DATE		TIME	
1. Bryan E inecker		10/3/18	1800	1. BOP	1800
				2.	
				3.	

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

WHITE - Fully Executed Copy (CRA)

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GOLDENROD - Sampling Crew

CRA Form: COC-10A (20110904)



COC NO.:IN- 15035

PAGE | OF |

Phone: (317) 291-7007
Fax: (317) 328-2666

(See Reverse Side for Instructions)

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: CQC-10A (20110804)

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TestAmerica Canton Sample Receipt Form/Narrative

Login # : 102293

Canton Facility

Client CRASite Name

Cooler unpacked by:

Cooler Received on 10-4-18Opened on 10-4-18ROPFedEx: 1st Grd ☒ Exp ☐ UPS ☐ FAS ☐ Clipper ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other ☐Receipt After-hours: Drop-off Date/Time Storage Location TestAmerica Cooler # 7A 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 FormIR GUN# IR-8 (CF +0.9 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °CIR GUN #36 (CF +0.6 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C2. 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 12-16 have been checked at the originating laboratory.

12. Were all preserved sample(s) at the correct pH upon receipt? Yes ☒ No ☐ NA ☐ pH Strip Lot# HC84916113. Were VOAs on the COC? Yes ☒ No ☐14. Were air bubbles >6 mm in any VOA vials? ☒ Larger than this. Yes ☒ No ☐ NA ☐15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # CONVERT Yes ☒ No ☐16. Was a LL Hg or Me Hg trip blank present? Yes ☒ No ☐Contacted PM Date by via Verbal Voice Mail Other Concerning

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

ROP

18. 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)

19. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.Time preserved: Preservative(s) added/Lot number(s):

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Preservative</u> <u>Added (mls)</u>	<u>Lot #</u>
GW-100318-BE-011	240-102293-B-13	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100318-BE-011	240-102293-D-13	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100318-BE-011	240-102293-E-13	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100318-BE-013	240-102293-B-14	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100318-BE-013	240-102293-D-14	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100318-BE-013	240-102293-E-14	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100318-BE-015	240-102293-B-15	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100318-BE-015	240-102293-D-15	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100318-BE-015	240-102293-E-15	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100318-BE-017	240-102293-B-16	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100318-BE-017	240-102293-D-16	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100318-BE-017	240-102293-E-16	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100318-BE-019	240-102293-B-17	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100318-BE-019	240-102293-D-17	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100318-BE-019	240-102293-E-17	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100318-AF-010	240-102293-D-18	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100318-AF-010	240-102293-E-18	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100318-AF-010	240-102293-F-18	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100318-AF-010	240-102293-J-18	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100318-AF-010	240-102293-K-18	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100318-AF-010	240-102293-L-18	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100318-AF-010	240-102293-M-18	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100318-AF-010	240-102293-N-18	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100318-AF-010	240-102293-O-18	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100318-AF-012	240-102293-B-19	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100318-AF-012	240-102293-D-19	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100318-AF-012	240-102293-E-19	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-102293-2

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:

10/17/2018 2:39:35 PM

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com

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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: 240-102293-2

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.
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

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

TestAmerica Job ID: 240-102293-2

Job ID: 240-102293-2

Laboratory: TestAmerica Canton

Narrative

Job Narrative 240-102293-2

Comments

No additional comments.

Receipt

The samples were received on 10/4/2018 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.9° C, 3.3° C and 3.5° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) for analytical batch 240-350264 recovered outside control limits for the following analytes: Benzene, Chloroform, 4-Methyl-2-pentanone and 1,2-Dichloropropane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 240-350264 recovered above the upper control limit for 1,2-Dichloropropane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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: 240-102293-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
5030B	Purge and Trap	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: 240-102293-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-102293-1	GW-100318-BE-011	Water	10/03/18 10:18	10/04/18 09:30
240-102293-2	GW-100318-AF-010	Water	10/03/18 10:30	10/04/18 09:30
240-102293-3	GW-100318-BE-013	Water	10/03/18 11:26	10/04/18 09:30
240-102293-4	GW-100318-AF-012	Water	10/03/18 13:00	10/04/18 09:30
240-102293-5	GW-100318-BE-015	Water	10/03/18 13:18	10/04/18 09:30
240-102293-6	GW-100318-BE-017	Water	10/03/18 14:53	10/04/18 09:30
240-102293-7	GW-100318-AF-014	Water	10/03/18 14:37	10/04/18 09:30
240-102293-8	GW-100318-BE-019	Water	10/03/18 14:56	10/04/18 09:30
240-102293-9	GW-100318-AF-016	Water	10/03/18 15:37	10/04/18 09:30
240-102293-10	TB-100318-AF-003	Water	10/03/18 16:30	10/04/18 09:30
240-102293-11	EB-100318-BE-001	Water	10/03/18 16:15	10/04/18 09:30

Detection Summary

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

TestAmerica Job ID: 240-102293-2

Client Sample ID: GW-100318-BE-011

Lab Sample ID: 240-102293-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	890		40	6.4	ug/L	40		8260B	Total/NA
trans-1,2-Dichloroethene	29	J	40	7.6	ug/L	40		8260B	Total/NA
Trichloroethene	47		40	4.0	ug/L	40		8260B	Total/NA

Client Sample ID: GW-100318-AF-010

Lab Sample ID: 240-102293-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	340		250	60	ug/L	250		8260B	Total/NA
1,1-Dichloroethane	200	J	250	43	ug/L	250		8260B	Total/NA
1,1-Dichloroethene	68	J	250	48	ug/L	250		8260B	Total/NA
cis-1,2-Dichloroethene	4800		250	40	ug/L	250		8260B	Total/NA
Trichloroethene	8500		250	25	ug/L	250		8260B	Total/NA

Client Sample ID: GW-100318-BE-013

Lab Sample ID: 240-102293-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	160	J	200	34	ug/L	200		8260B	Total/NA
cis-1,2-Dichloroethene	5400		200	32	ug/L	200		8260B	Total/NA
2-Butanone (MEK)	490	J	2000	230	ug/L	200		8260B	Total/NA
trans-1,2-Dichloroethene	78	J	200	38	ug/L	200		8260B	Total/NA
Trichloroethene	280		200	20	ug/L	200		8260B	Total/NA
Vinyl chloride	220		200	40	ug/L	200		8260B	Total/NA

Client Sample ID: GW-100318-AF-012

Lab Sample ID: 240-102293-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.19	J	1.0	0.17	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.46	J	1.0	0.16	ug/L	1		8260B	Total/NA
Trichloroethene	1.3		1.0	0.10	ug/L	1		8260B	Total/NA

Client Sample ID: GW-100318-BE-015

Lab Sample ID: 240-102293-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	160	J	200	34	ug/L	200		8260B	Total/NA
cis-1,2-Dichloroethene	3400		200	32	ug/L	200		8260B	Total/NA
trans-1,2-Dichloroethene	180	J	200	38	ug/L	200		8260B	Total/NA

Client Sample ID: GW-100318-BE-017

Lab Sample ID: 240-102293-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	14		10	1.7	ug/L	10		8260B	Total/NA
cis-1,2-Dichloroethene	210		10	1.6	ug/L	10		8260B	Total/NA
2-Butanone (MEK)	18	J	100	12	ug/L	10		8260B	Total/NA
trans-1,2-Dichloroethene	23		10	1.9	ug/L	10		8260B	Total/NA
Vinyl chloride	83		10	2.0	ug/L	10		8260B	Total/NA

Client Sample ID: GW-100318-AF-014

Lab Sample ID: 240-102293-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4100		200	32	ug/L	200		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

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

TestAmerica Job ID: 240-102293-2

Client Sample ID: GW-100318-AF-014 (Continued)

Lab Sample ID: 240-102293-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	380	J	2000	230	ug/L	200		8260B	Total/NA
Vinyl chloride	130	J	200	40	ug/L	200		8260B	Total/NA

Client Sample ID: GW-100318-BE-019

Lab Sample ID: 240-102293-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	14		10	1.7	ug/L	10		8260B	Total/NA
cis-1,2-Dichloroethene	210		10	1.6	ug/L	10		8260B	Total/NA
trans-1,2-Dichloroethene	22		10	1.9	ug/L	10		8260B	Total/NA
Vinyl chloride	89		10	2.0	ug/L	10		8260B	Total/NA

Client Sample ID: GW-100318-AF-016

Lab Sample ID: 240-102293-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	220		5.0	1.0	ug/L	5		8260B	Total/NA

Client Sample ID: TB-100318-AF-003

Lab Sample ID: 240-102293-10

No Detections.

Client Sample ID: EB-100318-BE-001

Lab Sample ID: 240-102293-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.29	J	1.0	0.28	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.53	J	1.0	0.16	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102293-2

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

Client Sample ID: GW-100318-BE-011

Date Collected: 10/03/18 10:18

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	40	U	40	9.6	ug/L			10/13/18 20:59	40
1,1,2,2-Tetrachloroethane	40	U	40	5.2	ug/L			10/13/18 20:59	40
1,1,2-Trichloroethane	40	U	40	3.6	ug/L			10/13/18 20:59	40
1,1-Dichloroethane	40	U	40	6.8	ug/L			10/13/18 20:59	40
1,1-Dichloroethene	40	U	40	7.6	ug/L			10/13/18 20:59	40
1,2-Dichloroethane	40	U	40	8.4	ug/L			10/13/18 20:59	40
1,2-Dichloropropane	40	U	40	6.0	ug/L			10/13/18 20:59	40
2-Hexanone	400	U	400	22	ug/L			10/13/18 20:59	40
Acetone	400	U	400	220	ug/L			10/13/18 20:59	40
Benzene	40	U	40	5.2	ug/L			10/13/18 20:59	40
Bromoform	40	U	40	30	ug/L			10/13/18 20:59	40
Bromomethane	40	U	40	17	ug/L			10/13/18 20:59	40
Carbon disulfide	40	U	40	11	ug/L			10/13/18 20:59	40
Carbon tetrachloride	40	U	40	10	ug/L			10/13/18 20:59	40
Chlorobenzene	40	U	40	5.6	ug/L			10/13/18 20:59	40
Chloroethane	40	U	40	33	ug/L			10/13/18 20:59	40
Chloroform	40	U	40	5.2	ug/L			10/13/18 20:59	40
Chloromethane	40	U	40	8.0	ug/L			10/13/18 20:59	40
cis-1,2-Dichloroethene	890		40	6.4	ug/L			10/13/18 20:59	40
cis-1,3-Dichloropropene	40	U	40	24	ug/L			10/13/18 20:59	40
Dichlorobromomethane	40	U	40	6.8	ug/L			10/13/18 20:59	40
Ethylbenzene	40	U	40	4.4	ug/L			10/13/18 20:59	40
2-Butanone (MEK)	400	U	400	46	ug/L			10/13/18 20:59	40
4-Methyl-2-pentanone (MIBK)	400	U	400	17	ug/L			10/13/18 20:59	40
Methylene Chloride	200	U	200	100	ug/L			10/13/18 20:59	40
Styrene	40	U	40	4.0	ug/L			10/13/18 20:59	40
Tetrachloroethene	40	U	40	6.0	ug/L			10/13/18 20:59	40
Toluene	40	U	40	5.6	ug/L			10/13/18 20:59	40
trans-1,2-Dichloroethene	29	J	40	7.6	ug/L			10/13/18 20:59	40
trans-1,3-Dichloropropene	40	U	40	27	ug/L			10/13/18 20:59	40
Trichloroethene	47		40	4.0	ug/L			10/13/18 20:59	40
Vinyl chloride	40	U	40	8.0	ug/L			10/13/18 20:59	40
Xylenes, Total	80	U	80	6.0	ug/L			10/13/18 20:59	40
Chlorodibromomethane	40	U	40	16	ug/L			10/13/18 20:59	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 121		10/13/18 20:59	40
4-Bromofluorobenzene (Surr)	95		59 - 120		10/13/18 20:59	40
Toluene-d8 (Surr)	99		70 - 123		10/13/18 20:59	40
Dibromofluoromethane (Surr)	101		75 - 128		10/13/18 20:59	40

Client Sample ID: GW-100318-AF-010

Date Collected: 10/03/18 10:30

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	340		250	60	ug/L			10/13/18 21:21	250
1,1,2,2-Tetrachloroethane	250	U	250	33	ug/L			10/13/18 21:21	250
1,1,2-Trichloroethane	250	U	250	23	ug/L			10/13/18 21:21	250
1,1-Dichloroethane	200	J	250	43	ug/L			10/13/18 21:21	250
1,1-Dichloroethene	68	J	250	48	ug/L			10/13/18 21:21	250

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Client Sample Results

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

TestAmerica Job ID: 240-102293-2

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

Client Sample ID: GW-100318-AF-010

Date Collected: 10/03/18 10:30

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	250	U	250	53	ug/L			10/13/18 21:21	250
1,2-Dichloropropane	250	U	250	38	ug/L			10/13/18 21:21	250
2-Hexanone	2500	U	2500	140	ug/L			10/13/18 21:21	250
Acetone	2500	U	2500	1400	ug/L			10/13/18 21:21	250
Benzene	250	U	250	33	ug/L			10/13/18 21:21	250
Bromoform	250	U	250	190	ug/L			10/13/18 21:21	250
Bromomethane	250	U	250	110	ug/L			10/13/18 21:21	250
Carbon disulfide	250	U	250	70	ug/L			10/13/18 21:21	250
Carbon tetrachloride	250	U	250	65	ug/L			10/13/18 21:21	250
Chlorobenzene	250	U	250	35	ug/L			10/13/18 21:21	250
Chloroethane	250	U	250	210	ug/L			10/13/18 21:21	250
Chloroform	250	U	250	33	ug/L			10/13/18 21:21	250
Chloromethane	250	U	250	50	ug/L			10/13/18 21:21	250
cis-1,2-Dichloroethene	4800		250	40	ug/L			10/13/18 21:21	250
cis-1,3-Dichloropropene	250	U	250	150	ug/L			10/13/18 21:21	250
Dichlorobromomethane	250	U	250	43	ug/L			10/13/18 21:21	250
Ethylbenzene	250	U	250	28	ug/L			10/13/18 21:21	250
2-Butanone (MEK)	2500	U	2500	290	ug/L			10/13/18 21:21	250
4-Methyl-2-pentanone (MIBK)	2500	U	2500	110	ug/L			10/13/18 21:21	250
Methylene Chloride	1300	U	1300	660	ug/L			10/13/18 21:21	250
Styrene	250	U	250	25	ug/L			10/13/18 21:21	250
Tetrachloroethene	250	U	250	38	ug/L			10/13/18 21:21	250
Toluene	250	U	250	35	ug/L			10/13/18 21:21	250
trans-1,2-Dichloroethene	250	U	250	48	ug/L			10/13/18 21:21	250
trans-1,3-Dichloropropene	250	U	250	170	ug/L			10/13/18 21:21	250
Trichloroethene	8500		250	25	ug/L			10/13/18 21:21	250
Vinyl chloride	250	U	250	50	ug/L			10/13/18 21:21	250
Xylenes, Total	500	U	500	38	ug/L			10/13/18 21:21	250
Chlorodibromomethane	250	U	250	98	ug/L			10/13/18 21:21	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 121		10/13/18 21:21	250
4-Bromofluorobenzene (Surr)	94		59 - 120		10/13/18 21:21	250
Toluene-d8 (Surr)	101		70 - 123		10/13/18 21:21	250
Dibromofluoromethane (Surr)	106		75 - 128		10/13/18 21:21	250

Client Sample ID: GW-100318-BE-013

Date Collected: 10/03/18 11:26

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	200	U	200	48	ug/L			10/13/18 22:51	200
1,1,2,2-Tetrachloroethane	200	U	200	26	ug/L			10/13/18 22:51	200
1,1,2-Trichloroethane	200	U	200	18	ug/L			10/13/18 22:51	200
1,1-Dichloroethane	160	J	200	34	ug/L			10/13/18 22:51	200
1,1-Dichloroethene	200	U	200	38	ug/L			10/13/18 22:51	200
1,2-Dichloroethane	200	U	200	42	ug/L			10/13/18 22:51	200
1,2-Dichloropropane	200	U	200	30	ug/L			10/13/18 22:51	200
2-Hexanone	2000	U	2000	110	ug/L			10/13/18 22:51	200
Acetone	2000	U	2000	1100	ug/L			10/13/18 22:51	200
Benzene	200	U	200	26	ug/L			10/13/18 22:51	200

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Client Sample Results

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

TestAmerica Job ID: 240-102293-2

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

Client Sample ID: GW-100318-BE-013

Date Collected: 10/03/18 11:26

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	200	U	200	150	ug/L			10/13/18 22:51	200
Bromomethane	200	U	200	84	ug/L			10/13/18 22:51	200
Carbon disulfide	200	U	200	56	ug/L			10/13/18 22:51	200
Carbon tetrachloride	200	U	200	52	ug/L			10/13/18 22:51	200
Chlorobenzene	200	U	200	28	ug/L			10/13/18 22:51	200
Chloroethane	200	U	200	170	ug/L			10/13/18 22:51	200
Chloroform	200	U	200	26	ug/L			10/13/18 22:51	200
Chloromethane	200	U	200	40	ug/L			10/13/18 22:51	200
cis-1,2-Dichloroethene	5400		200	32	ug/L			10/13/18 22:51	200
cis-1,3-Dichloropropene	200	U	200	120	ug/L			10/13/18 22:51	200
Dichlorobromomethane	200	U	200	34	ug/L			10/13/18 22:51	200
Ethylbenzene	200	U	200	22	ug/L			10/13/18 22:51	200
2-Butanone (MEK)	490	J	2000	230	ug/L			10/13/18 22:51	200
4-Methyl-2-pentanone (MIBK)	2000	U	2000	84	ug/L			10/13/18 22:51	200
Methylene Chloride	1000	U	1000	520	ug/L			10/13/18 22:51	200
Styrene	200	U	200	20	ug/L			10/13/18 22:51	200
Tetrachloroethene	200	U	200	30	ug/L			10/13/18 22:51	200
Toluene	200	U	200	28	ug/L			10/13/18 22:51	200
trans-1,2-Dichloroethene	78	J	200	38	ug/L			10/13/18 22:51	200
trans-1,3-Dichloropropene	200	U	200	130	ug/L			10/13/18 22:51	200
Trichloroethene	280		200	20	ug/L			10/13/18 22:51	200
Vinyl chloride	220		200	40	ug/L			10/13/18 22:51	200
Xylenes, Total	400	U	400	30	ug/L			10/13/18 22:51	200
Chlorodibromomethane	200	U	200	78	ug/L			10/13/18 22:51	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 121		10/13/18 22:51	200
4-Bromofluorobenzene (Surr)	95		59 - 120		10/13/18 22:51	200
Toluene-d8 (Surr)	101		70 - 123		10/13/18 22:51	200
Dibromofluoromethane (Surr)	109		75 - 128		10/13/18 22:51	200

Client Sample ID: GW-100318-AF-012

Date Collected: 10/03/18 13:00

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/13/18 23:13	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/13/18 23:13	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/13/18 23:13	1
1,1-Dichloroethane	0.19	J	1.0	0.17	ug/L			10/13/18 23:13	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/13/18 23:13	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/13/18 23:13	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/13/18 23:13	1
2-Hexanone	10	U	10	0.54	ug/L			10/13/18 23:13	1
Acetone	10	U	10	5.4	ug/L			10/13/18 23:13	1
Benzene	1.0	U	1.0	0.13	ug/L			10/13/18 23:13	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/13/18 23:13	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/13/18 23:13	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/13/18 23:13	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/13/18 23:13	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/13/18 23:13	1

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Client Sample Results

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

TestAmerica Job ID: 240-102293-2

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

Client Sample ID: GW-100318-AF-012

Date Collected: 10/03/18 13:00

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0	0.83	ug/L			10/13/18 23:13	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/13/18 23:13	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/13/18 23:13	1
cis-1,2-Dichloroethene	0.46	J	1.0	0.16	ug/L			10/13/18 23:13	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/13/18 23:13	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/13/18 23:13	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/13/18 23:13	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/13/18 23:13	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/13/18 23:13	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/13/18 23:13	1
Styrene	1.0	U	1.0	0.10	ug/L			10/13/18 23:13	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/13/18 23:13	1
Toluene	1.0	U	1.0	0.14	ug/L			10/13/18 23:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/13/18 23:13	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/13/18 23:13	1
Trichloroethene	1.3		1.0	0.10	ug/L			10/13/18 23:13	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/13/18 23:13	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/13/18 23:13	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/13/18 23:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 121		10/13/18 23:13	1
4-Bromofluorobenzene (Surr)	95		59 - 120		10/13/18 23:13	1
Toluene-d8 (Surr)	100		70 - 123		10/13/18 23:13	1
Dibromofluoromethane (Surr)	103		75 - 128		10/13/18 23:13	1

Client Sample ID: GW-100318-BE-015

Date Collected: 10/03/18 13:18

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	200	U	200	48	ug/L			10/13/18 23:35	200
1,1,1,2-Tetrachloroethane	200	U	200	26	ug/L			10/13/18 23:35	200
1,1,2-Trichloroethane	200	U	200	18	ug/L			10/13/18 23:35	200
1,1-Dichloroethane	160	J	200	34	ug/L			10/13/18 23:35	200
1,1-Dichloroethene	200	U	200	38	ug/L			10/13/18 23:35	200
1,2-Dichloroethane	200	U	200	42	ug/L			10/13/18 23:35	200
1,2-Dichloropropane	200	U	200	30	ug/L			10/13/18 23:35	200
2-Hexanone	2000	U	2000	110	ug/L			10/13/18 23:35	200
Acetone	2000	U	2000	1100	ug/L			10/13/18 23:35	200
Benzene	200	U	200	26	ug/L			10/13/18 23:35	200
Bromoform	200	U	200	150	ug/L			10/13/18 23:35	200
Bromomethane	200	U	200	84	ug/L			10/13/18 23:35	200
Carbon disulfide	200	U	200	56	ug/L			10/13/18 23:35	200
Carbon tetrachloride	200	U	200	52	ug/L			10/13/18 23:35	200
Chlorobenzene	200	U	200	28	ug/L			10/13/18 23:35	200
Chloroethane	200	U	200	170	ug/L			10/13/18 23:35	200
Chloroform	200	U	200	26	ug/L			10/13/18 23:35	200
Chloromethane	200	U	200	40	ug/L			10/13/18 23:35	200
cis-1,2-Dichloroethene	3400		200	32	ug/L			10/13/18 23:35	200
cis-1,3-Dichloropropene	200	U	200	120	ug/L			10/13/18 23:35	200

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Client Sample Results

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

TestAmerica Job ID: 240-102293-2

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

Client Sample ID: GW-100318-BE-015

Date Collected: 10/03/18 13:18

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	200	U	200	34	ug/L			10/13/18 23:35	200
Ethylbenzene	200	U	200	22	ug/L			10/13/18 23:35	200
2-Butanone (MEK)	2000	U	2000	230	ug/L			10/13/18 23:35	200
4-Methyl-2-pentanone (MIBK)	2000	U	2000	84	ug/L			10/13/18 23:35	200
Methylene Chloride	1000	U	1000	520	ug/L			10/13/18 23:35	200
Styrene	200	U	200	20	ug/L			10/13/18 23:35	200
Tetrachloroethene	200	U	200	30	ug/L			10/13/18 23:35	200
Toluene	200	U	200	28	ug/L			10/13/18 23:35	200
trans-1,2-Dichloroethene	180	J	200	38	ug/L			10/13/18 23:35	200
trans-1,3-Dichloropropene	200	U	200	130	ug/L			10/13/18 23:35	200
Trichloroethene	200	U	200	20	ug/L			10/13/18 23:35	200
Vinyl chloride	200	U	200	40	ug/L			10/13/18 23:35	200
Xylenes, Total	400	U	400	30	ug/L			10/13/18 23:35	200
Chlorodibromomethane	200	U	200	78	ug/L			10/13/18 23:35	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 121		10/13/18 23:35	200
4-Bromofluorobenzene (Surr)	94		59 - 120		10/13/18 23:35	200
Toluene-d8 (Surr)	101		70 - 123		10/13/18 23:35	200
Dibromofluoromethane (Surr)	105		75 - 128		10/13/18 23:35	200

Client Sample ID: GW-100318-BE-017

Date Collected: 10/03/18 14:53

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	10	U	10	2.4	ug/L			10/13/18 23:58	10
1,1,1,2-Tetrachloroethane	10	U	10	1.3	ug/L			10/13/18 23:58	10
1,1,2-Trichloroethane	10	U	10	0.90	ug/L			10/13/18 23:58	10
1,1-Dichloroethane	14		10	1.7	ug/L			10/13/18 23:58	10
1,1-Dichloroethene	10	U	10	1.9	ug/L			10/13/18 23:58	10
1,2-Dichloroethane	10	U	10	2.1	ug/L			10/13/18 23:58	10
1,2-Dichloropropane	10	U	10	1.5	ug/L			10/13/18 23:58	10
2-Hexanone	100	U	100	5.4	ug/L			10/13/18 23:58	10
Acetone	100	U	100	54	ug/L			10/13/18 23:58	10
Benzene	10	U	10	1.3	ug/L			10/13/18 23:58	10
Bromoform	10	U	10	7.6	ug/L			10/13/18 23:58	10
Bromomethane	10	U	10	4.2	ug/L			10/13/18 23:58	10
Carbon disulfide	10	U	10	2.8	ug/L			10/13/18 23:58	10
Carbon tetrachloride	10	U	10	2.6	ug/L			10/13/18 23:58	10
Chlorobenzene	10	U	10	1.4	ug/L			10/13/18 23:58	10
Chloroethane	10	U	10	8.3	ug/L			10/13/18 23:58	10
Chloroform	10	U	10	1.3	ug/L			10/13/18 23:58	10
Chloromethane	10	U	10	2.0	ug/L			10/13/18 23:58	10
cis-1,2-Dichloroethene	210		10	1.6	ug/L			10/13/18 23:58	10
cis-1,3-Dichloropropene	10	U	10	6.1	ug/L			10/13/18 23:58	10
Dichlorobromomethane	10	U	10	1.7	ug/L			10/13/18 23:58	10
Ethylbenzene	10	U	10	1.1	ug/L			10/13/18 23:58	10
2-Butanone (MEK)	18	J	100	12	ug/L			10/13/18 23:58	10
4-Methyl-2-pentanone (MIBK)	100	U	100	4.2	ug/L			10/13/18 23:58	10
Methylene Chloride	50	U	50	26	ug/L			10/13/18 23:58	10

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102293-2

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

Client Sample ID: GW-100318-BE-017

Date Collected: 10/03/18 14:53

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	10	U	10	1.0	ug/L			10/13/18 23:58	10
Tetrachloroethene	10	U	10	1.5	ug/L			10/13/18 23:58	10
Toluene	10	U	10	1.4	ug/L			10/13/18 23:58	10
trans-1,2-Dichloroethene	23		10	1.9	ug/L			10/13/18 23:58	10
trans-1,3-Dichloropropene	10	U	10	6.7	ug/L			10/13/18 23:58	10
Trichloroethene	10	U	10	1.0	ug/L			10/13/18 23:58	10
Vinyl chloride	83		10	2.0	ug/L			10/13/18 23:58	10
Xylenes, Total	20	U	20	1.5	ug/L			10/13/18 23:58	10
Chlorodibromomethane	10	U	10	3.9	ug/L			10/13/18 23:58	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 121					10/13/18 23:58	10
4-Bromofluorobenzene (Surr)	93		59 - 120					10/13/18 23:58	10
Toluene-d8 (Surr)	100		70 - 123					10/13/18 23:58	10
Dibromofluoromethane (Surr)	104		75 - 128					10/13/18 23:58	10

Client Sample ID: GW-100318-AF-014

Date Collected: 10/03/18 14:37

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	200	U	200	48	ug/L			10/14/18 00:20	200
1,1,2,2-Tetrachloroethane	200	U	200	26	ug/L			10/14/18 00:20	200
1,1,2-Trichloroethane	200	U	200	18	ug/L			10/14/18 00:20	200
1,1-Dichloroethane	200	U	200	34	ug/L			10/14/18 00:20	200
1,1-Dichloroethene	200	U	200	38	ug/L			10/14/18 00:20	200
1,2-Dichloroethane	200	U	200	42	ug/L			10/14/18 00:20	200
1,2-Dichloropropane	200	U	200	30	ug/L			10/14/18 00:20	200
2-Hexanone	2000	U	2000	110	ug/L			10/14/18 00:20	200
Acetone	2000	U	2000	1100	ug/L			10/14/18 00:20	200
Benzene	200	U	200	26	ug/L			10/14/18 00:20	200
Bromoform	200	U	200	150	ug/L			10/14/18 00:20	200
Bromomethane	200	U	200	84	ug/L			10/14/18 00:20	200
Carbon disulfide	200	U	200	56	ug/L			10/14/18 00:20	200
Carbon tetrachloride	200	U	200	52	ug/L			10/14/18 00:20	200
Chlorobenzene	200	U	200	28	ug/L			10/14/18 00:20	200
Chloroethane	200	U	200	170	ug/L			10/14/18 00:20	200
Chloroform	200	U	200	26	ug/L			10/14/18 00:20	200
Chloromethane	200	U	200	40	ug/L			10/14/18 00:20	200
cis-1,2-Dichloroethene	4100		200	32	ug/L			10/14/18 00:20	200
cis-1,3-Dichloropropene	200	U	200	120	ug/L			10/14/18 00:20	200
Dichlorobromomethane	200	U	200	34	ug/L			10/14/18 00:20	200
Ethylbenzene	200	U	200	22	ug/L			10/14/18 00:20	200
2-Butanone (MEK)	380	J	2000	230	ug/L			10/14/18 00:20	200
4-Methyl-2-pentanone (MIBK)	2000	U	2000	84	ug/L			10/14/18 00:20	200
Methylene Chloride	1000	U	1000	520	ug/L			10/14/18 00:20	200
Styrene	200	U	200	20	ug/L			10/14/18 00:20	200
Tetrachloroethene	200	U	200	30	ug/L			10/14/18 00:20	200
Toluene	200	U	200	28	ug/L			10/14/18 00:20	200
trans-1,2-Dichloroethene	200	U	200	38	ug/L			10/14/18 00:20	200
trans-1,3-Dichloropropene	200	U	200	130	ug/L			10/14/18 00:20	200

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102293-2

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

Client Sample ID: GW-100318-AF-014

Date Collected: 10/03/18 14:37

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	200	U	200	20	ug/L			10/14/18 00:20	200
Vinyl chloride	130	J	200	40	ug/L			10/14/18 00:20	200
Xylenes, Total	400	U	400	30	ug/L			10/14/18 00:20	200
Chlorodibromomethane	200	U	200	78	ug/L			10/14/18 00:20	200
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 121					10/14/18 00:20	200
4-Bromofluorobenzene (Surr)	94		59 - 120					10/14/18 00:20	200
Toluene-d8 (Surr)	99		70 - 123					10/14/18 00:20	200
Dibromofluoromethane (Surr)	103		75 - 128					10/14/18 00:20	200

Client Sample ID: GW-100318-BE-019

Date Collected: 10/03/18 14:56

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	10	U	10	2.4	ug/L			10/14/18 00:42	10
1,1,2,2-Tetrachloroethane	10	U	10	1.3	ug/L			10/14/18 00:42	10
1,1,2-Trichloroethane	10	U	10	0.90	ug/L			10/14/18 00:42	10
1,1-Dichloroethane	14		10	1.7	ug/L			10/14/18 00:42	10
1,1-Dichloroethene	10	U	10	1.9	ug/L			10/14/18 00:42	10
1,2-Dichloroethane	10	U	10	2.1	ug/L			10/14/18 00:42	10
1,2-Dichloropropane	10	U	10	1.5	ug/L			10/14/18 00:42	10
2-Hexanone	100	U	100	5.4	ug/L			10/14/18 00:42	10
Acetone	100	U	100	54	ug/L			10/14/18 00:42	10
Benzene	10	U	10	1.3	ug/L			10/14/18 00:42	10
Bromoform	10	U	10	7.6	ug/L			10/14/18 00:42	10
Bromomethane	10	U	10	4.2	ug/L			10/14/18 00:42	10
Carbon disulfide	10	U	10	2.8	ug/L			10/14/18 00:42	10
Carbon tetrachloride	10	U	10	2.6	ug/L			10/14/18 00:42	10
Chlorobenzene	10	U	10	1.4	ug/L			10/14/18 00:42	10
Chloroethane	10	U	10	8.3	ug/L			10/14/18 00:42	10
Chloroform	10	U	10	1.3	ug/L			10/14/18 00:42	10
Chloromethane	10	U	10	2.0	ug/L			10/14/18 00:42	10
cis-1,2-Dichloroethene	210		10	1.6	ug/L			10/14/18 00:42	10
cis-1,3-Dichloropropene	10	U	10	6.1	ug/L			10/14/18 00:42	10
Dichlorobromomethane	10	U	10	1.7	ug/L			10/14/18 00:42	10
Ethylbenzene	10	U	10	1.1	ug/L			10/14/18 00:42	10
2-Butanone (MEK)	100	U	100	12	ug/L			10/14/18 00:42	10
4-Methyl-2-pentanone (MIBK)	100	U	100	4.2	ug/L			10/14/18 00:42	10
Methylene Chloride	50	U	50	26	ug/L			10/14/18 00:42	10
Styrene	10	U	10	1.0	ug/L			10/14/18 00:42	10
Tetrachloroethene	10	U	10	1.5	ug/L			10/14/18 00:42	10
Toluene	10	U	10	1.4	ug/L			10/14/18 00:42	10
trans-1,2-Dichloroethene	22		10	1.9	ug/L			10/14/18 00:42	10
trans-1,3-Dichloropropene	10	U	10	6.7	ug/L			10/14/18 00:42	10
Trichloroethene	10	U	10	1.0	ug/L			10/14/18 00:42	10
Vinyl chloride	89		10	2.0	ug/L			10/14/18 00:42	10
Xylenes, Total	20	U	20	1.5	ug/L			10/14/18 00:42	10
Chlorodibromomethane	10	U	10	3.9	ug/L			10/14/18 00:42	10

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Client Sample Results

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

TestAmerica Job ID: 240-102293-2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 121		10/14/18 00:42	10
4-Bromofluorobenzene (Surr)	96		59 - 120		10/14/18 00:42	10
Toluene-d8 (Surr)	104		70 - 123		10/14/18 00:42	10
Dibromofluoromethane (Surr)	110		75 - 128		10/14/18 00:42	10

Client Sample ID: GW-100318-AF-016

Date Collected: 10/03/18 15:37

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	1.2	ug/L			10/16/18 13:52	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.65	ug/L			10/16/18 13:52	5
1,1,2-Trichloroethane	5.0	U	5.0	0.45	ug/L			10/16/18 13:52	5
1,1-Dichloroethane	5.0	U	5.0	0.85	ug/L			10/16/18 13:52	5
1,1-Dichloroethene	5.0	U	5.0	0.95	ug/L			10/16/18 13:52	5
1,2-Dichloroethane	5.0	U	5.0	1.1	ug/L			10/16/18 13:52	5
1,2-Dichloropropane	5.0	U F1 *	5.0	0.75	ug/L			10/16/18 13:52	5
2-Hexanone	50	U	50	2.7	ug/L			10/16/18 13:52	5
Acetone	50	U	50	27	ug/L			10/16/18 13:52	5
Benzene	5.0	U *	5.0	0.65	ug/L			10/16/18 13:52	5
Bromoform	5.0	U	5.0	3.8	ug/L			10/16/18 13:52	5
Bromomethane	5.0	U	5.0	2.1	ug/L			10/16/18 13:52	5
Carbon disulfide	5.0	U	5.0	1.4	ug/L			10/16/18 13:52	5
Carbon tetrachloride	5.0	U	5.0	1.3	ug/L			10/16/18 13:52	5
Chlorobenzene	5.0	U	5.0	0.70	ug/L			10/16/18 13:52	5
Chloroethane	5.0	U	5.0	4.2	ug/L			10/16/18 13:52	5
Chloroform	5.0	U *	5.0	0.65	ug/L			10/16/18 13:52	5
Chloromethane	5.0	U	5.0	1.0	ug/L			10/16/18 13:52	5
cis-1,2-Dichloroethene	5.0	U	5.0	0.80	ug/L			10/16/18 13:52	5
cis-1,3-Dichloropropene	5.0	U	5.0	3.1	ug/L			10/16/18 13:52	5
Dichlorobromomethane	5.0	U	5.0	0.85	ug/L			10/16/18 13:52	5
Ethylbenzene	5.0	U	5.0	0.55	ug/L			10/16/18 13:52	5
2-Butanone (MEK)	50	U	50	5.8	ug/L			10/16/18 13:52	5
4-Methyl-2-pentanone (MIBK)	50	U *	50	2.1	ug/L			10/16/18 13:52	5
Methylene Chloride	25	U	25	13	ug/L			10/16/18 13:52	5
Styrene	5.0	U	5.0	0.50	ug/L			10/16/18 13:52	5
Tetrachloroethene	5.0	U	5.0	0.75	ug/L			10/16/18 13:52	5
Toluene	5.0	U	5.0	0.70	ug/L			10/16/18 13:52	5
trans-1,2-Dichloroethene	5.0	U	5.0	0.95	ug/L			10/16/18 13:52	5
trans-1,3-Dichloropropene	5.0	U	5.0	3.4	ug/L			10/16/18 13:52	5
Trichloroethene	5.0	U	5.0	0.50	ug/L			10/16/18 13:52	5
Vinyl chloride	220		5.0	1.0	ug/L			10/16/18 13:52	5
Xylenes, Total	10	U	10	0.75	ug/L			10/16/18 13:52	5
Chlorodibromomethane	5.0	U	5.0	2.0	ug/L			10/16/18 13:52	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 121		10/16/18 13:52	5
4-Bromofluorobenzene (Surr)	81		59 - 120		10/16/18 13:52	5
Toluene-d8 (Surr)	91		70 - 123		10/16/18 13:52	5
Dibromofluoromethane (Surr)	101		75 - 128		10/16/18 13:52	5

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102293-2

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

Client Sample ID: TB-100318-AF-003

Date Collected: 10/03/18 16:30

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-10

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/14/18 01:27	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/14/18 01:27	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/14/18 01:27	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/14/18 01:27	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/14/18 01:27	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/14/18 01:27	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/14/18 01:27	1
2-Hexanone	10	U	10	0.54	ug/L			10/14/18 01:27	1
Acetone	10	U	10	5.4	ug/L			10/14/18 01:27	1
Benzene	1.0	U	1.0	0.13	ug/L			10/14/18 01:27	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/14/18 01:27	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/14/18 01:27	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/14/18 01:27	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/14/18 01:27	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/14/18 01:27	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/14/18 01:27	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/14/18 01:27	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/14/18 01:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/14/18 01:27	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/14/18 01:27	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/14/18 01:27	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/14/18 01:27	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/14/18 01:27	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/14/18 01:27	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/14/18 01:27	1
Styrene	1.0	U	1.0	0.10	ug/L			10/14/18 01:27	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/14/18 01:27	1
Toluene	1.0	U	1.0	0.14	ug/L			10/14/18 01:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/14/18 01:27	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/14/18 01:27	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/14/18 01:27	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/14/18 01:27	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/14/18 01:27	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/14/18 01:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 121		10/14/18 01:27	1
4-Bromofluorobenzene (Surr)	92		59 - 120		10/14/18 01:27	1
Toluene-d8 (Surr)	99		70 - 123		10/14/18 01:27	1
Dibromofluoromethane (Surr)	105		75 - 128		10/14/18 01:27	1

Client Sample ID: EB-100318-BE-001

Date Collected: 10/03/18 16:15

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-11

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/14/18 01:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/14/18 01:49	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/14/18 01:49	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/14/18 01:49	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/14/18 01:49	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102293-2

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

Client Sample ID: EB-100318-BE-001

Date Collected: 10/03/18 16:15

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-11

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/14/18 01:49	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/14/18 01:49	1
2-Hexanone	10	U	10	0.54	ug/L			10/14/18 01:49	1
Acetone	10	U	10	5.4	ug/L			10/14/18 01:49	1
Benzene	1.0	U	1.0	0.13	ug/L			10/14/18 01:49	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/14/18 01:49	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/14/18 01:49	1
Carbon disulfide	0.29	J	1.0	0.28	ug/L			10/14/18 01:49	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/14/18 01:49	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/14/18 01:49	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/14/18 01:49	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/14/18 01:49	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/14/18 01:49	1
cis-1,2-Dichloroethene	0.53	J	1.0	0.16	ug/L			10/14/18 01:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/14/18 01:49	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/14/18 01:49	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/14/18 01:49	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/14/18 01:49	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/14/18 01:49	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/14/18 01:49	1
Styrene	1.0	U	1.0	0.10	ug/L			10/14/18 01:49	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/14/18 01:49	1
Toluene	1.0	U	1.0	0.14	ug/L			10/14/18 01:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/14/18 01:49	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/14/18 01:49	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/14/18 01:49	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/14/18 01:49	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/14/18 01:49	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/14/18 01:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 121					10/14/18 01:49	1
4-Bromofluorobenzene (Surr)	93		59 - 120					10/14/18 01:49	1
Toluene-d8 (Surr)	100		70 - 123					10/14/18 01:49	1
Dibromofluoromethane (Surr)	107		75 - 128					10/14/18 01:49	1

TestAmerica Canton

Surrogate Summary

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

TestAmerica Job ID: 240-102293-2

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (70-121)	BFB (59-120)	TOL (70-123)	DBFM (75-128)
240-102293-1	GW-100318-BE-011	104	95	99	101
240-102293-2	GW-100318-AF-010	108	94	101	106
240-102293-2 MS	GW-100318-AF-010	103	103	103	103
240-102293-2 MSD	GW-100318-AF-010	99	97	100	101
240-102293-3	GW-100318-BE-013	108	95	101	109
240-102293-4	GW-100318-AF-012	106	95	100	103
240-102293-5	GW-100318-BE-015	108	94	101	105
240-102293-6	GW-100318-BE-017	108	93	100	104
240-102293-7	GW-100318-AF-014	103	94	99	103
240-102293-8	GW-100318-BE-019	109	96	104	110
240-102293-9	GW-100318-AF-016	108	81	91	101
240-102293-9 MS	GW-100318-AF-016	108	89	92	100
240-102293-9 MSD	GW-100318-AF-016	110	91	93	103
240-102293-10	TB-100318-AF-003	104	92	99	105
240-102293-11	EB-100318-BE-001	106	93	100	107
LCS 240-349978/4	Lab Control Sample	105	102	103	100
LCS 240-350264/5	Lab Control Sample	115	88	95	103
MB 240-349978/6	Method Blank	112	97	101	107
MB 240-350264/7	Method Blank	109	83	92	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

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

TestAmerica Job ID: 240-102293-2

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

Lab Sample ID: MB 240-349978/6

Matrix: Water

Analysis Batch: 349978

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	0.24	ug/L			10/13/18 19:08	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/13/18 19:08	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/13/18 19:08	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/13/18 19:08	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/13/18 19:08	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/13/18 19:08	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/13/18 19:08	1
2-Hexanone	10	U	10	0.54	ug/L			10/13/18 19:08	1
Acetone	10	U	10	5.4	ug/L			10/13/18 19:08	1
Benzene	1.0	U	1.0	0.13	ug/L			10/13/18 19:08	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/13/18 19:08	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/13/18 19:08	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/13/18 19:08	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/13/18 19:08	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/13/18 19:08	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/13/18 19:08	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/13/18 19:08	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/13/18 19:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/13/18 19:08	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/13/18 19:08	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/13/18 19:08	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/13/18 19:08	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/13/18 19:08	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/13/18 19:08	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/13/18 19:08	1
Styrene	1.0	U	1.0	0.10	ug/L			10/13/18 19:08	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/13/18 19:08	1
Toluene	1.0	U	1.0	0.14	ug/L			10/13/18 19:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/13/18 19:08	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/13/18 19:08	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/13/18 19:08	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/13/18 19:08	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/13/18 19:08	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/13/18 19:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 121		10/13/18 19:08	1
4-Bromofluorobenzene (Surr)	97		59 - 120		10/13/18 19:08	1
Toluene-d8 (Surr)	101		70 - 123		10/13/18 19:08	1
Dibromofluoromethane (Surr)	107		75 - 128		10/13/18 19:08	1

Lab Sample ID: LCS 240-349978/4

Matrix: Water

Analysis Batch: 349978

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	19.0		ug/L		95	69 - 134
1,1,2,2-Tetrachloroethane	20.0	19.4		ug/L		97	65 - 139

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102293-2

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

Lab Sample ID: LCS 240-349978/4

Matrix: Water

Analysis Batch: 349978

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	21.0		ug/L		105	78 - 133
1,1-Dichloroethane	20.0	19.6		ug/L		98	75 - 133
1,1-Dichloroethene	20.0	19.3		ug/L		96	65 - 139
1,2-Dichloroethane	20.0	19.2		ug/L		96	71 - 135
1,2-Dichloropropane	20.0	20.4		ug/L		102	78 - 133
2-Hexanone	40.0	36.8		ug/L		92	43 - 148
Acetone	40.0	39.3		ug/L		98	21 - 162
Benzene	20.0	20.4		ug/L		102	80 - 123
Bromoform	20.0	18.9		ug/L		94	49 - 141
Bromomethane	20.0	17.4		ug/L		87	41 - 175
Carbon disulfide	20.0	17.9		ug/L		89	60 - 138
Carbon tetrachloride	20.0	18.5		ug/L		92	63 - 140
Chlorobenzene	20.0	20.3		ug/L		101	80 - 121
Chloroethane	20.0	17.7		ug/L		88	33 - 173
Chloroform	20.0	20.5		ug/L		102	79 - 127
Chloromethane	20.0	14.9		ug/L		75	54 - 143
cis-1,2-Dichloroethene	20.0	20.1		ug/L		100	76 - 128
cis-1,3-Dichloropropene	20.0	19.5		ug/L		97	64 - 132
Dichlorobromomethane	20.0	19.7		ug/L		98	77 - 125
Ethylbenzene	20.0	20.3		ug/L		101	80 - 120
m-Xylene & p-Xylene	20.0	20.7		ug/L		104	80 - 120
2-Butanone (MEK)	40.0	37.8		ug/L		94	39 - 163
4-Methyl-2-pentanone (MIBK)	40.0	38.0		ug/L		95	49 - 143
Methylene Chloride	20.0	18.7		ug/L		93	70 - 134
o-Xylene	20.0	21.1		ug/L		106	80 - 120
Styrene	20.0	20.5		ug/L		103	79 - 120
Tetrachloroethene	20.0	21.2		ug/L		106	74 - 130
Toluene	20.0	20.5		ug/L		102	78 - 129
trans-1,2-Dichloroethene	20.0	18.9		ug/L		95	78 - 133
trans-1,3-Dichloropropene	20.0	17.7		ug/L		89	55 - 128
Trichloroethene	20.0	19.1		ug/L		95	76 - 125
Vinyl chloride	20.0	16.5		ug/L		83	58 - 143
Xylenes, Total	40.0	41.8		ug/L		105	80 - 120
Chlorodibromomethane	20.0	20.1		ug/L		100	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		70 - 121
4-Bromofluorobenzene (Surr)	102		59 - 120
Toluene-d8 (Surr)	103		70 - 123
Dibromofluoromethane (Surr)	100		75 - 128

Lab Sample ID: 240-102293-2 MS

Matrix: Water

Analysis Batch: 349978

Client Sample ID: GW-100318-AF-010

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	340		5000	5280		ug/L		99	51 - 138
1,1,2,2-Tetrachloroethane	250	U	5000	4880		ug/L		98	60 - 137

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QC Sample Results

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

TestAmerica Job ID: 240-102293-2

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

Lab Sample ID: 240-102293-2 MS

Matrix: Water

Analysis Batch: 349978

Client Sample ID: GW-100318-AF-010

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	250	U	5000	5270		ug/L		105	76 - 132
1,1-Dichloroethane	200	J	5000	5150		ug/L		99	63 - 136
1,1-Dichloroethene	68	J	5000	5070		ug/L		100	53 - 140
1,2-Dichloroethane	250	U	5000	4890		ug/L		98	65 - 135
1,2-Dichloropropane	250	U	5000	5000		ug/L		100	70 - 132
2-Hexanone	2500	U	10000	9260		ug/L		93	42 - 150
Acetone	2500	U	10000	10300		ug/L		103	10 - 168
Benzene	250	U	5000	5090		ug/L		102	71 - 122
Bromoform	250	U	5000	4620		ug/L		92	44 - 129
Bromomethane	250	U	5000	4460		ug/L		89	19 - 187
Carbon disulfide	250	U	5000	4380		ug/L		88	43 - 144
Carbon tetrachloride	250	U	5000	4960		ug/L		99	41 - 143
Chlorobenzene	250	U	5000	5060		ug/L		101	70 - 123
Chloroethane	250	U	5000	4390		ug/L		88	11 - 189
Chloroform	250	U	5000	5150		ug/L		103	68 - 130
Chloromethane	250	U	5000	3690		ug/L		74	31 - 154
cis-1,2-Dichloroethene	4800		5000	9630		ug/L		97	64 - 130
cis-1,3-Dichloropropene	250	U	5000	4810		ug/L		96	48 - 127
Dichlorobromomethane	250	U	5000	4840		ug/L		97	64 - 125
Ethylbenzene	250	U	5000	5160		ug/L		103	66 - 120
m-Xylene & p-Xylene	500	U	5000	5140		ug/L		103	63 - 121
2-Butanone (MEK)	2500	U	10000	10100		ug/L		101	37 - 156
4-Methyl-2-pentanone (MIBK)	2500	U	10000	9230		ug/L		92	44 - 143
Methylene Chloride	1300	U	5000	4700		ug/L		94	61 - 130
o-Xylene	250	U	5000	5250		ug/L		105	69 - 120
Styrene	250	U	5000	5150		ug/L		103	68 - 120
Tetrachloroethene	250	U	5000	5230		ug/L		105	51 - 136
Toluene	250	U	5000	5120		ug/L		102	62 - 132
trans-1,2-Dichloroethene	250	U	5000	4970		ug/L		99	68 - 133
trans-1,3-Dichloropropene	250	U	5000	4310		ug/L		86	40 - 125
Trichloroethene	8500		5000	13100		ug/L		92	55 - 131
Vinyl chloride	250	U	5000	4110		ug/L		82	43 - 154
Xylenes, Total	500	U	10000	10400		ug/L		104	67 - 120
Chlorodibromomethane	250	U	5000	4990		ug/L		100	60 - 129

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 121
4-Bromofluorobenzene (Surr)	103		59 - 120
Toluene-d8 (Surr)	103		70 - 123
Dibromofluoromethane (Surr)	103		75 - 128

Lab Sample ID: 240-102293-2 MSD

Matrix: Water

Analysis Batch: 349978

Client Sample ID: GW-100318-AF-010

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	340		5000	5340		ug/L		100	51 - 138	1	27
1,1,2,2-Tetrachloroethane	250	U	5000	4900		ug/L		98	60 - 137	1	31

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102293-2

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

Lab Sample ID: 240-102293-2 MSD

Matrix: Water

Analysis Batch: 349978

Client Sample ID: GW-100318-AF-010

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	250	U	5000	5270		ug/L		105	76 - 132	0	25
1,1-Dichloroethane	200	J	5000	5150		ug/L		99	63 - 136	0	23
1,1-Dichloroethene	68	J	5000	5180		ug/L		102	53 - 140	2	35
1,2-Dichloroethane	250	U	5000	4870		ug/L		97	65 - 135	0	24
1,2-Dichloropropane	250	U	5000	4970		ug/L		99	70 - 132	1	26
2-Hexanone	2500	U	10000	8630		ug/L		86	42 - 150	7	35
Acetone	2500	U	10000	9140		ug/L		91	10 - 168	12	35
Benzene	250	U	5000	5040		ug/L		101	71 - 122	1	22
Bromoform	250	U	5000	4680		ug/L		94	44 - 129	1	28
Bromomethane	250	U	5000	4540		ug/L		91	19 - 187	2	35
Carbon disulfide	250	U	5000	4600		ug/L		92	43 - 144	5	33
Carbon tetrachloride	250	U	5000	5040		ug/L		101	41 - 143	2	30
Chlorobenzene	250	U	5000	4940		ug/L		99	70 - 123	2	23
Chloroethane	250	U	5000	4530		ug/L		91	11 - 189	3	35
Chloroform	250	U	5000	5250		ug/L		105	68 - 130	2	23
Chloromethane	250	U	5000	3930		ug/L		79	31 - 154	6	35
cis-1,2-Dichloroethene	4800		5000	9730		ug/L		99	64 - 130	1	21
cis-1,3-Dichloropropene	250	U	5000	4650		ug/L		93	48 - 127	3	30
Dichlorobromomethane	250	U	5000	4920		ug/L		98	64 - 125	1	27
Ethylbenzene	250	U	5000	5140		ug/L		103	66 - 120	0	24
m-Xylene & p-Xylene	500	U	5000	5170		ug/L		103	63 - 121	1	25
2-Butanone (MEK)	2500	U	10000	9410		ug/L		94	37 - 156	7	35
4-Methyl-2-pentanone (MIBK)	2500	U	10000	8790		ug/L		88	44 - 143	5	35
Methylene Chloride	1300	U	5000	4730		ug/L		95	61 - 130	1	29
o-Xylene	250	U	5000	5260		ug/L		105	69 - 120	0	25
Styrene	250	U	5000	5070		ug/L		101	68 - 120	2	26
Tetrachloroethene	250	U	5000	5270		ug/L		105	51 - 136	1	23
Toluene	250	U	5000	5070		ug/L		101	62 - 132	1	23
trans-1,2-Dichloroethene	250	U	5000	5070		ug/L		101	68 - 133	2	24
trans-1,3-Dichloropropene	250	U	5000	4290		ug/L		86	40 - 125	0	27
Trichloroethene	8500		5000	13100		ug/L		91	55 - 131	0	23
Vinyl chloride	250	U	5000	4290		ug/L		86	43 - 154	4	29
Xylenes, Total	500	U	10000	10400		ug/L		104	67 - 120	0	25
Chlorodibromomethane	250	U	5000	4990		ug/L		100	60 - 129	0	26

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 121
4-Bromofluorobenzene (Surr)	97		59 - 120
Toluene-d8 (Surr)	100		70 - 123
Dibromofluoromethane (Surr)	101		75 - 128

Lab Sample ID: MB 240-350264/7

Matrix: Water

Analysis Batch: 350264

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	0.24	ug/L			10/16/18 12:17	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/16/18 12:17	1

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QC Sample Results

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

TestAmerica Job ID: 240-102293-2

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

Lab Sample ID: MB 240-350264/7

Matrix: Water

Analysis Batch: 350264

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	0.090	ug/L			10/16/18 12:17	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/16/18 12:17	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/16/18 12:17	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/16/18 12:17	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/16/18 12:17	1
2-Hexanone	10	U	10	0.54	ug/L			10/16/18 12:17	1
Acetone	10	U	10	5.4	ug/L			10/16/18 12:17	1
Benzene	1.0	U	1.0	0.13	ug/L			10/16/18 12:17	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/16/18 12:17	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/16/18 12:17	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/16/18 12:17	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/16/18 12:17	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/16/18 12:17	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/16/18 12:17	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/16/18 12:17	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/16/18 12:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/16/18 12:17	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/16/18 12:17	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/16/18 12:17	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/16/18 12:17	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/16/18 12:17	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/16/18 12:17	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/16/18 12:17	1
Styrene	1.0	U	1.0	0.10	ug/L			10/16/18 12:17	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/16/18 12:17	1
Toluene	1.0	U	1.0	0.14	ug/L			10/16/18 12:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/16/18 12:17	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/16/18 12:17	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/16/18 12:17	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/16/18 12:17	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/16/18 12:17	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/16/18 12:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 121		10/16/18 12:17	1
4-Bromofluorobenzene (Surr)	83		59 - 120		10/16/18 12:17	1
Toluene-d8 (Surr)	92		70 - 123		10/16/18 12:17	1
Dibromofluoromethane (Surr)	102		75 - 128		10/16/18 12:17	1

Lab Sample ID: LCS 240-350264/5

Matrix: Water

Analysis Batch: 350264

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	24.4		ug/L		122	69 - 134
1,1,2,2-Tetrachloroethane	20.0	21.5		ug/L		107	65 - 139
1,1,2-Trichloroethane	20.0	22.5		ug/L		112	78 - 133
1,1-Dichloroethane	20.0	25.7		ug/L		128	75 - 133

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102293-2

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

Lab Sample ID: LCS 240-350264/5

Matrix: Water

Analysis Batch: 350264

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	20.0	20.5		ug/L		102	65 - 139
1,2-Dichloroethane	20.0	27.1		ug/L		135	71 - 135
1,2-Dichloropropane	20.0	28.3	*	ug/L		141	78 - 133
2-Hexanone	40.0	46.1		ug/L		115	43 - 148
Acetone	40.0	50.8		ug/L		127	21 - 162
Benzene	20.0	25.8	*	ug/L		129	80 - 123
Bromoform	20.0	18.6		ug/L		93	49 - 141
Bromomethane	20.0	20.6		ug/L		103	41 - 175
Carbon disulfide	20.0	18.3		ug/L		92	60 - 138
Carbon tetrachloride	20.0	24.2		ug/L		121	63 - 140
Chlorobenzene	20.0	20.4		ug/L		102	80 - 121
Chloroethane	20.0	21.6		ug/L		108	33 - 173
Chloroform	20.0	25.8	*	ug/L		129	79 - 127
Chloromethane	20.0	22.5		ug/L		113	54 - 143
cis-1,2-Dichloroethene	20.0	23.4		ug/L		117	76 - 128
cis-1,3-Dichloropropene	20.0	26.0		ug/L		130	64 - 132
Dichlorobromomethane	20.0	24.8		ug/L		124	77 - 125
Ethylbenzene	20.0	20.7		ug/L		103	80 - 120
m-Xylene & p-Xylene	20.0	20.5		ug/L		102	80 - 120
2-Butanone (MEK)	40.0	51.1		ug/L		128	39 - 163
4-Methyl-2-pentanone (MIBK)	40.0	58.9	*	ug/L		147	49 - 143
Methylene Chloride	20.0	21.4		ug/L		107	70 - 134
o-Xylene	20.0	20.1		ug/L		100	80 - 120
Styrene	20.0	20.4		ug/L		102	79 - 120
Tetrachloroethene	20.0	20.3		ug/L		101	74 - 130
Toluene	20.0	22.1		ug/L		110	78 - 129
trans-1,2-Dichloroethene	20.0	23.9		ug/L		120	78 - 133
trans-1,3-Dichloropropene	20.0	20.5		ug/L		102	55 - 128
Trichloroethene	20.0	24.2		ug/L		121	76 - 125
Vinyl chloride	20.0	21.5		ug/L		107	58 - 143
Xylenes, Total	40.0	40.6		ug/L		102	80 - 120
Chlorodibromomethane	20.0	20.2		ug/L		101	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	115		70 - 121
4-Bromofluorobenzene (Surr)	88		59 - 120
Toluene-d8 (Surr)	95		70 - 123
Dibromofluoromethane (Surr)	103		75 - 128

Lab Sample ID: 240-102293-9 MS

Matrix: Water

Analysis Batch: 350264

Client Sample ID: GW-100318-AF-016

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	5.0	U	100	112		ug/L		112	51 - 138
1,1,2,2-Tetrachloroethane	5.0	U	100	97.2		ug/L		97	60 - 137
1,1,2-Trichloroethane	5.0	U	100	108		ug/L		108	76 - 132
1,1-Dichloroethane	5.0	U	100	116		ug/L		116	63 - 136

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102293-2

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

Lab Sample ID: 240-102293-9 MS

Matrix: Water

Analysis Batch: 350264

Client Sample ID: GW-100318-AF-016

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	5.0	U	100	99.3		ug/L		99	53 - 140
1,2-Dichloroethane	5.0	U	100	126		ug/L		126	65 - 135
1,2-Dichloropropane	5.0	U F1 *	100	134	F1	ug/L		134	70 - 132
2-Hexanone	50	U	200	223		ug/L		111	42 - 150
Acetone	50	U	200	204		ug/L		102	10 - 168
Benzene	5.0	U *	100	119		ug/L		119	71 - 122
Bromoform	5.0	U	100	86.9		ug/L		87	44 - 129
Bromomethane	5.0	U	100	96.2		ug/L		96	19 - 187
Carbon disulfide	5.0	U	100	109		ug/L		109	43 - 144
Carbon tetrachloride	5.0	U	100	115		ug/L		115	41 - 143
Chlorobenzene	5.0	U	100	98.9		ug/L		99	70 - 123
Chloroethane	5.0	U	100	104		ug/L		104	11 - 189
Chloroform	5.0	U *	100	120		ug/L		120	68 - 130
Chloromethane	5.0	U	100	107		ug/L		107	31 - 154
cis-1,2-Dichloroethene	5.0	U	100	109		ug/L		109	64 - 130
cis-1,3-Dichloropropene	5.0	U	100	121		ug/L		121	48 - 127
Dichlorobromomethane	5.0	U	100	116		ug/L		116	64 - 125
Ethylbenzene	5.0	U	100	97.1		ug/L		97	66 - 120
m-Xylene & p-Xylene	10	U	100	95.3		ug/L		95	63 - 121
2-Butanone (MEK)	50	U	200	231		ug/L		116	37 - 156
4-Methyl-2-pentanone (MIBK)	50	U *	200	265		ug/L		132	44 - 143
Methylene Chloride	25	U	100	97.4		ug/L		97	61 - 130
o-Xylene	5.0	U	100	95.1		ug/L		95	69 - 120
Styrene	5.0	U	100	97.9		ug/L		98	68 - 120
Tetrachloroethene	5.0	U	100	97.3		ug/L		97	51 - 136
Toluene	5.0	U	100	104		ug/L		104	62 - 132
trans-1,2-Dichloroethene	5.0	U	100	113		ug/L		113	68 - 133
trans-1,3-Dichloropropene	5.0	U	100	95.4		ug/L		95	40 - 125
Trichloroethene	5.0	U	100	115		ug/L		115	55 - 131
Vinyl chloride	220		100	300		ug/L		79	43 - 154
Xylenes, Total	10	U	200	190		ug/L		95	67 - 120
Chlorodibromomethane	5.0	U	100	95.7		ug/L		96	60 - 129

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		70 - 121
4-Bromofluorobenzene (Surr)	89		59 - 120
Toluene-d8 (Surr)	92		70 - 123
Dibromofluoromethane (Surr)	100		75 - 128

Lab Sample ID: 240-102293-9 MSD

Matrix: Water

Analysis Batch: 350264

Client Sample ID: GW-100318-AF-016

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	5.0	U	100	114		ug/L		114	51 - 138	1	27
1,1,2,2-Tetrachloroethane	5.0	U	100	99.6		ug/L		100	60 - 137	2	31
1,1,2-Trichloroethane	5.0	U	100	107		ug/L		107	76 - 132	1	25
1,1-Dichloroethane	5.0	U	100	121		ug/L		121	63 - 136	4	23

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102293-2

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

Lab Sample ID: 240-102293-9 MSD

Matrix: Water

Analysis Batch: 350264

Client Sample ID: GW-100318-AF-016

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-Dichloroethene	5.0	U	100	99.2		ug/L		99	53 - 140	0	35
1,2-Dichloroethane	5.0	U	100	125		ug/L		125	65 - 135	1	24
1,2-Dichloropropane	5.0	U F1 *	100	133	F1	ug/L		133	70 - 132	1	26
2-Hexanone	50	U	200	227		ug/L		114	42 - 150	2	35
Acetone	50	U	200	212		ug/L		106	10 - 168	4	35
Benzene	5.0	U *	100	121		ug/L		121	71 - 122	2	22
Bromoform	5.0	U	100	85.9		ug/L		86	44 - 129	1	28
Bromomethane	5.0	U	100	95.2		ug/L		95	19 - 187	1	35
Carbon disulfide	5.0	U	100	83.3		ug/L		83	43 - 144	27	33
Carbon tetrachloride	5.0	U	100	119		ug/L		119	41 - 143	3	30
Chlorobenzene	5.0	U	100	101		ug/L		101	70 - 123	2	23
Chloroethane	5.0	U	100	108		ug/L		108	11 - 189	3	35
Chloroform	5.0	U *	100	121		ug/L		121	68 - 130	0	23
Chloromethane	5.0	U	100	106		ug/L		106	31 - 154	1	35
cis-1,2-Dichloroethene	5.0	U	100	112		ug/L		112	64 - 130	3	21
cis-1,3-Dichloropropene	5.0	U	100	122		ug/L		122	48 - 127	1	30
Dichlorobromomethane	5.0	U	100	119		ug/L		119	64 - 125	3	27
Ethylbenzene	5.0	U	100	98.6		ug/L		99	66 - 120	2	24
m-Xylene & p-Xylene	10	U	100	97.2		ug/L		97	63 - 121	2	25
2-Butanone (MEK)	50	U	200	228		ug/L		114	37 - 156	2	35
4-Methyl-2-pentanone (MIBK)	50	U *	200	271		ug/L		135	44 - 143	2	35
Methylene Chloride	25	U	100	101		ug/L		101	61 - 130	4	29
o-Xylene	5.0	U	100	95.6		ug/L		96	69 - 120	1	25
Styrene	5.0	U	100	99.0		ug/L		99	68 - 120	1	26
Tetrachloroethene	5.0	U	100	94.6		ug/L		95	51 - 136	3	23
Toluene	5.0	U	100	106		ug/L		106	62 - 132	2	23
trans-1,2-Dichloroethene	5.0	U	100	114		ug/L		114	68 - 133	1	24
trans-1,3-Dichloropropene	5.0	U	100	98.1		ug/L		98	40 - 125	3	27
Trichloroethene	5.0	U	100	116		ug/L		116	55 - 131	1	23
Vinyl chloride	220		100	300		ug/L		79	43 - 154	0	29
Xylenes, Total	10	U	200	193		ug/L		96	67 - 120	1	25
Chlorodibromomethane	5.0	U	100	95.7		ug/L		96	60 - 129	0	26

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		70 - 121
4-Bromofluorobenzene (Surr)	91		59 - 120
Toluene-d8 (Surr)	93		70 - 123
Dibromofluoromethane (Surr)	103		75 - 128

TestAmerica Canton

QC Association Summary

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

TestAmerica Job ID: 240-102293-2

GC/MS VOA

Analysis Batch: 349978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102293-1	GW-100318-BE-011	Total/NA	Water	8260B	
240-102293-2	GW-100318-AF-010	Total/NA	Water	8260B	
240-102293-3	GW-100318-BE-013	Total/NA	Water	8260B	
240-102293-4	GW-100318-AF-012	Total/NA	Water	8260B	
240-102293-5	GW-100318-BE-015	Total/NA	Water	8260B	
240-102293-6	GW-100318-BE-017	Total/NA	Water	8260B	
240-102293-7	GW-100318-AF-014	Total/NA	Water	8260B	
240-102293-8	GW-100318-BE-019	Total/NA	Water	8260B	
240-102293-10	TB-100318-AF-003	Total/NA	Water	8260B	
240-102293-11	EB-100318-BE-001	Total/NA	Water	8260B	
MB 240-349978/6	Method Blank	Total/NA	Water	8260B	
LCS 240-349978/4	Lab Control Sample	Total/NA	Water	8260B	
240-102293-2 MS	GW-100318-AF-010	Total/NA	Water	8260B	
240-102293-2 MSD	GW-100318-AF-010	Total/NA	Water	8260B	

Analysis Batch: 350264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102293-9	GW-100318-AF-016	Total/NA	Water	8260B	
MB 240-350264/7	Method Blank	Total/NA	Water	8260B	
LCS 240-350264/5	Lab Control Sample	Total/NA	Water	8260B	
240-102293-9 MS	GW-100318-AF-016	Total/NA	Water	8260B	
240-102293-9 MSD	GW-100318-AF-016	Total/NA	Water	8260B	

Lab Chronicle

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

TestAmerica Job ID: 240-102293-2

Client Sample ID: GW-100318-BE-011

Date Collected: 10/03/18 10:18

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		40	349978	10/13/18 20:59	TJL1	TAL CAN

Client Sample ID: GW-100318-AF-010

Date Collected: 10/03/18 10:30

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		250	349978	10/13/18 21:21	TJL1	TAL CAN

Client Sample ID: GW-100318-BE-013

Date Collected: 10/03/18 11:26

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	349978	10/13/18 22:51	TJL1	TAL CAN

Client Sample ID: GW-100318-AF-012

Date Collected: 10/03/18 13:00

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	349978	10/13/18 23:13	TJL1	TAL CAN

Client Sample ID: GW-100318-BE-015

Date Collected: 10/03/18 13:18

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	349978	10/13/18 23:35	TJL1	TAL CAN

Client Sample ID: GW-100318-BE-017

Date Collected: 10/03/18 14:53

Date Received: 10/04/18 09:30

Lab Sample ID: 240-102293-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	349978	10/13/18 23:58	TJL1	TAL CAN

TestAmerica Canton

Lab Chronicle

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

TestAmerica Job ID: 240-102293-2

Client Sample ID: GW-100318-AF-014

Lab Sample ID: 240-102293-7

Date Collected: 10/03/18 14:37

Matrix: Water

Date Received: 10/04/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	349978	10/14/18 00:20	TJL1	TAL CAN

Client Sample ID: GW-100318-BE-019

Lab Sample ID: 240-102293-8

Date Collected: 10/03/18 14:56

Matrix: Water

Date Received: 10/04/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	349978	10/14/18 00:42	TJL1	TAL CAN

Client Sample ID: GW-100318-AF-016

Lab Sample ID: 240-102293-9

Date Collected: 10/03/18 15:37

Matrix: Water

Date Received: 10/04/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	350264	10/16/18 13:52	HMB	TAL CAN

Client Sample ID: TB-100318-AF-003

Lab Sample ID: 240-102293-10

Date Collected: 10/03/18 16:30

Matrix: Water

Date Received: 10/04/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	349978	10/14/18 01:27	TJL1	TAL CAN

Client Sample ID: EB-100318-BE-001

Lab Sample ID: 240-102293-11

Date Collected: 10/03/18 16:15

Matrix: Water

Date Received: 10/04/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	349978	10/14/18 01:49	TJL1	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: 240-102293-2

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	02-23-19
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-19
Illinois	NELAP	5	200004	07-31-19
Kansas	NELAP	7	E-10336	01-31-19
Kentucky (UST)	State Program	4	58	02-23-19
Kentucky (WW)	State Program	4	98016	12-31-18 *
Minnesota	NELAP	5	039-999-348	12-31-18 *
Minnesota (Petrofund)	State Program	1	3506	07-31-19
Nevada	State Program	9	OH00048	07-31-19
New Jersey	NELAP	2	OH001	06-30-19
New York	NELAP	2	10975	03-31-19
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-19
Pennsylvania	NELAP	3	68-00340	08-31-19 *
Texas	NELAP	6	T104704517-17-9	08-31-19
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-19
Washington	State Program	10	C971	01-12-19
West Virginia DEP	State Program	3	210	12-31-18 *

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

TestAmerica Canton



COC NO: IN- 14809

6520 Corporate Drive, Indianapolis, Indiana 46278
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2.4/C3.3
CONESTOGA-ROVERS
& ASSOCIATES

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO: IN-15033
PAGE 1 OF 1

(See Reverse Side for Instructions)

Project No/Phase/Task Code: 017302A-TD7		Laboratory Name: Test America NC		Lab Location: North Carolina		SSOW ID:	
Project Name: Walter Delphi GW		Lab Contact: Denise Heckler		Lab Quote No:		Cooler No: 1 of 3	
Project Location: Anderson TN		CONTAINER QUANTITY & PRESERVATION		ANALYSIS REQUESTED (See Back of COC for Definitions)			
Chemistry Contact: Deborah Andrusko		SAMPLE TYPE		Total Containers/Sample			
Sampler(s): Bryan E inecker		Matrix Code		Other:			
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)		DATE (mm/dd/yyyy)		TIME (hh:mm)		MS/MSD Request	
1 GW-100318-BE-011		10/3/18		1018		X	
2 GW-100318-BE-013		1		1126		X	
3 GW-100318-BE-015		1		1318		X	
GW-100318-BE-017		1		1453		X	
GW-100318-BE-019		10/3/18		1456		X	
TAT Required in business days (use separate COCs for different TATs):		RELINQUISHED BY		DATE		Notes/ Special Requirements:	
☐ 1 Day ☐ 2 Days ☐ 3 Days ☒ 2 Week ☐ Other:		Bryan E inecker		10/3/18		Total Number of Containers: 125	
All Samples in Cooler must be on COC		COMPANY		RECEIVED BY		COMPANY	
1. Bryan E inecker		GHD		1. BOP		TAC	
				2.			
				3.			
Carrier: FedEx		Airbill No:		Date Shipped: 10/3/18		COMMENTS/ SPECIAL INSTRUCTIONS:	

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 (20110904)

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COC NO.:IN- 15035

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PAGE | OF |

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(See Reverse Side for Instructions)

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: CQC-10A (20110804)

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TestAmerica Canton Sample Receipt Form/Narrative

Login # : 102293

Canton Facility

Client CRASite Name

Cooler unpacked by:

Cooler Received on 10-4-18Opened on 10-4-18ROPFedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time

Storage Location

TestAmerica Cooler # 7A Foam Box Client Cooler Box OtherPacking material used: Bubble Wrap Foam Plastic Bag None OtherCOOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

☒ See Multiple Cooler Form

IR GUN# IR-8 (CF +0.9 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

IR GUN #36 (CF +0.6 °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 12-16 have been checked at the originating laboratory.

12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC849161

13. Were VOAs on the COC? Yes No

14. Were air bubbles >6 mm in any VOA vials?  Larger than this. Yes No NA15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # CONVERT Yes No

16. Was a LL Hg or Me Hg trip blank present? Yes No

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

Concerning _____

Tests that are not
checked for pH by
Receiving:VOAs
Oil and Grease
TOC

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

ROP

18. 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)

19. SAMPLE PRESERVATION

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

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

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Preservative</u> <u>Added (mls)</u>	<u>Lot #</u>
GW-100318-BE-011	240-102293-B-13	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100318-BE-011	240-102293-D-13	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100318-BE-011	240-102293-E-13	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100318-BE-013	240-102293-B-14	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100318-BE-013	240-102293-D-14	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100318-BE-013	240-102293-E-14	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100318-BE-015	240-102293-B-15	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100318-BE-015	240-102293-D-15	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100318-BE-015	240-102293-E-15	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100318-BE-017	240-102293-B-16	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100318-BE-017	240-102293-D-16	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100318-BE-017	240-102293-E-16	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100318-BE-019	240-102293-B-17	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100318-BE-019	240-102293-D-17	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100318-BE-019	240-102293-E-17	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100318-AF-010	240-102293-D-18	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100318-AF-010	240-102293-E-18	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100318-AF-010	240-102293-F-18	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100318-AF-010	240-102293-J-18	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100318-AF-010	240-102293-K-18	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100318-AF-010	240-102293-L-18	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100318-AF-010	240-102293-M-18	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100318-AF-010	240-102293-N-18	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100318-AF-010	240-102293-O-18	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100318-AF-012	240-102293-B-19	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100318-AF-012	240-102293-D-19	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100318-AF-012	240-102293-E-19	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: 240-102503-1

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:

10/23/2018 5:22:05 PM

Leslie Howell, Project Manager I

(330)966-9266

leslie.howell@testamericainc.com

Designee for

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com

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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: 240-102503-1

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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

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

TestAmerica Job ID: 240-102503-1

Job ID: 240-102503-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-102503-1

Comments

No additional comments.

Receipt

The samples were received on 10/9/2018 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.3° C and 2.7° C.

GC VOA

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

Metals

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

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: 240-102503-1

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
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CAN
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	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: 240-102503-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-102503-17	GW-100818-BE-034	Water	10/08/18 11:11	10/09/18 09:40
240-102503-18	GW-100818-BE-035	Water	10/08/18 12:09	10/09/18 09:40
240-102503-19	GW-100818-BE-036	Water	10/08/18 13:00	10/09/18 09:40
240-102503-20	GW-100818-BE-037	Water	10/08/18 13:59	10/09/18 09:40
240-102503-21	GW-100818-BE-038	Water	10/08/18 15:20	10/09/18 09:40
240-102503-23	GW-100818-BE-039	Water	10/08/18 17:08	10/09/18 09:40

Detection Summary

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

TestAmerica Job ID: 240-102503-1

Client Sample ID: GW-100818-BE-034

Lab Sample ID: 240-102503-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	18		1.0	0.17	ug/L	1		RSK-175	Total/NA
Manganese	140		15	2.1	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	360		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	500		25	12	mg/L	1		2340C-1997	Total/NA
Chloride	29		1.0	0.28	mg/L	1		300.0	Total/NA
Nitrate as N	2.6		0.10	0.014	mg/L	1		300.0	Total/NA
Sulfate	56		1.0	0.35	mg/L	1		300.0	Total/NA
Total Organic Carbon	2.9		1.0	0.14	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	3.2		1.0	0.14	mg/L	1		9060	Dissolved

Client Sample ID: GW-100818-BE-035

Lab Sample ID: 240-102503-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	18		1.0	0.17	ug/L	1		RSK-175	Total/NA
Ethylene	9.4		1.0	0.11	ug/L	1		RSK-175	Total/NA
Manganese	120		15	2.1	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	430		25	12	mg/L	1		2340C-1997	Total/NA
Chloride	41		1.0	0.28	mg/L	1		300.0	Total/NA
Sulfate	63		1.0	0.35	mg/L	1		300.0	Total/NA
Total Organic Carbon	2.3		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-100818-BE-036

Lab Sample ID: 240-102503-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	18		1.0	0.17	ug/L	1		RSK-175	Total/NA
Manganese	370		15	2.1	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	370		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	530		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
Total Organic Carbon	2.7		1.0	0.14	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	2.6		1.0	0.14	mg/L	1		9060	Dissolved

Client Sample ID: GW-100818-BE-037

Lab Sample ID: 240-102503-20

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	11		1.0	0.10	ug/L	1		RSK-175	Total/NA
Ethylene	13		1.0	0.11	ug/L	1		RSK-175	Total/NA
Manganese	280		15	2.1	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	520		25	12	mg/L	1		2340C-1997	Total/NA
Chloride	32		1.0	0.28	mg/L	1		300.0	Total/NA
Sulfate	83		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	3.4		1.0	0.14	mg/L	1		9060	Dissolved

Client Sample ID: GW-100818-BE-038

Lab Sample ID: 240-102503-21

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

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

TestAmerica Job ID: 240-102503-1

Client Sample ID: GW-100818-BE-038 (Continued)

Lab Sample ID: 240-102503-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methane	50		1.0	0.17	ug/L			1	RSK-175	Total/NA
Ethylene	3.0		1.0	0.11	ug/L			1	RSK-175	Total/NA
Manganese	150		15	2.1	ug/L			1	6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	320		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	77		1.0	0.28	mg/L			1	300.0	Total/NA
Sulfate	62		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	3.4		1.0	0.14	mg/L			1	9060	Dissolved

Client Sample ID: GW-100818-BE-039

Lab Sample ID: 240-102503-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Manganese	38		15	2.1	ug/L			1	6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	370		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	22		1.0	0.28	mg/L			1	300.0	Total/NA
Nitrate as N	2.0		0.10	0.014	mg/L			1	300.0	Total/NA
Sulfate	48		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

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102503-1

Method: RSK-175 - Dissolved Gases (GC)

Client Sample ID: GW-100818-BE-034

Date Collected: 10/08/18 11:11

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-17

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	18		1.0	0.17	ug/L			10/22/18 21:03	1
Ethane	1.0	U	1.0	0.10	ug/L			10/22/18 21:03	1
Ethylene	1.0	U	1.0	0.11	ug/L			10/22/18 21:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	103		60 - 140					10/22/18 21:03	1

Client Sample ID: GW-100818-BE-035

Date Collected: 10/08/18 12:09

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-18

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	18		1.0	0.17	ug/L			10/22/18 21:20	1
Ethane	1.0	U	1.0	0.10	ug/L			10/22/18 21:20	1
Ethylene	9.4		1.0	0.11	ug/L			10/22/18 21:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	103		60 - 140					10/22/18 21:20	1

Client Sample ID: GW-100818-BE-036

Date Collected: 10/08/18 13:00

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-19

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	18		1.0	0.17	ug/L			10/22/18 21:36	1
Ethane	1.0	U	1.0	0.10	ug/L			10/22/18 21:36	1
Ethylene	1.0	U	1.0	0.11	ug/L			10/22/18 21:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	104		60 - 140					10/22/18 21:36	1

Client Sample ID: GW-100818-BE-037

Date Collected: 10/08/18 13:59

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-20

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	150		1.0	0.17	ug/L			10/22/18 22:10	1
Ethane	11		1.0	0.10	ug/L			10/22/18 22:10	1
Ethylene	13		1.0	0.11	ug/L			10/22/18 22:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	104		60 - 140					10/22/18 22:10	1

Client Sample ID: GW-100818-BE-038

Date Collected: 10/08/18 15:20

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-21

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	50		1.0	0.17	ug/L			10/22/18 22:27	1
Ethane	1.0	U	1.0	0.10	ug/L			10/22/18 22:27	1
Ethylene	3.0		1.0	0.11	ug/L			10/22/18 22:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	106		60 - 140					10/22/18 22:27	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102503-1

Method: RSK-175 - Dissolved Gases (GC)

Client Sample ID: GW-100818-BE-039

Date Collected: 10/08/18 17:08

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-23

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	1.0	U	1.0	0.17	ug/L			10/22/18 22:44	1
Ethane	1.0	U	1.0	0.10	ug/L			10/22/18 22:44	1
Ethylene	1.0	U	1.0	0.11	ug/L			10/22/18 22:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	108		60 - 140					10/22/18 22:44	1

Client Sample Results

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

TestAmerica Job ID: 240-102503-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-100818-BE-034

Date Collected: 10/08/18 11:11

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-17

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	140		15	2.1	ug/L	—	10/10/18 14:00	10/11/18 16:50	1

Client Sample ID: GW-100818-BE-035

Date Collected: 10/08/18 12:09

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-18

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	120		15	2.1	ug/L	—	10/10/18 14:00	10/11/18 17:11	1

Client Sample ID: GW-100818-BE-036

Date Collected: 10/08/18 13:00

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-19

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	370		15	2.1	ug/L	—	10/10/18 14:00	10/11/18 17:15	1

Client Sample ID: GW-100818-BE-037

Date Collected: 10/08/18 13:59

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-20

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	280		15	2.1	ug/L	—	10/10/18 14:00	10/11/18 17:19	1

Client Sample ID: GW-100818-BE-038

Date Collected: 10/08/18 15:20

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-21

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	150		15	2.1	ug/L	—	10/10/18 14:00	10/11/18 17:24	1

Client Sample ID: GW-100818-BE-039

Date Collected: 10/08/18 17:08

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-23

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	38		15	2.1	ug/L	—	10/10/18 14:00	10/11/18 17:37	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102503-1

General Chemistry

Client Sample ID: GW-100818-BE-034

Date Collected: 10/08/18 11:11

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-17

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	360		5.0	2.6	mg/L			10/10/18 21:17	1
Carbonate Alkalinity as CaCO ₃	5.0	U	5.0	2.6	mg/L			10/10/18 21:17	1
Hardness as calcium carbonate	500		25	12	mg/L			10/17/18 11:26	1
Chloride	29		1.0	0.28	mg/L			10/10/18 09:33	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/10/18 09:33	1
Nitrate as N	2.6		0.10	0.014	mg/L			10/10/18 09:33	1
Sulfate	56		1.0	0.35	mg/L			10/10/18 09:33	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/12/18 10:16	10/12/18 12:24	1
Total Organic Carbon	2.9		1.0	0.14	mg/L			10/12/18 12:54	1

Client Sample ID: GW-100818-BE-035

Date Collected: 10/08/18 12:09

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-18

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	330		5.0	2.6	mg/L			10/10/18 21:22	1
Carbonate Alkalinity as CaCO ₃	5.0	U	5.0	2.6	mg/L			10/10/18 21:22	1
Hardness as calcium carbonate	430		25	12	mg/L			10/17/18 11:31	1
Chloride	41		1.0	0.28	mg/L			10/10/18 09:54	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/10/18 09:54	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/10/18 09:54	1
Sulfate	63		1.0	0.35	mg/L			10/10/18 09:54	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/12/18 10:16	10/12/18 12:24	1
Total Organic Carbon	2.3		1.0	0.14	mg/L			10/12/18 13:36	1

Client Sample ID: GW-100818-BE-036

Date Collected: 10/08/18 13:00

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-19

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	370		5.0	2.6	mg/L			10/10/18 21:26	1
Carbonate Alkalinity as CaCO ₃	5.0	U	5.0	2.6	mg/L			10/10/18 21:26	1
Hardness as calcium carbonate	530		25	12	mg/L			10/17/18 11:36	1
Chloride	31		1.0	0.28	mg/L			10/09/18 20:26	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/09/18 20:26	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/09/18 20:26	1
Sulfate	95		1.0	0.35	mg/L			10/09/18 20:26	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/12/18 10:16	10/12/18 12:24	1
Total Organic Carbon	2.7		1.0	0.14	mg/L			10/12/18 14:02	1

Client Sample ID: GW-100818-BE-037

Date Collected: 10/08/18 13:59

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-20

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	380		5.0	2.6	mg/L			10/10/18 21:33	1
Carbonate Alkalinity as CaCO ₃	5.0	U	5.0	2.6	mg/L			10/10/18 21:33	1
Hardness as calcium carbonate	520		25	12	mg/L			10/17/18 11:40	1
Chloride	32		1.0	0.28	mg/L			10/09/18 20:47	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/09/18 20:47	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/09/18 20:47	1
Sulfate	83		1.0	0.35	mg/L			10/09/18 20:47	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/12/18 10:16	10/12/18 12:24	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102503-1

General Chemistry (Continued)

Client Sample ID: GW-100818-BE-037

Date Collected: 10/08/18 13:59

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-20

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	3.5		1.0	0.14	mg/L			10/12/18 14:28	1

Client Sample ID: GW-100818-BE-038

Date Collected: 10/08/18 15:20

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-21

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	320		5.0	2.6	mg/L			10/10/18 21:37	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/10/18 21:37	1
Hardness as calcium carbonate	420		25	12	mg/L			10/17/18 11:45	1
Chloride	77		1.0	0.28	mg/L			10/09/18 21:07	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/09/18 21:07	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/09/18 21:07	1
Sulfate	62		1.0	0.35	mg/L			10/09/18 21:07	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/12/18 10:16	10/12/18 12:24	1
Total Organic Carbon	2.7		1.0	0.14	mg/L			10/12/18 14:54	1

Client Sample ID: GW-100818-BE-039

Date Collected: 10/08/18 17:08

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-23

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	370		5.0	2.6	mg/L			10/10/18 21:42	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/10/18 21:42	1
Hardness as calcium carbonate	450		25	12	mg/L			10/17/18 11:50	1
Chloride	22		1.0	0.28	mg/L			10/09/18 21:28	1
Nitrite as N	0.10	U	0.10	0.014	mg/L			10/09/18 21:28	1
Nitrate as N	2.0		0.10	0.014	mg/L			10/09/18 21:28	1
Sulfate	48		1.0	0.35	mg/L			10/09/18 21:28	1
Sulfide	3.0	U	3.0	1.4	mg/L		10/12/18 10:16	10/12/18 12:24	1
Total Organic Carbon	1.0		1.0	0.14	mg/L			10/12/18 15:20	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102503-1

General Chemistry - Dissolved

Client Sample ID: GW-100818-BE-034

Date Collected: 10/08/18 11:11

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-17

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	3.2		1.0	0.14	mg/L	—		10/11/18 18:25	1

Client Sample ID: GW-100818-BE-035

Date Collected: 10/08/18 12:09

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-18

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	2.0		1.0	0.14	mg/L	—		10/11/18 18:51	1

Client Sample ID: GW-100818-BE-036

Date Collected: 10/08/18 13:00

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-19

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	2.6		1.0	0.14	mg/L	—		10/11/18 19:18	1

Client Sample ID: GW-100818-BE-037

Date Collected: 10/08/18 13:59

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-20

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	3.4		1.0	0.14	mg/L	—		10/11/18 19:44	1

Client Sample ID: GW-100818-BE-038

Date Collected: 10/08/18 15:20

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-21

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	3.4		1.0	0.14	mg/L	—		10/11/18 20:09	1

Client Sample ID: GW-100818-BE-039

Date Collected: 10/08/18 17:08

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-23

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.1		1.0	0.14	mg/L	—		10/11/18 20:36	1

TestAmerica Canton

Surrogate Summary

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

TestAmerica Job ID: 240-102503-1

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TFE2 (60-140)
240-102503-17	GW-100818-BE-034	103
240-102503-18	GW-100818-BE-035	103
240-102503-19	GW-100818-BE-036	104
240-102503-20	GW-100818-BE-037	104
240-102503-21	GW-100818-BE-038	106
240-102503-23	GW-100818-BE-039	108
LCS 240-351300/5	Lab Control Sample	101
MB 240-351300/4	Method Blank	111

Surrogate Legend

TFE = 1,1,1-Trifluoroethane

QC Sample Results

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

TestAmerica Job ID: 240-102503-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 240-351300/4

Matrix: Water

Analysis Batch: 351300

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			10/22/18 17:40	1
Ethane	1.0	U	1.0	0.10	ug/L			10/22/18 17:40	1
Ethylene	1.0	U	1.0	0.11	ug/L			10/22/18 17:40	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	111		60 - 140					10/22/18 17:40	1

Lab Sample ID: LCS 240-351300/5

Matrix: Water

Analysis Batch: 351300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	511	461		ug/L		90	80 - 120
Ethane	527	522		ug/L		99	80 - 120
Ethylene	462	465		ug/L		101	80 - 120
Surrogate	%Recovery	LCS Qualifier	Limits				
1,1,1-Trifluoroethane	101		60 - 140				

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-349461/1-A

Matrix: Water

Analysis Batch: 349766

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 349461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	15	U	15	2.1	ug/L		10/10/18 14:00	10/11/18 16:33	1

Lab Sample ID: LCS 240-349461/2-A

Matrix: Water

Analysis Batch: 349766

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 349461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	500	516		ug/L		103	80 - 120

Lab Sample ID: 240-102503-17 MS

Matrix: Water

Analysis Batch: 349766

Client Sample ID: GW-100818-BE-034

Prep Type: Dissolved

Prep Batch: 349461

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	140		500	660		ug/L		103	75 - 125

Lab Sample ID: 240-102503-17 MSD

Matrix: Water

Analysis Batch: 349766

Client Sample ID: GW-100818-BE-034

Prep Type: Dissolved

Prep Batch: 349461

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Manganese	140		500	664		ug/L		104	75 - 125	1	20

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102503-1

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-349728/4

Matrix: Water

Analysis Batch: 349728

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 CaCO ₃	5.0	U	5.0	2.6	mg/L			10/10/18 20:48	1
Carbonate Alkalinity as CaCO ₃	5.0	U	5.0	2.6	mg/L			10/10/18 20:48	1

Method: 2340C-1997 - Hardness, Total

Lab Sample ID: MB 240-350534/1

Matrix: Water

Analysis Batch: 350534

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			10/17/18 10:00	1

Lab Sample ID: LCS 240-350534/2

Matrix: Water

Analysis Batch: 350534

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	207	212		mg/L		102	90 - 110

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-349247/3

Matrix: Water

Analysis Batch: 349247

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			10/09/18 16:17	1
Sulfate	1.0	U	1.0	0.35	mg/L			10/09/18 16:17	1

Lab Sample ID: MB 240-349247/41

Matrix: Water

Analysis Batch: 349247

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			10/10/18 05:24	1
Sulfate	1.0	U	1.0	0.35	mg/L			10/10/18 05:24	1

Lab Sample ID: LCS 240-349247/4

Matrix: Water

Analysis Batch: 349247

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	51.0		mg/L		102	90 - 110
Sulfate	50.0	51.9		mg/L		104	90 - 110

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102503-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 240-349247/42

Matrix: Water

Analysis Batch: 349247

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	51.1		mg/L		102	90 - 110
Sulfate	50.0	52.0		mg/L		104	90 - 110

Lab Sample ID: 240-102503-23 MS

Matrix: Water

Analysis Batch: 349247

Client Sample ID: GW-100818-BE-039

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	22		50.0	73.9		mg/L		103	80 - 120
Sulfate	48		50.0	99.3		mg/L		103	80 - 120

Lab Sample ID: 240-102503-23 MSD

Matrix: Water

Analysis Batch: 349247

Client Sample ID: GW-100818-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
Chloride	22		50.0	73.6		mg/L		103	80 - 120	0	15
Sulfate	48		50.0	98.9		mg/L		102	80 - 120	0	15

Lab Sample ID: MB 240-349248/3

Matrix: Water

Analysis Batch: 349248

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			10/09/18 16:17	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/09/18 16:17	1

Lab Sample ID: MB 240-349248/41

Matrix: Water

Analysis Batch: 349248

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			10/10/18 05:24	1
Nitrate as N	0.10	U	0.10	0.014	mg/L			10/10/18 05:24	1

Lab Sample ID: LCS 240-349248/4

Matrix: Water

Analysis Batch: 349248

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	2.49		mg/L		100	90 - 110
Nitrate as N	2.50	2.58		mg/L		103	90 - 110

Lab Sample ID: LCS 240-349248/42

Matrix: Water

Analysis Batch: 349248

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	2.49		mg/L		100	90 - 110

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102503-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 240-349248/42

Matrix: Water

Analysis Batch: 349248

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	2.58		mg/L		103	90 - 110

Lab Sample ID: 240-102503-23 MS

Matrix: Water

Analysis Batch: 349248

Client Sample ID: GW-100818-BE-039

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.10	U	2.50	2.67		mg/L		107	80 - 120
Nitrate as N	2.0		2.50	4.56		mg/L		102	80 - 120

Lab Sample ID: 240-102503-23 MSD

Matrix: Water

Analysis Batch: 349248

Client Sample ID: GW-100818-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
Nitrite as N	0.10	U	2.50	2.67		mg/L		107	80 - 120	0	15
Nitrate as N	2.0		2.50	4.55		mg/L		102	80 - 120	0	15

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-349822/6-A

Matrix: Water

Analysis Batch: 349875

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 349822

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	3.0	U	3.0	1.4	mg/L		10/12/18 10:16	10/12/18 12:24	1

Lab Sample ID: LCS 240-349822/7-A

Matrix: Water

Analysis Batch: 349875

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 349822

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	6.00	4.53		mg/L		76	70 - 120

Lab Sample ID: 240-102503-17 MS

Matrix: Water

Analysis Batch: 349875

Client Sample ID: GW-100818-BE-034

Prep Type: Total/NA

Prep Batch: 349822

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	3.0	U	6.00	4.53		mg/L		76	32 - 130

Lab Sample ID: 240-102503-17 MSD

Matrix: Water

Analysis Batch: 349875

Client Sample ID: GW-100818-BE-034

Prep Type: Total/NA

Prep Batch: 349822

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	3.0	U	6.00	4.53		mg/L		76	32 - 130	0	30

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102503-1

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 240-350003/4

Matrix: Water

Analysis Batch: 350003

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			10/12/18 12:38	1

Lab Sample ID: LLCS 240-350003/5

Matrix: Water

Analysis Batch: 350003

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	5.53	5.51		mg/L		100	88 - 115

Lab Sample ID: 240-102503-17 MS

Matrix: Water

Analysis Batch: 350003

Client Sample ID: GW-100818-BE-034

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	2.9		5.00	7.75		mg/L		98	65 - 134

Lab Sample ID: 240-102503-17 MSD

Matrix: Water

Analysis Batch: 350003

Client Sample ID: GW-100818-BE-034

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	2.9		5.00	7.71		mg/L		97	65 - 134	1	10

Method: 9060 - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 240-349758/4

Matrix: Water

Analysis Batch: 349758

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			10/11/18 11:00	1

Lab Sample ID: LLCS 240-349758/5

Matrix: Water

Analysis Batch: 349758

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	5.53	5.51		mg/L		100	88 - 115

TestAmerica Canton

QC Association Summary

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

TestAmerica Job ID: 240-102503-1

GC VOA

Analysis Batch: 351300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102503-17	GW-100818-BE-034	Total/NA	Water	RSK-175	
240-102503-18	GW-100818-BE-035	Total/NA	Water	RSK-175	
240-102503-19	GW-100818-BE-036	Total/NA	Water	RSK-175	
240-102503-20	GW-100818-BE-037	Total/NA	Water	RSK-175	
240-102503-21	GW-100818-BE-038	Total/NA	Water	RSK-175	
240-102503-23	GW-100818-BE-039	Total/NA	Water	RSK-175	
MB 240-351300/4	Method Blank	Total/NA	Water	RSK-175	
LCS 240-351300/5	Lab Control Sample	Total/NA	Water	RSK-175	

Metals

Prep Batch: 349461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102503-17	GW-100818-BE-034	Dissolved	Water	3005A	
240-102503-18	GW-100818-BE-035	Dissolved	Water	3005A	
240-102503-19	GW-100818-BE-036	Dissolved	Water	3005A	
240-102503-20	GW-100818-BE-037	Dissolved	Water	3005A	
240-102503-21	GW-100818-BE-038	Dissolved	Water	3005A	
240-102503-23	GW-100818-BE-039	Dissolved	Water	3005A	
MB 240-349461/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-349461/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-102503-17 MS	GW-100818-BE-034	Dissolved	Water	3005A	
240-102503-17 MSD	GW-100818-BE-034	Dissolved	Water	3005A	

Analysis Batch: 349766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102503-17	GW-100818-BE-034	Dissolved	Water	6010B	349461
240-102503-18	GW-100818-BE-035	Dissolved	Water	6010B	349461
240-102503-19	GW-100818-BE-036	Dissolved	Water	6010B	349461
240-102503-20	GW-100818-BE-037	Dissolved	Water	6010B	349461
240-102503-21	GW-100818-BE-038	Dissolved	Water	6010B	349461
240-102503-23	GW-100818-BE-039	Dissolved	Water	6010B	349461
MB 240-349461/1-A	Method Blank	Total Recoverable	Water	6010B	349461
LCS 240-349461/2-A	Lab Control Sample	Total Recoverable	Water	6010B	349461
240-102503-17 MS	GW-100818-BE-034	Dissolved	Water	6010B	349461
240-102503-17 MSD	GW-100818-BE-034	Dissolved	Water	6010B	349461

General Chemistry

Analysis Batch: 349247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102503-17	GW-100818-BE-034	Total/NA	Water	300.0	
240-102503-18	GW-100818-BE-035	Total/NA	Water	300.0	
240-102503-19	GW-100818-BE-036	Total/NA	Water	300.0	
240-102503-20	GW-100818-BE-037	Total/NA	Water	300.0	
240-102503-21	GW-100818-BE-038	Total/NA	Water	300.0	
240-102503-23	GW-100818-BE-039	Total/NA	Water	300.0	
MB 240-349247/3	Method Blank	Total/NA	Water	300.0	
MB 240-349247/41	Method Blank	Total/NA	Water	300.0	
LCS 240-349247/4	Lab Control Sample	Total/NA	Water	300.0	

TestAmerica Canton

QC Association Summary

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

TestAmerica Job ID: 240-102503-1

General Chemistry (Continued)

Analysis Batch: 349247 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-349247/42	Lab Control Sample	Total/NA	Water	300.0	
240-102503-23 MS	GW-100818-BE-039	Total/NA	Water	300.0	
240-102503-23 MSD	GW-100818-BE-039	Total/NA	Water	300.0	

Analysis Batch: 349248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102503-17	GW-100818-BE-034	Total/NA	Water	300.0	
240-102503-18	GW-100818-BE-035	Total/NA	Water	300.0	
240-102503-19	GW-100818-BE-036	Total/NA	Water	300.0	
240-102503-20	GW-100818-BE-037	Total/NA	Water	300.0	
240-102503-21	GW-100818-BE-038	Total/NA	Water	300.0	
240-102503-23	GW-100818-BE-039	Total/NA	Water	300.0	
MB 240-349248/3	Method Blank	Total/NA	Water	300.0	
MB 240-349248/41	Method Blank	Total/NA	Water	300.0	
LCS 240-349248/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 240-349248/42	Lab Control Sample	Total/NA	Water	300.0	
240-102503-23 MS	GW-100818-BE-039	Total/NA	Water	300.0	
240-102503-23 MSD	GW-100818-BE-039	Total/NA	Water	300.0	

Analysis Batch: 349728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102503-17	GW-100818-BE-034	Total/NA	Water	2320B-1997	
240-102503-18	GW-100818-BE-035	Total/NA	Water	2320B-1997	
240-102503-19	GW-100818-BE-036	Total/NA	Water	2320B-1997	
240-102503-20	GW-100818-BE-037	Total/NA	Water	2320B-1997	
240-102503-21	GW-100818-BE-038	Total/NA	Water	2320B-1997	
240-102503-23	GW-100818-BE-039	Total/NA	Water	2320B-1997	
MB 240-349728/4	Method Blank	Total/NA	Water	2320B-1997	
LCSD 240-349728/5	Lab Control Sample Dup	Total/NA	Water	2320B-1997	

Analysis Batch: 349758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102503-17	GW-100818-BE-034	Dissolved	Water	9060	
240-102503-18	GW-100818-BE-035	Dissolved	Water	9060	
240-102503-19	GW-100818-BE-036	Dissolved	Water	9060	
240-102503-20	GW-100818-BE-037	Dissolved	Water	9060	
240-102503-21	GW-100818-BE-038	Dissolved	Water	9060	
240-102503-23	GW-100818-BE-039	Dissolved	Water	9060	
MB 240-349758/4	Method Blank	Dissolved	Water	9060	
LLCS 240-349758/5	Lab Control Sample	Dissolved	Water	9060	

Prep Batch: 349822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102503-17	GW-100818-BE-034	Total/NA	Water	9030B	
240-102503-18	GW-100818-BE-035	Total/NA	Water	9030B	
240-102503-19	GW-100818-BE-036	Total/NA	Water	9030B	
240-102503-20	GW-100818-BE-037	Total/NA	Water	9030B	
240-102503-21	GW-100818-BE-038	Total/NA	Water	9030B	
240-102503-23	GW-100818-BE-039	Total/NA	Water	9030B	
MB 240-349822/6-A	Method Blank	Total/NA	Water	9030B	
LCS 240-349822/7-A	Lab Control Sample	Total/NA	Water	9030B	

TestAmerica Canton

QC Association Summary

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

TestAmerica Job ID: 240-102503-1

General Chemistry (Continued)

Prep Batch: 349822 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102503-17 MS	GW-100818-BE-034	Total/NA	Water	9030B	
240-102503-17 MSD	GW-100818-BE-034	Total/NA	Water	9030B	

Analysis Batch: 349875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102503-17	GW-100818-BE-034	Total/NA	Water	9034	349822
240-102503-18	GW-100818-BE-035	Total/NA	Water	9034	349822
240-102503-19	GW-100818-BE-036	Total/NA	Water	9034	349822
240-102503-20	GW-100818-BE-037	Total/NA	Water	9034	349822
240-102503-21	GW-100818-BE-038	Total/NA	Water	9034	349822
240-102503-23	GW-100818-BE-039	Total/NA	Water	9034	349822
MB 240-349822/6-A	Method Blank	Total/NA	Water	9034	349822
LCS 240-349822/7-A	Lab Control Sample	Total/NA	Water	9034	349822
240-102503-17 MS	GW-100818-BE-034	Total/NA	Water	9034	349822
240-102503-17 MSD	GW-100818-BE-034	Total/NA	Water	9034	349822

Analysis Batch: 350003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102503-17	GW-100818-BE-034	Total/NA	Water	9060	
240-102503-18	GW-100818-BE-035	Total/NA	Water	9060	
240-102503-19	GW-100818-BE-036	Total/NA	Water	9060	
240-102503-20	GW-100818-BE-037	Total/NA	Water	9060	
240-102503-21	GW-100818-BE-038	Total/NA	Water	9060	
240-102503-23	GW-100818-BE-039	Total/NA	Water	9060	
MB 240-350003/4	Method Blank	Total/NA	Water	9060	
LLCS 240-350003/5	Lab Control Sample	Total/NA	Water	9060	
240-102503-17 MS	GW-100818-BE-034	Total/NA	Water	9060	
240-102503-17 MSD	GW-100818-BE-034	Total/NA	Water	9060	

Analysis Batch: 350534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102503-17	GW-100818-BE-034	Total/NA	Water	2340C-1997	
240-102503-18	GW-100818-BE-035	Total/NA	Water	2340C-1997	
240-102503-19	GW-100818-BE-036	Total/NA	Water	2340C-1997	
240-102503-20	GW-100818-BE-037	Total/NA	Water	2340C-1997	
240-102503-21	GW-100818-BE-038	Total/NA	Water	2340C-1997	
240-102503-23	GW-100818-BE-039	Total/NA	Water	2340C-1997	
MB 240-350534/1	Method Blank	Total/NA	Water	2340C-1997	
LCS 240-350534/2	Lab Control Sample	Total/NA	Water	2340C-1997	

TestAmerica Canton

Lab Chronicle

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

TestAmerica Job ID: 240-102503-1

Client Sample ID: GW-100818-BE-034

Date Collected: 10/08/18 11:11

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	351300	10/22/18 21:03	BPM	TAL CAN
Dissolved	Prep	3005A			349461	10/10/18 14:00	MBB	TAL CAN
Dissolved	Analysis	6010B		1	349766	10/11/18 16:50	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	349728	10/10/18 21:17	JESW	TAL CAN
Total/NA	Analysis	2340C-1997		1	350534	10/17/18 11:26	TPH	TAL CAN
Total/NA	Analysis	300.0		1	349247	10/10/18 09:33	JWW	TAL CAN
Total/NA	Analysis	300.0		1	349248	10/10/18 09:33	JWW	TAL CAN
Total/NA	Prep	9030B			349822	10/12/18 10:16	ACR	TAL CAN
Total/NA	Analysis	9034		1	349875	10/12/18 12:24	ACR	TAL CAN
Dissolved	Analysis	9060		1	349758	10/11/18 18:25	TPH	TAL CAN
Total/NA	Analysis	9060		1	350003	10/12/18 12:54	TPH	TAL CAN

Client Sample ID: GW-100818-BE-035

Date Collected: 10/08/18 12:09

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	351300	10/22/18 21:20	BPM	TAL CAN
Dissolved	Prep	3005A			349461	10/10/18 14:00	MBB	TAL CAN
Dissolved	Analysis	6010B		1	349766	10/11/18 17:11	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	349728	10/10/18 21:22	JESW	TAL CAN
Total/NA	Analysis	2340C-1997		1	350534	10/17/18 11:31	TPH	TAL CAN
Total/NA	Analysis	300.0		1	349247	10/10/18 09:54	JWW	TAL CAN
Total/NA	Analysis	300.0		1	349248	10/10/18 09:54	JWW	TAL CAN
Total/NA	Prep	9030B			349822	10/12/18 10:16	ACR	TAL CAN
Total/NA	Analysis	9034		1	349875	10/12/18 12:24	ACR	TAL CAN
Dissolved	Analysis	9060		1	349758	10/11/18 18:51	TPH	TAL CAN
Total/NA	Analysis	9060		1	350003	10/12/18 13:36	TPH	TAL CAN

Client Sample ID: GW-100818-BE-036

Date Collected: 10/08/18 13:00

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	351300	10/22/18 21:36	BPM	TAL CAN
Dissolved	Prep	3005A			349461	10/10/18 14:00	MBB	TAL CAN
Dissolved	Analysis	6010B		1	349766	10/11/18 17:15	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	349728	10/10/18 21:26	JESW	TAL CAN
Total/NA	Analysis	2340C-1997		1	350534	10/17/18 11:36	TPH	TAL CAN
Total/NA	Analysis	300.0		1	349247	10/09/18 20:26	JWW	TAL CAN
Total/NA	Analysis	300.0		1	349248	10/09/18 20:26	JWW	TAL CAN

TestAmerica Canton

Lab Chronicle

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

TestAmerica Job ID: 240-102503-1

Client Sample ID: GW-100818-BE-036

Lab Sample ID: 240-102503-19

Date Collected: 10/08/18 13:00

Matrix: Water

Date Received: 10/09/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9030B			349822	10/12/18 10:16	ACR	TAL CAN
Total/NA	Analysis	9034		1	349875	10/12/18 12:24	ACR	TAL CAN
Dissolved	Analysis	9060		1	349758	10/11/18 19:18	TPH	TAL CAN
Total/NA	Analysis	9060		1	350003	10/12/18 14:02	TPH	TAL CAN

Client Sample ID: GW-100818-BE-037

Lab Sample ID: 240-102503-20

Date Collected: 10/08/18 13:59

Matrix: Water

Date Received: 10/09/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	351300	10/22/18 22:10	BPM	TAL CAN
Dissolved	Prep	3005A			349461	10/10/18 14:00	MBB	TAL CAN
Dissolved	Analysis	6010B		1	349766	10/11/18 17:19	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	349728	10/10/18 21:33	JESW	TAL CAN
Total/NA	Analysis	2340C-1997		1	350534	10/17/18 11:40	TPH	TAL CAN
Total/NA	Analysis	300.0		1	349247	10/09/18 20:47	JWW	TAL CAN
Total/NA	Analysis	300.0		1	349248	10/09/18 20:47	JWW	TAL CAN
Total/NA	Prep	9030B			349822	10/12/18 10:16	ACR	TAL CAN
Total/NA	Analysis	9034		1	349875	10/12/18 12:24	ACR	TAL CAN
Dissolved	Analysis	9060		1	349758	10/11/18 19:44	TPH	TAL CAN
Total/NA	Analysis	9060		1	350003	10/12/18 14:28	TPH	TAL CAN

Client Sample ID: GW-100818-BE-038

Lab Sample ID: 240-102503-21

Date Collected: 10/08/18 15:20

Matrix: Water

Date Received: 10/09/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	351300	10/22/18 22:27	BPM	TAL CAN
Dissolved	Prep	3005A			349461	10/10/18 14:00	MBB	TAL CAN
Dissolved	Analysis	6010B		1	349766	10/11/18 17:24	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	349728	10/10/18 21:37	JESW	TAL CAN
Total/NA	Analysis	2340C-1997		1	350534	10/17/18 11:45	TPH	TAL CAN
Total/NA	Analysis	300.0		1	349247	10/09/18 21:07	JWW	TAL CAN
Total/NA	Analysis	300.0		1	349248	10/09/18 21:07	JWW	TAL CAN
Total/NA	Prep	9030B			349822	10/12/18 10:16	ACR	TAL CAN
Total/NA	Analysis	9034		1	349875	10/12/18 12:24	ACR	TAL CAN
Dissolved	Analysis	9060		1	349758	10/11/18 20:09	TPH	TAL CAN
Total/NA	Analysis	9060		1	350003	10/12/18 14:54	TPH	TAL CAN

TestAmerica Canton

Lab Chronicle

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

TestAmerica Job ID: 240-102503-1

Client Sample ID: GW-100818-BE-039

Lab Sample ID: 240-102503-23

Date Collected: 10/08/18 17:08

Matrix: Water

Date Received: 10/09/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	351300	10/22/18 22:44	BPM	TAL CAN
Dissolved	Prep	3005A			349461	10/10/18 14:00	MBB	TAL CAN
Dissolved	Analysis	6010B		1	349766	10/11/18 17:37	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	349728	10/10/18 21:42	JESW	TAL CAN
Total/NA	Analysis	2340C-1997		1	350534	10/17/18 11:50	TPH	TAL CAN
Total/NA	Analysis	300.0		1	349247	10/09/18 21:28	JWW	TAL CAN
Total/NA	Analysis	300.0		1	349248	10/09/18 21:28	JWW	TAL CAN
Total/NA	Prep	9030B			349822	10/12/18 10:16	ACR	TAL CAN
Total/NA	Analysis	9034		1	349875	10/12/18 12:24	ACR	TAL CAN
Dissolved	Analysis	9060		1	349758	10/11/18 20:36	TPH	TAL CAN
Total/NA	Analysis	9060		1	350003	10/12/18 15:20	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: 240-102503-1

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	02-23-19
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-19
Illinois	NELAP	5	200004	07-31-19
Kansas	NELAP	7	E-10336	01-31-19
Kentucky (UST)	State Program	4	58	02-23-19
Kentucky (WW)	State Program	4	98016	12-31-18 *
Minnesota	NELAP	5	039-999-348	12-31-18 *
Minnesota (Petrofund)	State Program	1	3506	07-31-19
Nevada	State Program	9	OH00048	07-31-19
New Jersey	NELAP	2	OH001	06-30-19
New York	NELAP	2	10975	03-31-19
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-19
Pennsylvania	NELAP	3	68-00340	08-31-19 *
Texas	NELAP	6	T104704517-17-9	08-31-19
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-19
Washington	State Program	10	C971	01-12-19
West Virginia DEP	State Program	3	210	12-31-18 *

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

TestAmerica Canton



CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO: **IN-14344**
PAGE **1** OF **2**
(See Reverse Side for Instructions)

1.8/2.7 0.4/1.3

Project No/Phase/Task Code: 017302-T07		Laboratory Name: Test America		Lab Location: North Campus, OH		SSOW ID: 17302-T07	
Project Name: MLK - Anderson, IN GW Sampling		Lab Contact: D. Hecker		Lab Quote No:		Cooler No: 1072	
Project Location: Anderson, IN		Chemistry Contact: D. Andraghio		ANALYSIS REQUESTED (See Back of COC for Definitions)		Carrier: Fedex	
Sampler(s): A. Johnson, B. Finckler		SAMPLE TYPE		CONTAINER QUANTITY & PRESERVATION		Airbill No:	
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)		DATE (mm/dd/yyyy)		TIME (hh:mm)		Date Shipped: 10/08/18	
Item		Matrix Code		Unpreserved		MS/MSD Request	
1 GW-100418-BE-021		WG		G		10/08/18	
2 GW-100418-AF-018						COMMENTS/ SPECIAL INSTRUCTIONS:	
3 GW-100418-BE-023							
4 GW-100418-BE-025							
5 EB-100418-AF-002		EB					
6 GW-100418-AF-020		WG					
7 GW-100418-BE-027							
8 GW-100418-AF-022							
9 GW-100418-BE-029							
10 GW-100418-BE-024							
11 GW-100418-AF-026							
12 GW-100418-BE-031							
13 GW-100418-AF-028							
14 GW-100518-BE-023							
15 GW-100518-AF-030							
TAT Required in business days (use separate COCs for different TATs):		DATE		TIME		Notes/Special Requirements:	
☐ 1 Day ☐ 2 Days ☐ 3 Days ☒ 2 Week ☐ Other:		10/08/18		1800		126 Bottles total in Cooler	
RELINQUISHED BY: [Signature]		COMPANY: GHS		RECEIVED BY: 1. PGP		DATE: 10-9-18	
TIME: 10/08/18		DATE: 10/08/18		TIME: 1800		DATE: 10-9-18	
1. [Signature]		1. PGP		2. [Signature]		2. [Signature]	
2. [Signature]		2. [Signature]		3. [Signature]		3. [Signature]	
3. [Signature]		3. [Signature]		3. [Signature]		3. [Signature]	



240-102503 Chain of Custody

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE - Fully Executed Copy (GRA) YELLOW - Receiving Laboratory Copy PINK - Shipper GOLDENROD - Sampling Crew

GRA Form: COC-10A (20110804)

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



**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: **IN-14347**
PAGE **2** OF **2**
(See Reverse Side for Instructions)

Project No/Phase/Task Code: 017302-T07		Laboratory Name: Test America		Lab Location: North Canton, OH		SSOW ID: 17302-T07	
Project Name: Wilk - Anderson, IN GW Sampling		Lab Contact: D. Hecker		Lab Quote No: 172		Cooler No: 172	
Project Location: Anderson, IN		CONTAINER QUANTITY & PRESERVATION		ANALYSIS REQUESTED (See Back of COC for Definitions)		Carrier: Fedex	
Chemistry Contact: D. Ambrosio		SAMPLE TYPE				Airbill No:	
Sampler(s): A. Feldman, B. Enrich		(see back of COC)				Date Shipped: 10/08/18	
DATE (mm/dd/yy)		TIME (hh:mm)				COMMENTS/ SPECIAL INSTRUCTIONS:	
1 GW-100518-AF-032		100518		1103		X	
2 GW-100818-BE-034		100818		1111			
3 GW-100818-BE-035				1209			
4 GW-100818-BE-036				1300			
5 GW-100818-BE-037				1359			
6 GW-100818-BE-038				1520			
7 EB-100818-AF-003				1530 EB			
8 GW-100818-BE-039				1708 WG			
9 TB-100818-AF-004				1730 TB			
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**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278

Phone: (317) 291-7007

Fax: (317) 328-2666

COC NO: **IN-14348**

PAGE **1** OF **1**

(See Reverse Side for Instructions)

Project No/Phase/Task Code: 017302-T07		Laboratory Name: Test America		Lab Location: North Canton, OH		SSOW ID: 17302-T07	
Project Name: MLK - Anderson, IN GW Sampling		Lab Contact: D. Hechler		Lab Quote No:		Cooler No: 252	
Project Location: Anderson, IN		CONTAINER QUANTITY & PRESERVATION		ANALYSIS REQUESTED (See Back of COC for Definitions)			
Chemistry Contact: D. Ambrosio		SAMPLE TYPE		MS/MSD Request			
Sampler(s): A. Feldman, B. Everts		Matrix Code		SPECIAL INSTRUCTIONS:			
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)		DATE (mm/dd/yy)		TIME (hh:mm)			
1 GW-100818-BE-034		100818		1111			
2 GW-100818-BE-035		100818		1209			
3 GW-100818-BE-036				1300			
4 GW-100818-BE-037				1359			
5 GW-100818-BE-038				1520			
6 GW-100818-BE-039				1708			
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TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 102503

Client CRA Site Name —

Cooler unpacked by:

Cooler Received on 10-9-18 Opened on 10-9-18

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 # TA 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 +0.9 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C
 IR GUN #36 (CF +0.6 °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 12-16 have been checked at the originating laboratory.

12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC849161

13. Were VOAs on the COC? Yes No

14. Were air bubbles >6 mm in any VOA vials?  Larger than this. Yes No NA

15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # COVERED Yes No

16. 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 _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

Pop

18. 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)

19. SAMPLE PRESERVATION

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

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

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container pH</u>	<u>Preservative Added (mls)</u>	<u>Lot #</u>
GW-100818-BE-034	240-102503-N-17	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100818-BE-034	240-102503-P-17	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100818-BE-034	240-102503-Q-17	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100818-BE-035	240-102503-N-18	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100818-BE-035	240-102503-P-18	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100818-BE-035	240-102503-Q-18	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100818-BE-036	240-102503-N-19	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100818-BE-036	240-102503-P-19	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100818-BE-036	240-102503-Q-19	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100818-BE-037	240-102503-N-20	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100818-BE-037	240-102503-P-20	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100818-BE-037	240-102503-Q-20	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100818-BE-038	240-102503-N-21	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100818-BE-038	240-102503-P-21	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100818-BE-038	240-102503-Q-21	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100818-BE-039	240-102503-N-23	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100818-BE-039	240-102503-P-23	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100818-BE-039	240-102503-Q-23	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-102503-2

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:

10/23/2018 4:26:30 PM

Leslie Howell, Project Manager I

(330)966-9266

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?



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: 240-102503-2

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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

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

TestAmerica Job ID: 240-102503-2

Job ID: 240-102503-2

Laboratory: TestAmerica Canton

Narrative

Job Narrative 240-102503-2

Comments

No additional comments.

Receipt

The samples were received on 10/9/2018 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.3° C and 2.7° C.

GC/MS VOA

Method(s) 8260B: The MS/MSD for batch 350292 was not analyzed due to an instrument malfunction. The following are impacted: GW-100418-BE-021 (240-102503-1), GW-100418-AF-018 (240-102503-2), GW-100418-BE-023 (240-102503-3), GW-100418-BE-025 (240-102503-4), EB-100418-AF-002 (240-102503-5) and GW-100418-AF-020 (240-102503-6).

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: 240-102503-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
5030B	Purge and Trap	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: 240-102503-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-102503-1	GW-100418-BE-021	Water	10/04/18 10:33	10/09/18 09:40
240-102503-2	GW-100418-AF-018	Water	10/04/18 11:03	10/09/18 09:40
240-102503-3	GW-100418-BE-023	Water	10/04/18 10:38	10/09/18 09:40
240-102503-4	GW-100418-BE-025	Water	10/04/18 11:22	10/09/18 09:40
240-102503-5	EB-100418-AF-002	Water	10/04/18 11:17	10/09/18 09:40
240-102503-6	GW-100418-AF-020	Water	10/04/18 12:10	10/09/18 09:40
240-102503-7	GW-100418-BE-027	Water	10/04/18 12:18	10/09/18 09:40
240-102503-8	GW-100418-AF-022	Water	10/04/18 12:13	10/09/18 09:40
240-102503-9	GW-100418-BE-029	Water	10/04/18 14:22	10/09/18 09:40
240-102503-10	GW-100418-AF-024	Water	10/04/18 14:03	10/09/18 09:40
240-102503-11	GW-100418-AF-026	Water	10/04/18 14:44	10/09/18 09:40
240-102503-12	GW-100418-BE-031	Water	10/04/18 15:37	10/09/18 09:40
240-102503-13	GW-100418-AF-028	Water	10/04/18 16:00	10/09/18 09:40
240-102503-14	GW-100518-BE-033	Water	10/05/18 09:31	10/09/18 09:40
240-102503-15	GW-100518-AF-030	Water	10/05/18 09:31	10/09/18 09:40
240-102503-16	GW-100518-AF-032	Water	10/05/18 11:03	10/09/18 09:40
240-102503-17	GW-100818-BE-034	Water	10/08/18 11:11	10/09/18 09:40
240-102503-18	GW-100818-BE-035	Water	10/08/18 12:09	10/09/18 09:40
240-102503-19	GW-100818-BE-036	Water	10/08/18 13:00	10/09/18 09:40
240-102503-20	GW-100818-BE-037	Water	10/08/18 13:59	10/09/18 09:40
240-102503-21	GW-100818-BE-038	Water	10/08/18 15:20	10/09/18 09:40
240-102503-22	EB-100818-AF-003	Water	10/08/18 15:30	10/09/18 09:40
240-102503-23	GW-100818-BE-039	Water	10/08/18 17:08	10/09/18 09:40
240-102503-24	TB-100818-AF-004	Water	10/08/18 17:30	10/09/18 09:40

Detection Summary

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

TestAmerica Job ID: 240-102503-2

Client Sample ID: GW-100418-BE-021

Lab Sample ID: 240-102503-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	2.4		1.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: GW-100418-AF-018

Lab Sample ID: 240-102503-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.3		1.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: GW-100418-BE-023

Lab Sample ID: 240-102503-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	2.3		1.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: GW-100418-BE-025

Lab Sample ID: 240-102503-4

No Detections.

Client Sample ID: EB-100418-AF-002

Lab Sample ID: 240-102503-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.93	J	1.0	0.28	ug/L	1		8260B	Total/NA

Client Sample ID: GW-100418-AF-020

Lab Sample ID: 240-102503-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1000		67	11	ug/L	66.67		8260B	Total/NA
trans-1,2-Dichloroethene	19	J	67	13	ug/L	66.67		8260B	Total/NA
Vinyl chloride	150		67	13	ug/L	66.67		8260B	Total/NA

Client Sample ID: GW-100418-BE-027

Lab Sample ID: 240-102503-7

No Detections.

Client Sample ID: GW-100418-AF-022

Lab Sample ID: 240-102503-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1000		67	11	ug/L	66.67		8260B	Total/NA
trans-1,2-Dichloroethene	24	J	67	13	ug/L	66.67		8260B	Total/NA
Vinyl chloride	160		67	13	ug/L	66.67		8260B	Total/NA

Client Sample ID: GW-100418-BE-029

Lab Sample ID: 240-102503-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	80		5.0	0.80	ug/L	5		8260B	Total/NA

Client Sample ID: GW-100418-AF-024

Lab Sample ID: 240-102503-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4800		330	53	ug/L	333.33		8260B	Total/NA
trans-1,2-Dichloroethene	75	J	330	63	ug/L	333.33		8260B	Total/NA
Vinyl chloride	210	J	330	67	ug/L	333.33		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

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

TestAmerica Job ID: 240-102503-2

Client Sample ID: GW-100418-AF-026

Lab Sample ID: 240-102503-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3500		200	32	ug/L	200		8260B	Total/NA
trans-1,2-Dichloroethene	150	J	200	38	ug/L	200		8260B	Total/NA

Client Sample ID: GW-100418-BE-031

Lab Sample ID: 240-102503-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	79		5.0	0.80	ug/L	5		8260B	Total/NA
Trichloroethene	64		5.0	0.50	ug/L	5		8260B	Total/NA
Vinyl chloride	3.5	J	5.0	1.0	ug/L	5		8260B	Total/NA

Client Sample ID: GW-100418-AF-028

Lab Sample ID: 240-102503-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.92	J	1.0	0.17	ug/L	1		8260B	Total/NA
Chloroform	0.53	J	1.0	0.13	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	15		1.0	0.16	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.69	J	1.0	0.19	ug/L	1		8260B	Total/NA
Trichloroethene	0.27	J	1.0	0.10	ug/L	1		8260B	Total/NA
Vinyl chloride	0.74	J	1.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: GW-100518-BE-033

Lab Sample ID: 240-102503-14

No Detections.

Client Sample ID: GW-100518-AF-030

Lab Sample ID: 240-102503-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.15	J	1.0	0.10	ug/L	1		8260B	Total/NA

Client Sample ID: GW-100518-AF-032

Lab Sample ID: 240-102503-16

No Detections.

Client Sample ID: GW-100818-BE-034

Lab Sample ID: 240-102503-17

No Detections.

Client Sample ID: GW-100818-BE-035

Lab Sample ID: 240-102503-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	330	J	500	85	ug/L	500		8260B	Total/NA
cis-1,2-Dichloroethene	8900		500	80	ug/L	500		8260B	Total/NA
trans-1,2-Dichloroethene	200	J	500	95	ug/L	500		8260B	Total/NA
Trichloroethene	1600		500	50	ug/L	500		8260B	Total/NA
Vinyl chloride	680		500	100	ug/L	500		8260B	Total/NA

Client Sample ID: GW-100818-BE-036

Lab Sample ID: 240-102503-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	97	J	200	34	ug/L	200		8260B	Total/NA
cis-1,2-Dichloroethene	3000		200	32	ug/L	200		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

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

TestAmerica Job ID: 240-102503-2

Client Sample ID: GW-100818-BE-036 (Continued)

Lab Sample ID: 240-102503-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	130	J	200	38	ug/L	200		8260B	Total/NA
Vinyl chloride	64	J	200	40	ug/L	200		8260B	Total/NA

Client Sample ID: GW-100818-BE-037

Lab Sample ID: 240-102503-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.43	J	1.0	0.28	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	8.2		1.0	0.16	ug/L	1		8260B	Total/NA
Trichloroethene	0.20	J	1.0	0.10	ug/L	1		8260B	Total/NA
Vinyl chloride	20		1.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: GW-100818-BE-038

Lab Sample ID: 240-102503-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	300	J	500	85	ug/L	500		8260B	Total/NA
cis-1,2-Dichloroethene	8000		500	80	ug/L	500		8260B	Total/NA
trans-1,2-Dichloroethene	280	J	500	95	ug/L	500		8260B	Total/NA
Vinyl chloride	680		500	100	ug/L	500		8260B	Total/NA

Client Sample ID: EB-100818-AF-003

Lab Sample ID: 240-102503-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.63	J	1.0	0.17	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	24		1.0	0.16	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.0		1.0	0.19	ug/L	1		8260B	Total/NA
Trichloroethene	0.39	J	1.0	0.10	ug/L	1		8260B	Total/NA
Vinyl chloride	0.47	J	1.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: GW-100818-BE-039

Lab Sample ID: 240-102503-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.9		1.0	0.24	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.23	J	1.0	0.19	ug/L	1		8260B	Total/NA

Client Sample ID: TB-100818-AF-004

Lab Sample ID: 240-102503-24

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Client Sample ID: GW-100418-BE-021

Date Collected: 10/04/18 10:33

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/16/18 19:30	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/16/18 19:30	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/16/18 19:30	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/16/18 19:30	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/16/18 19:30	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/16/18 19:30	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/16/18 19:30	1
2-Hexanone	10	U	10	0.54	ug/L			10/16/18 19:30	1
Acetone	10	U	10	5.4	ug/L			10/16/18 19:30	1
Benzene	1.0	U	1.0	0.13	ug/L			10/16/18 19:30	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/16/18 19:30	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/16/18 19:30	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/16/18 19:30	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/16/18 19:30	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/16/18 19:30	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/16/18 19:30	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/16/18 19:30	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/16/18 19:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/16/18 19:30	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/16/18 19:30	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/16/18 19:30	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/16/18 19:30	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/16/18 19:30	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/16/18 19:30	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/16/18 19:30	1
Styrene	1.0	U	1.0	0.10	ug/L			10/16/18 19:30	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/16/18 19:30	1
Toluene	1.0	U	1.0	0.14	ug/L			10/16/18 19:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/16/18 19:30	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/16/18 19:30	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/16/18 19:30	1
Vinyl chloride	2.4		1.0	0.20	ug/L			10/16/18 19:30	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/16/18 19:30	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/16/18 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 121		10/16/18 19:30	1
4-Bromofluorobenzene (Surr)	102		59 - 120		10/16/18 19:30	1
Toluene-d8 (Surr)	96		70 - 123		10/16/18 19:30	1
Dibromofluoromethane (Surr)	96		75 - 128		10/16/18 19:30	1

Client Sample ID: GW-100418-AF-018

Date Collected: 10/04/18 11:03

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/16/18 19:55	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/16/18 19:55	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/16/18 19:55	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/16/18 19:55	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/16/18 19:55	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Client Sample ID: GW-100418-AF-018

Date Collected: 10/04/18 11:03

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/16/18 19:55	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/16/18 19:55	1
2-Hexanone	10	U	10	0.54	ug/L			10/16/18 19:55	1
Acetone	10	U	10	5.4	ug/L			10/16/18 19:55	1
Benzene	1.0	U	1.0	0.13	ug/L			10/16/18 19:55	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/16/18 19:55	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/16/18 19:55	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/16/18 19:55	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/16/18 19:55	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/16/18 19:55	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/16/18 19:55	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/16/18 19:55	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/16/18 19:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/16/18 19:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/16/18 19:55	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/16/18 19:55	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/16/18 19:55	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/16/18 19:55	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/16/18 19:55	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/16/18 19:55	1
Styrene	1.0	U	1.0	0.10	ug/L			10/16/18 19:55	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/16/18 19:55	1
Toluene	1.0	U	1.0	0.14	ug/L			10/16/18 19:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/16/18 19:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/16/18 19:55	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/16/18 19:55	1
Vinyl chloride	1.3		1.0	0.20	ug/L			10/16/18 19:55	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/16/18 19:55	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/16/18 19:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 121		10/16/18 19:55	1
4-Bromofluorobenzene (Surr)	100		59 - 120		10/16/18 19:55	1
Toluene-d8 (Surr)	99		70 - 123		10/16/18 19:55	1
Dibromofluoromethane (Surr)	98		75 - 128		10/16/18 19:55	1

Client Sample ID: GW-100418-BE-023

Date Collected: 10/04/18 10:38

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/16/18 21:21	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/16/18 21:21	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/16/18 21:21	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/16/18 21:21	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/16/18 21:21	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/16/18 21:21	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/16/18 21:21	1
2-Hexanone	10	U	10	0.54	ug/L			10/16/18 21:21	1
Acetone	10	U	10	5.4	ug/L			10/16/18 21:21	1
Benzene	1.0	U	1.0	0.13	ug/L			10/16/18 21:21	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Client Sample ID: GW-100418-BE-023

Date Collected: 10/04/18 10:38

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	1.0	U	1.0	0.76	ug/L			10/16/18 21:21	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/16/18 21:21	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/16/18 21:21	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/16/18 21:21	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/16/18 21:21	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/16/18 21:21	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/16/18 21:21	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/16/18 21:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/16/18 21:21	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/16/18 21:21	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/16/18 21:21	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/16/18 21:21	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/16/18 21:21	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/16/18 21:21	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/16/18 21:21	1
Styrene	1.0	U	1.0	0.10	ug/L			10/16/18 21:21	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/16/18 21:21	1
Toluene	1.0	U	1.0	0.14	ug/L			10/16/18 21:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/16/18 21:21	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/16/18 21:21	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/16/18 21:21	1
Vinyl chloride	2.3		1.0	0.20	ug/L			10/16/18 21:21	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/16/18 21:21	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/16/18 21:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 121		10/16/18 21:21	1
4-Bromofluorobenzene (Surr)	98		59 - 120		10/16/18 21:21	1
Toluene-d8 (Surr)	95		70 - 123		10/16/18 21:21	1
Dibromofluoromethane (Surr)	98		75 - 128		10/16/18 21:21	1

Client Sample ID: GW-100418-BE-025

Date Collected: 10/04/18 11:22

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/16/18 21:46	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/16/18 21:46	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/16/18 21:46	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/16/18 21:46	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/16/18 21:46	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/16/18 21:46	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/16/18 21:46	1
2-Hexanone	10	U	10	0.54	ug/L			10/16/18 21:46	1
Acetone	10	U	10	5.4	ug/L			10/16/18 21:46	1
Benzene	1.0	U	1.0	0.13	ug/L			10/16/18 21:46	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/16/18 21:46	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/16/18 21:46	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/16/18 21:46	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/16/18 21:46	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/16/18 21:46	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Client Sample ID: GW-100418-BE-025

Date Collected: 10/04/18 11:22

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0	0.83	ug/L			10/16/18 21:46	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/16/18 21:46	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/16/18 21:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/16/18 21:46	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/16/18 21:46	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/16/18 21:46	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/16/18 21:46	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/16/18 21:46	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/16/18 21:46	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/16/18 21:46	1
Styrene	1.0	U	1.0	0.10	ug/L			10/16/18 21:46	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/16/18 21:46	1
Toluene	1.0	U	1.0	0.14	ug/L			10/16/18 21:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/16/18 21:46	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/16/18 21:46	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/16/18 21:46	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/16/18 21:46	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/16/18 21:46	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/16/18 21:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 121		10/16/18 21:46	1
4-Bromofluorobenzene (Surr)	101		59 - 120		10/16/18 21:46	1
Toluene-d8 (Surr)	98		70 - 123		10/16/18 21:46	1
Dibromofluoromethane (Surr)	100		75 - 128		10/16/18 21:46	1

Client Sample ID: EB-100418-AF-002

Date Collected: 10/04/18 11:17

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/16/18 22:11	1
1,1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/16/18 22:11	1
1,1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/16/18 22:11	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/16/18 22:11	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/16/18 22:11	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/16/18 22:11	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/16/18 22:11	1
2-Hexanone	10	U	10	0.54	ug/L			10/16/18 22:11	1
Acetone	10	U	10	5.4	ug/L			10/16/18 22:11	1
Benzene	1.0	U	1.0	0.13	ug/L			10/16/18 22:11	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/16/18 22:11	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/16/18 22:11	1
Carbon disulfide	0.93	J	1.0	0.28	ug/L			10/16/18 22:11	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/16/18 22:11	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/16/18 22:11	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/16/18 22:11	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/16/18 22:11	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/16/18 22:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/16/18 22:11	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/16/18 22:11	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Client Sample ID: EB-100418-AF-002

Date Collected: 10/04/18 11:17

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/16/18 22:11	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/16/18 22:11	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/16/18 22:11	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/16/18 22:11	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/16/18 22:11	1
Styrene	1.0	U	1.0	0.10	ug/L			10/16/18 22:11	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/16/18 22:11	1
Toluene	1.0	U	1.0	0.14	ug/L			10/16/18 22:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/16/18 22:11	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/16/18 22:11	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/16/18 22:11	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/16/18 22:11	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/16/18 22:11	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/16/18 22:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 121		10/16/18 22:11	1
4-Bromofluorobenzene (Surr)	96		59 - 120		10/16/18 22:11	1
Toluene-d8 (Surr)	93		70 - 123		10/16/18 22:11	1
Dibromofluoromethane (Surr)	102		75 - 128		10/16/18 22:11	1

Client Sample ID: GW-100418-AF-020

Date Collected: 10/04/18 12:10

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	67	U	67	16	ug/L			10/16/18 22:36	66.67
1,1,2,2-Tetrachloroethane	67	U	67	8.7	ug/L			10/16/18 22:36	66.67
1,1,2-Trichloroethane	67	U	67	6.0	ug/L			10/16/18 22:36	66.67
1,1-Dichloroethane	67	U	67	11	ug/L			10/16/18 22:36	66.67
1,1-Dichloroethene	67	U	67	13	ug/L			10/16/18 22:36	66.67
1,2-Dichloroethane	67	U	67	14	ug/L			10/16/18 22:36	66.67
1,2-Dichloropropane	67	U	67	10	ug/L			10/16/18 22:36	66.67
2-Hexanone	670	U	670	36	ug/L			10/16/18 22:36	66.67
Acetone	670	U	670	360	ug/L			10/16/18 22:36	66.67
Benzene	67	U	67	8.7	ug/L			10/16/18 22:36	66.67
Bromoform	67	U	67	51	ug/L			10/16/18 22:36	66.67
Bromomethane	67	U	67	28	ug/L			10/16/18 22:36	66.67
Carbon disulfide	67	U	67	19	ug/L			10/16/18 22:36	66.67
Carbon tetrachloride	67	U	67	17	ug/L			10/16/18 22:36	66.67
Chlorobenzene	67	U	67	9.3	ug/L			10/16/18 22:36	66.67
Chloroethane	67	U	67	55	ug/L			10/16/18 22:36	66.67
Chloroform	67	U	67	8.7	ug/L			10/16/18 22:36	66.67
Chloromethane	67	U	67	13	ug/L			10/16/18 22:36	66.67
cis-1,2-Dichloroethene	1000		67	11	ug/L			10/16/18 22:36	66.67
cis-1,3-Dichloropropene	67	U	67	41	ug/L			10/16/18 22:36	66.67
Dichlorobromomethane	67	U	67	11	ug/L			10/16/18 22:36	66.67
Ethylbenzene	67	U	67	7.3	ug/L			10/16/18 22:36	66.67
2-Butanone (MEK)	670	U	670	77	ug/L			10/16/18 22:36	66.67
4-Methyl-2-pentanone (MIBK)	670	U	670	28	ug/L			10/16/18 22:36	66.67
Methylene Chloride	330	U	330	170	ug/L			10/16/18 22:36	66.67

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Client Sample ID: GW-100418-AF-020

Date Collected: 10/04/18 12:10

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	67	U	67	6.7	ug/L			10/16/18 22:36	66.67
Tetrachloroethene	67	U	67	10	ug/L			10/16/18 22:36	66.67
Toluene	67	U	67	9.3	ug/L			10/16/18 22:36	66.67
trans-1,2-Dichloroethene	19	J	67	13	ug/L			10/16/18 22:36	66.67
trans-1,3-Dichloropropene	67	U	67	45	ug/L			10/16/18 22:36	66.67
Trichloroethene	67	U	67	6.7	ug/L			10/16/18 22:36	66.67
Vinyl chloride	150		67	13	ug/L			10/16/18 22:36	66.67
Xylenes, Total	130	U	130	10	ug/L			10/16/18 22:36	66.67
Chlorodibromomethane	67	U	67	26	ug/L			10/16/18 22:36	66.67
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 121					10/16/18 22:36	66.67
4-Bromofluorobenzene (Surr)	97		59 - 120					10/16/18 22:36	66.67
Toluene-d8 (Surr)	95		70 - 123					10/16/18 22:36	66.67
Dibromofluoromethane (Surr)	102		75 - 128					10/16/18 22:36	66.67

Client Sample ID: GW-100418-BE-027

Date Collected: 10/04/18 12:18

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/17/18 15:57	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/17/18 15:57	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/17/18 15:57	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/17/18 15:57	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/17/18 15:57	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/17/18 15:57	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/17/18 15:57	1
2-Hexanone	10	U	10	0.54	ug/L			10/17/18 15:57	1
Acetone	10	U	10	5.4	ug/L			10/17/18 15:57	1
Benzene	1.0	U	1.0	0.13	ug/L			10/17/18 15:57	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/17/18 15:57	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/17/18 15:57	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/17/18 15:57	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/17/18 15:57	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/17/18 15:57	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/17/18 15:57	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/17/18 15:57	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/17/18 15:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/17/18 15:57	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/17/18 15:57	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/17/18 15:57	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/17/18 15:57	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/17/18 15:57	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/17/18 15:57	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/17/18 15:57	1
Styrene	1.0	U	1.0	0.10	ug/L			10/17/18 15:57	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/17/18 15:57	1
Toluene	1.0	U	1.0	0.14	ug/L			10/17/18 15:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/17/18 15:57	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/17/18 15:57	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Client Sample ID: GW-100418-BE-027

Date Collected: 10/04/18 12:18

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/17/18 15:57	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/17/18 15:57	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/17/18 15:57	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/17/18 15:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 121					10/17/18 15:57	1
4-Bromofluorobenzene (Surr)	97		59 - 120					10/17/18 15:57	1
Toluene-d8 (Surr)	98		70 - 123					10/17/18 15:57	1
Dibromofluoromethane (Surr)	97		75 - 128					10/17/18 15:57	1

Client Sample ID: GW-100418-AF-022

Date Collected: 10/04/18 12:13

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	67	U	67	16	ug/L			10/17/18 14:18	66.67
1,1,2,2-Tetrachloroethane	67	U	67	8.7	ug/L			10/17/18 14:18	66.67
1,1,2-Trichloroethane	67	U	67	6.0	ug/L			10/17/18 14:18	66.67
1,1-Dichloroethane	67	U	67	11	ug/L			10/17/18 14:18	66.67
1,1-Dichloroethene	67	U	67	13	ug/L			10/17/18 14:18	66.67
1,2-Dichloroethane	67	U	67	14	ug/L			10/17/18 14:18	66.67
1,2-Dichloropropane	67	U	67	10	ug/L			10/17/18 14:18	66.67
2-Hexanone	670	U	670	36	ug/L			10/17/18 14:18	66.67
Acetone	670	U	670	360	ug/L			10/17/18 14:18	66.67
Benzene	67	U	67	8.7	ug/L			10/17/18 14:18	66.67
Bromoform	67	U	67	51	ug/L			10/17/18 14:18	66.67
Bromomethane	67	U	67	28	ug/L			10/17/18 14:18	66.67
Carbon disulfide	67	U	67	19	ug/L			10/17/18 14:18	66.67
Carbon tetrachloride	67	U	67	17	ug/L			10/17/18 14:18	66.67
Chlorobenzene	67	U	67	9.3	ug/L			10/17/18 14:18	66.67
Chloroethane	67	U	67	55	ug/L			10/17/18 14:18	66.67
Chloroform	67	U	67	8.7	ug/L			10/17/18 14:18	66.67
Chloromethane	67	U	67	13	ug/L			10/17/18 14:18	66.67
cis-1,2-Dichloroethene	1000		67	11	ug/L			10/17/18 14:18	66.67
cis-1,3-Dichloropropene	67	U	67	41	ug/L			10/17/18 14:18	66.67
Dichlorobromomethane	67	U	67	11	ug/L			10/17/18 14:18	66.67
Ethylbenzene	67	U	67	7.3	ug/L			10/17/18 14:18	66.67
2-Butanone (MEK)	670	U	670	77	ug/L			10/17/18 14:18	66.67
4-Methyl-2-pentanone (MIBK)	670	U	670	28	ug/L			10/17/18 14:18	66.67
Methylene Chloride	330	U	330	170	ug/L			10/17/18 14:18	66.67
Styrene	67	U	67	6.7	ug/L			10/17/18 14:18	66.67
Tetrachloroethene	67	U	67	10	ug/L			10/17/18 14:18	66.67
Toluene	67	U	67	9.3	ug/L			10/17/18 14:18	66.67
trans-1,2-Dichloroethene	24	J	67	13	ug/L			10/17/18 14:18	66.67
trans-1,3-Dichloropropene	67	U	67	45	ug/L			10/17/18 14:18	66.67
Trichloroethene	67	U	67	6.7	ug/L			10/17/18 14:18	66.67
Vinyl chloride	160		67	13	ug/L			10/17/18 14:18	66.67
Xylenes, Total	130	U	130	10	ug/L			10/17/18 14:18	66.67
Chlorodibromomethane	67	U	67	26	ug/L			10/17/18 14:18	66.67

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 121		10/17/18 14:18	66.67
4-Bromofluorobenzene (Surr)	102		59 - 120		10/17/18 14:18	66.67
Toluene-d8 (Surr)	95		70 - 123		10/17/18 14:18	66.67
Dibromofluoromethane (Surr)	96		75 - 128		10/17/18 14:18	66.67

Client Sample ID: GW-100418-BE-029

Date Collected: 10/04/18 14:22

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	1.2	ug/L			10/17/18 14:43	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.65	ug/L			10/17/18 14:43	5
1,1,2-Trichloroethane	5.0	U	5.0	0.45	ug/L			10/17/18 14:43	5
1,1-Dichloroethane	5.0	U	5.0	0.85	ug/L			10/17/18 14:43	5
1,1-Dichloroethene	5.0	U	5.0	0.95	ug/L			10/17/18 14:43	5
1,2-Dichloroethane	5.0	U	5.0	1.1	ug/L			10/17/18 14:43	5
1,2-Dichloropropane	5.0	U	5.0	0.75	ug/L			10/17/18 14:43	5
2-Hexanone	50	U	50	2.7	ug/L			10/17/18 14:43	5
Acetone	50	U	50	27	ug/L			10/17/18 14:43	5
Benzene	5.0	U	5.0	0.65	ug/L			10/17/18 14:43	5
Bromoform	5.0	U	5.0	3.8	ug/L			10/17/18 14:43	5
Bromomethane	5.0	U	5.0	2.1	ug/L			10/17/18 14:43	5
Carbon disulfide	5.0	U	5.0	1.4	ug/L			10/17/18 14:43	5
Carbon tetrachloride	5.0	U	5.0	1.3	ug/L			10/17/18 14:43	5
Chlorobenzene	5.0	U	5.0	0.70	ug/L			10/17/18 14:43	5
Chloroethane	5.0	U	5.0	4.2	ug/L			10/17/18 14:43	5
Chloroform	5.0	U	5.0	0.65	ug/L			10/17/18 14:43	5
Chloromethane	5.0	U	5.0	1.0	ug/L			10/17/18 14:43	5
cis-1,2-Dichloroethene	80		5.0	0.80	ug/L			10/17/18 14:43	5
cis-1,3-Dichloropropene	5.0	U	5.0	3.1	ug/L			10/17/18 14:43	5
Dichlorobromomethane	5.0	U	5.0	0.85	ug/L			10/17/18 14:43	5
Ethylbenzene	5.0	U	5.0	0.55	ug/L			10/17/18 14:43	5
2-Butanone (MEK)	50	U	50	5.8	ug/L			10/17/18 14:43	5
4-Methyl-2-pentanone (MIBK)	50	U	50	2.1	ug/L			10/17/18 14:43	5
Methylene Chloride	25	U	25	13	ug/L			10/17/18 14:43	5
Styrene	5.0	U	5.0	0.50	ug/L			10/17/18 14:43	5
Tetrachloroethene	5.0	U	5.0	0.75	ug/L			10/17/18 14:43	5
Toluene	5.0	U	5.0	0.70	ug/L			10/17/18 14:43	5
trans-1,2-Dichloroethene	5.0	U	5.0	0.95	ug/L			10/17/18 14:43	5
trans-1,3-Dichloropropene	5.0	U	5.0	3.4	ug/L			10/17/18 14:43	5
Trichloroethene	5.0	U	5.0	0.50	ug/L			10/17/18 14:43	5
Vinyl chloride	5.0	U	5.0	1.0	ug/L			10/17/18 14:43	5
Xylenes, Total	10	U	10	0.75	ug/L			10/17/18 14:43	5
Chlorodibromomethane	5.0	U	5.0	2.0	ug/L			10/17/18 14:43	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 121		10/17/18 14:43	5
4-Bromofluorobenzene (Surr)	94		59 - 120		10/17/18 14:43	5
Toluene-d8 (Surr)	95		70 - 123		10/17/18 14:43	5
Dibromofluoromethane (Surr)	97		75 - 128		10/17/18 14:43	5

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Client Sample ID: GW-100418-AF-024

Date Collected: 10/04/18 14:03

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-10

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	330	U	330	80	ug/L			10/17/18 15:08	333.33
1,1,2,2-Tetrachloroethane	330	U	330	43	ug/L			10/17/18 15:08	333.33
1,1,2-Trichloroethane	330	U	330	30	ug/L			10/17/18 15:08	333.33
1,1-Dichloroethane	330	U	330	57	ug/L			10/17/18 15:08	333.33
1,1-Dichloroethene	330	U	330	63	ug/L			10/17/18 15:08	333.33
1,2-Dichloroethane	330	U	330	70	ug/L			10/17/18 15:08	333.33
1,2-Dichloropropane	330	U	330	50	ug/L			10/17/18 15:08	333.33
2-Hexanone	3300	U	3300	180	ug/L			10/17/18 15:08	333.33
Acetone	3300	U	3300	1800	ug/L			10/17/18 15:08	333.33
Benzene	330	U	330	43	ug/L			10/17/18 15:08	333.33
Bromoform	330	U	330	250	ug/L			10/17/18 15:08	333.33
Bromomethane	330	U	330	140	ug/L			10/17/18 15:08	333.33
Carbon disulfide	330	U	330	93	ug/L			10/17/18 15:08	333.33
Carbon tetrachloride	330	U	330	87	ug/L			10/17/18 15:08	333.33
Chlorobenzene	330	U	330	47	ug/L			10/17/18 15:08	333.33
Chloroethane	330	U	330	280	ug/L			10/17/18 15:08	333.33
Chloroform	330	U	330	43	ug/L			10/17/18 15:08	333.33
Chloromethane	330	U	330	67	ug/L			10/17/18 15:08	333.33
cis-1,2-Dichloroethene	4800		330	53	ug/L			10/17/18 15:08	333.33
cis-1,3-Dichloropropene	330	U	330	200	ug/L			10/17/18 15:08	333.33
Dichlorobromomethane	330	U	330	57	ug/L			10/17/18 15:08	333.33
Ethylbenzene	330	U	330	37	ug/L			10/17/18 15:08	333.33
2-Butanone (MEK)	3300	U	3300	390	ug/L			10/17/18 15:08	333.33
4-Methyl-2-pentanone (MIBK)	3300	U	3300	140	ug/L			10/17/18 15:08	333.33
Methylene Chloride	1700	U	1700	870	ug/L			10/17/18 15:08	333.33
Styrene	330	U	330	33	ug/L			10/17/18 15:08	333.33
Tetrachloroethene	330	U	330	50	ug/L			10/17/18 15:08	333.33
Toluene	330	U	330	47	ug/L			10/17/18 15:08	333.33
trans-1,2-Dichloroethene	75	J	330	63	ug/L			10/17/18 15:08	333.33
trans-1,3-Dichloropropene	330	U	330	220	ug/L			10/17/18 15:08	333.33
Trichloroethene	330	U	330	33	ug/L			10/17/18 15:08	333.33
Vinyl chloride	210	J	330	67	ug/L			10/17/18 15:08	333.33
Xylenes, Total	670	U	670	50	ug/L			10/17/18 15:08	333.33
Chlorodibromomethane	330	U	330	130	ug/L			10/17/18 15:08	333.33

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 121		10/17/18 15:08	333.33
4-Bromofluorobenzene (Surr)	98		59 - 120		10/17/18 15:08	333.33
Toluene-d8 (Surr)	95		70 - 123		10/17/18 15:08	333.33
Dibromofluoromethane (Surr)	99		75 - 128		10/17/18 15:08	333.33

Client Sample ID: GW-100418-AF-026

Date Collected: 10/04/18 14:44

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-11

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	200	U	200	48	ug/L			10/17/18 16:22	200
1,1,2,2-Tetrachloroethane	200	U	200	26	ug/L			10/17/18 16:22	200
1,1,2-Trichloroethane	200	U	200	18	ug/L			10/17/18 16:22	200
1,1-Dichloroethane	200	U	200	34	ug/L			10/17/18 16:22	200
1,1-Dichloroethene	200	U	200	38	ug/L			10/17/18 16:22	200

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Client Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Client Sample ID: GW-100418-AF-026

Date Collected: 10/04/18 14:44

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-11

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	200	U	200	42	ug/L			10/17/18 16:22	200
1,2-Dichloropropane	200	U	200	30	ug/L			10/17/18 16:22	200
2-Hexanone	2000	U	2000	110	ug/L			10/17/18 16:22	200
Acetone	2000	U	2000	1100	ug/L			10/17/18 16:22	200
Benzene	200	U	200	26	ug/L			10/17/18 16:22	200
Bromoform	200	U	200	150	ug/L			10/17/18 16:22	200
Bromomethane	200	U	200	84	ug/L			10/17/18 16:22	200
Carbon disulfide	200	U	200	56	ug/L			10/17/18 16:22	200
Carbon tetrachloride	200	U	200	52	ug/L			10/17/18 16:22	200
Chlorobenzene	200	U	200	28	ug/L			10/17/18 16:22	200
Chloroethane	200	U	200	170	ug/L			10/17/18 16:22	200
Chloroform	200	U	200	26	ug/L			10/17/18 16:22	200
Chloromethane	200	U	200	40	ug/L			10/17/18 16:22	200
cis-1,2-Dichloroethene	3500		200	32	ug/L			10/17/18 16:22	200
cis-1,3-Dichloropropene	200	U	200	120	ug/L			10/17/18 16:22	200
Dichlorobromomethane	200	U	200	34	ug/L			10/17/18 16:22	200
Ethylbenzene	200	U	200	22	ug/L			10/17/18 16:22	200
2-Butanone (MEK)	2000	U	2000	230	ug/L			10/17/18 16:22	200
4-Methyl-2-pentanone (MIBK)	2000	U	2000	84	ug/L			10/17/18 16:22	200
Methylene Chloride	1000	U	1000	520	ug/L			10/17/18 16:22	200
Styrene	200	U	200	20	ug/L			10/17/18 16:22	200
Tetrachloroethene	200	U	200	30	ug/L			10/17/18 16:22	200
Toluene	200	U	200	28	ug/L			10/17/18 16:22	200
trans-1,2-Dichloroethene	150	J	200	38	ug/L			10/17/18 16:22	200
trans-1,3-Dichloropropene	200	U	200	130	ug/L			10/17/18 16:22	200
Trichloroethene	200	U	200	20	ug/L			10/17/18 16:22	200
Vinyl chloride	200	U	200	40	ug/L			10/17/18 16:22	200
Xylenes, Total	400	U	400	30	ug/L			10/17/18 16:22	200
Chlorodibromomethane	200	U	200	78	ug/L			10/17/18 16:22	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 121		10/17/18 16:22	200
4-Bromofluorobenzene (Surr)	98		59 - 120		10/17/18 16:22	200
Toluene-d8 (Surr)	96		70 - 123		10/17/18 16:22	200
Dibromofluoromethane (Surr)	97		75 - 128		10/17/18 16:22	200

Client Sample ID: GW-100418-BE-031

Date Collected: 10/04/18 15:37

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-12

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	1.2	ug/L			10/17/18 15:33	5
1,1,1,2-Tetrachloroethane	5.0	U	5.0	0.65	ug/L			10/17/18 15:33	5
1,1,2-Trichloroethane	5.0	U	5.0	0.45	ug/L			10/17/18 15:33	5
1,1-Dichloroethane	5.0	U	5.0	0.85	ug/L			10/17/18 15:33	5
1,1-Dichloroethene	5.0	U	5.0	0.95	ug/L			10/17/18 15:33	5
1,2-Dichloroethane	5.0	U	5.0	1.1	ug/L			10/17/18 15:33	5
1,2-Dichloropropane	5.0	U	5.0	0.75	ug/L			10/17/18 15:33	5
2-Hexanone	50	U	50	2.7	ug/L			10/17/18 15:33	5
Acetone	50	U	50	27	ug/L			10/17/18 15:33	5
Benzene	5.0	U	5.0	0.65	ug/L			10/17/18 15:33	5

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Client Sample ID: GW-100418-BE-031

Date Collected: 10/04/18 15:37

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-12

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	5.0	U	5.0	3.8	ug/L			10/17/18 15:33	5
Bromomethane	5.0	U	5.0	2.1	ug/L			10/17/18 15:33	5
Carbon disulfide	5.0	U	5.0	1.4	ug/L			10/17/18 15:33	5
Carbon tetrachloride	5.0	U	5.0	1.3	ug/L			10/17/18 15:33	5
Chlorobenzene	5.0	U	5.0	0.70	ug/L			10/17/18 15:33	5
Chloroethane	5.0	U	5.0	4.2	ug/L			10/17/18 15:33	5
Chloroform	5.0	U	5.0	0.65	ug/L			10/17/18 15:33	5
Chloromethane	5.0	U	5.0	1.0	ug/L			10/17/18 15:33	5
cis-1,2-Dichloroethene	79		5.0	0.80	ug/L			10/17/18 15:33	5
cis-1,3-Dichloropropene	5.0	U	5.0	3.1	ug/L			10/17/18 15:33	5
Dichlorobromomethane	5.0	U	5.0	0.85	ug/L			10/17/18 15:33	5
Ethylbenzene	5.0	U	5.0	0.55	ug/L			10/17/18 15:33	5
2-Butanone (MEK)	50	U	50	5.8	ug/L			10/17/18 15:33	5
4-Methyl-2-pentanone (MIBK)	50	U	50	2.1	ug/L			10/17/18 15:33	5
Methylene Chloride	25	U	25	13	ug/L			10/17/18 15:33	5
Styrene	5.0	U	5.0	0.50	ug/L			10/17/18 15:33	5
Tetrachloroethene	5.0	U	5.0	0.75	ug/L			10/17/18 15:33	5
Toluene	5.0	U	5.0	0.70	ug/L			10/17/18 15:33	5
trans-1,2-Dichloroethene	5.0	U	5.0	0.95	ug/L			10/17/18 15:33	5
trans-1,3-Dichloropropene	5.0	U	5.0	3.4	ug/L			10/17/18 15:33	5
Trichloroethene	64		5.0	0.50	ug/L			10/17/18 15:33	5
Vinyl chloride	3.5 J		5.0	1.0	ug/L			10/17/18 15:33	5
Xylenes, Total	10	U	10	0.75	ug/L			10/17/18 15:33	5
Chlorodibromomethane	5.0	U	5.0	2.0	ug/L			10/17/18 15:33	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 121		10/17/18 15:33	5
4-Bromofluorobenzene (Surr)	98		59 - 120		10/17/18 15:33	5
Toluene-d8 (Surr)	95		70 - 123		10/17/18 15:33	5
Dibromofluoromethane (Surr)	99		75 - 128		10/17/18 15:33	5

Client Sample ID: GW-100418-AF-028

Date Collected: 10/04/18 16:00

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-13

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/17/18 01:32	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/17/18 01:32	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/17/18 01:32	1
1,1-Dichloroethane	0.92 J		1.0	0.17	ug/L			10/17/18 01:32	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/17/18 01:32	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/17/18 01:32	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/17/18 01:32	1
2-Hexanone	10	U	10	0.54	ug/L			10/17/18 01:32	1
Acetone	10	U	10	5.4	ug/L			10/17/18 01:32	1
Benzene	1.0	U	1.0	0.13	ug/L			10/17/18 01:32	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/17/18 01:32	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/17/18 01:32	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/17/18 01:32	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/17/18 01:32	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/17/18 01:32	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Client Sample ID: GW-100418-AF-028

Date Collected: 10/04/18 16:00

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-13

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0	0.83	ug/L			10/17/18 01:32	1
Chloroform	0.53	J	1.0	0.13	ug/L			10/17/18 01:32	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/17/18 01:32	1
cis-1,2-Dichloroethene	15		1.0	0.16	ug/L			10/17/18 01:32	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/17/18 01:32	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/17/18 01:32	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/17/18 01:32	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/17/18 01:32	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/17/18 01:32	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/17/18 01:32	1
Styrene	1.0	U	1.0	0.10	ug/L			10/17/18 01:32	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/17/18 01:32	1
Toluene	1.0	U	1.0	0.14	ug/L			10/17/18 01:32	1
trans-1,2-Dichloroethene	0.69	J	1.0	0.19	ug/L			10/17/18 01:32	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/17/18 01:32	1
Trichloroethene	0.27	J	1.0	0.10	ug/L			10/17/18 01:32	1
Vinyl chloride	0.74	J	1.0	0.20	ug/L			10/17/18 01:32	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/17/18 01:32	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/17/18 01:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 121		10/17/18 01:32	1
4-Bromofluorobenzene (Surr)	88		59 - 120		10/17/18 01:32	1
Toluene-d8 (Surr)	93		70 - 123		10/17/18 01:32	1
Dibromofluoromethane (Surr)	110		75 - 128		10/17/18 01:32	1

Client Sample ID: GW-100518-BE-033

Date Collected: 10/05/18 09:31

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-14

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/17/18 01:54	1
1,1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/17/18 01:54	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/17/18 01:54	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/17/18 01:54	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/17/18 01:54	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/17/18 01:54	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/17/18 01:54	1
2-Hexanone	10	U	10	0.54	ug/L			10/17/18 01:54	1
Acetone	10	U	10	5.4	ug/L			10/17/18 01:54	1
Benzene	1.0	U	1.0	0.13	ug/L			10/17/18 01:54	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/17/18 01:54	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/17/18 01:54	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/17/18 01:54	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/17/18 01:54	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/17/18 01:54	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/17/18 01:54	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/17/18 01:54	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/17/18 01:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/17/18 01:54	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/17/18 01:54	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Client Sample ID: GW-100518-BE-033

Date Collected: 10/05/18 09:31

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-14

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/17/18 01:54	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/17/18 01:54	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/17/18 01:54	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/17/18 01:54	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/17/18 01:54	1
Styrene	1.0	U	1.0	0.10	ug/L			10/17/18 01:54	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/17/18 01:54	1
Toluene	1.0	U	1.0	0.14	ug/L			10/17/18 01:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/17/18 01:54	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/17/18 01:54	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/17/18 01:54	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/17/18 01:54	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/17/18 01:54	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/17/18 01:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 121		10/17/18 01:54	1
4-Bromofluorobenzene (Surr)	88		59 - 120		10/17/18 01:54	1
Toluene-d8 (Surr)	92		70 - 123		10/17/18 01:54	1
Dibromofluoromethane (Surr)	110		75 - 128		10/17/18 01:54	1

Client Sample ID: GW-100518-AF-030

Date Collected: 10/05/18 09:31

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-15

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/17/18 02:16	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/17/18 02:16	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/17/18 02:16	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/17/18 02:16	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/17/18 02:16	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/17/18 02:16	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/17/18 02:16	1
2-Hexanone	10	U	10	0.54	ug/L			10/17/18 02:16	1
Acetone	10	U	10	5.4	ug/L			10/17/18 02:16	1
Benzene	1.0	U	1.0	0.13	ug/L			10/17/18 02:16	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/17/18 02:16	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/17/18 02:16	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/17/18 02:16	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/17/18 02:16	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/17/18 02:16	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/17/18 02:16	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/17/18 02:16	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/17/18 02:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/17/18 02:16	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/17/18 02:16	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/17/18 02:16	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/17/18 02:16	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/17/18 02:16	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/17/18 02:16	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/17/18 02:16	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Client Sample ID: GW-100518-AF-030

Date Collected: 10/05/18 09:31

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-15

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.0	U	1.0	0.10	ug/L			10/17/18 02:16	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/17/18 02:16	1
Toluene	1.0	U	1.0	0.14	ug/L			10/17/18 02:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/17/18 02:16	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/17/18 02:16	1
Trichloroethene	0.15	J	1.0	0.10	ug/L			10/17/18 02:16	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/17/18 02:16	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/17/18 02:16	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/17/18 02:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 121					10/17/18 02:16	1
4-Bromofluorobenzene (Surr)	86		59 - 120					10/17/18 02:16	1
Toluene-d8 (Surr)	92		70 - 123					10/17/18 02:16	1
Dibromofluoromethane (Surr)	113		75 - 128					10/17/18 02:16	1

Client Sample ID: GW-100518-AF-032

Date Collected: 10/05/18 11:03

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-16

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/17/18 02:38	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/17/18 02:38	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/17/18 02:38	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/17/18 02:38	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/17/18 02:38	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/17/18 02:38	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/17/18 02:38	1
2-Hexanone	10	U	10	0.54	ug/L			10/17/18 02:38	1
Acetone	10	U	10	5.4	ug/L			10/17/18 02:38	1
Benzene	1.0	U	1.0	0.13	ug/L			10/17/18 02:38	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/17/18 02:38	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/17/18 02:38	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/17/18 02:38	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/17/18 02:38	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/17/18 02:38	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/17/18 02:38	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/17/18 02:38	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/17/18 02:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/17/18 02:38	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/17/18 02:38	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/17/18 02:38	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/17/18 02:38	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/17/18 02:38	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/17/18 02:38	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/17/18 02:38	1
Styrene	1.0	U	1.0	0.10	ug/L			10/17/18 02:38	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/17/18 02:38	1
Toluene	1.0	U	1.0	0.14	ug/L			10/17/18 02:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/17/18 02:38	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/17/18 02:38	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Client Sample ID: GW-100518-AF-032

Date Collected: 10/05/18 11:03

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-16

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/17/18 02:38	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/17/18 02:38	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/17/18 02:38	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/17/18 02:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 121		10/17/18 02:38	1
4-Bromofluorobenzene (Surr)	87		59 - 120		10/17/18 02:38	1
Toluene-d8 (Surr)	91		70 - 123		10/17/18 02:38	1
Dibromofluoromethane (Surr)	115		75 - 128		10/17/18 02:38	1

Client Sample ID: GW-100818-BE-034

Date Collected: 10/08/18 11:11

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-17

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/18/18 14:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/18/18 14:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/18/18 14:15	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/18/18 14:15	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/18/18 14:15	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/18/18 14:15	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/18/18 14:15	1
2-Hexanone	10	U	10	0.54	ug/L			10/18/18 14:15	1
Acetone	10	U	10	5.4	ug/L			10/18/18 14:15	1
Benzene	1.0	U	1.0	0.13	ug/L			10/18/18 14:15	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/18/18 14:15	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/18/18 14:15	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/18/18 14:15	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/18/18 14:15	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/18/18 14:15	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/18/18 14:15	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/18/18 14:15	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/18/18 14:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/18/18 14:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/18/18 14:15	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/18/18 14:15	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/18/18 14:15	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/18/18 14:15	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/18/18 14:15	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/18/18 14:15	1
Styrene	1.0	U	1.0	0.10	ug/L			10/18/18 14:15	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/18/18 14:15	1
Toluene	1.0	U	1.0	0.14	ug/L			10/18/18 14:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/18/18 14:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/18/18 14:15	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/18/18 14:15	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/18/18 14:15	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/18/18 14:15	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/18/18 14:15	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 121		10/18/18 14:15	1
4-Bromofluorobenzene (Surr)	83		59 - 120		10/18/18 14:15	1
Toluene-d8 (Surr)	96		70 - 123		10/18/18 14:15	1
Dibromofluoromethane (Surr)	113		75 - 128		10/18/18 14:15	1

Client Sample ID: GW-100818-BE-035

Date Collected: 10/08/18 12:09

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-18

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	500	U	500	120	ug/L			10/18/18 14:39	500
1,1,2,2-Tetrachloroethane	500	U	500	65	ug/L			10/18/18 14:39	500
1,1,2-Trichloroethane	500	U	500	45	ug/L			10/18/18 14:39	500
1,1-Dichloroethane	330	J	500	85	ug/L			10/18/18 14:39	500
1,1-Dichloroethene	500	U	500	95	ug/L			10/18/18 14:39	500
1,2-Dichloroethane	500	U	500	110	ug/L			10/18/18 14:39	500
1,2-Dichloropropane	500	U	500	75	ug/L			10/18/18 14:39	500
2-Hexanone	5000	U	5000	270	ug/L			10/18/18 14:39	500
Acetone	5000	U	5000	2700	ug/L			10/18/18 14:39	500
Benzene	500	U	500	65	ug/L			10/18/18 14:39	500
Bromoform	500	U	500	380	ug/L			10/18/18 14:39	500
Bromomethane	500	U	500	210	ug/L			10/18/18 14:39	500
Carbon disulfide	500	U	500	140	ug/L			10/18/18 14:39	500
Carbon tetrachloride	500	U	500	130	ug/L			10/18/18 14:39	500
Chlorobenzene	500	U	500	70	ug/L			10/18/18 14:39	500
Chloroethane	500	U	500	420	ug/L			10/18/18 14:39	500
Chloroform	500	U	500	65	ug/L			10/18/18 14:39	500
Chloromethane	500	U	500	100	ug/L			10/18/18 14:39	500
cis-1,2-Dichloroethene	8900		500	80	ug/L			10/18/18 14:39	500
cis-1,3-Dichloropropene	500	U	500	310	ug/L			10/18/18 14:39	500
Dichlorobromomethane	500	U	500	85	ug/L			10/18/18 14:39	500
Ethylbenzene	500	U	500	55	ug/L			10/18/18 14:39	500
2-Butanone (MEK)	5000	U	5000	580	ug/L			10/18/18 14:39	500
4-Methyl-2-pentanone (MIBK)	5000	U	5000	210	ug/L			10/18/18 14:39	500
Methylene Chloride	2500	U	2500	1300	ug/L			10/18/18 14:39	500
Styrene	500	U	500	50	ug/L			10/18/18 14:39	500
Tetrachloroethene	500	U	500	75	ug/L			10/18/18 14:39	500
Toluene	500	U	500	70	ug/L			10/18/18 14:39	500
trans-1,2-Dichloroethene	200	J	500	95	ug/L			10/18/18 14:39	500
trans-1,3-Dichloropropene	500	U	500	340	ug/L			10/18/18 14:39	500
Trichloroethene	1600		500	50	ug/L			10/18/18 14:39	500
Vinyl chloride	680		500	100	ug/L			10/18/18 14:39	500
Xylenes, Total	1000	U	1000	75	ug/L			10/18/18 14:39	500
Chlorodibromomethane	500	U	500	200	ug/L			10/18/18 14:39	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 121		10/18/18 14:39	500
4-Bromofluorobenzene (Surr)	85		59 - 120		10/18/18 14:39	500
Toluene-d8 (Surr)	99		70 - 123		10/18/18 14:39	500
Dibromofluoromethane (Surr)	115		75 - 128		10/18/18 14:39	500

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Client Sample ID: GW-100818-BE-036

Date Collected: 10/08/18 13:00

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-19

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	200	U	200	48	ug/L			10/18/18 15:03	200
1,1,2,2-Tetrachloroethane	200	U	200	26	ug/L			10/18/18 15:03	200
1,1,2-Trichloroethane	200	U	200	18	ug/L			10/18/18 15:03	200
1,1-Dichloroethane	97	J	200	34	ug/L			10/18/18 15:03	200
1,1-Dichloroethene	200	U	200	38	ug/L			10/18/18 15:03	200
1,2-Dichloroethane	200	U	200	42	ug/L			10/18/18 15:03	200
1,2-Dichloropropane	200	U	200	30	ug/L			10/18/18 15:03	200
2-Hexanone	2000	U	2000	110	ug/L			10/18/18 15:03	200
Acetone	2000	U	2000	1100	ug/L			10/18/18 15:03	200
Benzene	200	U	200	26	ug/L			10/18/18 15:03	200
Bromoform	200	U	200	150	ug/L			10/18/18 15:03	200
Bromomethane	200	U	200	84	ug/L			10/18/18 15:03	200
Carbon disulfide	200	U	200	56	ug/L			10/18/18 15:03	200
Carbon tetrachloride	200	U	200	52	ug/L			10/18/18 15:03	200
Chlorobenzene	200	U	200	28	ug/L			10/18/18 15:03	200
Chloroethane	200	U	200	170	ug/L			10/18/18 15:03	200
Chloroform	200	U	200	26	ug/L			10/18/18 15:03	200
Chloromethane	200	U	200	40	ug/L			10/18/18 15:03	200
cis-1,2-Dichloroethene	3000		200	32	ug/L			10/18/18 15:03	200
cis-1,3-Dichloropropene	200	U	200	120	ug/L			10/18/18 15:03	200
Dichlorobromomethane	200	U	200	34	ug/L			10/18/18 15:03	200
Ethylbenzene	200	U	200	22	ug/L			10/18/18 15:03	200
2-Butanone (MEK)	2000	U	2000	230	ug/L			10/18/18 15:03	200
4-Methyl-2-pentanone (MIBK)	2000	U	2000	84	ug/L			10/18/18 15:03	200
Methylene Chloride	1000	U	1000	520	ug/L			10/18/18 15:03	200
Styrene	200	U	200	20	ug/L			10/18/18 15:03	200
Tetrachloroethene	200	U	200	30	ug/L			10/18/18 15:03	200
Toluene	200	U	200	28	ug/L			10/18/18 15:03	200
trans-1,2-Dichloroethene	130	J	200	38	ug/L			10/18/18 15:03	200
trans-1,3-Dichloropropene	200	U	200	130	ug/L			10/18/18 15:03	200
Trichloroethene	200	U	200	20	ug/L			10/18/18 15:03	200
Vinyl chloride	64	J	200	40	ug/L			10/18/18 15:03	200
Xylenes, Total	400	U	400	30	ug/L			10/18/18 15:03	200
Chlorodibromomethane	200	U	200	78	ug/L			10/18/18 15:03	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 121		10/18/18 15:03	200
4-Bromofluorobenzene (Surr)	82		59 - 120		10/18/18 15:03	200
Toluene-d8 (Surr)	96		70 - 123		10/18/18 15:03	200
Dibromofluoromethane (Surr)	114		75 - 128		10/18/18 15:03	200

Client Sample ID: GW-100818-BE-037

Date Collected: 10/08/18 13:59

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-20

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/18/18 15:27	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/18/18 15:27	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/18/18 15:27	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/18/18 15:27	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/18/18 15:27	1

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Client Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Client Sample ID: GW-100818-BE-037

Date Collected: 10/08/18 13:59

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-20

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/18/18 15:27	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/18/18 15:27	1
2-Hexanone	10	U	10	0.54	ug/L			10/18/18 15:27	1
Acetone	10	U	10	5.4	ug/L			10/18/18 15:27	1
Benzene	1.0	U	1.0	0.13	ug/L			10/18/18 15:27	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/18/18 15:27	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/18/18 15:27	1
Carbon disulfide	0.43	J	1.0	0.28	ug/L			10/18/18 15:27	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/18/18 15:27	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/18/18 15:27	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/18/18 15:27	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/18/18 15:27	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/18/18 15:27	1
cis-1,2-Dichloroethene	8.2		1.0	0.16	ug/L			10/18/18 15:27	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/18/18 15:27	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/18/18 15:27	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/18/18 15:27	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/18/18 15:27	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/18/18 15:27	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/18/18 15:27	1
Styrene	1.0	U	1.0	0.10	ug/L			10/18/18 15:27	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/18/18 15:27	1
Toluene	1.0	U	1.0	0.14	ug/L			10/18/18 15:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/18/18 15:27	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/18/18 15:27	1
Trichloroethene	0.20	J	1.0	0.10	ug/L			10/18/18 15:27	1
Vinyl chloride	20		1.0	0.20	ug/L			10/19/18 22:47	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/18/18 15:27	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/18/18 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 121		10/18/18 15:27	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 121		10/19/18 22:47	1
4-Bromofluorobenzene (Surr)	81		59 - 120		10/18/18 15:27	1
4-Bromofluorobenzene (Surr)	76		59 - 120		10/19/18 22:47	1
Toluene-d8 (Surr)	94		70 - 123		10/18/18 15:27	1
Toluene-d8 (Surr)	91		70 - 123		10/19/18 22:47	1
Dibromofluoromethane (Surr)	111		75 - 128		10/18/18 15:27	1
Dibromofluoromethane (Surr)	116		75 - 128		10/19/18 22:47	1

Client Sample ID: GW-100818-BE-038

Date Collected: 10/08/18 15:20

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-21

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	500	U	500	120	ug/L			10/18/18 15:51	500
1,1,2,2-Tetrachloroethane	500	U	500	65	ug/L			10/18/18 15:51	500
1,1,2-Trichloroethane	500	U	500	45	ug/L			10/18/18 15:51	500
1,1-Dichloroethane	300	J	500	85	ug/L			10/18/18 15:51	500
1,1-Dichloroethene	500	U	500	95	ug/L			10/18/18 15:51	500
1,2-Dichloroethane	500	U	500	110	ug/L			10/18/18 15:51	500

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Client Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Client Sample ID: GW-100818-BE-038

Date Collected: 10/08/18 15:20

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-21

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	500	U	500	75	ug/L			10/18/18 15:51	500
2-Hexanone	5000	U	5000	270	ug/L			10/18/18 15:51	500
Acetone	5000	U	5000	2700	ug/L			10/18/18 15:51	500
Benzene	500	U	500	65	ug/L			10/18/18 15:51	500
Bromoform	500	U	500	380	ug/L			10/18/18 15:51	500
Bromomethane	500	U	500	210	ug/L			10/18/18 15:51	500
Carbon disulfide	500	U	500	140	ug/L			10/18/18 15:51	500
Carbon tetrachloride	500	U	500	130	ug/L			10/18/18 15:51	500
Chlorobenzene	500	U	500	70	ug/L			10/18/18 15:51	500
Chloroethane	500	U	500	420	ug/L			10/18/18 15:51	500
Chloroform	500	U	500	65	ug/L			10/18/18 15:51	500
Chloromethane	500	U	500	100	ug/L			10/18/18 15:51	500
cis-1,2-Dichloroethene	8000		500	80	ug/L			10/18/18 15:51	500
cis-1,3-Dichloropropene	500	U	500	310	ug/L			10/18/18 15:51	500
Dichlorobromomethane	500	U	500	85	ug/L			10/18/18 15:51	500
Ethylbenzene	500	U	500	55	ug/L			10/18/18 15:51	500
2-Butanone (MEK)	5000	U	5000	580	ug/L			10/18/18 15:51	500
4-Methyl-2-pentanone (MIBK)	5000	U	5000	210	ug/L			10/18/18 15:51	500
Methylene Chloride	2500	U	2500	1300	ug/L			10/18/18 15:51	500
Styrene	500	U	500	50	ug/L			10/18/18 15:51	500
Tetrachloroethene	500	U	500	75	ug/L			10/18/18 15:51	500
Toluene	500	U	500	70	ug/L			10/18/18 15:51	500
trans-1,2-Dichloroethene	280	J	500	95	ug/L			10/18/18 15:51	500
trans-1,3-Dichloropropene	500	U	500	340	ug/L			10/18/18 15:51	500
Trichloroethene	500	U	500	50	ug/L			10/18/18 15:51	500
Vinyl chloride	680		500	100	ug/L			10/18/18 15:51	500
Xylenes, Total	1000	U	1000	75	ug/L			10/18/18 15:51	500
Chlorodibromomethane	500	U	500	200	ug/L			10/18/18 15:51	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 121		10/18/18 15:51	500
4-Bromofluorobenzene (Surr)	79		59 - 120		10/18/18 15:51	500
Toluene-d8 (Surr)	93		70 - 123		10/18/18 15:51	500
Dibromofluoromethane (Surr)	114		75 - 128		10/18/18 15:51	500

Client Sample ID: EB-100818-AF-003

Date Collected: 10/08/18 15:30

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-22

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/18/18 16:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/18/18 16:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/18/18 16:15	1
1,1-Dichloroethane	0.63	J	1.0	0.17	ug/L			10/18/18 16:15	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/18/18 16:15	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/18/18 16:15	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/18/18 16:15	1
2-Hexanone	10	U	10	0.54	ug/L			10/18/18 16:15	1
Acetone	10	U	10	5.4	ug/L			10/18/18 16:15	1
Benzene	1.0	U	1.0	0.13	ug/L			10/18/18 16:15	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/18/18 16:15	1

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Client Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Client Sample ID: EB-100818-AF-003

Date Collected: 10/08/18 15:30

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-22

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	1.0	U	1.0	0.42	ug/L			10/18/18 16:15	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/18/18 16:15	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/18/18 16:15	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/18/18 16:15	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/18/18 16:15	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/18/18 16:15	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/18/18 16:15	1
cis-1,2-Dichloroethene	24		1.0	0.16	ug/L			10/18/18 16:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/18/18 16:15	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/18/18 16:15	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/18/18 16:15	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/18/18 16:15	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/18/18 16:15	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/18/18 16:15	1
Styrene	1.0	U	1.0	0.10	ug/L			10/18/18 16:15	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/18/18 16:15	1
Toluene	1.0	U	1.0	0.14	ug/L			10/18/18 16:15	1
trans-1,2-Dichloroethene	1.0		1.0	0.19	ug/L			10/18/18 16:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/18/18 16:15	1
Trichloroethene	0.39	J	1.0	0.10	ug/L			10/18/18 16:15	1
Vinyl chloride	0.47	J	1.0	0.20	ug/L			10/18/18 16:15	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/18/18 16:15	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/18/18 16:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 121		10/18/18 16:15	1
4-Bromofluorobenzene (Surr)	80		59 - 120		10/18/18 16:15	1
Toluene-d8 (Surr)	93		70 - 123		10/18/18 16:15	1
Dibromofluoromethane (Surr)	112		75 - 128		10/18/18 16:15	1

Client Sample ID: GW-100818-BE-039

Date Collected: 10/08/18 17:08

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-23

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.9		1.0	0.24	ug/L			10/18/18 16:39	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/18/18 16:39	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/18/18 16:39	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/18/18 16:39	1
1,1-Dichloroethene	0.23	J	1.0	0.19	ug/L			10/18/18 16:39	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/18/18 16:39	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/18/18 16:39	1
2-Hexanone	10	U	10	0.54	ug/L			10/18/18 16:39	1
Acetone	10	U	10	5.4	ug/L			10/18/18 16:39	1
Benzene	1.0	U	1.0	0.13	ug/L			10/18/18 16:39	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/18/18 16:39	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/18/18 16:39	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/18/18 16:39	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/18/18 16:39	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/18/18 16:39	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/18/18 16:39	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Client Sample ID: GW-100818-BE-039

Date Collected: 10/08/18 17:08

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-23

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	1.0	U	1.0	0.13	ug/L			10/18/18 16:39	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/18/18 16:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/18/18 16:39	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/18/18 16:39	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/18/18 16:39	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/18/18 16:39	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/18/18 16:39	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/18/18 16:39	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/18/18 16:39	1
Styrene	1.0	U	1.0	0.10	ug/L			10/18/18 16:39	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/18/18 16:39	1
Toluene	1.0	U	1.0	0.14	ug/L			10/18/18 16:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/18/18 16:39	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/18/18 16:39	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/18/18 16:39	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/18/18 16:39	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/18/18 16:39	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/18/18 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 121		10/18/18 16:39	1
4-Bromofluorobenzene (Surr)	79		59 - 120		10/18/18 16:39	1
Toluene-d8 (Surr)	93		70 - 123		10/18/18 16:39	1
Dibromofluoromethane (Surr)	114		75 - 128		10/18/18 16:39	1

Client Sample ID: TB-100818-AF-004

Date Collected: 10/08/18 17:30

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-24

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/18/18 17:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/18/18 17:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/18/18 17:03	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/18/18 17:03	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/18/18 17:03	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/18/18 17:03	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/18/18 17:03	1
2-Hexanone	10	U	10	0.54	ug/L			10/18/18 17:03	1
Acetone	10	U	10	5.4	ug/L			10/18/18 17:03	1
Benzene	1.0	U	1.0	0.13	ug/L			10/18/18 17:03	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/18/18 17:03	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/18/18 17:03	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/18/18 17:03	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/18/18 17:03	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/18/18 17:03	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/18/18 17:03	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/18/18 17:03	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/18/18 17:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/18/18 17:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/18/18 17:03	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/18/18 17:03	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Client Sample ID: TB-100818-AF-004

Date Collected: 10/08/18 17:30

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-24

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/18/18 17:03	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/18/18 17:03	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/18/18 17:03	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/18/18 17:03	1
Styrene	1.0	U	1.0	0.10	ug/L			10/18/18 17:03	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/18/18 17:03	1
Toluene	1.0	U	1.0	0.14	ug/L			10/18/18 17:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/18/18 17:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/18/18 17:03	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/18/18 17:03	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/18/18 17:03	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/18/18 17:03	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/18/18 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 121		10/18/18 17:03	1
4-Bromofluorobenzene (Surr)	80		59 - 120		10/18/18 17:03	1
Toluene-d8 (Surr)	94		70 - 123		10/18/18 17:03	1
Dibromofluoromethane (Surr)	114		75 - 128		10/18/18 17:03	1

Surrogate Summary

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

TestAmerica Job ID: 240-102503-2

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (70-121)	BFB (59-120)	TOL (70-123)	DBFM (75-128)
240-102503-1	GW-100418-BE-021	91	102	96	96
240-102503-2	GW-100418-AF-018	93	100	99	98
240-102503-3	GW-100418-BE-023	90	98	95	98
240-102503-4	GW-100418-BE-025	93	101	98	100
240-102503-5	EB-100418-AF-002	94	96	93	102
240-102503-6	GW-100418-AF-020	97	97	95	102
240-102503-7	GW-100418-BE-027	92	97	98	97
240-102503-8	GW-100418-AF-022	90	102	95	96
240-102503-9	GW-100418-BE-029	90	94	95	97
240-102503-10	GW-100418-AF-024	95	98	95	99
240-102503-11	GW-100418-AF-026	89	98	96	97
240-102503-11 MS	GW-100418-AF-026	94	107	101	99
240-102503-11 MSD	GW-100418-AF-026	98	106	100	99
240-102503-12	GW-100418-BE-031	94	98	95	99
240-102503-13	GW-100418-AF-028	98	88	93	110
240-102503-14	GW-100518-BE-033	99	88	92	110
240-102503-15	GW-100518-AF-030	100	86	92	113
240-102503-16	GW-100518-AF-032	102	87	91	115
240-102503-16 MS	GW-100518-AF-032	97	112	109	107
240-102503-16 MSD	GW-100518-AF-032	95	108	106	107
240-102503-17	GW-100818-BE-034	110	83	96	113
240-102503-18	GW-100818-BE-035	107	85	99	115
240-102503-18 MS	GW-100818-BE-035	94	95	101	99
240-102503-18 MSD	GW-100818-BE-035	96	98	101	100
240-102503-19	GW-100818-BE-036	108	82	96	114
240-102503-20	GW-100818-BE-037	107	81	94	111
240-102503-20	GW-100818-BE-037	108	76	91	116
240-102503-20 MS	GW-100818-BE-037	92	97	101	100
240-102503-20 MSD	GW-100818-BE-037	92	98	101	100
240-102503-21	GW-100818-BE-038	107	79	93	114
240-102503-22	EB-100818-AF-003	107	80	93	112
240-102503-23	GW-100818-BE-039	109	79	93	114
240-102503-24	TB-100818-AF-004	108	80	94	114
LCS 240-350292/4	Lab Control Sample	93	105	99	98
LCS 240-350348/4	Lab Control Sample	96	111	111	110
LCS 240-350524/4	Lab Control Sample	95	105	100	102
LCS 240-350754/4	Lab Control Sample	95	99	101	100
LCS 240-350986/4	Lab Control Sample	91	96	100	100
MB 240-350292/6	Method Blank	95	91	98	103
MB 240-350348/6	Method Blank	105	94	101	117
MB 240-350524/6	Method Blank	89	99	97	99
MB 240-350754/6	Method Blank	108	83	97	112
MB 240-350986/6	Method Blank	106	79	93	112

Surrogate Legend

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

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Lab Sample ID: MB 240-350292/6

Matrix: Water

Analysis Batch: 350292

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	0.24	ug/L			10/16/18 13:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/16/18 13:18	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/16/18 13:18	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/16/18 13:18	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/16/18 13:18	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/16/18 13:18	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/16/18 13:18	1
2-Hexanone	10	U	10	0.54	ug/L			10/16/18 13:18	1
Acetone	10	U	10	5.4	ug/L			10/16/18 13:18	1
Benzene	1.0	U	1.0	0.13	ug/L			10/16/18 13:18	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/16/18 13:18	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/16/18 13:18	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/16/18 13:18	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/16/18 13:18	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/16/18 13:18	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/16/18 13:18	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/16/18 13:18	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/16/18 13:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/16/18 13:18	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/16/18 13:18	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/16/18 13:18	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/16/18 13:18	1
2-Butanone (MEK)	1.28	J	10	1.2	ug/L			10/16/18 13:18	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/16/18 13:18	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/16/18 13:18	1
Styrene	1.0	U	1.0	0.10	ug/L			10/16/18 13:18	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/16/18 13:18	1
Toluene	1.0	U	1.0	0.14	ug/L			10/16/18 13:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/16/18 13:18	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/16/18 13:18	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/16/18 13:18	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/16/18 13:18	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/16/18 13:18	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/16/18 13:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 121		10/16/18 13:18	1
4-Bromofluorobenzene (Surr)	91		59 - 120		10/16/18 13:18	1
Toluene-d8 (Surr)	98		70 - 123		10/16/18 13:18	1
Dibromofluoromethane (Surr)	103		75 - 128		10/16/18 13:18	1

Lab Sample ID: LCS 240-350292/4

Matrix: Water

Analysis Batch: 350292

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	10.1		ug/L		101	69 - 134
1,1,2,2-Tetrachloroethane	10.0	9.23		ug/L		92	65 - 139

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Lab Sample ID: LCS 240-350292/4

Matrix: Water

Analysis Batch: 350292

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	10.1		ug/L		101	78 - 133
1,1-Dichloroethane	10.0	9.86		ug/L		99	75 - 133
1,1-Dichloroethene	10.0	9.74		ug/L		97	65 - 139
1,2-Dichloroethane	10.0	9.56		ug/L		96	71 - 135
1,2-Dichloropropane	10.0	10.0		ug/L		100	78 - 133
2-Hexanone	20.0	18.2		ug/L		91	43 - 148
Acetone	20.0	16.2		ug/L		81	21 - 162
Benzene	10.0	9.67		ug/L		97	80 - 123
Bromoform	10.0	10.1		ug/L		101	49 - 141
Bromomethane	10.0	9.03		ug/L		90	41 - 175
Carbon disulfide	10.0	9.52		ug/L		95	60 - 138
Carbon tetrachloride	10.0	10.3		ug/L		103	63 - 140
Chlorobenzene	10.0	9.90		ug/L		99	80 - 121
Chloroethane	10.0	9.40		ug/L		94	33 - 173
Chloroform	10.0	9.91		ug/L		99	79 - 127
Chloromethane	10.0	9.04		ug/L		90	54 - 143
cis-1,2-Dichloroethene	10.0	10.3		ug/L		103	76 - 128
cis-1,3-Dichloropropene	10.0	9.79		ug/L		98	64 - 132
Dichlorobromomethane	10.0	9.77		ug/L		98	77 - 125
Ethylbenzene	10.0	10.1		ug/L		101	80 - 120
m-Xylene & p-Xylene	10.0	10.1		ug/L		101	80 - 120
2-Butanone (MEK)	20.0	18.4		ug/L		92	39 - 163
4-Methyl-2-pentanone (MIBK)	20.0	17.8		ug/L		89	49 - 143
Methylene Chloride	10.0	9.41		ug/L		94	70 - 134
o-Xylene	10.0	9.82		ug/L		98	80 - 120
Styrene	10.0	9.73		ug/L		97	79 - 120
Tetrachloroethene	10.0	10.1		ug/L		101	74 - 130
Toluene	10.0	9.65		ug/L		96	78 - 129
trans-1,2-Dichloroethene	10.0	10.3		ug/L		103	78 - 133
trans-1,3-Dichloropropene	10.0	9.17		ug/L		92	55 - 128
Trichloroethene	10.0	9.79		ug/L		98	76 - 125
Vinyl chloride	10.0	9.12		ug/L		91	58 - 143
Xylenes, Total	20.0	19.9		ug/L		100	80 - 120
Chlorodibromomethane	10.0	10.1		ug/L		101	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 121
4-Bromofluorobenzene (Surr)	105		59 - 120
Toluene-d8 (Surr)	99		70 - 123
Dibromofluoromethane (Surr)	98		75 - 128

Lab Sample ID: MB 240-350348/6

Matrix: Water

Analysis Batch: 350348

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	0.24	ug/L			10/17/18 00:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/17/18 00:49	1

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Lab Sample ID: MB 240-350348/6

Matrix: Water

Analysis Batch: 350348

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	0.090	ug/L			10/17/18 00:49	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/17/18 00:49	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/17/18 00:49	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/17/18 00:49	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/17/18 00:49	1
2-Hexanone	10	U	10	0.54	ug/L			10/17/18 00:49	1
Acetone	10	U	10	5.4	ug/L			10/17/18 00:49	1
Benzene	1.0	U	1.0	0.13	ug/L			10/17/18 00:49	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/17/18 00:49	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/17/18 00:49	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/17/18 00:49	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/17/18 00:49	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/17/18 00:49	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/17/18 00:49	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/17/18 00:49	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/17/18 00:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/17/18 00:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/17/18 00:49	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/17/18 00:49	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/17/18 00:49	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/17/18 00:49	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/17/18 00:49	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/17/18 00:49	1
Styrene	1.0	U	1.0	0.10	ug/L			10/17/18 00:49	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/17/18 00:49	1
Toluene	1.0	U	1.0	0.14	ug/L			10/17/18 00:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/17/18 00:49	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/17/18 00:49	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/17/18 00:49	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/17/18 00:49	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/17/18 00:49	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/17/18 00:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 121		10/17/18 00:49	1
4-Bromofluorobenzene (Surr)	94		59 - 120		10/17/18 00:49	1
Toluene-d8 (Surr)	101		70 - 123		10/17/18 00:49	1
Dibromofluoromethane (Surr)	117		75 - 128		10/17/18 00:49	1

Lab Sample ID: LCS 240-350348/4

Matrix: Water

Analysis Batch: 350348

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	69 - 134
1,1,2,2-Tetrachloroethane	10.0	10.4		ug/L		104	65 - 139
1,1,2-Trichloroethane	10.0	11.2		ug/L		112	78 - 133
1,1-Dichloroethane	10.0	10.7		ug/L		107	75 - 133

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QC Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Lab Sample ID: LCS 240-350348/4

Matrix: Water

Analysis Batch: 350348

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	9.21		ug/L		92	65 - 139
1,2-Dichloroethane	10.0	9.53		ug/L		95	71 - 135
1,2-Dichloropropane	10.0	10.1		ug/L		101	78 - 133
2-Hexanone	20.0	18.1		ug/L		91	43 - 148
Acetone	20.0	18.0		ug/L		90	21 - 162
Benzene	10.0	10.5		ug/L		105	80 - 123
Bromoform	10.0	11.9		ug/L		119	49 - 141
Bromomethane	10.0	6.28		ug/L		63	41 - 175
Carbon disulfide	10.0	9.55		ug/L		95	60 - 138
Carbon tetrachloride	10.0	10.9		ug/L		109	63 - 140
Chlorobenzene	10.0	10.1		ug/L		101	80 - 121
Chloroethane	10.0	6.93		ug/L		69	33 - 173
Chloroform	10.0	10.8		ug/L		108	79 - 127
Chloromethane	10.0	11.0		ug/L		110	54 - 143
cis-1,2-Dichloroethene	10.0	10.6		ug/L		106	76 - 128
cis-1,3-Dichloropropene	10.0	8.67		ug/L		87	64 - 132
Dichlorobromomethane	10.0	10.1		ug/L		101	77 - 125
Ethylbenzene	10.0	9.44		ug/L		94	80 - 120
m-Xylene & p-Xylene	10.0	9.53		ug/L		95	80 - 120
2-Butanone (MEK)	20.0	17.4		ug/L		87	39 - 163
4-Methyl-2-pentanone (MIBK)	20.0	16.4		ug/L		82	49 - 143
Methylene Chloride	10.0	11.4		ug/L		114	70 - 134
o-Xylene	10.0	9.87		ug/L		99	80 - 120
Styrene	10.0	9.84		ug/L		98	79 - 120
Tetrachloroethene	10.0	10.2		ug/L		102	74 - 130
Toluene	10.0	10.4		ug/L		104	78 - 129
trans-1,2-Dichloroethene	10.0	10.9		ug/L		109	78 - 133
trans-1,3-Dichloropropene	10.0	8.85		ug/L		88	55 - 128
Trichloroethene	10.0	9.51		ug/L		95	76 - 125
Vinyl chloride	10.0	8.92		ug/L		89	58 - 143
Xylenes, Total	20.0	19.4		ug/L		97	80 - 120
Chlorodibromomethane	10.0	11.4		ug/L		114	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 121
4-Bromofluorobenzene (Surr)	111		59 - 120
Toluene-d8 (Surr)	111		70 - 123
Dibromofluoromethane (Surr)	110		75 - 128

Lab Sample ID: 240-102503-16 MS

Matrix: Water

Analysis Batch: 350348

Client Sample ID: GW-100518-AF-032

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	1.0	U	10.0	8.84		ug/L		88	51 - 138
1,1,2,2-Tetrachloroethane	1.0	U	10.0	9.30		ug/L		93	60 - 137
1,1,2-Trichloroethane	1.0	U	10.0	10.2		ug/L		102	76 - 132
1,1-Dichloroethane	1.0	U	10.0	9.45		ug/L		95	63 - 136

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QC Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Lab Sample ID: 240-102503-16 MS

Matrix: Water

Analysis Batch: 350348

Client Sample ID: GW-100518-AF-032

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	1.0	U	10.0	7.68		ug/L		77	53 - 140
1,2-Dichloroethane	1.0	U	10.0	8.71		ug/L		87	65 - 135
1,2-Dichloropropane	1.0	U	10.0	9.16		ug/L		92	70 - 132
2-Hexanone	10	U	20.0	16.9		ug/L		84	42 - 150
Acetone	10	U	20.0	18.4		ug/L		92	10 - 168
Benzene	1.0	U	10.0	9.19		ug/L		92	71 - 122
Bromoform	1.0	U	10.0	10.5		ug/L		105	44 - 129
Bromomethane	1.0	U	10.0	4.01		ug/L		40	19 - 187
Carbon disulfide	1.0	U	10.0	10.4		ug/L		104	43 - 144
Carbon tetrachloride	1.0	U	10.0	8.82		ug/L		88	41 - 143
Chlorobenzene	1.0	U	10.0	8.63		ug/L		86	70 - 123
Chloroethane	1.0	U	10.0	5.89		ug/L		59	11 - 189
Chloroform	1.0	U	10.0	9.53		ug/L		95	68 - 130
Chloromethane	1.0	U	10.0	4.56		ug/L		46	31 - 154
cis-1,2-Dichloroethene	1.0	U	10.0	9.44		ug/L		94	64 - 130
cis-1,3-Dichloropropene	1.0	U	10.0	6.63		ug/L		66	48 - 127
Dichlorobromomethane	1.0	U	10.0	9.00		ug/L		90	64 - 125
Ethylbenzene	1.0	U	10.0	7.70		ug/L		77	66 - 120
m-Xylene & p-Xylene	2.0	U	10.0	7.85		ug/L		78	63 - 121
2-Butanone (MEK)	10	U	20.0	15.5		ug/L		77	37 - 156
4-Methyl-2-pentanone (MIBK)	10	U	20.0	14.4		ug/L		72	44 - 143
Methylene Chloride	5.0	U	10.0	10.3		ug/L		103	61 - 130
o-Xylene	1.0	U	10.0	8.09		ug/L		81	69 - 120
Styrene	1.0	U	10.0	8.31		ug/L		83	68 - 120
Tetrachloroethene	1.0	U	10.0	9.65		ug/L		96	51 - 136
Toluene	1.0	U	10.0	8.83		ug/L		88	62 - 132
trans-1,2-Dichloroethene	1.0	U	10.0	9.34		ug/L		93	68 - 133
trans-1,3-Dichloropropene	1.0	U	10.0	7.13		ug/L		71	40 - 125
Trichloroethene	1.0	U	10.0	8.07		ug/L		81	55 - 131
Vinyl chloride	1.0	U	10.0	8.13		ug/L		81	43 - 154
Xylenes, Total	2.0	U	20.0	15.9		ug/L		80	67 - 120
Chlorodibromomethane	1.0	U	10.0	10.1		ug/L		101	60 - 129

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 121
4-Bromofluorobenzene (Surr)	112		59 - 120
Toluene-d8 (Surr)	109		70 - 123
Dibromofluoromethane (Surr)	107		75 - 128

Lab Sample ID: 240-102503-16 MSD

Matrix: Water

Analysis Batch: 350348

Client Sample ID: GW-100518-AF-032

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	1.0	U	10.0	8.75		ug/L		87	51 - 138	1	27
1,1,2,2-Tetrachloroethane	1.0	U	10.0	9.49		ug/L		95	60 - 137	2	31
1,1,2-Trichloroethane	1.0	U	10.0	10.2		ug/L		102	76 - 132	0	25
1,1-Dichloroethane	1.0	U	10.0	9.53		ug/L		95	63 - 136	1	23

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QC Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Lab Sample ID: 240-102503-16 MSD

Matrix: Water

Analysis Batch: 350348

Client Sample ID: GW-100518-AF-032

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-Dichloroethene	1.0	U	10.0	7.62		ug/L		76	53 - 140	1	35
1,2-Dichloroethane	1.0	U	10.0	8.81		ug/L		88	65 - 135	1	24
1,2-Dichloropropane	1.0	U	10.0	9.12		ug/L		91	70 - 132	0	26
2-Hexanone	10	U	20.0	15.6		ug/L		78	42 - 150	8	35
Acetone	10	U	20.0	20.4		ug/L		102	10 - 168	10	35
Benzene	1.0	U	10.0	9.07		ug/L		91	71 - 122	1	22
Bromoform	1.0	U	10.0	9.57		ug/L		96	44 - 129	10	28
Bromomethane	1.0	U	10.0	3.51		ug/L		35	19 - 187	13	35
Carbon disulfide	1.0	U	10.0	11.6		ug/L		116	43 - 144	11	33
Carbon tetrachloride	1.0	U	10.0	8.58		ug/L		86	41 - 143	3	30
Chlorobenzene	1.0	U	10.0	8.32		ug/L		83	70 - 123	4	23
Chloroethane	1.0	U	10.0	5.72		ug/L		57	11 - 189	3	35
Chloroform	1.0	U	10.0	9.54		ug/L		95	68 - 130	0	23
Chloromethane	1.0	U	10.0	3.39		ug/L		34	31 - 154	29	35
cis-1,2-Dichloroethene	1.0	U	10.0	9.47		ug/L		95	64 - 130	0	21
cis-1,3-Dichloropropene	1.0	U	10.0	6.44		ug/L		64	48 - 127	3	30
Dichlorobromomethane	1.0	U	10.0	8.92		ug/L		89	64 - 125	1	27
Ethylbenzene	1.0	U	10.0	7.28		ug/L		73	66 - 120	6	24
m-Xylene & p-Xylene	2.0	U	10.0	7.51		ug/L		75	63 - 121	4	25
2-Butanone (MEK)	10	U	20.0	16.0		ug/L		80	37 - 156	4	35
4-Methyl-2-pentanone (MIBK)	10	U	20.0	13.7		ug/L		69	44 - 143	5	35
Methylene Chloride	5.0	U	10.0	10.6		ug/L		106	61 - 130	2	29
o-Xylene	1.0	U	10.0	7.64		ug/L		76	69 - 120	6	25
Styrene	1.0	U	10.0	7.78		ug/L		78	68 - 120	7	26
Tetrachloroethene	1.0	U	10.0	8.43		ug/L		84	51 - 136	13	23
Toluene	1.0	U	10.0	8.49		ug/L		85	62 - 132	4	23
trans-1,2-Dichloroethene	1.0	U	10.0	9.28		ug/L		93	68 - 133	1	24
trans-1,3-Dichloropropene	1.0	U	10.0	6.81		ug/L		68	40 - 125	5	27
Trichloroethene	1.0	U	10.0	8.01		ug/L		80	55 - 131	1	23
Vinyl chloride	1.0	U	10.0	8.08		ug/L		81	43 - 154	1	29
Xylenes, Total	2.0	U	20.0	15.2		ug/L		76	67 - 120	5	25
Chlorodibromomethane	1.0	U	10.0	9.99		ug/L		100	60 - 129	1	26

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 121
4-Bromofluorobenzene (Surr)	108		59 - 120
Toluene-d8 (Surr)	106		70 - 123
Dibromofluoromethane (Surr)	107		75 - 128

Lab Sample ID: MB 240-350524/6

Matrix: Water

Analysis Batch: 350524

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	0.24	ug/L			10/17/18 13:53	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/17/18 13:53	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/17/18 13:53	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/17/18 13:53	1

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QC Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Lab Sample ID: MB 240-350524/6

Matrix: Water

Analysis Batch: 350524

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	0.19	ug/L			10/17/18 13:53	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/17/18 13:53	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/17/18 13:53	1
2-Hexanone	10	U	10	0.54	ug/L			10/17/18 13:53	1
Acetone	10	U	10	5.4	ug/L			10/17/18 13:53	1
Benzene	1.0	U	1.0	0.13	ug/L			10/17/18 13:53	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/17/18 13:53	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/17/18 13:53	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/17/18 13:53	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/17/18 13:53	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/17/18 13:53	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/17/18 13:53	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/17/18 13:53	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/17/18 13:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/17/18 13:53	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/17/18 13:53	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/17/18 13:53	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/17/18 13:53	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/17/18 13:53	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/17/18 13:53	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/17/18 13:53	1
Styrene	1.0	U	1.0	0.10	ug/L			10/17/18 13:53	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/17/18 13:53	1
Toluene	1.0	U	1.0	0.14	ug/L			10/17/18 13:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/17/18 13:53	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/17/18 13:53	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/17/18 13:53	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/17/18 13:53	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/17/18 13:53	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/17/18 13:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 121		10/17/18 13:53	1
4-Bromofluorobenzene (Surr)	99		59 - 120		10/17/18 13:53	1
Toluene-d8 (Surr)	97		70 - 123		10/17/18 13:53	1
Dibromofluoromethane (Surr)	99		75 - 128		10/17/18 13:53	1

Lab Sample ID: LCS 240-350524/4

Matrix: Water

Analysis Batch: 350524

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	9.56		ug/L		96	69 - 134
1,1,2,2-Tetrachloroethane	10.0	9.10		ug/L		91	65 - 139
1,1,2-Trichloroethane	10.0	9.83		ug/L		98	78 - 133
1,1-Dichloroethane	10.0	9.82		ug/L		98	75 - 133
1,1-Dichloroethene	10.0	9.58		ug/L		96	65 - 139
1,2-Dichloroethane	10.0	9.38		ug/L		94	71 - 135

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QC Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Lab Sample ID: LCS 240-350524/4

Matrix: Water

Analysis Batch: 350524

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	10.0	10.1		ug/L		101	78 - 133
2-Hexanone	20.0	17.9		ug/L		90	43 - 148
Acetone	20.0	17.8		ug/L		89	21 - 162
Benzene	10.0	9.65		ug/L		96	80 - 123
Bromoform	10.0	9.23		ug/L		92	49 - 141
Bromomethane	10.0	8.68		ug/L		87	41 - 175
Carbon disulfide	10.0	8.92		ug/L		89	60 - 138
Carbon tetrachloride	10.0	9.76		ug/L		98	63 - 140
Chlorobenzene	10.0	9.69		ug/L		97	80 - 121
Chloroethane	10.0	8.69		ug/L		87	33 - 173
Chloroform	10.0	10.2		ug/L		102	79 - 127
Chloromethane	10.0	10.9		ug/L		109	54 - 143
cis-1,2-Dichloroethene	10.0	10.4		ug/L		104	76 - 128
cis-1,3-Dichloropropene	10.0	9.90		ug/L		99	64 - 132
Dichlorobromomethane	10.0	9.55		ug/L		96	77 - 125
Ethylbenzene	10.0	9.72		ug/L		97	80 - 120
m-Xylene & p-Xylene	10.0	9.75		ug/L		98	80 - 120
2-Butanone (MEK)	20.0	19.9		ug/L		99	39 - 163
4-Methyl-2-pentanone (MIBK)	20.0	18.6		ug/L		93	49 - 143
Methylene Chloride	10.0	9.29		ug/L		93	70 - 134
o-Xylene	10.0	9.54		ug/L		95	80 - 120
Styrene	10.0	9.57		ug/L		96	79 - 120
Tetrachloroethene	10.0	10.2		ug/L		102	74 - 130
Toluene	10.0	9.77		ug/L		98	78 - 129
trans-1,2-Dichloroethene	10.0	10.2		ug/L		102	78 - 133
trans-1,3-Dichloropropene	10.0	9.13		ug/L		91	55 - 128
Trichloroethene	10.0	9.81		ug/L		98	76 - 125
Vinyl chloride	10.0	8.72		ug/L		87	58 - 143
Xylenes, Total	20.0	19.3		ug/L		96	80 - 120
Chlorodibromomethane	10.0	9.93		ug/L		99	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 121
4-Bromofluorobenzene (Surr)	105		59 - 120
Toluene-d8 (Surr)	100		70 - 123
Dibromofluoromethane (Surr)	102		75 - 128

Lab Sample ID: 240-102503-11 MS

Matrix: Water

Analysis Batch: 350524

Client Sample ID: GW-100418-AF-026

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	2000	2010		ug/L		100	51 - 138
1,1,2,2-Tetrachloroethane	200	U	2000	1880		ug/L		94	60 - 137
1,1,2-Trichloroethane	200	U	2000	2000		ug/L		100	76 - 132
1,1-Dichloroethane	200	U	2000	2070		ug/L		103	63 - 136
1,1-Dichloroethene	200	U	2000	2050		ug/L		102	53 - 140
1,2-Dichloroethane	200	U	2000	1940		ug/L		97	65 - 135

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QC Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Lab Sample ID: 240-102503-11 MS

Matrix: Water

Analysis Batch: 350524

Client Sample ID: GW-100418-AF-026

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	2000	2020		ug/L		101	70 - 132
2-Hexanone	2000	U	4000	3560		ug/L		89	42 - 150
Acetone	2000	U	4000	3390		ug/L		85	10 - 168
Benzene	200	U	2000	2020		ug/L		101	71 - 122
Bromoform	200	U	2000	1850		ug/L		92	44 - 129
Bromomethane	200	U	2000	1770		ug/L		88	19 - 187
Carbon disulfide	200	U	2000	1860		ug/L		93	43 - 144
Carbon tetrachloride	200	U	2000	2010		ug/L		100	41 - 143
Chlorobenzene	200	U	2000	2100		ug/L		105	70 - 123
Chloroethane	200	U	2000	1790		ug/L		89	11 - 189
Chloroform	200	U	2000	2120		ug/L		106	68 - 130
Chloromethane	200	U	2000	1720		ug/L		86	31 - 154
cis-1,2-Dichloroethene	3500		2000	5630		ug/L		109	64 - 130
cis-1,3-Dichloropropene	200	U	2000	1950		ug/L		97	48 - 127
Dichlorobromomethane	200	U	2000	1970		ug/L		98	64 - 125
Ethylbenzene	200	U	2000	2040		ug/L		102	66 - 120
m-Xylene & p-Xylene	400	U	2000	2070		ug/L		104	63 - 121
2-Butanone (MEK)	2000	U	4000	3730		ug/L		93	37 - 156
4-Methyl-2-pentanone (MIBK)	2000	U	4000	3500		ug/L		88	44 - 143
Methylene Chloride	1000	U	2000	1940		ug/L		97	61 - 130
o-Xylene	200	U	2000	2010		ug/L		100	69 - 120
Styrene	200	U	2000	2020		ug/L		101	68 - 120
Tetrachloroethene	200	U	2000	2020		ug/L		101	51 - 136
Toluene	200	U	2000	2040		ug/L		102	62 - 132
trans-1,2-Dichloroethene	150	J	2000	2310		ug/L		108	68 - 133
trans-1,3-Dichloropropene	200	U	2000	1840		ug/L		92	40 - 125
Trichloroethene	200	U	2000	2050		ug/L		102	55 - 131
Vinyl chloride	200	U	2000	1880		ug/L		94	43 - 154
Xylenes, Total	400	U	4000	4080		ug/L		102	67 - 120
Chlorodibromomethane	200	U	2000	2050		ug/L		102	60 - 129

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 121
4-Bromofluorobenzene (Surr)	107		59 - 120
Toluene-d8 (Surr)	101		70 - 123
Dibromofluoromethane (Surr)	99		75 - 128

Lab Sample ID: 240-102503-11 MSD

Matrix: Water

Analysis Batch: 350524

Client Sample ID: GW-100418-AF-026

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	2000	2010		ug/L		101	51 - 138	0	27
1,1,1,2-Tetrachloroethane	200	U	2000	1920		ug/L		96	60 - 137	2	31
1,1,2-Trichloroethane	200	U	2000	2030		ug/L		102	76 - 132	2	25
1,1-Dichloroethane	200	U	2000	2050		ug/L		103	63 - 136	1	23
1,1-Dichloroethene	200	U	2000	2040		ug/L		102	53 - 140	0	35
1,2-Dichloroethane	200	U	2000	1960		ug/L		98	65 - 135	1	24

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QC Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Lab Sample ID: 240-102503-11 MSD

Matrix: Water

Analysis Batch: 350524

Client Sample ID: GW-100418-AF-026

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	2000	2060		ug/L		103	70 - 132	2	26
2-Hexanone	2000	U	4000	3570		ug/L		89	42 - 150	0	35
Acetone	2000	U	4000	3380		ug/L		85	10 - 168	0	35
Benzene	200	U	2000	1990		ug/L		100	71 - 122	1	22
Bromoform	200	U	2000	1930		ug/L		96	44 - 129	4	28
Bromomethane	200	U	2000	1850		ug/L		92	19 - 187	4	35
Carbon disulfide	200	U	2000	1840		ug/L		92	43 - 144	1	33
Carbon tetrachloride	200	U	2000	2050		ug/L		103	41 - 143	2	30
Chlorobenzene	200	U	2000	2000		ug/L		100	70 - 123	5	23
Chloroethane	200	U	2000	1760		ug/L		88	11 - 189	2	35
Chloroform	200	U	2000	2120		ug/L		106	68 - 130	0	23
Chloromethane	200	U	2000	1660		ug/L		83	31 - 154	3	35
cis-1,2-Dichloroethene	3500		2000	5370		ug/L		96	64 - 130	5	21
cis-1,3-Dichloropropene	200	U	2000	1960		ug/L		98	48 - 127	1	30
Dichlorobromomethane	200	U	2000	1920		ug/L		96	64 - 125	3	27
Ethylbenzene	200	U	2000	2010		ug/L		100	66 - 120	2	24
m-Xylene & p-Xylene	400	U	2000	2010		ug/L		100	63 - 121	3	25
2-Butanone (MEK)	2000	U	4000	3420		ug/L		85	37 - 156	9	35
4-Methyl-2-pentanone (MIBK)	2000	U	4000	3610		ug/L		90	44 - 143	3	35
Methylene Chloride	1000	U	2000	1900		ug/L		95	61 - 130	2	29
o-Xylene	200	U	2000	2090		ug/L		104	69 - 120	4	25
Styrene	200	U	2000	2000		ug/L		100	68 - 120	1	26
Tetrachloroethene	200	U	2000	2110		ug/L		105	51 - 136	4	23
Toluene	200	U	2000	1960		ug/L		98	62 - 132	4	23
trans-1,2-Dichloroethene	150	J	2000	2200		ug/L		103	68 - 133	5	24
trans-1,3-Dichloropropene	200	U	2000	1800		ug/L		90	40 - 125	2	27
Trichloroethene	200	U	2000	2080		ug/L		104	55 - 131	2	23
Vinyl chloride	200	U	2000	1950		ug/L		97	43 - 154	3	29
Xylenes, Total	400	U	4000	4100		ug/L		103	67 - 120	0	25
Chlorodibromomethane	200	U	2000	2010		ug/L		100	60 - 129	2	26

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 121
4-Bromofluorobenzene (Surr)	106		59 - 120
Toluene-d8 (Surr)	100		70 - 123
Dibromofluoromethane (Surr)	99		75 - 128

Lab Sample ID: MB 240-350754/6

Matrix: Water

Analysis Batch: 350754

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	0.24	ug/L			10/18/18 13:28	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/18/18 13:28	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/18/18 13:28	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/18/18 13:28	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/18/18 13:28	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/18/18 13:28	1

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QC Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Lab Sample ID: MB 240-350754/6

Matrix: Water

Analysis Batch: 350754

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	0.15	ug/L			10/18/18 13:28	1
2-Hexanone	10	U	10	0.54	ug/L			10/18/18 13:28	1
Acetone	10	U	10	5.4	ug/L			10/18/18 13:28	1
Benzene	1.0	U	1.0	0.13	ug/L			10/18/18 13:28	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/18/18 13:28	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/18/18 13:28	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/18/18 13:28	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/18/18 13:28	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/18/18 13:28	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/18/18 13:28	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/18/18 13:28	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/18/18 13:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/18/18 13:28	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/18/18 13:28	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/18/18 13:28	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/18/18 13:28	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/18/18 13:28	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/18/18 13:28	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/18/18 13:28	1
Styrene	1.0	U	1.0	0.10	ug/L			10/18/18 13:28	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/18/18 13:28	1
Toluene	1.0	U	1.0	0.14	ug/L			10/18/18 13:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/18/18 13:28	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/18/18 13:28	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/18/18 13:28	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/18/18 13:28	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/18/18 13:28	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/18/18 13:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 121		10/18/18 13:28	1
4-Bromofluorobenzene (Surr)	83		59 - 120		10/18/18 13:28	1
Toluene-d8 (Surr)	97		70 - 123		10/18/18 13:28	1
Dibromofluoromethane (Surr)	112		75 - 128		10/18/18 13:28	1

Lab Sample ID: LCS 240-350754/4

Matrix: Water

Analysis Batch: 350754

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	9.74		ug/L		97	69 - 134
1,1,2,2-Tetrachloroethane	10.0	9.94		ug/L		99	65 - 139
1,1,2-Trichloroethane	10.0	10.7		ug/L		107	78 - 133
1,1-Dichloroethane	10.0	9.73		ug/L		97	75 - 133
1,1-Dichloroethene	10.0	10.0		ug/L		100	65 - 139
1,2-Dichloroethane	10.0	9.52		ug/L		95	71 - 135
1,2-Dichloropropane	10.0	10.1		ug/L		101	78 - 133
2-Hexanone	20.0	18.9		ug/L		94	43 - 148

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QC Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Lab Sample ID: LCS 240-350754/4

Matrix: Water

Analysis Batch: 350754

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	17.4		ug/L		87	21 - 162
Benzene	10.0	9.96		ug/L		100	80 - 123
Bromoform	10.0	7.89		ug/L		79	49 - 141
Bromomethane	10.0	9.08		ug/L		91	41 - 175
Carbon disulfide	10.0	8.75		ug/L		87	60 - 138
Carbon tetrachloride	10.0	10.3		ug/L		103	63 - 140
Chlorobenzene	10.0	10.2		ug/L		102	80 - 121
Chloroethane	10.0	8.29		ug/L		83	33 - 173
Chloroform	10.0	10.1		ug/L		101	79 - 127
Chloromethane	10.0	11.0		ug/L		110	54 - 143
cis-1,2-Dichloroethene	10.0	9.77		ug/L		98	76 - 128
cis-1,3-Dichloropropene	10.0	9.28		ug/L		93	64 - 132
Dichlorobromomethane	10.0	9.36		ug/L		94	77 - 125
Ethylbenzene	10.0	10.1		ug/L		101	80 - 120
m-Xylene & p-Xylene	10.0	10.3		ug/L		103	80 - 120
2-Butanone (MEK)	20.0	19.4		ug/L		97	39 - 163
4-Methyl-2-pentanone (MIBK)	20.0	19.0		ug/L		95	49 - 143
Methylene Chloride	10.0	10.3		ug/L		103	70 - 134
o-Xylene	10.0	9.99		ug/L		100	80 - 120
Styrene	10.0	10.3		ug/L		103	79 - 120
Tetrachloroethene	10.0	10.5		ug/L		105	74 - 130
Toluene	10.0	10.2		ug/L		102	78 - 129
trans-1,2-Dichloroethene	10.0	10.3		ug/L		103	78 - 133
trans-1,3-Dichloropropene	10.0	8.84		ug/L		88	55 - 128
Trichloroethene	10.0	9.98		ug/L		100	76 - 125
Vinyl chloride	10.0	10.9		ug/L		109	58 - 143
Xylenes, Total	20.0	20.3		ug/L		101	80 - 120
Chlorodibromomethane	10.0	9.13		ug/L		91	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 121
4-Bromofluorobenzene (Surr)	99		59 - 120
Toluene-d8 (Surr)	101		70 - 123
Dibromofluoromethane (Surr)	100		75 - 128

Lab Sample ID: 240-102503-18 MS

Matrix: Water

Analysis Batch: 350754

Client Sample ID: GW-100818-BE-035

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	500	U	5000	4680		ug/L		94	51 - 138
1,1,1,2-Tetrachloroethane	500	U	5000	5130		ug/L		103	60 - 137
1,1,2-Trichloroethane	500	U	5000	5670		ug/L		113	76 - 132
1,1-Dichloroethane	330	J	5000	5140		ug/L		96	63 - 136
1,1-Dichloroethene	500	U	5000	4780		ug/L		96	53 - 140
1,2-Dichloroethane	500	U	5000	4820		ug/L		96	65 - 135
1,2-Dichloropropane	500	U	5000	5020		ug/L		100	70 - 132
2-Hexanone	5000	U	10000	10700		ug/L		107	42 - 150

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QC Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Lab Sample ID: 240-102503-18 MS

Matrix: Water

Analysis Batch: 350754

Client Sample ID: GW-100818-BE-035

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	5000	U	10000	9920		ug/L		99	10 - 168
Benzene	500	U	5000	4830		ug/L		97	71 - 122
Bromoform	500	U	5000	3980		ug/L		80	44 - 129
Bromomethane	500	U	5000	4270		ug/L		85	19 - 187
Carbon disulfide	500	U	5000	4040		ug/L		81	43 - 144
Carbon tetrachloride	500	U	5000	4720		ug/L		94	41 - 143
Chlorobenzene	500	U	5000	5010		ug/L		100	70 - 123
Chloroethane	500	U	5000	3920		ug/L		78	11 - 189
Chloroform	500	U	5000	4980		ug/L		100	68 - 130
Chloromethane	500	U	5000	5870		ug/L		117	31 - 154
cis-1,2-Dichloroethene	8900		5000	12600		ug/L		73	64 - 130
cis-1,3-Dichloropropene	500	U	5000	4260		ug/L		85	48 - 127
Dichlorobromomethane	500	U	5000	4600		ug/L		92	64 - 125
Ethylbenzene	500	U	5000	4920		ug/L		98	66 - 120
m-Xylene & p-Xylene	1000	U	5000	5010		ug/L		100	63 - 121
2-Butanone (MEK)	5000	U	10000	10100		ug/L		101	37 - 156
4-Methyl-2-pentanone (MIBK)	5000	U	10000	10100		ug/L		101	44 - 143
Methylene Chloride	2500	U	5000	5260		ug/L		105	61 - 130
o-Xylene	500	U	5000	4880		ug/L		98	69 - 120
Styrene	500	U	5000	5000		ug/L		100	68 - 120
Tetrachloroethene	500	U	5000	5490		ug/L		110	51 - 136
Toluene	500	U	5000	5040		ug/L		101	62 - 132
trans-1,2-Dichloroethene	200	J	5000	5220		ug/L		100	68 - 133
trans-1,3-Dichloropropene	500	U	5000	4280		ug/L		86	40 - 125
Trichloroethene	1600		5000	6190		ug/L		92	55 - 131
Vinyl chloride	680		5000	5890		ug/L		104	43 - 154
Xylenes, Total	1000	U	10000	9890		ug/L		99	67 - 120
Chlorodibromomethane	500	U	5000	4630		ug/L		93	60 - 129

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 121
4-Bromofluorobenzene (Surr)	95		59 - 120
Toluene-d8 (Surr)	101		70 - 123
Dibromofluoromethane (Surr)	99		75 - 128

Lab Sample ID: 240-102503-18 MSD

Matrix: Water

Analysis Batch: 350754

Client Sample ID: GW-100818-BE-035

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	500	U	5000	4750		ug/L		95	51 - 138	1	27
1,1,2,2-Tetrachloroethane	500	U	5000	5000		ug/L		100	60 - 137	2	31
1,1,2-Trichloroethane	500	U	5000	5580		ug/L		112	76 - 132	2	25
1,1-Dichloroethane	330	J	5000	5230		ug/L		98	63 - 136	2	23
1,1-Dichloroethene	500	U	5000	5130		ug/L		103	53 - 140	7	35
1,2-Dichloroethane	500	U	5000	4850		ug/L		97	65 - 135	1	24
1,2-Dichloropropane	500	U	5000	4950		ug/L		99	70 - 132	1	26
2-Hexanone	5000	U	10000	10100		ug/L		101	42 - 150	5	35

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Lab Sample ID: 240-102503-18 MSD

Matrix: Water

Analysis Batch: 350754

Client Sample ID: GW-100818-BE-035

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	5000	U	10000	8810		ug/L		88	10 - 168	12	35
Benzene	500	U	5000	4940		ug/L		99	71 - 122	2	22
Bromoform	500	U	5000	3880		ug/L		78	44 - 129	3	28
Bromomethane	500	U	5000	4690		ug/L		94	19 - 187	9	35
Carbon disulfide	500	U	5000	4290		ug/L		86	43 - 144	6	33
Carbon tetrachloride	500	U	5000	4850		ug/L		97	41 - 143	3	30
Chlorobenzene	500	U	5000	5090		ug/L		102	70 - 123	1	23
Chloroethane	500	U	5000	4120		ug/L		82	11 - 189	5	35
Chloroform	500	U	5000	4960		ug/L		99	68 - 130	0	23
Chloromethane	500	U	5000	6050		ug/L		121	31 - 154	3	35
cis-1,2-Dichloroethene	8900		5000	13400		ug/L		90	64 - 130	7	21
cis-1,3-Dichloropropene	500	U	5000	4410		ug/L		88	48 - 127	4	30
Dichlorobromomethane	500	U	5000	4640		ug/L		93	64 - 125	1	27
Ethylbenzene	500	U	5000	4900		ug/L		98	66 - 120	0	24
m-Xylene & p-Xylene	1000	U	5000	5000		ug/L		100	63 - 121	0	25
2-Butanone (MEK)	5000	U	10000	10300		ug/L		103	37 - 156	1	35
4-Methyl-2-pentanone (MIBK)	5000	U	10000	9770		ug/L		98	44 - 143	3	35
Methylene Chloride	2500	U	5000	5240		ug/L		105	61 - 130	0	29
o-Xylene	500	U	5000	4860		ug/L		97	69 - 120	0	25
Styrene	500	U	5000	5040		ug/L		101	68 - 120	1	26
Tetrachloroethene	500	U	5000	5350		ug/L		107	51 - 136	2	23
Toluene	500	U	5000	5070		ug/L		101	62 - 132	1	23
trans-1,2-Dichloroethene	200	J	5000	5260		ug/L		101	68 - 133	1	24
trans-1,3-Dichloropropene	500	U	5000	4320		ug/L		86	40 - 125	1	27
Trichloroethene	1600		5000	6260		ug/L		94	55 - 131	1	23
Vinyl chloride	680		5000	6320		ug/L		113	43 - 154	7	29
Xylenes, Total	1000	U	10000	9860		ug/L		99	67 - 120	0	25
Chlorodibromomethane	500	U	5000	4600		ug/L		92	60 - 129	1	26

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 121
4-Bromofluorobenzene (Surr)	98		59 - 120
Toluene-d8 (Surr)	101		70 - 123
Dibromofluoromethane (Surr)	100		75 - 128

Lab Sample ID: MB 240-350986/6

Matrix: Water

Analysis Batch: 350986

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	0.24	ug/L			10/19/18 14:03	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/19/18 14:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/19/18 14:03	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/19/18 14:03	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/19/18 14:03	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/19/18 14:03	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/19/18 14:03	1
2-Hexanone	10	U	10	0.54	ug/L			10/19/18 14:03	1

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Lab Sample ID: MB 240-350986/6

Matrix: Water

Analysis Batch: 350986

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	5.4	ug/L			10/19/18 14:03	1
Benzene	1.0	U	1.0	0.13	ug/L			10/19/18 14:03	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/19/18 14:03	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/19/18 14:03	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/19/18 14:03	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/19/18 14:03	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/19/18 14:03	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/19/18 14:03	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/19/18 14:03	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/19/18 14:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/19/18 14:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/19/18 14:03	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/19/18 14:03	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/19/18 14:03	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/19/18 14:03	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/19/18 14:03	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/19/18 14:03	1
Styrene	1.0	U	1.0	0.10	ug/L			10/19/18 14:03	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/19/18 14:03	1
Toluene	1.0	U	1.0	0.14	ug/L			10/19/18 14:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/19/18 14:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/19/18 14:03	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/19/18 14:03	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/19/18 14:03	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/19/18 14:03	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/19/18 14:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 121		10/19/18 14:03	1
4-Bromofluorobenzene (Surr)	79		59 - 120		10/19/18 14:03	1
Toluene-d8 (Surr)	93		70 - 123		10/19/18 14:03	1
Dibromofluoromethane (Surr)	112		75 - 128		10/19/18 14:03	1

Lab Sample ID: LCS 240-350986/4

Matrix: Water

Analysis Batch: 350986

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	9.57		ug/L		96	69 - 134
1,1,2,2-Tetrachloroethane	10.0	9.68		ug/L		97	65 - 139
1,1,2-Trichloroethane	10.0	10.7		ug/L		107	78 - 133
1,1-Dichloroethane	10.0	9.72		ug/L		97	75 - 133
1,1-Dichloroethene	10.0	10.2		ug/L		102	65 - 139
1,2-Dichloroethane	10.0	9.57		ug/L		96	71 - 135
1,2-Dichloropropane	10.0	9.96		ug/L		100	78 - 133
2-Hexanone	20.0	17.4		ug/L		87	43 - 148
Acetone	20.0	17.1		ug/L		86	21 - 162
Benzene	10.0	9.95		ug/L		100	80 - 123

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Lab Sample ID: LCS 240-350986/4

Matrix: Water

Analysis Batch: 350986

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	10.0	7.71		ug/L		77	49 - 141
Bromomethane	10.0	9.43		ug/L		94	41 - 175
Carbon disulfide	10.0	8.82		ug/L		88	60 - 138
Carbon tetrachloride	10.0	10.3		ug/L		103	63 - 140
Chlorobenzene	10.0	10.3		ug/L		103	80 - 121
Chloroethane	10.0	8.43		ug/L		84	33 - 173
Chloroform	10.0	10.1		ug/L		101	79 - 127
Chloromethane	10.0	11.5		ug/L		115	54 - 143
cis-1,2-Dichloroethene	10.0	9.93		ug/L		99	76 - 128
cis-1,3-Dichloropropene	10.0	9.21		ug/L		92	64 - 132
Dichlorobromomethane	10.0	9.16		ug/L		92	77 - 125
Ethylbenzene	10.0	10.1		ug/L		101	80 - 120
m-Xylene & p-Xylene	10.0	10.3		ug/L		103	80 - 120
2-Butanone (MEK)	20.0	18.5		ug/L		93	39 - 163
4-Methyl-2-pentanone (MIBK)	20.0	17.4		ug/L		87	49 - 143
Methylene Chloride	10.0	10.5		ug/L		105	70 - 134
o-Xylene	10.0	10.2		ug/L		102	80 - 120
Styrene	10.0	10.3		ug/L		103	79 - 120
Tetrachloroethene	10.0	10.5		ug/L		105	74 - 130
Toluene	10.0	10.3		ug/L		103	78 - 129
trans-1,2-Dichloroethene	10.0	10.5		ug/L		105	78 - 133
trans-1,3-Dichloropropene	10.0	8.77		ug/L		88	55 - 128
Trichloroethene	10.0	10.0		ug/L		100	76 - 125
Vinyl chloride	10.0	11.4		ug/L		114	58 - 143
Xylenes, Total	20.0	20.5		ug/L		103	80 - 120
Chlorodibromomethane	10.0	9.03		ug/L		90	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 121
4-Bromofluorobenzene (Surr)	96		59 - 120
Toluene-d8 (Surr)	100		70 - 123
Dibromofluoromethane (Surr)	100		75 - 128

Lab Sample ID: 240-102503-20 MS

Matrix: Water

Analysis Batch: 350986

Client Sample ID: GW-100818-BE-037

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	20		10.0	29.7		ug/L		98	43 - 154

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		70 - 121
4-Bromofluorobenzene (Surr)	97		59 - 120
Toluene-d8 (Surr)	101		70 - 123
Dibromofluoromethane (Surr)	100		75 - 128

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QC Sample Results

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

TestAmerica Job ID: 240-102503-2

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

Lab Sample ID: 240-102503-20 MSD

Matrix: Water

Analysis Batch: 350986

Client Sample ID: GW-100818-BE-037

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl chloride	20		10.0	30.1		ug/L		103	43 - 154	2	29

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		70 - 121
4-Bromofluorobenzene (Surr)	98		59 - 120
Toluene-d8 (Surr)	101		70 - 123
Dibromofluoromethane (Surr)	100		75 - 128

QC Association Summary

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

TestAmerica Job ID: 240-102503-2

GC/MS VOA

Analysis Batch: 350292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102503-1	GW-100418-BE-021	Total/NA	Water	8260B	
240-102503-2	GW-100418-AF-018	Total/NA	Water	8260B	
240-102503-3	GW-100418-BE-023	Total/NA	Water	8260B	
240-102503-4	GW-100418-BE-025	Total/NA	Water	8260B	
240-102503-5	EB-100418-AF-002	Total/NA	Water	8260B	
240-102503-6	GW-100418-AF-020	Total/NA	Water	8260B	
MB 240-350292/6	Method Blank	Total/NA	Water	8260B	
LCS 240-350292/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 350348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102503-13	GW-100418-AF-028	Total/NA	Water	8260B	
240-102503-14	GW-100518-BE-033	Total/NA	Water	8260B	
240-102503-15	GW-100518-AF-030	Total/NA	Water	8260B	
240-102503-16	GW-100518-AF-032	Total/NA	Water	8260B	
MB 240-350348/6	Method Blank	Total/NA	Water	8260B	
LCS 240-350348/4	Lab Control Sample	Total/NA	Water	8260B	
240-102503-16 MS	GW-100518-AF-032	Total/NA	Water	8260B	
240-102503-16 MSD	GW-100518-AF-032	Total/NA	Water	8260B	

Analysis Batch: 350524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102503-7	GW-100418-BE-027	Total/NA	Water	8260B	
240-102503-8	GW-100418-AF-022	Total/NA	Water	8260B	
240-102503-9	GW-100418-BE-029	Total/NA	Water	8260B	
240-102503-10	GW-100418-AF-024	Total/NA	Water	8260B	
240-102503-11	GW-100418-AF-026	Total/NA	Water	8260B	
240-102503-12	GW-100418-BE-031	Total/NA	Water	8260B	
MB 240-350524/6	Method Blank	Total/NA	Water	8260B	
LCS 240-350524/4	Lab Control Sample	Total/NA	Water	8260B	
240-102503-11 MS	GW-100418-AF-026	Total/NA	Water	8260B	
240-102503-11 MSD	GW-100418-AF-026	Total/NA	Water	8260B	

Analysis Batch: 350754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102503-17	GW-100818-BE-034	Total/NA	Water	8260B	
240-102503-18	GW-100818-BE-035	Total/NA	Water	8260B	
240-102503-19	GW-100818-BE-036	Total/NA	Water	8260B	
240-102503-20	GW-100818-BE-037	Total/NA	Water	8260B	
240-102503-21	GW-100818-BE-038	Total/NA	Water	8260B	
240-102503-22	EB-100818-AF-003	Total/NA	Water	8260B	
240-102503-23	GW-100818-BE-039	Total/NA	Water	8260B	
240-102503-24	TB-100818-AF-004	Total/NA	Water	8260B	
MB 240-350754/6	Method Blank	Total/NA	Water	8260B	
LCS 240-350754/4	Lab Control Sample	Total/NA	Water	8260B	
240-102503-18 MS	GW-100818-BE-035	Total/NA	Water	8260B	
240-102503-18 MSD	GW-100818-BE-035	Total/NA	Water	8260B	

Analysis Batch: 350986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102503-20	GW-100818-BE-037	Total/NA	Water	8260B	

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QC Association Summary

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

TestAmerica Job ID: 240-102503-2

GC/MS VOA (Continued)

Analysis Batch: 350986 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-350986/6	Method Blank	Total/NA	Water	8260B	
LCS 240-350986/4	Lab Control Sample	Total/NA	Water	8260B	
240-102503-20 MS	GW-100818-BE-037	Total/NA	Water	8260B	
240-102503-20 MSD	GW-100818-BE-037	Total/NA	Water	8260B	

Lab Chronicle

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

TestAmerica Job ID: 240-102503-2

Client Sample ID: GW-100418-BE-021

Date Collected: 10/04/18 10:33

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	350292	10/16/18 19:30	LRW	TAL CAN

Client Sample ID: GW-100418-AF-018

Date Collected: 10/04/18 11:03

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	350292	10/16/18 19:55	LRW	TAL CAN

Client Sample ID: GW-100418-BE-023

Date Collected: 10/04/18 10:38

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	350292	10/16/18 21:21	LRW	TAL CAN

Client Sample ID: GW-100418-BE-025

Date Collected: 10/04/18 11:22

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	350292	10/16/18 21:46	LRW	TAL CAN

Client Sample ID: EB-100418-AF-002

Date Collected: 10/04/18 11:17

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	350292	10/16/18 22:11	LRW	TAL CAN

Client Sample ID: GW-100418-AF-020

Date Collected: 10/04/18 12:10

Date Received: 10/09/18 09:40

Lab Sample ID: 240-102503-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		66.67	350292	10/16/18 22:36	LRW	TAL CAN

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Lab Chronicle

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

TestAmerica Job ID: 240-102503-2

Client Sample ID: GW-100418-BE-027

Lab Sample ID: 240-102503-7

Date Collected: 10/04/18 12:18

Matrix: Water

Date Received: 10/09/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	350524	10/17/18 15:57	LRW	TAL CAN

Client Sample ID: GW-100418-AF-022

Lab Sample ID: 240-102503-8

Date Collected: 10/04/18 12:13

Matrix: Water

Date Received: 10/09/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		66.67	350524	10/17/18 14:18	LRW	TAL CAN

Client Sample ID: GW-100418-BE-029

Lab Sample ID: 240-102503-9

Date Collected: 10/04/18 14:22

Matrix: Water

Date Received: 10/09/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	350524	10/17/18 14:43	LRW	TAL CAN

Client Sample ID: GW-100418-AF-024

Lab Sample ID: 240-102503-10

Date Collected: 10/04/18 14:03

Matrix: Water

Date Received: 10/09/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		333.33	350524	10/17/18 15:08	LRW	TAL CAN

Client Sample ID: GW-100418-AF-026

Lab Sample ID: 240-102503-11

Date Collected: 10/04/18 14:44

Matrix: Water

Date Received: 10/09/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	350524	10/17/18 16:22	LRW	TAL CAN

Client Sample ID: GW-100418-BE-031

Lab Sample ID: 240-102503-12

Date Collected: 10/04/18 15:37

Matrix: Water

Date Received: 10/09/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	350524	10/17/18 15:33	LRW	TAL CAN

TestAmerica Canton

Lab Chronicle

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

TestAmerica Job ID: 240-102503-2

Client Sample ID: GW-100418-AF-028

Lab Sample ID: 240-102503-13

Date Collected: 10/04/18 16:00

Matrix: Water

Date Received: 10/09/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	350348	10/17/18 01:32	LEE	TAL CAN

Client Sample ID: GW-100518-BE-033

Lab Sample ID: 240-102503-14

Date Collected: 10/05/18 09:31

Matrix: Water

Date Received: 10/09/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	350348	10/17/18 01:54	LEE	TAL CAN

Client Sample ID: GW-100518-AF-030

Lab Sample ID: 240-102503-15

Date Collected: 10/05/18 09:31

Matrix: Water

Date Received: 10/09/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	350348	10/17/18 02:16	LEE	TAL CAN

Client Sample ID: GW-100518-AF-032

Lab Sample ID: 240-102503-16

Date Collected: 10/05/18 11:03

Matrix: Water

Date Received: 10/09/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	350348	10/17/18 02:38	LEE	TAL CAN

Client Sample ID: GW-100818-BE-034

Lab Sample ID: 240-102503-17

Date Collected: 10/08/18 11:11

Matrix: Water

Date Received: 10/09/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	350754	10/18/18 14:15	LRW	TAL CAN

Client Sample ID: GW-100818-BE-035

Lab Sample ID: 240-102503-18

Date Collected: 10/08/18 12:09

Matrix: Water

Date Received: 10/09/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		500	350754	10/18/18 14:39	LRW	TAL CAN

TestAmerica Canton

Lab Chronicle

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

TestAmerica Job ID: 240-102503-2

Client Sample ID: GW-100818-BE-036

Lab Sample ID: 240-102503-19

Date Collected: 10/08/18 13:00

Matrix: Water

Date Received: 10/09/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	350754	10/18/18 15:03	LRW	TAL CAN

Client Sample ID: GW-100818-BE-037

Lab Sample ID: 240-102503-20

Date Collected: 10/08/18 13:59

Matrix: Water

Date Received: 10/09/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	350754	10/18/18 15:27	LRW	TAL CAN
Total/NA	Analysis	8260B		1	350986	10/19/18 22:47	LRW	TAL CAN

Client Sample ID: GW-100818-BE-038

Lab Sample ID: 240-102503-21

Date Collected: 10/08/18 15:20

Matrix: Water

Date Received: 10/09/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		500	350754	10/18/18 15:51	LRW	TAL CAN

Client Sample ID: EB-100818-AF-003

Lab Sample ID: 240-102503-22

Date Collected: 10/08/18 15:30

Matrix: Water

Date Received: 10/09/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	350754	10/18/18 16:15	LRW	TAL CAN

Client Sample ID: GW-100818-BE-039

Lab Sample ID: 240-102503-23

Date Collected: 10/08/18 17:08

Matrix: Water

Date Received: 10/09/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	350754	10/18/18 16:39	LRW	TAL CAN

Client Sample ID: TB-100818-AF-004

Lab Sample ID: 240-102503-24

Date Collected: 10/08/18 17:30

Matrix: Water

Date Received: 10/09/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	350754	10/18/18 17:03	LRW	TAL CAN

Laboratory References:

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

TestAmerica Canton

Accreditation/Certification Summary

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

TestAmerica Job ID: 240-102503-2

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	02-23-19
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-19
Illinois	NELAP	5	200004	07-31-19
Kansas	NELAP	7	E-10336	01-31-19
Kentucky (UST)	State Program	4	58	02-23-19
Kentucky (WW)	State Program	4	98016	12-31-18 *
Minnesota	NELAP	5	039-999-348	12-31-18 *
Minnesota (Petrofund)	State Program	1	3506	07-31-19
Nevada	State Program	9	OH00048	07-31-19
New Jersey	NELAP	2	OH001	06-30-19
New York	NELAP	2	10975	03-31-19
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-19
Pennsylvania	NELAP	3	68-00340	08-31-19 *
Texas	NELAP	6	T104704517-17-9	08-31-19
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-19
Washington	State Program	10	C971	01-12-19
West Virginia DEP	State Program	3	210	12-31-18 *

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

TestAmerica Canton



CONESTOGA-ROVERS
& ASSOCIATES

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO: IN-14344
PAGE 1 OF 2
(See Reverse Side for Instructions)

1.8/2.7 0.4/1.3

Project No/Phase/Task Code: 017302-T07		Laboratory Name: Test America		Lab Location: North Campus, OH		SSOW ID: 17302-T07	
Project Name: MLK - Anderson, IN GW Sampling		Lab Contact: D. Hecker		Lab Quote No:		Cooler No: 1072	
Project Location: Anderson, IN		Container Quantity & Preservation		Analysis Requested (See Back of COC for Definitions)		Carrier: FedEx	
Chemistry Contact: D. Andraghio		Sample Type		Unpreserved		Airbill No:	
Sampler(s): A. Johnson, B. Finckel		Matrix Code		Grab (G) or Comp (C)		Date Shipped: 10/08/18	
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)		DATE (mm/dd/yyyy)		TIME (hh:mm)		COMMENTS/SPECIAL INSTRUCTIONS:	
1	GW-100418-BE-021	10/04/18	1033	WG	G		
2	GW-100418-AF-018		1103				
3	GW-100418-BE-023		1038				
4	GW-100418-BE-025		1122				
5	EB-100418-AF-002		1117	EB			
6	GW-100418-AF-020		1210	WG			
7	GW-100418-BE-027		1218				
8	GW-100418-AF-022		1213				
9	GW-100418-BE-029		1422				
10	GW-100418-BE-024		1403				
1	GW-100418-AF-026		1444				
2	GW-100418-BE-031		1537				
3	GW-100418-AF-028		1600				
4	GW-100518-BE-023	10/05/18	0931				
5	GW-100518-AF-030		0931				
TAT Required in business days (use separate COCs for different TATs):		RELINQUISHED BY: [Signature]		DATE: 10/08/18		TIME: 1800	
☐ 1 Day ☐ 2 Days ☐ 3 Days ☒ 2 Week ☐ Other:		COMPANY: GHS		RECEIVED BY: [Signature]		DATE: 10/08/18	
1. [Signature]		TIME: 1800		COMPANY: TAC		DATE: 10/08/18	
2.						TIME: 940	
3.							
Notes/Special Requirements: 126 Bottles placed in Cooler							
Total Number of Containers: 51							
All Samples in Cooler must be on COC							

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE - Fully Executed Copy (GRA)

YELLOW - Receiving Laboratory Copy

PINK - Shipper

GOLDENROD - Sampling Crew

GRA Form: COC-10A (20110804)

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



**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: **IN-14347**
PAGE **2** OF **2**
(See Reverse Side for Instructions)

Project No/Phase/Task Code: 017302-T07		Laboratory Name: Test America		Lab Location: Norfolk County, OH		SSOW ID: 17302-T07	
Project Name: Wilk - Anderson, IN GW Sampling		Lab Contact: D. Hecker		Lab Quote No:		Cooler No: 172	
Project Location: Anderson, IN		CONTAINER QUANTITY & PRESERVATION		ANALYSIS REQUESTED (See Back of COC for Definitions)		Carrier: Fedex	
Chemistry Contact: D. Ambrosio		SAMPLE TYPE		Total Containers/Sample		Airbill No:	
Sampler(s): A. Feldman, B. Enrich		Matrix Code		Other:		Date Shipped: 10/08/18	
Item		DATE (mm/dd/yy)		TIME (hh:mm)		COMMENTS/SPECIAL INSTRUCTIONS:	
1 GW-100518-AF-032		100518		1103		X	
2 GW-100818-BE-034		100818		1111			
3 GW-100818-BE-035				1209			
4 GW-100818-BE-036				1300			
5 GW-100818-BE-037				1359			
6 GW-100818-BE-038				1520			
7 EB-100818-AF-003				1530 EB			
8 GW-100818-BE-039				1708 WG			
9 TB-100818-AF-004				1730 TB			
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**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278

Phone: (317) 291-7007

Fax: (317) 328-2666

COC NO: **IN-14348**

PAGE **1** OF **1**

(See Reverse Side for Instructions)

Project No/Phase/Task Code: 017302-T07		Laboratory Name: Test America		Lab Location: North Canton, OH		SSOW ID: 17302-T07	
Project Name: MLK - Anderson, IN GW Sampling		Lab Contact: D. Hechler		Lab Quote No:		Cooler No: 252	
Project Location: Anderson, IN		CONTAINER QUANTITY & PRESERVATION		ANALYSIS REQUESTED (See Back of COC for Definitions)			
Chemistry Contact: D. Ambrosio		SAMPLE TYPE					
Sampler(s): A. Feldman, B. Everts		Matrix Code					
		(see back of COC)					
		Grab (g) or Comp (c)		Unpreserved			
				Hydrochloric Acid (HCl)			
				Nitric Acid (HNO ₃)			
				Sulfuric Acid (H ₂ SO ₄)			
				Sodium Hydroxide (NaOH)			
				Methanol/Water (Soil)			
				VOC			
				Encores 3x5-g, 1x25-g			
				Other: in Acid			
				Total Containers/Sample			
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)		DATE (mm/dd/yy)		TIME (hh:mm)			
1	GW-100818-BE-034	100818	1111	WG	G	2	Calc-Sulfide
2	GW-100818-BE-035	100818	1209			2	Calc-Sulfide
3	GW-100818-BE-036		1300			2	Calc-Sulfide
4	GW-100818-BE-037		1359			2	Calc-Sulfide
5	GW-100818-BE-038		1520			2	Calc-Sulfide
6	GW-100818-BE-039		1708			2	Calc-Sulfide
7							
8							
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14							
TAT Required in business days (use separate COCs for different TATs):		DATE		COMPANY		RECEIVED BY	
☐ 1 Day ☐ 2 Days ☐ 3 Days ☒ 2 Week ☐ Other:		100818		GAD		1. per	
						2.	
						3.	
Total Number of Containers: 30		Notes/ Special Requirements:		COMPANY		DATE	
All Samples in Cooler must be on COC		TIME		TAC		10-9-18	
						TIME	
						940	

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 102503

Client CRA Site Name —

Cooler unpacked by:

Cooler Received on 10-9-18 Opened on 10-9-18

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 # TA 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 +0.9 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C
 IR GUN #36 (CF +0.6 °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 12-16 have been checked at the originating laboratory.

12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC849161

13. Were VOAs on the COC? Yes No

14. Were air bubbles >6 mm in any VOA vials?  Larger than this. Yes No NA

15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # COVERED Yes No

16. 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 _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

Pop

18. 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)

19. SAMPLE PRESERVATION

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

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

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container pH</u>	<u>Preservative Added (mls)</u>	<u>Lot #</u>
GW-100818-BE-034	240-102503-N-17	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100818-BE-034	240-102503-P-17	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100818-BE-034	240-102503-Q-17	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100818-BE-035	240-102503-N-18	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100818-BE-035	240-102503-P-18	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100818-BE-035	240-102503-Q-18	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100818-BE-036	240-102503-N-19	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100818-BE-036	240-102503-P-19	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100818-BE-036	240-102503-Q-19	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100818-BE-037	240-102503-N-20	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100818-BE-037	240-102503-P-20	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100818-BE-037	240-102503-Q-20	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100818-BE-038	240-102503-N-21	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100818-BE-038	240-102503-P-21	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100818-BE-038	240-102503-Q-21	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-100818-BE-039	240-102503-N-23	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-100818-BE-039	240-102503-P-23	Plastic 500ml - with Zn Acetate and	>9	_____	_____
GW-100818-BE-039	240-102503-Q-23	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-102783-1

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:

10/25/2018 5:35:52 PM

Leslie Howell, Project Manager I

(330)966-9266

leslie.howell@testamericainc.com

Designee for

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com

LINKS

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results through

TotalAccess

Have a Question?



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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-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-102783-1

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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

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

TestAmerica Job ID: 240-102783-1

Job ID: 240-102783-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-102783-1

Comments

No additional comments.

Receipt

The samples were received on 10/12/2018 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.7° 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: 240-102783-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
5030B	Purge and Trap	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: 240-102783-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-102783-1	GW-100918-BE-040	Water	10/09/18 10:10	10/12/18 09:30
240-102783-2	SW-100918-BE-001	Water	10/09/18 10:40	10/12/18 09:30
240-102783-3	SW-100918-BE-002	Water	10/09/18 10:50	10/12/18 09:30
240-102783-4	SW-100918-BE-003	Water	10/09/18 10:55	10/12/18 09:30
240-102783-5	GW-100918-BE-041	Water	10/09/18 12:22	10/12/18 09:30
240-102783-6	GW-100918-BE-042	Water	10/09/18 12:25	10/12/18 09:30
240-102783-7	EB-100918-BE-004	Water	10/09/18 14:15	10/12/18 09:30
240-102783-8	TB-100918-BE-005	Water	10/09/18 15:07	10/12/18 09:30

Detection Summary

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

TestAmerica Job ID: 240-102783-1

Client Sample ID: GW-100918-BE-040

Lab Sample ID: 240-102783-1

No Detections.

Client Sample ID: SW-100918-BE-001

Lab Sample ID: 240-102783-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	5.1		5.0	0.85	ug/L	5		8260B	Total/NA
cis-1,2-Dichloroethene	100		5.0	0.80	ug/L	5		8260B	Total/NA
trans-1,2-Dichloroethene	2.5	J	5.0	0.95	ug/L	5		8260B	Total/NA
Vinyl chloride	5.0		5.0	1.0	ug/L	5		8260B	Total/NA

Client Sample ID: SW-100918-BE-002

Lab Sample ID: 240-102783-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	6.2	J	6.7	1.1	ug/L	6.67		8260B	Total/NA
cis-1,2-Dichloroethene	130		6.7	1.1	ug/L	6.67		8260B	Total/NA
trans-1,2-Dichloroethene	3.3	J	6.7	1.3	ug/L	6.67		8260B	Total/NA
Vinyl chloride	5.9	J	6.7	1.3	ug/L	6.67		8260B	Total/NA

Client Sample ID: SW-100918-BE-003

Lab Sample ID: 240-102783-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	6.6	J	6.7	1.1	ug/L	6.67		8260B	Total/NA
cis-1,2-Dichloroethene	130		6.7	1.1	ug/L	6.67		8260B	Total/NA
trans-1,2-Dichloroethene	3.7	J	6.7	1.3	ug/L	6.67		8260B	Total/NA
Vinyl chloride	6.4	J	6.7	1.3	ug/L	6.67		8260B	Total/NA

Client Sample ID: GW-100918-BE-041

Lab Sample ID: 240-102783-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.18	J	1.0	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: GW-100918-BE-042

Lab Sample ID: 240-102783-6

No Detections.

Client Sample ID: EB-100918-BE-004

Lab Sample ID: 240-102783-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.63	J	1.0	0.28	ug/L	1		8260B	Total/NA

Client Sample ID: TB-100918-BE-005

Lab Sample ID: 240-102783-8

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102783-1

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

Client Sample ID: GW-100918-BE-040

Date Collected: 10/09/18 10:10

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/22/18 12:40	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/22/18 12:40	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/22/18 12:40	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/22/18 12:40	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/22/18 12:40	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/22/18 12:40	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/22/18 12:40	1
2-Hexanone	10	U	10	0.54	ug/L			10/22/18 12:40	1
Acetone	10	U	10	5.4	ug/L			10/22/18 12:40	1
Benzene	1.0	U	1.0	0.13	ug/L			10/22/18 12:40	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/22/18 12:40	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/22/18 12:40	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/22/18 12:40	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/22/18 12:40	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/22/18 12:40	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/22/18 12:40	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/22/18 12:40	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/22/18 12:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/22/18 12:40	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/22/18 12:40	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/22/18 12:40	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/22/18 12:40	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/22/18 12:40	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/22/18 12:40	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/22/18 12:40	1
Styrene	1.0	U	1.0	0.10	ug/L			10/22/18 12:40	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/22/18 12:40	1
Toluene	1.0	U	1.0	0.14	ug/L			10/22/18 12:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/22/18 12:40	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/22/18 12:40	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/22/18 12:40	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/22/18 12:40	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/22/18 12:40	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/22/18 12:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 121		10/22/18 12:40	1
4-Bromofluorobenzene (Surr)	90		59 - 120		10/22/18 12:40	1
Toluene-d8 (Surr)	92		70 - 123		10/22/18 12:40	1
Dibromofluoromethane (Surr)	116		75 - 128		10/22/18 12:40	1

Client Sample ID: SW-100918-BE-001

Date Collected: 10/09/18 10:40

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	1.2	ug/L			10/22/18 13:02	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.65	ug/L			10/22/18 13:02	5
1,1,2-Trichloroethane	5.0	U	5.0	0.45	ug/L			10/22/18 13:02	5
1,1-Dichloroethane	5.1		5.0	0.85	ug/L			10/22/18 13:02	5
1,1-Dichloroethene	5.0	U	5.0	0.95	ug/L			10/22/18 13:02	5

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102783-1

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

Client Sample ID: SW-100918-BE-001

Date Collected: 10/09/18 10:40

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	5.0	U	5.0	1.1	ug/L			10/22/18 13:02	5
1,2-Dichloropropane	5.0	U	5.0	0.75	ug/L			10/22/18 13:02	5
2-Hexanone	50	U	50	2.7	ug/L			10/22/18 13:02	5
Acetone	50	U	50	27	ug/L			10/22/18 13:02	5
Benzene	5.0	U	5.0	0.65	ug/L			10/22/18 13:02	5
Bromoform	5.0	U	5.0	3.8	ug/L			10/22/18 13:02	5
Bromomethane	5.0	U	5.0	2.1	ug/L			10/22/18 13:02	5
Carbon disulfide	5.0	U	5.0	1.4	ug/L			10/22/18 13:02	5
Carbon tetrachloride	5.0	U	5.0	1.3	ug/L			10/22/18 13:02	5
Chlorobenzene	5.0	U	5.0	0.70	ug/L			10/22/18 13:02	5
Chloroethane	5.0	U	5.0	4.2	ug/L			10/22/18 13:02	5
Chloroform	5.0	U	5.0	0.65	ug/L			10/22/18 13:02	5
Chloromethane	5.0	U	5.0	1.0	ug/L			10/22/18 13:02	5
cis-1,2-Dichloroethene	100		5.0	0.80	ug/L			10/22/18 13:02	5
cis-1,3-Dichloropropene	5.0	U	5.0	3.1	ug/L			10/22/18 13:02	5
Dichlorobromomethane	5.0	U	5.0	0.85	ug/L			10/22/18 13:02	5
Ethylbenzene	5.0	U	5.0	0.55	ug/L			10/22/18 13:02	5
2-Butanone (MEK)	50	U	50	5.8	ug/L			10/22/18 13:02	5
4-Methyl-2-pentanone (MIBK)	50	U	50	2.1	ug/L			10/22/18 13:02	5
Methylene Chloride	25	U	25	13	ug/L			10/22/18 13:02	5
Styrene	5.0	U	5.0	0.50	ug/L			10/22/18 13:02	5
Tetrachloroethene	5.0	U	5.0	0.75	ug/L			10/22/18 13:02	5
Toluene	5.0	U	5.0	0.70	ug/L			10/22/18 13:02	5
trans-1,2-Dichloroethene	2.5	J	5.0	0.95	ug/L			10/22/18 13:02	5
trans-1,3-Dichloropropene	5.0	U	5.0	3.4	ug/L			10/22/18 13:02	5
Trichloroethene	5.0	U	5.0	0.50	ug/L			10/22/18 13:02	5
Vinyl chloride	5.0		5.0	1.0	ug/L			10/22/18 13:02	5
Xylenes, Total	10	U	10	0.75	ug/L			10/22/18 13:02	5
Chlorodibromomethane	5.0	U	5.0	2.0	ug/L			10/22/18 13:02	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 121					10/22/18 13:02	5
4-Bromofluorobenzene (Surr)	84		59 - 120					10/22/18 13:02	5
Toluene-d8 (Surr)	92		70 - 123					10/22/18 13:02	5
Dibromofluoromethane (Surr)	115		75 - 128					10/22/18 13:02	5

Client Sample ID: SW-100918-BE-002

Date Collected: 10/09/18 10:50

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	6.7	U	6.7	1.6	ug/L			10/22/18 13:25	6.67
1,1,1,2-Tetrachloroethane	6.7	U	6.7	0.87	ug/L			10/22/18 13:25	6.67
1,1,2-Trichloroethane	6.7	U	6.7	0.60	ug/L			10/22/18 13:25	6.67
1,1-Dichloroethane	6.2	J	6.7	1.1	ug/L			10/22/18 13:25	6.67
1,1-Dichloroethene	6.7	U	6.7	1.3	ug/L			10/22/18 13:25	6.67
1,2-Dichloroethane	6.7	U	6.7	1.4	ug/L			10/22/18 13:25	6.67
1,2-Dichloropropane	6.7	U	6.7	1.0	ug/L			10/22/18 13:25	6.67
2-Hexanone	67	U	67	3.6	ug/L			10/22/18 13:25	6.67
Acetone	67	U	67	36	ug/L			10/22/18 13:25	6.67
Benzene	6.7	U	6.7	0.87	ug/L			10/22/18 13:25	6.67

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102783-1

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

Client Sample ID: SW-100918-BE-002

Date Collected: 10/09/18 10:50

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	6.7	U	6.7	5.1	ug/L			10/22/18 13:25	6.67
Bromomethane	6.7	U	6.7	2.8	ug/L			10/22/18 13:25	6.67
Carbon disulfide	6.7	U	6.7	1.9	ug/L			10/22/18 13:25	6.67
Carbon tetrachloride	6.7	U	6.7	1.7	ug/L			10/22/18 13:25	6.67
Chlorobenzene	6.7	U	6.7	0.93	ug/L			10/22/18 13:25	6.67
Chloroethane	6.7	U	6.7	5.5	ug/L			10/22/18 13:25	6.67
Chloroform	6.7	U	6.7	0.87	ug/L			10/22/18 13:25	6.67
Chloromethane	6.7	U	6.7	1.3	ug/L			10/22/18 13:25	6.67
cis-1,2-Dichloroethene	130		6.7	1.1	ug/L			10/22/18 13:25	6.67
cis-1,3-Dichloropropene	6.7	U	6.7	4.1	ug/L			10/22/18 13:25	6.67
Dichlorobromomethane	6.7	U	6.7	1.1	ug/L			10/22/18 13:25	6.67
Ethylbenzene	6.7	U	6.7	0.73	ug/L			10/22/18 13:25	6.67
2-Butanone (MEK)	67	U	67	7.7	ug/L			10/22/18 13:25	6.67
4-Methyl-2-pentanone (MIBK)	67	U	67	2.8	ug/L			10/22/18 13:25	6.67
Methylene Chloride	33	U	33	17	ug/L			10/22/18 13:25	6.67
Styrene	6.7	U	6.7	0.67	ug/L			10/22/18 13:25	6.67
Tetrachloroethene	6.7	U	6.7	1.0	ug/L			10/22/18 13:25	6.67
Toluene	6.7	U	6.7	0.93	ug/L			10/22/18 13:25	6.67
trans-1,2-Dichloroethene	3.3	J	6.7	1.3	ug/L			10/22/18 13:25	6.67
trans-1,3-Dichloropropene	6.7	U	6.7	4.5	ug/L			10/22/18 13:25	6.67
Trichloroethene	6.7	U	6.7	0.67	ug/L			10/22/18 13:25	6.67
Vinyl chloride	5.9	J	6.7	1.3	ug/L			10/22/18 13:25	6.67
Xylenes, Total	13	U	13	1.0	ug/L			10/22/18 13:25	6.67
Chlorodibromomethane	6.7	U	6.7	2.6	ug/L			10/22/18 13:25	6.67

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 121		10/22/18 13:25	6.67
4-Bromofluorobenzene (Surr)	90		59 - 120		10/22/18 13:25	6.67
Toluene-d8 (Surr)	90		70 - 123		10/22/18 13:25	6.67
Dibromofluoromethane (Surr)	118		75 - 128		10/22/18 13:25	6.67

Client Sample ID: SW-100918-BE-003

Date Collected: 10/09/18 10:55

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	6.7	U	6.7	1.6	ug/L			10/22/18 13:47	6.67
1,1,1,2-Tetrachloroethane	6.7	U	6.7	0.87	ug/L			10/22/18 13:47	6.67
1,1,2-Trichloroethane	6.7	U	6.7	0.60	ug/L			10/22/18 13:47	6.67
1,1-Dichloroethane	6.6	J	6.7	1.1	ug/L			10/22/18 13:47	6.67
1,1-Dichloroethene	6.7	U	6.7	1.3	ug/L			10/22/18 13:47	6.67
1,2-Dichloroethane	6.7	U	6.7	1.4	ug/L			10/22/18 13:47	6.67
1,2-Dichloropropane	6.7	U	6.7	1.0	ug/L			10/22/18 13:47	6.67
2-Hexanone	67	U	67	3.6	ug/L			10/22/18 13:47	6.67
Acetone	67	U	67	36	ug/L			10/22/18 13:47	6.67
Benzene	6.7	U	6.7	0.87	ug/L			10/22/18 13:47	6.67
Bromoform	6.7	U	6.7	5.1	ug/L			10/22/18 13:47	6.67
Bromomethane	6.7	U	6.7	2.8	ug/L			10/22/18 13:47	6.67
Carbon disulfide	6.7	U	6.7	1.9	ug/L			10/22/18 13:47	6.67
Carbon tetrachloride	6.7	U	6.7	1.7	ug/L			10/22/18 13:47	6.67
Chlorobenzene	6.7	U	6.7	0.93	ug/L			10/22/18 13:47	6.67

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102783-1

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

Client Sample ID: SW-100918-BE-003

Date Collected: 10/09/18 10:55

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	6.7	U	6.7	5.5	ug/L			10/22/18 13:47	6.67
Chloroform	6.7	U	6.7	0.87	ug/L			10/22/18 13:47	6.67
Chloromethane	6.7	U	6.7	1.3	ug/L			10/22/18 13:47	6.67
cis-1,2-Dichloroethene	130		6.7	1.1	ug/L			10/22/18 13:47	6.67
cis-1,3-Dichloropropene	6.7	U	6.7	4.1	ug/L			10/22/18 13:47	6.67
Dichlorobromomethane	6.7	U	6.7	1.1	ug/L			10/22/18 13:47	6.67
Ethylbenzene	6.7	U	6.7	0.73	ug/L			10/22/18 13:47	6.67
2-Butanone (MEK)	67	U	67	7.7	ug/L			10/22/18 13:47	6.67
4-Methyl-2-pentanone (MIBK)	67	U	67	2.8	ug/L			10/22/18 13:47	6.67
Methylene Chloride	33	U	33	17	ug/L			10/22/18 13:47	6.67
Styrene	6.7	U	6.7	0.67	ug/L			10/22/18 13:47	6.67
Tetrachloroethene	6.7	U	6.7	1.0	ug/L			10/22/18 13:47	6.67
Toluene	6.7	U	6.7	0.93	ug/L			10/22/18 13:47	6.67
trans-1,2-Dichloroethene	3.7	J	6.7	1.3	ug/L			10/22/18 13:47	6.67
trans-1,3-Dichloropropene	6.7	U	6.7	4.5	ug/L			10/22/18 13:47	6.67
Trichloroethene	6.7	U	6.7	0.67	ug/L			10/22/18 13:47	6.67
Vinyl chloride	6.4	J	6.7	1.3	ug/L			10/22/18 13:47	6.67
Xylenes, Total	13	U	13	1.0	ug/L			10/22/18 13:47	6.67
Chlorodibromomethane	6.7	U	6.7	2.6	ug/L			10/22/18 13:47	6.67

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 121		10/22/18 13:47	6.67
4-Bromofluorobenzene (Surr)	91		59 - 120		10/22/18 13:47	6.67
Toluene-d8 (Surr)	93		70 - 123		10/22/18 13:47	6.67
Dibromofluoromethane (Surr)	117		75 - 128		10/22/18 13:47	6.67

Client Sample ID: GW-100918-BE-041

Date Collected: 10/09/18 12:22

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/22/18 14:08	1
1,1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/22/18 14:08	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/22/18 14:08	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/22/18 14:08	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/22/18 14:08	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/22/18 14:08	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/22/18 14:08	1
2-Hexanone	10	U	10	0.54	ug/L			10/22/18 14:08	1
Acetone	10	U	10	5.4	ug/L			10/22/18 14:08	1
Benzene	1.0	U	1.0	0.13	ug/L			10/22/18 14:08	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/22/18 14:08	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/22/18 14:08	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/22/18 14:08	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/22/18 14:08	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/22/18 14:08	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/22/18 14:08	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/22/18 14:08	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/22/18 14:08	1
cis-1,2-Dichloroethene	0.18	J	1.0	0.16	ug/L			10/22/18 14:08	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/22/18 14:08	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102783-1

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

Client Sample ID: GW-100918-BE-041

Date Collected: 10/09/18 12:22

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/22/18 14:08	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/22/18 14:08	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/22/18 14:08	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/22/18 14:08	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/22/18 14:08	1
Styrene	1.0	U	1.0	0.10	ug/L			10/22/18 14:08	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/22/18 14:08	1
Toluene	1.0	U	1.0	0.14	ug/L			10/22/18 14:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/22/18 14:08	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/22/18 14:08	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/22/18 14:08	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/22/18 14:08	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/22/18 14:08	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/22/18 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		70 - 121		10/22/18 14:08	1
4-Bromofluorobenzene (Surr)	95		59 - 120		10/22/18 14:08	1
Toluene-d8 (Surr)	98		70 - 123		10/22/18 14:08	1
Dibromofluoromethane (Surr)	127		75 - 128		10/22/18 14:08	1

Client Sample ID: GW-100918-BE-042

Date Collected: 10/09/18 12:25

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/22/18 14:30	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/22/18 14:30	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/22/18 14:30	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/22/18 14:30	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/22/18 14:30	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/22/18 14:30	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/22/18 14:30	1
2-Hexanone	10	U	10	0.54	ug/L			10/22/18 14:30	1
Acetone	10	U	10	5.4	ug/L			10/22/18 14:30	1
Benzene	1.0	U	1.0	0.13	ug/L			10/22/18 14:30	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/22/18 14:30	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/22/18 14:30	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/22/18 14:30	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/22/18 14:30	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/22/18 14:30	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/22/18 14:30	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/22/18 14:30	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/22/18 14:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/22/18 14:30	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/22/18 14:30	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/22/18 14:30	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/22/18 14:30	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/22/18 14:30	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/22/18 14:30	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/22/18 14:30	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102783-1

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

Client Sample ID: GW-100918-BE-042

Date Collected: 10/09/18 12:25

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.0	U	1.0	0.10	ug/L			10/22/18 14:30	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/22/18 14:30	1
Toluene	1.0	U	1.0	0.14	ug/L			10/22/18 14:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/22/18 14:30	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/22/18 14:30	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/22/18 14:30	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/22/18 14:30	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/22/18 14:30	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/22/18 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 121		10/22/18 14:30	1
4-Bromofluorobenzene (Surr)	87		59 - 120		10/22/18 14:30	1
Toluene-d8 (Surr)	95		70 - 123		10/22/18 14:30	1
Dibromofluoromethane (Surr)	124		75 - 128		10/22/18 14:30	1

Client Sample ID: EB-100918-BE-004

Date Collected: 10/09/18 14:15

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/22/18 14:52	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/22/18 14:52	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/22/18 14:52	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/22/18 14:52	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/22/18 14:52	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/22/18 14:52	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/22/18 14:52	1
2-Hexanone	10	U	10	0.54	ug/L			10/22/18 14:52	1
Acetone	10	U	10	5.4	ug/L			10/22/18 14:52	1
Benzene	1.0	U	1.0	0.13	ug/L			10/22/18 14:52	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/22/18 14:52	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/22/18 14:52	1
Carbon disulfide	0.63	J	1.0	0.28	ug/L			10/22/18 14:52	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/22/18 14:52	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/22/18 14:52	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/22/18 14:52	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/22/18 14:52	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/22/18 14:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/22/18 14:52	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/22/18 14:52	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/22/18 14:52	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/22/18 14:52	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/22/18 14:52	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/22/18 14:52	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/22/18 14:52	1
Styrene	1.0	U	1.0	0.10	ug/L			10/22/18 14:52	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/22/18 14:52	1
Toluene	1.0	U	1.0	0.14	ug/L			10/22/18 14:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/22/18 14:52	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/22/18 14:52	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102783-1

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

Client Sample ID: EB-100918-BE-004

Date Collected: 10/09/18 14:15

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/22/18 14:52	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/22/18 14:52	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/22/18 14:52	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/22/18 14:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 121					10/22/18 14:52	1
4-Bromofluorobenzene (Surr)	86		59 - 120					10/22/18 14:52	1
Toluene-d8 (Surr)	92		70 - 123					10/22/18 14:52	1
Dibromofluoromethane (Surr)	121		75 - 128					10/22/18 14:52	1

Client Sample ID: TB-100918-BE-005

Date Collected: 10/09/18 15:07

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/22/18 15:14	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/22/18 15:14	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/22/18 15:14	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/22/18 15:14	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/22/18 15:14	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/22/18 15:14	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/22/18 15:14	1
2-Hexanone	10	U	10	0.54	ug/L			10/22/18 15:14	1
Acetone	10	U	10	5.4	ug/L			10/22/18 15:14	1
Benzene	1.0	U	1.0	0.13	ug/L			10/22/18 15:14	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/22/18 15:14	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/22/18 15:14	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/22/18 15:14	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/22/18 15:14	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/22/18 15:14	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/22/18 15:14	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/22/18 15:14	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/22/18 15:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/22/18 15:14	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/22/18 15:14	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/22/18 15:14	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/22/18 15:14	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/22/18 15:14	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/22/18 15:14	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/22/18 15:14	1
Styrene	1.0	U	1.0	0.10	ug/L			10/22/18 15:14	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/22/18 15:14	1
Toluene	1.0	U	1.0	0.14	ug/L			10/22/18 15:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/22/18 15:14	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/22/18 15:14	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/22/18 15:14	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/22/18 15:14	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/22/18 15:14	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/22/18 15:14	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102783-1

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	106		70 - 121		10/22/18 15:14	1
4-Bromofluorobenzene (Surr)	88		59 - 120		10/22/18 15:14	1
Toluene-d8 (Surr)	92		70 - 123		10/22/18 15:14	1
Dibromofluoromethane (Surr)	120		75 - 128		10/22/18 15:14	1

Surrogate Summary

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

TestAmerica Job ID: 240-102783-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	TOL	DBFM
		(70-121)	(59-120)	(70-123)	(75-128)
240-102783-1	GW-100918-BE-040	102	90	92	116
240-102783-2	SW-100918-BE-001	101	84	92	115
240-102783-3	SW-100918-BE-002	104	90	90	118
240-102783-4	SW-100918-BE-003	105	91	93	117
240-102783-5	GW-100918-BE-041	114	95	98	127
240-102783-6	GW-100918-BE-042	108	87	95	124
240-102783-7	EB-100918-BE-004	105	86	92	121
240-102783-8	TB-100918-BE-005	106	88	92	120
LCS 240-351197/4	Lab Control Sample	88	103	103	101
MB 240-351197/6	Method Blank	95	90	96	109

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

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

TestAmerica Job ID: 240-102783-1

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

Lab Sample ID: MB 240-351197/6

Matrix: Water

Analysis Batch: 351197

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	0.24	ug/L			10/22/18 10:29	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/22/18 10:29	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/22/18 10:29	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/22/18 10:29	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/22/18 10:29	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/22/18 10:29	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/22/18 10:29	1
2-Hexanone	10	U	10	0.54	ug/L			10/22/18 10:29	1
Acetone	10	U	10	5.4	ug/L			10/22/18 10:29	1
Benzene	1.0	U	1.0	0.13	ug/L			10/22/18 10:29	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/22/18 10:29	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/22/18 10:29	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/22/18 10:29	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/22/18 10:29	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/22/18 10:29	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/22/18 10:29	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/22/18 10:29	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/22/18 10:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/22/18 10:29	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/22/18 10:29	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/22/18 10:29	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/22/18 10:29	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/22/18 10:29	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/22/18 10:29	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/22/18 10:29	1
Styrene	1.0	U	1.0	0.10	ug/L			10/22/18 10:29	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/22/18 10:29	1
Toluene	1.0	U	1.0	0.14	ug/L			10/22/18 10:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/22/18 10:29	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/22/18 10:29	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/22/18 10:29	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/22/18 10:29	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/22/18 10:29	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/22/18 10:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 121		10/22/18 10:29	1
4-Bromofluorobenzene (Surr)	90		59 - 120		10/22/18 10:29	1
Toluene-d8 (Surr)	96		70 - 123		10/22/18 10:29	1
Dibromofluoromethane (Surr)	109		75 - 128		10/22/18 10:29	1

Lab Sample ID: LCS 240-351197/4

Matrix: Water

Analysis Batch: 351197

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	10.1		ug/L		101	69 - 134
1,1,2,2-Tetrachloroethane	10.0	9.72		ug/L		97	65 - 139

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-102783-1

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

Lab Sample ID: LCS 240-351197/4

Matrix: Water

Analysis Batch: 351197

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	10.4		ug/L		104	78 - 133
1,1-Dichloroethane	10.0	9.86		ug/L		99	75 - 133
1,1-Dichloroethene	10.0	8.48		ug/L		85	65 - 139
1,2-Dichloroethane	10.0	8.58		ug/L		86	71 - 135
1,2-Dichloropropane	10.0	9.78		ug/L		98	78 - 133
2-Hexanone	20.0	18.4		ug/L		92	43 - 148
Acetone	20.0	18.1		ug/L		91	21 - 162
Benzene	10.0	9.94		ug/L		99	80 - 123
Bromoform	10.0	9.80		ug/L		98	49 - 141
Bromomethane	10.0	5.06		ug/L		51	41 - 175
Carbon disulfide	10.0	8.83		ug/L		88	60 - 138
Carbon tetrachloride	10.0	10.7		ug/L		107	63 - 140
Chlorobenzene	10.0	9.73		ug/L		97	80 - 121
Chloroethane	10.0	5.64		ug/L		56	33 - 173
Chloroform	10.0	9.97		ug/L		100	79 - 127
Chloromethane	10.0	9.07		ug/L		91	54 - 143
cis-1,2-Dichloroethene	10.0	9.83		ug/L		98	76 - 128
cis-1,3-Dichloropropene	10.0	8.04		ug/L		80	64 - 132
Dichlorobromomethane	10.0	9.26		ug/L		93	77 - 125
Ethylbenzene	10.0	9.31		ug/L		93	80 - 120
m-Xylene & p-Xylene	10.0	9.44		ug/L		94	80 - 120
2-Butanone (MEK)	20.0	16.9		ug/L		85	39 - 163
4-Methyl-2-pentanone (MIBK)	20.0	15.2		ug/L		76	49 - 143
Methylene Chloride	10.0	10.5		ug/L		105	70 - 134
o-Xylene	10.0	9.42		ug/L		94	80 - 120
Styrene	10.0	9.51		ug/L		95	79 - 120
Tetrachloroethene	10.0	10.3		ug/L		103	74 - 130
Toluene	10.0	10.2		ug/L		102	78 - 129
trans-1,2-Dichloroethene	10.0	10.2		ug/L		102	78 - 133
trans-1,3-Dichloropropene	10.0	8.20		ug/L		82	55 - 128
Trichloroethene	10.0	9.29		ug/L		93	76 - 125
Vinyl chloride	10.0	7.81		ug/L		78	58 - 143
Xylenes, Total	20.0	18.9		ug/L		94	80 - 120
Chlorodibromomethane	10.0	10.1		ug/L		101	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	88		70 - 121
4-Bromofluorobenzene (Surr)	103		59 - 120
Toluene-d8 (Surr)	103		70 - 123
Dibromofluoromethane (Surr)	101		75 - 128

TestAmerica Canton

QC Association Summary

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

TestAmerica Job ID: 240-102783-1

GC/MS VOA

Analysis Batch: 351197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102783-1	GW-100918-BE-040	Total/NA	Water	8260B	
240-102783-2	SW-100918-BE-001	Total/NA	Water	8260B	
240-102783-3	SW-100918-BE-002	Total/NA	Water	8260B	
240-102783-4	SW-100918-BE-003	Total/NA	Water	8260B	
240-102783-5	GW-100918-BE-041	Total/NA	Water	8260B	
240-102783-6	GW-100918-BE-042	Total/NA	Water	8260B	
240-102783-7	EB-100918-BE-004	Total/NA	Water	8260B	
240-102783-8	TB-100918-BE-005	Total/NA	Water	8260B	
MB 240-351197/6	Method Blank	Total/NA	Water	8260B	
LCS 240-351197/4	Lab Control Sample	Total/NA	Water	8260B	

Lab Chronicle

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

TestAmerica Job ID: 240-102783-1

Client Sample ID: GW-100918-BE-040

Date Collected: 10/09/18 10:10

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	351197	10/22/18 12:40	LEE	TAL CAN

Client Sample ID: SW-100918-BE-001

Date Collected: 10/09/18 10:40

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	351197	10/22/18 13:02	LEE	TAL CAN

Client Sample ID: SW-100918-BE-002

Date Collected: 10/09/18 10:50

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		6.67	351197	10/22/18 13:25	LEE	TAL CAN

Client Sample ID: SW-100918-BE-003

Date Collected: 10/09/18 10:55

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		6.67	351197	10/22/18 13:47	LEE	TAL CAN

Client Sample ID: GW-100918-BE-041

Date Collected: 10/09/18 12:22

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	351197	10/22/18 14:08	LEE	TAL CAN

Client Sample ID: GW-100918-BE-042

Date Collected: 10/09/18 12:25

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	351197	10/22/18 14:30	LEE	TAL CAN

TestAmerica Canton

Lab Chronicle

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

TestAmerica Job ID: 240-102783-1

Client Sample ID: EB-100918-BE-004

Lab Sample ID: 240-102783-7

Date Collected: 10/09/18 14:15

Matrix: Water

Date Received: 10/12/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	351197	10/22/18 14:52	LEE	TAL CAN

Client Sample ID: TB-100918-BE-005

Lab Sample ID: 240-102783-8

Date Collected: 10/09/18 15:07

Matrix: Water

Date Received: 10/12/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	351197	10/22/18 15:14	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-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-102783-1

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	02-23-19
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-19
Illinois	NELAP	5	200004	07-31-19
Kansas	NELAP	7	E-10336	01-31-19
Kentucky (UST)	State Program	4	58	02-23-19
Kentucky (WW)	State Program	4	98016	12-31-18 *
Minnesota	NELAP	5	039-999-348	12-31-18 *
Minnesota (Petrofund)	State Program	1	3506	07-31-19
Nevada	State Program	9	OH00048	07-31-19
New Jersey	NELAP	2	OH001	06-30-19
New York	NELAP	2	10975	03-31-19
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-19
Pennsylvania	NELAP	3	68-00340	08-31-19 *
Texas	NELAP	6	T104704517-17-9	08-31-19
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-19
Washington	State Program	10	C971	01-12-19
West Virginia DEP	State Program	3	210	12-31-18 *

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

TestAmerica Canton



CONESTOGA-ROVERS
& ASSOCIATES

08/11/17

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: IN-15032

PAGE 1 OF 2

(See Reverse Side for Instructions)

Project No/Phase/Task Code: 017302-TD7		Laboratory Name: West America NC		Lab Location: N. Wayne Canton, OH		SSOW ID: 17302-TD7	
Project Name:		Lab Contact: Denise Heckler		Lab Quote No:		Cooler No: 1051	
Project Location: Anderson, IN		CONTAINER QUANTITY & PRESERVATION		ANALYSIS REQUESTED (See Back of COC for Definitions)		Carrier: FedEx	
Chemistry Contact: Deborah Andrusko		SAMPLE TYPE				Airbill No:	
Sampler(s): Brynntinecker, Ari Feldman		Matrix Code				Date Shipped: 10/11/18	
Item		DATE (mm/dd/yyyy)		TIME (hh:mm)		COMMENTS/SPECIAL INSTRUCTIONS:	
1 GW-100918-BE-040		10/9/18		1010			
2 SW-100918-BE-001		10/9/18		1040			
3 SW-100918-BE-002		10/9/18		1050			
4 SW-100918-BE-003		10/9/18		1055			
5 GW-100918-BE-041		10/9/18		1222			
6 GW-100918-BE-042		10/9/18		1225			
7 EB-100918-BE-004		10/9/18		1415			
8 TB-100918-BE-005		10/9/18		1507			
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TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 102783

Client GHD Site Name _____ Cooler unpacked by: DS
 Cooler Received on 10/12/18 Opened on 10/12/18
 FedEx: 1st Grd ☒ UPS ☐ FAS ☐ Clipper ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other ☐

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

TestAmerica Cooler # TA 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 +0.9 °C) Observed Cooler Temp. 0.8 °C Corrected Cooler Temp. 1.7 °C
 IR GUN #36 (CF +0.6 °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 12-16 have been checked at the originating laboratory.
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC849161
13. Were VOAs on the COC? Yes No
14. Were air bubbles >6 mm in any VOA vials?  Larger than this. Yes No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Covered Yes No
16. 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 _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by: JK

18. 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)

19. SAMPLE PRESERVATION
 Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-105817-1

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:

12/28/2018 3:29:30 PM

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



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: 240-105817-1

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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

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

TestAmerica Job ID: 240-105817-1

Job ID: 240-105817-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-105817-1

Comments

No additional comments.

Receipt

The samples were received on 12/14/2018 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.4° 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: 240-105817-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
5030B	Purge and Trap	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: 240-105817-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-105817-1	GW-121318-BE-001	Water	12/13/18 12:53	12/14/18 09:50
240-105817-2	TRIP BLANK	Water	12/13/18 00:00	12/14/18 09:50

Detection Summary

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

TestAmerica Job ID: 240-105817-1

Client Sample ID: GW-121318-BE-001

Lab Sample ID: 240-105817-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	12		1.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-105817-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	28		10	5.4	ug/L	1		8260B	Total/NA
Methylene Chloride	6.1		5.0	2.6	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-105817-1

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

Client Sample ID: GW-121318-BE-001

Date Collected: 12/13/18 12:53

Date Received: 12/14/18 09:50

Lab Sample ID: 240-105817-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			12/27/18 17:54	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			12/27/18 17:54	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			12/27/18 17:54	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			12/27/18 17:54	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			12/27/18 17:54	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/27/18 17:54	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			12/27/18 17:54	1
2-Hexanone	10	U	10	0.54	ug/L			12/27/18 17:54	1
Acetone	10	U	10	5.4	ug/L			12/27/18 17:54	1
Benzene	1.0	U	1.0	0.13	ug/L			12/27/18 17:54	1
Bromoform	1.0	U	1.0	0.76	ug/L			12/27/18 17:54	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/27/18 17:54	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/27/18 17:54	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			12/27/18 17:54	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			12/27/18 17:54	1
Chloroethane	1.0	U	1.0	0.83	ug/L			12/27/18 17:54	1
Chloroform	1.0	U	1.0	0.13	ug/L			12/27/18 17:54	1
Chloromethane	1.0	U	1.0	0.20	ug/L			12/27/18 17:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			12/27/18 17:54	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			12/27/18 17:54	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			12/27/18 17:54	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/27/18 17:54	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			12/27/18 17:54	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			12/27/18 17:54	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			12/27/18 17:54	1
Styrene	1.0	U	1.0	0.10	ug/L			12/27/18 17:54	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/27/18 17:54	1
Toluene	1.0	U	1.0	0.14	ug/L			12/27/18 17:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			12/27/18 17:54	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			12/27/18 17:54	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			12/27/18 17:54	1
Vinyl chloride	12		1.0	0.20	ug/L			12/27/18 17:54	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			12/27/18 17:54	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			12/27/18 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 121		12/26/18 14:02	5
1,2-Dichloroethane-d4 (Surr)	89		70 - 121		12/27/18 17:54	1
4-Bromofluorobenzene (Surr)	64		59 - 120		12/26/18 14:02	5
4-Bromofluorobenzene (Surr)	99		59 - 120		12/27/18 17:54	1
Toluene-d8 (Surr)	74		70 - 123		12/26/18 14:02	5
Toluene-d8 (Surr)	97		70 - 123		12/27/18 17:54	1
Dibromofluoromethane (Surr)	111		75 - 128		12/26/18 14:02	5
Dibromofluoromethane (Surr)	96		75 - 128		12/27/18 17:54	1

Client Sample ID: TRIP BLANK

Date Collected: 12/13/18 00:00

Date Received: 12/14/18 09:50

Lab Sample ID: 240-105817-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			12/26/18 14:23	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-105817-1

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

Client Sample ID: TRIP BLANK

Date Collected: 12/13/18 00:00

Date Received: 12/14/18 09:50

Lab Sample ID: 240-105817-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			12/26/18 14:23	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			12/26/18 14:23	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			12/26/18 14:23	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			12/26/18 14:23	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/26/18 14:23	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			12/26/18 14:23	1
2-Hexanone	10	U	10	0.54	ug/L			12/26/18 14:23	1
Acetone	28		10	5.4	ug/L			12/26/18 14:23	1
Benzene	1.0	U	1.0	0.13	ug/L			12/26/18 14:23	1
Bromoform	1.0	U	1.0	0.76	ug/L			12/26/18 14:23	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/26/18 14:23	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/26/18 14:23	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			12/26/18 14:23	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			12/26/18 14:23	1
Chloroethane	1.0	U	1.0	0.83	ug/L			12/26/18 14:23	1
Chloroform	1.0	U	1.0	0.13	ug/L			12/26/18 14:23	1
Chloromethane	1.0	U	1.0	0.20	ug/L			12/26/18 14:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			12/26/18 14:23	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			12/26/18 14:23	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			12/26/18 14:23	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/26/18 14:23	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			12/26/18 14:23	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			12/26/18 14:23	1
Methylene Chloride	6.1		5.0	2.6	ug/L			12/26/18 14:23	1
Styrene	1.0	U	1.0	0.10	ug/L			12/26/18 14:23	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/26/18 14:23	1
Toluene	1.0	U	1.0	0.14	ug/L			12/26/18 14:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			12/26/18 14:23	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			12/26/18 14:23	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			12/26/18 14:23	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			12/26/18 14:23	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			12/26/18 14:23	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			12/26/18 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 121		12/26/18 14:23	1
4-Bromofluorobenzene (Surr)	67		59 - 120		12/26/18 14:23	1
Toluene-d8 (Surr)	82		70 - 123		12/26/18 14:23	1
Dibromofluoromethane (Surr)	124		75 - 128		12/26/18 14:23	1

TestAmerica Canton

Surrogate Summary

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

TestAmerica Job ID: 240-105817-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (70-121)	BFB (59-120)	TOL (70-123)	DBFM (75-128)
240-105817-1	GW-121318-BE-001	96	64	74	111
240-105817-1	GW-121318-BE-001	89	99	97	96
240-105817-1 MS	GW-121318-BE-001	80	83	83	94
240-105817-1 MSD	GW-121318-BE-001	89	94	92	102
240-105817-2	TRIP BLANK	107	67	82	124
LCS 240-361663/4	Lab Control Sample	83	83	88	97
LCS 240-361928/4	Lab Control Sample	94	97	98	99
MB 240-361663/6	Method Blank	108	66	75	127
MB 240-361928/6	Method Blank	94	97	102	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

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

TestAmerica Job ID: 240-105817-1

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

Lab Sample ID: MB 240-361663/6

Matrix: Water

Analysis Batch: 361663

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	0.24	ug/L			12/26/18 11:07	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			12/26/18 11:07	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			12/26/18 11:07	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			12/26/18 11:07	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			12/26/18 11:07	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/26/18 11:07	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			12/26/18 11:07	1
2-Hexanone	10	U	10	0.54	ug/L			12/26/18 11:07	1
Acetone	10	U	10	5.4	ug/L			12/26/18 11:07	1
Benzene	1.0	U	1.0	0.13	ug/L			12/26/18 11:07	1
Bromoform	1.0	U	1.0	0.76	ug/L			12/26/18 11:07	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/26/18 11:07	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/26/18 11:07	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			12/26/18 11:07	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			12/26/18 11:07	1
Chloroethane	1.0	U	1.0	0.83	ug/L			12/26/18 11:07	1
Chloroform	0.289	J	1.0	0.13	ug/L			12/26/18 11:07	1
Chloromethane	1.0	U	1.0	0.20	ug/L			12/26/18 11:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			12/26/18 11:07	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			12/26/18 11:07	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			12/26/18 11:07	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/26/18 11:07	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			12/26/18 11:07	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			12/26/18 11:07	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			12/26/18 11:07	1
Styrene	1.0	U	1.0	0.10	ug/L			12/26/18 11:07	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/26/18 11:07	1
Toluene	1.0	U	1.0	0.14	ug/L			12/26/18 11:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			12/26/18 11:07	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			12/26/18 11:07	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			12/26/18 11:07	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			12/26/18 11:07	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			12/26/18 11:07	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			12/26/18 11:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 121		12/26/18 11:07	1
4-Bromofluorobenzene (Surr)	66		59 - 120		12/26/18 11:07	1
Toluene-d8 (Surr)	75		70 - 123		12/26/18 11:07	1
Dibromofluoromethane (Surr)	127		75 - 128		12/26/18 11:07	1

Lab Sample ID: LCS 240-361663/4

Matrix: Water

Analysis Batch: 361663

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	11.9		ug/L		119	69 - 134
1,1,1,2-Tetrachloroethane	10.0	9.54		ug/L		95	65 - 139

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-105817-1

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

Lab Sample ID: LCS 240-361663/4

Matrix: Water

Analysis Batch: 361663

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	10.9		ug/L		109	78 - 133
1,1-Dichloroethane	10.0	11.3		ug/L		113	75 - 133
1,1-Dichloroethene	10.0	10.6		ug/L		106	65 - 139
1,2-Dichloroethane	10.0	9.68		ug/L		97	71 - 135
1,2-Dichloropropane	10.0	10.2		ug/L		102	78 - 133
2-Hexanone	20.0	16.5		ug/L		83	43 - 148
Acetone	20.0	20.7		ug/L		103	21 - 162
Benzene	10.0	10.4		ug/L		104	80 - 123
Bromoform	10.0	10.3		ug/L		103	49 - 141
Bromomethane	10.0	7.25		ug/L		72	41 - 175
Carbon disulfide	10.0	11.2		ug/L		112	60 - 138
Carbon tetrachloride	10.0	12.9		ug/L		129	63 - 140
Chlorobenzene	10.0	10.4		ug/L		104	80 - 121
Chloroethane	10.0	8.63		ug/L		86	33 - 173
Chloroform	10.0	11.4		ug/L		114	79 - 127
Chloromethane	10.0	9.82		ug/L		98	54 - 143
cis-1,2-Dichloroethene	10.0	11.0		ug/L		110	76 - 128
cis-1,3-Dichloropropene	10.0	8.22		ug/L		82	64 - 132
Dichlorobromomethane	10.0	10.1		ug/L		101	77 - 125
Ethylbenzene	10.0	9.51		ug/L		95	80 - 120
m-Xylene & p-Xylene	10.0	9.31		ug/L		93	80 - 120
2-Butanone (MEK)	20.0	16.3		ug/L		82	39 - 163
4-Methyl-2-pentanone (MIBK)	20.0	14.8		ug/L		74	49 - 143
Methylene Chloride	10.0	12.2		ug/L		122	70 - 134
o-Xylene	10.0	8.73		ug/L		87	80 - 120
Styrene	10.0	8.96		ug/L		90	79 - 120
Tetrachloroethene	10.0	10.8		ug/L		108	74 - 130
Toluene	10.0	10.2		ug/L		102	78 - 129
trans-1,2-Dichloroethene	10.0	12.2		ug/L		122	78 - 133
trans-1,3-Dichloropropene	10.0	8.37		ug/L		84	55 - 128
Trichloroethene	10.0	9.58		ug/L		96	76 - 125
Vinyl chloride	10.0	9.26		ug/L		93	58 - 143
Xylenes, Total	20.0	18.0		ug/L		90	80 - 120
Chlorodibromomethane	10.0	11.0		ug/L		110	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	83		70 - 121
4-Bromofluorobenzene (Surr)	83		59 - 120
Toluene-d8 (Surr)	88		70 - 123
Dibromofluoromethane (Surr)	97		75 - 128

Lab Sample ID: 240-105817-1 MS

Matrix: Water

Analysis Batch: 361663

Client Sample ID: GW-121318-BE-001

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	80		70 - 121

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-105817-1

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

Lab Sample ID: 240-105817-1 MS

Matrix: Water

Analysis Batch: 361663

Client Sample ID: GW-121318-BE-001

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		59 - 120
Toluene-d8 (Surr)	83		70 - 123
Dibromofluoromethane (Surr)	94		75 - 128

Lab Sample ID: 240-105817-1 MSD

Matrix: Water

Analysis Batch: 361663

Client Sample ID: GW-121318-BE-001

Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		70 - 121
4-Bromofluorobenzene (Surr)	94		59 - 120
Toluene-d8 (Surr)	92		70 - 123
Dibromofluoromethane (Surr)	102		75 - 128

Lab Sample ID: MB 240-361928/6

Matrix: Water

Analysis Batch: 361928

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	0.24	ug/L			12/27/18 12:45	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			12/27/18 12:45	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			12/27/18 12:45	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			12/27/18 12:45	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			12/27/18 12:45	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/27/18 12:45	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			12/27/18 12:45	1
2-Hexanone	10	U	10	0.54	ug/L			12/27/18 12:45	1
Acetone	10	U	10	5.4	ug/L			12/27/18 12:45	1
Benzene	1.0	U	1.0	0.13	ug/L			12/27/18 12:45	1
Bromoform	1.0	U	1.0	0.76	ug/L			12/27/18 12:45	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/27/18 12:45	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/27/18 12:45	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			12/27/18 12:45	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			12/27/18 12:45	1
Chloroethane	1.0	U	1.0	0.83	ug/L			12/27/18 12:45	1
Chloroform	1.0	U	1.0	0.13	ug/L			12/27/18 12:45	1
Chloromethane	1.0	U	1.0	0.20	ug/L			12/27/18 12:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			12/27/18 12:45	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			12/27/18 12:45	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			12/27/18 12:45	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/27/18 12:45	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			12/27/18 12:45	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			12/27/18 12:45	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			12/27/18 12:45	1
Styrene	1.0	U	1.0	0.10	ug/L			12/27/18 12:45	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/27/18 12:45	1
Toluene	1.0	U	1.0	0.14	ug/L			12/27/18 12:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			12/27/18 12:45	1

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-105817-1

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

Lab Sample ID: MB 240-361928/6

Matrix: Water

Analysis Batch: 361928

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			12/27/18 12:45	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			12/27/18 12:45	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			12/27/18 12:45	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			12/27/18 12:45	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			12/27/18 12:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 121		12/27/18 12:45	1
4-Bromofluorobenzene (Surr)	97		59 - 120		12/27/18 12:45	1
Toluene-d8 (Surr)	102		70 - 123		12/27/18 12:45	1
Dibromofluoromethane (Surr)	98		75 - 128		12/27/18 12:45	1

Lab Sample ID: LCS 240-361928/4

Matrix: Water

Analysis Batch: 361928

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	9.64		ug/L		96	69 - 134
1,1,2,2-Tetrachloroethane	10.0	10.7		ug/L		107	65 - 139
1,1,2-Trichloroethane	10.0	9.52		ug/L		95	78 - 133
1,1-Dichloroethane	10.0	11.3		ug/L		113	75 - 133
1,1-Dichloroethene	10.0	9.99		ug/L		100	65 - 139
1,2-Dichloroethane	10.0	9.68		ug/L		97	71 - 135
1,2-Dichloropropane	10.0	10.2		ug/L		102	78 - 133
2-Hexanone	20.0	26.0		ug/L		130	43 - 148
Acetone	20.0	23.9		ug/L		120	21 - 162
Benzene	10.0	10.3		ug/L		103	80 - 123
Bromoform	10.0	8.94		ug/L		89	49 - 141
Bromomethane	10.0	11.0		ug/L		110	41 - 175
Carbon disulfide	10.0	9.88		ug/L		99	60 - 138
Carbon tetrachloride	10.0	8.74		ug/L		87	63 - 140
Chlorobenzene	10.0	9.73		ug/L		97	80 - 121
Chloroethane	10.0	11.9		ug/L		119	33 - 173
Chloroform	10.0	11.1		ug/L		111	79 - 127
Chloromethane	10.0	11.2		ug/L		112	54 - 143
cis-1,2-Dichloroethene	10.0	10.9		ug/L		109	76 - 128
cis-1,3-Dichloropropene	10.0	8.54		ug/L		85	64 - 132
Dichlorobromomethane	10.0	9.16		ug/L		92	77 - 125
Ethylbenzene	10.0	9.24		ug/L		92	80 - 120
m-Xylene & p-Xylene	10.0	9.08		ug/L		91	80 - 120
2-Butanone (MEK)	20.0	22.3		ug/L		112	39 - 163
4-Methyl-2-pentanone (MIBK)	20.0	22.0		ug/L		110	49 - 143
Methylene Chloride	10.0	10.5		ug/L		105	70 - 134
o-Xylene	10.0	9.47		ug/L		95	80 - 120
Styrene	10.0	9.05		ug/L		91	79 - 120
Tetrachloroethene	10.0	8.96		ug/L		90	74 - 130
Toluene	10.0	10.0		ug/L		100	78 - 129
trans-1,2-Dichloroethene	10.0	10.9		ug/L		109	78 - 133

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-105817-1

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

Lab Sample ID: LCS 240-361928/4

Matrix: Water

Analysis Batch: 361928

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	10.0	8.73		ug/L		87	55 - 128
Trichloroethene	10.0	9.51		ug/L		95	76 - 125
Vinyl chloride	10.0	11.8		ug/L		118	58 - 143
Xylenes, Total	20.0	18.6		ug/L		93	80 - 120
Chlorodibromomethane	10.0	9.31		ug/L		93	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 121
4-Bromofluorobenzene (Surr)	97		59 - 120
Toluene-d8 (Surr)	98		70 - 123
Dibromofluoromethane (Surr)	99		75 - 128

QC Association Summary

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

TestAmerica Job ID: 240-105817-1

GC/MS VOA

Analysis Batch: 361663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-105817-1	GW-121318-BE-001	Total/NA	Water	8260B	
240-105817-2	TRIP BLANK	Total/NA	Water	8260B	
MB 240-361663/6	Method Blank	Total/NA	Water	8260B	
LCS 240-361663/4	Lab Control Sample	Total/NA	Water	8260B	
240-105817-1 MS	GW-121318-BE-001	Total/NA	Water	8260B	
240-105817-1 MSD	GW-121318-BE-001	Total/NA	Water	8260B	

Analysis Batch: 361928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-105817-1	GW-121318-BE-001	Total/NA	Water	8260B	
MB 240-361928/6	Method Blank	Total/NA	Water	8260B	
LCS 240-361928/4	Lab Control Sample	Total/NA	Water	8260B	

Lab Chronicle

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

TestAmerica Job ID: 240-105817-1

Client Sample ID: GW-121318-BE-001

Date Collected: 12/13/18 12:53

Date Received: 12/14/18 09:50

Lab Sample ID: 240-105817-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	361928	12/27/18 17:54	LRW	TAL CAN
Total/NA	Analysis	8260B		5	361663	12/26/18 14:02	LEE	TAL CAN

Client Sample ID: TRIP BLANK

Date Collected: 12/13/18 00:00

Date Received: 12/14/18 09:50

Lab Sample ID: 240-105817-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	361663	12/26/18 14:23	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: 240-105817-1

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	02-23-19 *
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-19
Illinois	NELAP	5	200004	07-31-19
Kansas	NELAP	7	E-10336	01-31-19 *
Kentucky (UST)	State Program	4	58	02-23-19 *
Kentucky (WW)	State Program	4	98016	12-31-18 *
Minnesota	NELAP	5	039-999-348	12-31-19 *
Minnesota (Petrofund)	State Program	1	3506	07-31-19
Nevada	State Program	9	OH00048	07-31-19
New Jersey	NELAP	2	OH001	06-30-19
New York	NELAP	2	10975	03-31-19
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-19 *
Pennsylvania	NELAP	3	68-00340	08-31-19 *
Texas	NELAP	6	T104704517-18-10	08-31-19
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-19
Washington	State Program	10	C971	01-12-19 *
West Virginia DEP	State Program	3	210	12-31-18 *

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

TestAmerica Canton



**CONESTOGA-ROVERS
& ASSOCIATES**

4.4/4.4

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: **IN-14358**

PAGE **1** OF **1**

(See Reverse Side for Instructions)

Project No/Phase/Task Code: 017302A-107		Laboratory Name: Test America		Lab Location: NORMAN, OH		SSOW ID: 017302-107	
Project Name: MLK GW		Lab Contact: Denise Hecker		Lab Quote No:		Cooler No: 10F1	
Project Location: Anderson IN		CONTAINER QUANTITY & PRESERVATION		ANALYSIS REQUESTED (See Back of COC for Definitions)		Carrier: Fedex	
Chemistry Contact: Deborah Andraske		SAMPLE TYPE		Total Containers/Sample		Airbill No:	
Sampler(s): Brynn Eisecker		Matrix Code		Other:		Date Shipped: 12/13/18	
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)		DATE (mm/dd/yyyy)		TIME (hr:min)		COMMENTS/ SPECIAL INSTRUCTIONS:	
1 GW-121318-BE-001		12/13/18		1253			
2 TRIP Blank		12/13/18					
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TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 105817

Client <u>CRA</u>		Site Name _____		Cooler unpacked by: <u>Ryan Cribler</u>	
Cooler Received on <u>12-14-18</u>		Opened on <u>12-14-18</u>			
FedEx: 1 st Grd <u>Exp</u> UPS FAS Clipper		Client Drop Off		TestAmerica Courier Other _____	
Receipt After-hours: Drop-off Date/Time _____			Storage Location _____		
TestAmerica Cooler # <u>TA</u>		Foam Box	Client Cooler	Box	Other _____
Packing material used: <u>Bubble Wrap</u> <u>Foam</u> <u>Plastic Bag</u>		None	Other _____		
COOLANT: <u>Wet Ice</u> Blue Ice Dry Ice Water		None			
1. Cooler temperature upon receipt		☐ See Multiple Cooler Form			
IR GUN# IR-8 (CF <u>-0.2</u> °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C					
IR GUN #36 (CF <u>+0</u> °C) Observed Cooler Temp. <u>4.4</u> °C Corrected Cooler Temp. <u>4.4</u> °C					
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u>		<u>Yes</u> No, _____			
-Were the seals on the outside of the cooler(s) signed & dated?		<u>Yes</u> No NA			
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?		<u>Yes</u> <u>No</u>			
-Were tamper/custody seals intact and uncompromised?		<u>Yes</u> No NA			
3. Shippers' packing slip attached to the cooler(s)?		<u>Yes</u> No			
4. Did custody papers accompany the sample(s)?		<u>Yes</u> No			
5. Were the custody papers relinquished & signed in the appropriate place?		<u>Yes</u> No			
6. Was/were the person(s) who collected the samples clearly identified on the COC?		<u>Yes</u> No			
7. Did all bottles arrive in good condition (Unbroken)?		<u>Yes</u> No			
8. Could all bottle labels be reconciled with the COC?		<u>Yes</u> No			
9. Were correct bottle(s) used for the test(s) indicated?		<u>Yes</u> No			
10. Sufficient quantity received to perform indicated analyses?		<u>Yes</u> No			
11. Are these work share samples?		<u>Yes</u> <u>No</u>			
If yes, Questions 12-16 have been checked at the originating laboratory.					
12. Were all preserved sample(s) at the correct pH upon receipt?		<u>Yes</u> No <u>NA</u> pH Strip Lot# <u>HC854592</u>			
13. Were VOAs on the COC?		<u>Yes</u> No			
14. Were air bubbles >6 mm in any VOA vials? Larger than this.		<u>Yes</u> <u>No</u> NA			
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____		<u>Yes</u> No			
16. Was a LL Hg or Me Hg trip blank present? _____		<u>Yes</u> <u>No</u>			
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____					
Concerning _____					

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES 	Samples processed by: _____
18. 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)	
19. 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: 240-102783-2

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



Authorized for release by:

1/28/2019 3:41:30 PM

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



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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Table of Contents	2
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Definitions/Glossary

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

TestAmerica Job ID: 240-102783-2

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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

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

TestAmerica Job ID: 240-102783-2

Job ID: 240-102783-2

Laboratory: TestAmerica Canton

Narrative

Job Narrative 240-102783-2

Comments

A revised report was provided on January 28, 2019. Select samples were split out into a separate report.

Receipt

The samples were received on 10/12/2018 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.7° 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: 240-102783-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
5030B	Purge and Trap	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: 240-102783-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-102783-9	GW-100918-AF-043	Water	10/09/18 15:20	10/12/18 09:30
240-102783-15	GW-101018-AF-048	Water	10/10/18 15:27	10/12/18 09:30
240-102783-16	GW-101018-AF-049	Water	10/10/18 15:30	10/12/18 09:30

Detection Summary

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

TestAmerica Job ID: 240-102783-2

Client Sample ID: GW-100918-AF-043

Lab Sample ID: 240-102783-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.2	J	4.0	0.68	ug/L	4		8260B	Total/NA
cis-1,2-Dichloroethene	78		4.0	0.64	ug/L	4		8260B	Total/NA
trans-1,2-Dichloroethene	1.0	J	4.0	0.76	ug/L	4		8260B	Total/NA
Vinyl chloride	27		4.0	0.80	ug/L	4		8260B	Total/NA

Client Sample ID: GW-101018-AF-048

Lab Sample ID: 240-102783-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.45	J	1.0	0.16	ug/L	1		8260B	Total/NA
Trichloroethene	0.12	J	1.0	0.10	ug/L	1		8260B	Total/NA

Client Sample ID: GW-101018-AF-049

Lab Sample ID: 240-102783-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.38	J	1.0	0.16	ug/L	1		8260B	Total/NA
Trichloroethene	0.14	J	1.0	0.10	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102783-2

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

Client Sample ID: GW-100918-AF-043

Date Collected: 10/09/18 15:20

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	4.0	U	4.0	0.96	ug/L			10/22/18 15:36	4
1,1,2,2-Tetrachloroethane	4.0	U	4.0	0.52	ug/L			10/22/18 15:36	4
1,1,2-Trichloroethane	4.0	U	4.0	0.36	ug/L			10/22/18 15:36	4
1,1-Dichloroethane	1.2	J	4.0	0.68	ug/L			10/22/18 15:36	4
1,1-Dichloroethene	4.0	U	4.0	0.76	ug/L			10/22/18 15:36	4
1,2-Dichloroethane	4.0	U	4.0	0.84	ug/L			10/22/18 15:36	4
1,2-Dichloropropane	4.0	U	4.0	0.60	ug/L			10/22/18 15:36	4
2-Hexanone	40	U	40	2.2	ug/L			10/22/18 15:36	4
Acetone	40	U	40	22	ug/L			10/22/18 15:36	4
Benzene	4.0	U	4.0	0.52	ug/L			10/22/18 15:36	4
Bromoform	4.0	U	4.0	3.0	ug/L			10/22/18 15:36	4
Bromomethane	4.0	U	4.0	1.7	ug/L			10/22/18 15:36	4
Carbon disulfide	4.0	U	4.0	1.1	ug/L			10/22/18 15:36	4
Carbon tetrachloride	4.0	U	4.0	1.0	ug/L			10/22/18 15:36	4
Chlorobenzene	4.0	U	4.0	0.56	ug/L			10/22/18 15:36	4
Chloroethane	4.0	U	4.0	3.3	ug/L			10/22/18 15:36	4
Chloroform	4.0	U	4.0	0.52	ug/L			10/22/18 15:36	4
Chloromethane	4.0	U	4.0	0.80	ug/L			10/22/18 15:36	4
cis-1,2-Dichloroethene	78		4.0	0.64	ug/L			10/22/18 15:36	4
cis-1,3-Dichloropropene	4.0	U	4.0	2.4	ug/L			10/22/18 15:36	4
Dichlorobromomethane	4.0	U	4.0	0.68	ug/L			10/22/18 15:36	4
Ethylbenzene	4.0	U	4.0	0.44	ug/L			10/22/18 15:36	4
2-Butanone (MEK)	40	U	40	4.6	ug/L			10/22/18 15:36	4
4-Methyl-2-pentanone (MIBK)	40	U	40	1.7	ug/L			10/22/18 15:36	4
Methylene Chloride	20	U	20	10	ug/L			10/22/18 15:36	4
Styrene	4.0	U	4.0	0.40	ug/L			10/22/18 15:36	4
Tetrachloroethene	4.0	U	4.0	0.60	ug/L			10/22/18 15:36	4
Toluene	4.0	U	4.0	0.56	ug/L			10/22/18 15:36	4
trans-1,2-Dichloroethene	1.0	J	4.0	0.76	ug/L			10/22/18 15:36	4
trans-1,3-Dichloropropene	4.0	U	4.0	2.7	ug/L			10/22/18 15:36	4
Trichloroethene	4.0	U	4.0	0.40	ug/L			10/22/18 15:36	4
Vinyl chloride	27		4.0	0.80	ug/L			10/22/18 15:36	4
Xylenes, Total	8.0	U	8.0	0.60	ug/L			10/22/18 15:36	4
Chlorodibromomethane	4.0	U	4.0	1.6	ug/L			10/22/18 15:36	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 121		10/22/18 15:36	4
4-Bromofluorobenzene (Surr)	92		59 - 120		10/22/18 15:36	4
Toluene-d8 (Surr)	95		70 - 123		10/22/18 15:36	4
Dibromofluoromethane (Surr)	121		75 - 128		10/22/18 15:36	4

Client Sample ID: GW-101018-AF-048

Date Collected: 10/10/18 15:27

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-15

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/22/18 17:47	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/22/18 17:47	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/22/18 17:47	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/22/18 17:47	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/22/18 17:47	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102783-2

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

Client Sample ID: GW-101018-AF-048

Date Collected: 10/10/18 15:27

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-15

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/22/18 17:47	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/22/18 17:47	1
2-Hexanone	10	U	10	0.54	ug/L			10/22/18 17:47	1
Acetone	10	U	10	5.4	ug/L			10/22/18 17:47	1
Benzene	1.0	U	1.0	0.13	ug/L			10/22/18 17:47	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/22/18 17:47	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/22/18 17:47	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/22/18 17:47	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/22/18 17:47	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/22/18 17:47	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/22/18 17:47	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/22/18 17:47	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/22/18 17:47	1
cis-1,2-Dichloroethene	0.45	J	1.0	0.16	ug/L			10/22/18 17:47	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/22/18 17:47	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/22/18 17:47	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/22/18 17:47	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/22/18 17:47	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/22/18 17:47	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/22/18 17:47	1
Styrene	1.0	U	1.0	0.10	ug/L			10/22/18 17:47	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/22/18 17:47	1
Toluene	1.0	U	1.0	0.14	ug/L			10/22/18 17:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/22/18 17:47	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/22/18 17:47	1
Trichloroethene	0.12	J	1.0	0.10	ug/L			10/22/18 17:47	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/22/18 17:47	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/22/18 17:47	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/22/18 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 121		10/22/18 17:47	1
4-Bromofluorobenzene (Surr)	94		59 - 120		10/22/18 17:47	1
Toluene-d8 (Surr)	103		70 - 123		10/22/18 17:47	1
Dibromofluoromethane (Surr)	124		75 - 128		10/22/18 17:47	1

Client Sample ID: GW-101018-AF-049

Date Collected: 10/10/18 15:30

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-16

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/22/18 18:08	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/22/18 18:08	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/22/18 18:08	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/22/18 18:08	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/22/18 18:08	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/22/18 18:08	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/22/18 18:08	1
2-Hexanone	10	U	10	0.54	ug/L			10/22/18 18:08	1
Acetone	10	U	10	5.4	ug/L			10/22/18 18:08	1
Benzene	1.0	U	1.0	0.13	ug/L			10/22/18 18:08	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-102783-2

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

Client Sample ID: GW-101018-AF-049

Date Collected: 10/10/18 15:30

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-16

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	1.0	U	1.0	0.76	ug/L			10/22/18 18:08	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/22/18 18:08	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/22/18 18:08	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/22/18 18:08	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/22/18 18:08	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/22/18 18:08	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/22/18 18:08	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/22/18 18:08	1
cis-1,2-Dichloroethene	0.38	J	1.0	0.16	ug/L			10/22/18 18:08	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/22/18 18:08	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/22/18 18:08	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/22/18 18:08	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/22/18 18:08	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/22/18 18:08	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/22/18 18:08	1
Styrene	1.0	U	1.0	0.10	ug/L			10/22/18 18:08	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/22/18 18:08	1
Toluene	1.0	U	1.0	0.14	ug/L			10/22/18 18:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/22/18 18:08	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/22/18 18:08	1
Trichloroethene	0.14	J	1.0	0.10	ug/L			10/22/18 18:08	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/22/18 18:08	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/22/18 18:08	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/22/18 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 121		10/22/18 18:08	1
4-Bromofluorobenzene (Surr)	88		59 - 120		10/22/18 18:08	1
Toluene-d8 (Surr)	99		70 - 123		10/22/18 18:08	1
Dibromofluoromethane (Surr)	117		75 - 128		10/22/18 18:08	1

TestAmerica Canton

Surrogate Summary

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

TestAmerica Job ID: 240-102783-2

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (70-121)	BFB (59-120)	TOL (70-123)	DBFM (75-128)
240-102783-9	GW-100918-AF-043	107	92	95	121
240-102783-15	GW-101018-AF-048	109	94	103	124
240-102783-16	GW-101018-AF-049	103	88	99	117

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: GHD Services Inc.
Project/Site: 17302-T08, RACER Delphi Anderson

TestAmerica Job ID: 240-102783-2

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

Lab Sample ID: MB 240-351197/6

Matrix: Water

Analysis Batch: 351197

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	0.24	ug/L			10/22/18 10:29	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/22/18 10:29	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			10/22/18 10:29	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/22/18 10:29	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/22/18 10:29	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/22/18 10:29	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/22/18 10:29	1
2-Hexanone	10	U	10	0.54	ug/L			10/22/18 10:29	1
Acetone	10	U	10	5.4	ug/L			10/22/18 10:29	1
Benzene	1.0	U	1.0	0.13	ug/L			10/22/18 10:29	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/22/18 10:29	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/22/18 10:29	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/22/18 10:29	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/22/18 10:29	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/22/18 10:29	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/22/18 10:29	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/22/18 10:29	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/22/18 10:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/22/18 10:29	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/22/18 10:29	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/22/18 10:29	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/22/18 10:29	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/22/18 10:29	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/22/18 10:29	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/22/18 10:29	1
Styrene	1.0	U	1.0	0.10	ug/L			10/22/18 10:29	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/22/18 10:29	1
Toluene	1.0	U	1.0	0.14	ug/L			10/22/18 10:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/22/18 10:29	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/22/18 10:29	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/22/18 10:29	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/22/18 10:29	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/22/18 10:29	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/22/18 10:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 121		10/22/18 10:29	1
4-Bromofluorobenzene (Surr)	90		59 - 120		10/22/18 10:29	1
Toluene-d8 (Surr)	96		70 - 123		10/22/18 10:29	1
Dibromofluoromethane (Surr)	109		75 - 128		10/22/18 10:29	1

Lab Sample ID: LCS 240-351197/4

Matrix: Water

Analysis Batch: 351197

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	10.1		ug/L		101	69 - 134
1,1,2,2-Tetrachloroethane	10.0	9.72		ug/L		97	65 - 139

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 17302-T08, RACER Delphi Anderson

TestAmerica Job ID: 240-102783-2

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

Lab Sample ID: LCS 240-351197/4

Matrix: Water

Analysis Batch: 351197

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	10.4		ug/L		104	78 - 133
1,1-Dichloroethane	10.0	9.86		ug/L		99	75 - 133
1,1-Dichloroethene	10.0	8.48		ug/L		85	65 - 139
1,2-Dichloroethane	10.0	8.58		ug/L		86	71 - 135
1,2-Dichloropropane	10.0	9.78		ug/L		98	78 - 133
2-Hexanone	20.0	18.4		ug/L		92	43 - 148
Acetone	20.0	18.1		ug/L		91	21 - 162
Benzene	10.0	9.94		ug/L		99	80 - 123
Bromoform	10.0	9.80		ug/L		98	49 - 141
Bromomethane	10.0	5.06		ug/L		51	41 - 175
Carbon disulfide	10.0	8.83		ug/L		88	60 - 138
Carbon tetrachloride	10.0	10.7		ug/L		107	63 - 140
Chlorobenzene	10.0	9.73		ug/L		97	80 - 121
Chloroethane	10.0	5.64		ug/L		56	33 - 173
Chloroform	10.0	9.97		ug/L		100	79 - 127
Chloromethane	10.0	9.07		ug/L		91	54 - 143
cis-1,2-Dichloroethene	10.0	9.83		ug/L		98	76 - 128
cis-1,3-Dichloropropene	10.0	8.04		ug/L		80	64 - 132
Dichlorobromomethane	10.0	9.26		ug/L		93	77 - 125
Ethylbenzene	10.0	9.31		ug/L		93	80 - 120
m-Xylene & p-Xylene	10.0	9.44		ug/L		94	80 - 120
2-Butanone (MEK)	20.0	16.9		ug/L		85	39 - 163
4-Methyl-2-pentanone (MIBK)	20.0	15.2		ug/L		76	49 - 143
Methylene Chloride	10.0	10.5		ug/L		105	70 - 134
o-Xylene	10.0	9.42		ug/L		94	80 - 120
Styrene	10.0	9.51		ug/L		95	79 - 120
Tetrachloroethene	10.0	10.3		ug/L		103	74 - 130
Toluene	10.0	10.2		ug/L		102	78 - 129
trans-1,2-Dichloroethene	10.0	10.2		ug/L		102	78 - 133
trans-1,3-Dichloropropene	10.0	8.20		ug/L		82	55 - 128
Trichloroethene	10.0	9.29		ug/L		93	76 - 125
Vinyl chloride	10.0	7.81		ug/L		78	58 - 143
Xylenes, Total	20.0	18.9		ug/L		94	80 - 120
Chlorodibromomethane	10.0	10.1		ug/L		101	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	88		70 - 121
4-Bromofluorobenzene (Surr)	103		59 - 120
Toluene-d8 (Surr)	103		70 - 123
Dibromofluoromethane (Surr)	101		75 - 128

Lab Sample ID: 240-102783-12 MS

Matrix: Water

Analysis Batch: 351197

Client Sample ID: GW-101018-AF-046

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	17	U	167	167		ug/L		100	51 - 138
1,1,2,2-Tetrachloroethane	17	U	167	164		ug/L		98	60 - 137

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 17302-T08, RACER Delphi Anderson

TestAmerica Job ID: 240-102783-2

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

Lab Sample ID: 240-102783-12 MS

Matrix: Water

Analysis Batch: 351197

Client Sample ID: GW-101018-AF-046

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	17	U	167	178		ug/L		107	76 - 132
1,1-Dichloroethane	17	U	167	174		ug/L		104	63 - 136
1,1-Dichloroethene	17	U	167	138		ug/L		83	53 - 140
1,2-Dichloroethane	17	U	167	150		ug/L		90	65 - 135
1,2-Dichloropropane	17	U	167	162		ug/L		97	70 - 132
2-Hexanone	170	U	333	260		ug/L		78	42 - 150
Acetone	170	U	333	275		ug/L		82	10 - 168
Benzene	17	U	167	168		ug/L		101	71 - 122
Bromoform	17	U	167	159		ug/L		95	44 - 129
Bromomethane	17	U	167	75.2		ug/L		45	19 - 187
Carbon disulfide	17	U	167	145		ug/L		87	43 - 144
Carbon tetrachloride	17	U	167	168		ug/L		101	41 - 143
Chlorobenzene	17	U	167	165		ug/L		99	70 - 123
Chloroethane	17	U	167	91.5		ug/L		55	11 - 189
Chloroform	17	U	167	173		ug/L		104	68 - 130
Chloromethane	17	U	167	117		ug/L		70	31 - 154
cis-1,2-Dichloroethene	300		167	430		ug/L		79	64 - 130
cis-1,3-Dichloropropene	17	U	167	121		ug/L		73	48 - 127
Dichlorobromomethane	17	U	167	153		ug/L		92	64 - 125
Ethylbenzene	17	U	167	157		ug/L		94	66 - 120
m-Xylene & p-Xylene	33	U	167	158		ug/L		95	63 - 121
2-Butanone (MEK)	170	U	333	298		ug/L		89	37 - 156
4-Methyl-2-pentanone (MIBK)	170	U	333	237		ug/L		71	44 - 143
Methylene Chloride	83	U	167	182		ug/L		109	61 - 130
o-Xylene	17	U	167	158		ug/L		95	69 - 120
Styrene	17	U	167	161		ug/L		96	68 - 120
Tetrachloroethene	17	U	167	163		ug/L		98	51 - 136
Toluene	17	U	167	169		ug/L		102	62 - 132
trans-1,2-Dichloroethene	17	U	167	175		ug/L		105	68 - 133
trans-1,3-Dichloropropene	17	U	167	121		ug/L		73	40 - 125
Trichloroethene	17	U	167	151		ug/L		90	55 - 131
Vinyl chloride	240		167	339		ug/L		56	43 - 154
Xylenes, Total	33	U	333	316		ug/L		95	67 - 120
Chlorodibromomethane	17	U	167	170		ug/L		102	60 - 129

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		70 - 121
4-Bromofluorobenzene (Surr)	110		59 - 120
Toluene-d8 (Surr)	109		70 - 123
Dibromofluoromethane (Surr)	108		75 - 128

Lab Sample ID: 240-102783-12 MSD

Matrix: Water

Analysis Batch: 351197

Client Sample ID: GW-101018-AF-046

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	17	U	167	167		ug/L		100	51 - 138	0	27
1,1,2,2-Tetrachloroethane	17	U	167	160		ug/L		96	60 - 137	2	31

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 17302-T08, RACER Delphi Anderson

TestAmerica Job ID: 240-102783-2

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

Lab Sample ID: 240-102783-12 MSD

Matrix: Water

Analysis Batch: 351197

Client Sample ID: GW-101018-AF-046

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	17	U	167	169		ug/L		101	76 - 132	5	25
1,1-Dichloroethane	17	U	167	168		ug/L		101	63 - 136	3	23
1,1-Dichloroethene	17	U	167	137		ug/L		82	53 - 140	1	35
1,2-Dichloroethane	17	U	167	144		ug/L		86	65 - 135	4	24
1,2-Dichloropropane	17	U	167	158		ug/L		95	70 - 132	2	26
2-Hexanone	170	U	333	256		ug/L		77	42 - 150	2	35
Acetone	170	U	333	282		ug/L		84	10 - 168	3	35
Benzene	17	U	167	165		ug/L		99	71 - 122	2	22
Bromoform	17	U	167	163		ug/L		98	44 - 129	3	28
Bromomethane	17	U	167	95.3		ug/L		57	19 - 187	24	35
Carbon disulfide	17	U	167	144		ug/L		86	43 - 144	1	33
Carbon tetrachloride	17	U	167	170		ug/L		102	41 - 143	1	30
Chlorobenzene	17	U	167	161		ug/L		97	70 - 123	2	23
Chloroethane	17	U	167	110		ug/L		66	11 - 189	19	35
Chloroform	17	U	167	167		ug/L		100	68 - 130	3	23
Chloromethane	17	U	167	143		ug/L		86	31 - 154	20	35
cis-1,2-Dichloroethene	300		167	425		ug/L		76	64 - 130	1	21
cis-1,3-Dichloropropene	17	U	167	123		ug/L		74	48 - 127	1	30
Dichlorobromomethane	17	U	167	151		ug/L		90	64 - 125	1	27
Ethylbenzene	17	U	167	153		ug/L		92	66 - 120	3	24
m-Xylene & p-Xylene	33	U	167	157		ug/L		94	63 - 121	1	25
2-Butanone (MEK)	170	U	333	298		ug/L		89	37 - 156	0	35
4-Methyl-2-pentanone (MIBK)	170	U	333	238		ug/L		71	44 - 143	0	35
Methylene Chloride	83	U	167	179		ug/L		107	61 - 130	2	29
o-Xylene	17	U	167	154		ug/L		93	69 - 120	2	25
Styrene	17	U	167	157		ug/L		94	68 - 120	2	26
Tetrachloroethene	17	U	167	164		ug/L		98	51 - 136	0	23
Toluene	17	U	167	165		ug/L		99	62 - 132	2	23
trans-1,2-Dichloroethene	17	U	167	170		ug/L		102	68 - 133	3	24
trans-1,3-Dichloropropene	17	U	167	123		ug/L		74	40 - 125	2	27
Trichloroethene	17	U	167	150		ug/L		90	55 - 131	1	23
Vinyl chloride	240		167	335		ug/L		54	43 - 154	1	29
Xylenes, Total	33	U	333	311		ug/L		93	67 - 120	2	25
Chlorodibromomethane	17	U	167	167		ug/L		100	60 - 129	2	26

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		70 - 121
4-Bromofluorobenzene (Surr)	107		59 - 120
Toluene-d8 (Surr)	105		70 - 123
Dibromofluoromethane (Surr)	103		75 - 128

Lab Sample ID: MB 240-351439/6

Matrix: Water

Analysis Batch: 351439

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	0.24	ug/L			10/23/18 12:11	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/23/18 12:11	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 17302-T08, RACER Delphi Anderson

TestAmerica Job ID: 240-102783-2

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

Lab Sample ID: MB 240-351439/6

Matrix: Water

Analysis Batch: 351439

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	0.090	ug/L			10/23/18 12:11	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/23/18 12:11	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/23/18 12:11	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/23/18 12:11	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/23/18 12:11	1
2-Hexanone	10	U	10	0.54	ug/L			10/23/18 12:11	1
Acetone	10	U	10	5.4	ug/L			10/23/18 12:11	1
Benzene	1.0	U	1.0	0.13	ug/L			10/23/18 12:11	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/23/18 12:11	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/23/18 12:11	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/23/18 12:11	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/23/18 12:11	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/23/18 12:11	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/23/18 12:11	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/23/18 12:11	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/23/18 12:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/23/18 12:11	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/23/18 12:11	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			10/23/18 12:11	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/23/18 12:11	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			10/23/18 12:11	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			10/23/18 12:11	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/23/18 12:11	1
Styrene	1.0	U	1.0	0.10	ug/L			10/23/18 12:11	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/23/18 12:11	1
Toluene	1.0	U	1.0	0.14	ug/L			10/23/18 12:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/23/18 12:11	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/23/18 12:11	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/23/18 12:11	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			10/23/18 12:11	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/23/18 12:11	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			10/23/18 12:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 121		10/23/18 12:11	1
4-Bromofluorobenzene (Surr)	92		59 - 120		10/23/18 12:11	1
Toluene-d8 (Surr)	95		70 - 123		10/23/18 12:11	1
Dibromofluoromethane (Surr)	115		75 - 128		10/23/18 12:11	1

Lab Sample ID: LCS 240-351439/4

Matrix: Water

Analysis Batch: 351439

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	10.3		ug/L		103	69 - 134
1,1,2,2-Tetrachloroethane	10.0	9.84		ug/L		98	65 - 139
1,1,2-Trichloroethane	10.0	10.4		ug/L		104	78 - 133
1,1-Dichloroethane	10.0	10.2		ug/L		102	75 - 133

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 17302-T08, RACER Delphi Anderson

TestAmerica Job ID: 240-102783-2

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

Lab Sample ID: LCS 240-351439/4

Matrix: Water

Analysis Batch: 351439

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	8.42		ug/L		84	65 - 139
1,2-Dichloroethane	10.0	8.84		ug/L		88	71 - 135
1,2-Dichloropropane	10.0	10.2		ug/L		102	78 - 133
2-Hexanone	20.0	16.9		ug/L		84	43 - 148
Acetone	20.0	21.9		ug/L		109	21 - 162
Benzene	10.0	10.3		ug/L		103	80 - 123
Bromoform	10.0	9.94		ug/L		99	49 - 141
Bromomethane	10.0	5.30		ug/L		53	41 - 175
Carbon disulfide	10.0	8.23		ug/L		82	60 - 138
Carbon tetrachloride	10.0	10.7		ug/L		107	63 - 140
Chlorobenzene	10.0	10.0		ug/L		100	80 - 121
Chloroethane	10.0	6.41		ug/L		64	33 - 173
Chloroform	10.0	10.2		ug/L		102	79 - 127
Chloromethane	10.0	9.17		ug/L		92	54 - 143
cis-1,2-Dichloroethene	10.0	10.2		ug/L		102	76 - 128
cis-1,3-Dichloropropene	10.0	8.25		ug/L		83	64 - 132
Dichlorobromomethane	10.0	9.52		ug/L		95	77 - 125
Ethylbenzene	10.0	9.56		ug/L		96	80 - 120
m-Xylene & p-Xylene	10.0	9.69		ug/L		97	80 - 120
2-Butanone (MEK)	20.0	17.8		ug/L		89	39 - 163
4-Methyl-2-pentanone (MIBK)	20.0	14.7		ug/L		73	49 - 143
Methylene Chloride	10.0	10.4		ug/L		104	70 - 134
o-Xylene	10.0	9.65		ug/L		97	80 - 120
Styrene	10.0	9.67		ug/L		97	79 - 120
Tetrachloroethene	10.0	10.5		ug/L		105	74 - 130
Toluene	10.0	10.4		ug/L		104	78 - 129
trans-1,2-Dichloroethene	10.0	10.3		ug/L		103	78 - 133
trans-1,3-Dichloropropene	10.0	8.22		ug/L		82	55 - 128
Trichloroethene	10.0	9.62		ug/L		96	76 - 125
Vinyl chloride	10.0	7.60		ug/L		76	58 - 143
Xylenes, Total	20.0	19.3		ug/L		97	80 - 120
Chlorodibromomethane	10.0	10.1		ug/L		101	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 121
4-Bromofluorobenzene (Surr)	110		59 - 120
Toluene-d8 (Surr)	107		70 - 123
Dibromofluoromethane (Surr)	105		75 - 128

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QC Association Summary

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

TestAmerica Job ID: 240-102783-2

GC/MS VOA

Analysis Batch: 351197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-102783-9	GW-100918-AF-043	Total/NA	Water	8260B	
240-102783-15	GW-101018-AF-048	Total/NA	Water	8260B	
240-102783-16	GW-101018-AF-049	Total/NA	Water	8260B	

Lab Chronicle

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

TestAmerica Job ID: 240-102783-2

Client Sample ID: GW-100918-AF-043

Date Collected: 10/09/18 15:20

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	351197	10/22/18 15:36	LEE	TAL CAN

Client Sample ID: GW-101018-AF-048

Date Collected: 10/10/18 15:27

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	351197	10/22/18 17:47	LEE	TAL CAN

Client Sample ID: GW-101018-AF-049

Date Collected: 10/10/18 15:30

Date Received: 10/12/18 09:30

Lab Sample ID: 240-102783-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	351197	10/22/18 18:08	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: 240-102783-2

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	02-23-19 *
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-19
Illinois	NELAP	5	200004	07-31-19
Kansas	NELAP	7	E-10336	04-30-19
Kentucky (UST)	State Program	4	58	02-23-19 *
Kentucky (WW)	State Program	4	98016	12-31-19
Minnesota	NELAP	5	039-999-348	12-31-19 *
Minnesota (Petrofund)	State Program	1	3506	07-31-19
Nevada	State Program	9	OH00048	07-31-19
New Jersey	NELAP	2	OH001	06-30-19
New York	NELAP	2	10975	03-31-19 *
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-19 *
Pennsylvania	NELAP	3	68-00340	08-31-19 *
Texas	NELAP	6	T104704517-18-10	08-31-19
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-19
Washington	State Program	10	C971	01-12-20 *
West Virginia DEP	State Program	3	210	12-31-19

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

TestAmerica Canton



CONESTOGA-ROVERS
& ASSOCIATES

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: IN-14331
PAGE 2 OF 2

(See Reverse Side for Instructions)

Project No/Phase/Task Code: 017302-T08-2018		Laboratory Name: Test America NC		Lab Location: North Canyon, OH		SSOW ID: 17302-T08				
Project Name: MLK-Anderson, IN GW Sampling		Lab Contact: D. Heckles		Lab Quote No:		Cooler No: 1 of 1				
Project Location: Anderson, IN		CONTAINER QUANTITY & PRESERVATION		ANALYSIS REQUESTED (See Back of COC for Definitions)		Carrier: FedEx				
Chemistry Contact: D. Andraghio		SAMPLE TYPE		Total Containers/Sample		Airbill No:				
Sampler(s): A. Feldman		Matrix Code (see back of COC)		Other:		Date Shipped: 10/11/18				
Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yyyy)	TIME (hh:mm)	Unpreserved	Hydrochloric Acid (HCl)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil)	EnCores 3x5-g, 1x25-g	MS/MSD Request
1	GW-100918-AF-043	10/09/18	1530	WG	3				3	X
2	GW-100918-AF-044	10/09/18	1607		3				3	X
3	GW-100918-AF-045	10/10/18	1057		3				3	X
4	GW-101018-AF-046		1217		9				9	X
5	EB-101018-AF-005		1233	EB	3				3	X
6	GW-101018-AF-047		1351	WG	3				3	X
7	GW-101018-AF-048		1527		3				3	X
8	GW-101018-AF-049		1530		3				3	X
9	GW-101018-AF-050		1705		3				3	X
10	GW-101018-AF-051		1815		3				3	X
11	TB-101118-AF-006		1530		1				1	X
12										
13										
14										
15										

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☒ 2 Week ☐ Other:

RELINQUISHED BY: A. Feldman **DATE:** 10/11/18 **COMPANY:** GHD

RECEIVED BY: [Signature] **DATE:** 10/12/18 **COMPANY:** TAC

Total Number of Containers: 37
All Samples in Cooler must be on COC: 37

Comments/Special Instructions:

MS/MSD Request

SSOW ID: 17302-T08

Cooler No: 1 of 1

Carrier: FedEx

Date Shipped: 10/11/18

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 102783

Client GHD Site Name _____ Cooler unpacked by: DS
Cooler Received on 10/12/18 Opened on 10/12/18
FedEx: 1st Grd Yes UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____

Storage Location _____

TestAmerica Cooler # TA 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 +0.9 °C) Observed Cooler Temp. 0.8 °C Corrected Cooler Temp. 1.7 °C
IR GUN #36 (CF +0.6 °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 12-16 have been checked at the originating laboratory.

12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC849161

13. Were VOAs on the COC? Yes No

14. Were air bubbles >6 mm in any VOA vials? Yes No NA

15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Covered Yes No

16. 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 _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

JK

18. 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)

19. SAMPLE PRESERVATION

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

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

Appendix B

Data Quality Assessment and Validation Reports

Appendix B.1

April 2018 Data Validation Report



Memorandum

June 4, 2018

To: Rob Catallo

Ref. No.: 017302-T07

From: Deb Andrasko/mkd/62-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 2018**

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 MLK Boulevard Facility at the Anderson, Indiana site during April 2018. 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 criterion 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 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 method 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. All LCS recoveries were within laboratory control limits, demonstrating acceptable analytical accuracy.



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 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 2 trip blank samples, 3 equipment rinse blank samples, and 3 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 were either non-detect or had significantly greater concentrations and would not be impacted by the potential contamination.

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 cis-1,2-dichloroethene and trichloroethene. All associated samples with similar concentrations were qualified as non-detect (see Table 5).

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 noted herein.

Table 1

Sample Collection and Analysis Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
April 2018

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis	
					Volatiles	Comments
SW-040918-BE-001	Pond Intake	Surface water	04/09/2018	15:46	X	
SW-040918-BE-002	Pond North	Surface water	04/09/2018	16:20	X	
SW-040918-BE-003	Pond North	Surface water	04/09/2018	16:22	X	FD (SW-040918-BE-002)
EB-041018-BE-001	-	Water	04/10/2018	11:48	X	Equipment Blank
GW-041018-BE-005	MW 8	Groundwater	04/10/2018	16:03	X	
GW-041018-BE-004	MW 14	Groundwater	04/10/2018	15:02	X	
GW-041018-BE-006	MW 31R	Groundwater	04/10/2018	17:04	X	
GW-041018-BE-001	MW 51	Groundwater	04/10/2018	11:30	X	
GW-041018-BE-002	MW 51	Groundwater	04/10/2018	11:32	X	FD (GW-041018-BE-001)
GW-041018-BE-003	MW 79	Groundwater	04/10/2018	13:28	X	
EB-041118-BE-002	-	Water	04/11/2018	12:56	X	Equipment Blank
GW-041118-BE-007	MW 3	Groundwater	04/11/2018	09:58	X	
GW-041118-BE-009	MW 12	Groundwater	04/11/2018	12:49	X	
GW-041118-BE-010	MW 49	Groundwater	04/11/2018	14:42	X	
GW-041118-BE-011	MW 66	Groundwater	04/11/2018	16:13	X	
GW-041118-BE-008	MW 68	Groundwater	04/11/2018	10:58	X	MS/MSD
GW-041118-BE-012	MW89-11	Groundwater	04/11/2018	17:35	X	
GW-041218-BE-016	MW 28	Groundwater	04/12/2018	14:50	X	
GW-041218-BE-015	MW 85	Groundwater	04/12/2018	12:36	X	
GW-041218-BE-013	MW-4	Groundwater	04/12/2018	10:52	X	
GW-041218-BE-014	MW-4	Groundwater	04/12/2018	10:54	X	FD (GW-041218-BE-013)
TB-041218-BE-001	-	Water	04/12/2018	15:15	X	Trip Blank
EB-041318-BE-003	-	Water	04/13/2018	13:36	X	Equipment Blank
GW-041318-BE-017	MW 40	Groundwater	04/13/2018	11:27	X	MS/MSD
GW-041318-BE-018	MW 41	Groundwater	04/13/2018	12:28	X	
GW-041318-BE-019	MW 42	Groundwater	04/13/2018	13:19	X	
TB-041318-BE-002	-	Water	04/13/2018	14:10	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
April 2018

Location ID:	MW 3	MW 8	MW 12	MW 14	MW 28	MW 31R	MW 40	MW 41
Sample Name:	GW-041118-BE-007	GW-041018-BE-005	GW-041118-BE-009	GW-041018-BE-004	GW-041218-BE-016	GW-041018-BE-006	GW-041318-BE-017	GW-041318-BE-018
Sample Date:	04/11/2018	04/10/2018	04/11/2018	04/10/2018	04/12/2018	04/10/2018	04/13/2018	04/13/2018

Parameters	Unit							
Volatile Organic Compounds								
1,1,1-Trichloroethane	µg/L	350 J	200 U	6.7 U	200 U	50 U	1000 U	330 U
1,1,2,2-Tetrachloroethane	µg/L	500 U	200 U	6.7 U	200 U	50 U	1000 U	330 U
1,1,2-Trichloroethane	µg/L	500 U	200 U	6.7 U	200 U	50 U	1000 U	330 U
1,1-Dichloroethane	µg/L	180 J	200 U	6.7 U	200 U	50 U	320 J	170 J
1,1-Dichloroethene	µg/L	500 U	200 U	6.7 U	200 U	50 U	1000 U	330 U
1,2-Dichloroethane	µg/L	500 U	200 U	6.7 U	200 U	50 U	1000 U	330 U
1,2-Dichloropropane	µg/L	500 U	200 U	6.7 U	200 U	50 U	1000 U	330 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5000 U	2000 U	67 U	2000 U	500 U	10000 U	3300 U
2-Hexanone	µg/L	5000 U	2000 U	67 U	2000 U	500 U	10000 U	3300 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5000 U	2000 U	67 U	2000 U	500 U	10000 U	3300 U
Acetone	µg/L	5000 U	2000 U	67 U	2000 U	500 U	10000 U	3300 U
Benzene	µg/L	500 U	200 U	6.7 U	200 U	50 U	1000 U	330 U
Bromodichloromethane	µg/L	500 U	200 U	6.7 U	200 U	50 U	1000 U	330 U
Bromoform	µg/L	500 U	200 U	6.7 U	200 U	50 U	1000 U	330 U
Bromomethane (Methyl bromide)	µg/L	500 U	200 U	6.7 U	200 U	50 U	1000 U	330 U
Carbon disulfide	µg/L	500 U	200 U	6.7 U	200 U	50 U	1000 U	330 U
Carbon tetrachloride	µg/L	500 U	200 U	6.7 U	200 U	50 U	1000 U	330 U
Chlorobenzene	µg/L	500 U	200 U	6.7 U	200 U	50 U	1000 U	330 U
Chloroethane	µg/L	500 U	200 U	6.7 U	200 U	50 U	1000 U	330 U
Chloroform (Trichloromethane)	µg/L	500 U	200 U	6.7 U	200 U	50 U	1000 U	330 U
Chloromethane (Methyl chloride)	µg/L	500 U	200 U	6.7 U	200 U	50 U	1000 U	330 U
cis-1,2-Dichloroethene	µg/L	3200	3600	100	4000	970	20000	5800
cis-1,3-Dichloropropene	µg/L	500 U	200 U	6.7 U	200 U	50 U	1000 U	330 U
Dibromochloromethane	µg/L	500 U	200 U	6.7 U	200 U	50 U	1000 U	330 U
Ethylbenzene	µg/L	500 U	200 U	6.7 U	200 U	50 U	360 J	330 U
Methylene chloride	µg/L	500 U	200 U	6.7 U	200 U	50 U	1000 U	180 J
Styrene	µg/L	500 U	200 U	6.7 U	200 U	50 U	1000 U	330 U
Tetrachloroethene	µg/L	500 U	200 U	6.7 U	200 U	50 U	1000 U	330 U
Toluene	µg/L	500 U	200 U	6.7 U	200 U	50 U	1500	330 U
trans-1,2-Dichloroethene	µg/L	500 U	200 U	6.7 U	200 U	20 J	1000 U	330 U
trans-1,3-Dichloropropene	µg/L	500 U	200 U	6.7 U	200 U	50 U	1000 U	330 U
Trichloroethene	µg/L	7800	150 J	2.6 J	200 U	50 U	1000 U	340
Vinyl chloride	µg/L	500 U	620	6.7 U	110 J	170	1100	180 J
Xylenes (total)	µg/L	1000 U	400 U	13 U	400 U	100 U	1100 J	670 U

Table 2

Analytical Results Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust – MLK Boulevard Facility
Anderson, Indiana
April 2018

	Location ID:	MW 42	MW 49	MW 51	MW 51	MW 66	MW 68	MW 79	MW 85
	Sample Name:	GW-041318-BE-019	GW-041118-BE-010	GW-041018-BE-001	GW-041018-BE-002	GW-041118-BE-011	GW-041118-BE-008	GW-041018-BE-003	GW-041218-BE-015
	Sample Date:	04/13/2018	04/11/2018	04/10/2018	04/10/2018 Duplicate	04/11/2018	04/11/2018	04/10/2018	04/12/2018
Parameters	Unit								
Volatile Organic Compounds									
1,1,1-Trichloroethane	µg/L	200 U	50 U	3.3 U	3.3 U	200 U	200 U	100 U	500 U
1,1,2,2-Tetrachloroethane	µg/L	200 U	50 U	3.3 U	3.3 U	200 U	200 U	100 U	500 U
1,1,2-Trichloroethane	µg/L	200 U	50 U	3.3 U	3.3 U	200 U	200 U	100 U	500 U
1,1-Dichloroethane	µg/L	200 U	50 U	3.3 U	3.3 U	120 J	150 J	100 U	270 J
1,1-Dichloroethene	µg/L	200 U	50 U	3.3 U	3.3 U	200 U	200 U	100 U	500 U
1,2-Dichloroethane	µg/L	200 U	50 U	3.3 U	3.3 U	200 U	200 U	100 U	500 U
1,2-Dichloropropane	µg/L	200 U	50 U	3.3 U	3.3 U	200 U	200 U	100 U	500 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	2000 U	500 U	33 U	33 U	2000 U	2000 U	1000 U	5000 U
2-Hexanone	µg/L	2000 U	500 U	33 U	33 U	2000 U	2000 U	1000 U	5000 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	2000 U	500 U	33 U	33 U	2000 U	2000 U	1000 U	5000 U
Acetone	µg/L	2000 U	500 U	33 U	33 U	2000 U	2000 U	1000 U	5000 U
Benzene	µg/L	200 U	50 U	3.3 U	3.3 U	200 U	200 U	100 U	500 U
Bromodichloromethane	µg/L	200 U	50 U	3.3 U	3.3 U	200 U	200 U	100 U	500 U
Bromoform	µg/L	200 U	50 U	3.3 U	3.3 U	200 U	200 U	100 U	500 U
Bromomethane (Methyl bromide)	µg/L	200 U	50 U	3.3 U	3.3 U	200 U	200 U	100 U	500 U
Carbon disulfide	µg/L	200 U	50 U	3.3 U	3.3 U	200 U	200 U	100 U	500 U
Carbon tetrachloride	µg/L	200 U	50 U	3.3 U	3.3 U	200 U	200 U	100 U	500 U
Chlorobenzene	µg/L	200 U	50 U	3.3 U	3.3 U	200 U	200 U	100 U	500 U
Chloroethane	µg/L	200 U	50 U	3.3 U	3.3 U	200 U	200 U	100 U	500 U
Chloroform (Trichloromethane)	µg/L	200 U	50 U	3.3 U	3.3 U	200 U	200 U	100 U	500 U
Chloromethane (Methyl chloride)	µg/L	200 U	50 U	3.3 U	3.3 U	200 U	200 U	100 U	500 U
cis-1,2-Dichloroethene	µg/L	3900	890	32	34	2600	3700	3500	7300
cis-1,3-Dichloropropene	µg/L	200 U	50 U	3.3 U	3.3 U	200 U	200 U	100 U	500 U
Dibromochloromethane	µg/L	200 U	50 U	3.3 U	3.3 U	200 U	200 U	100 U	500 U
Ethylbenzene	µg/L	200 U	50 U	3.3 U	3.3 U	200 U	200 U	100 U	500 U
Methylene chloride	µg/L	200 U	50 U	6.8 U	5.4 U	200 U	200 U	370 U	500 U
Styrene	µg/L	200 U	50 U	3.3 U	3.3 U	200 U	200 U	100 U	500 U
Tetrachloroethene	µg/L	200 U	50 U	3.3 U	3.3 U	200 U	200 U	100 U	500 U
Toluene	µg/L	200 U	50 U	3.3 U	3.3 U	200 U	200 U	100 U	500 U
trans-1,2-Dichloroethene	µg/L	140 J	27 J	3.3 U	3.3 U	130 J	150 J	120	260 J
trans-1,3-Dichloropropene	µg/L	200 U	50 U	3.3 U	3.3 U	200 U	200 U	100 U	500 U
Trichloroethene	µg/L	200 U	50 U	87	97	200 U	1700	100 U	500 U
Vinyl chloride	µg/L	110 J	50 U	3.8	4.6	200 U	99 J	310	350 J
Xylenes (total)	µg/L	400 U	100 U	6.7 U	6.7 U	400 U	400 U	200 U	1000 U

Table 2

Analytical Results Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust – MLK Boulevard Facility
Anderson, Indiana
April 2018

	Location ID:	MW-4	MW-4	MW89-11	Pond Intake	Pond North	Pond North
	Sample Name:	GW-041218-BE-013	GW-041218-BE-014	GW-041118-BE-012	SW-040918-BE-001	SW-040918-BE-002	SW-040918-BE-003
	Sample Date:	04/12/2018	04/12/2018	04/11/2018	04/09/2018	04/09/2018	04/09/2018
			Duplicate				Duplicate
Parameters	Unit						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/L	500 U	500 U	0.66 J	5.0 U	11 U	10 U
1,1,2,2-Tetrachloroethane	µg/L	500 U	500 U	1.0 U	5.0 U	11 U	10 U
1,1,2-Trichloroethane	µg/L	500 U	500 U	1.0 U	5.0 U	11 U	10 U
1,1-Dichloroethane	µg/L	320 J	290 J	1.0 U	5.7	8.5 J	9.1 J
1,1-Dichloroethene	µg/L	500 U	500 U	1.0 U	5.0 U	11 U	10 U
1,2-Dichloroethane	µg/L	500 U	500 U	1.0 U	5.0 U	11 U	10 U
1,2-Dichloropropane	µg/L	500 U	500 U	1.0 U	5.0 U	11 U	10 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5000 U	5000 U	10 U	50 U	110 U	100 U
2-Hexanone	µg/L	5000 U	5000 U	10 U	50 U	110 U	100 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5000 U	5000 U	10 U	50 U	110 U	100 U
Acetone	µg/L	5000 U	5000 U	10 U	50 U	110 U	100 U
Benzene	µg/L	500 U	500 U	1.0 U	5.0 U	11 U	10 U
Bromodichloromethane	µg/L	500 U	500 U	1.0 U	5.0 U	11 U	10 U
Bromoform	µg/L	500 U	500 U	1.0 U	5.0 U	11 U	10 U
Bromomethane (Methyl bromide)	µg/L	500 U	500 U	1.0 U	5.0 U	11 U	10 U
Carbon disulfide	µg/L	500 U	500 U	1.0 U	5.0 U	11 U	10 U
Carbon tetrachloride	µg/L	500 U	500 U	1.0 U	5.0 U	11 U	10 U
Chlorobenzene	µg/L	500 U	500 U	1.0 U	5.0 U	11 U	10 U
Chloroethane	µg/L	500 U	500 U	1.0 U	5.0 U	11 U	10 U
Chloroform (Trichloromethane)	µg/L	500 U	500 U	1.0 U	5.0 U	11 U	10 U
Chloromethane (Methyl chloride)	µg/L	500 U	500 U	1.0 U	5.0 U	11 U	10 U
cis-1,2-Dichloroethene	µg/L	8800	8300	1.0 U	120	210	220
cis-1,3-Dichloropropene	µg/L	500 U	500 U	1.0 U	5.0 U	11 U	10 U
Dibromochloromethane	µg/L	500 U	500 U	1.0 U	5.0 U	11 U	10 U
Ethylbenzene	µg/L	500 U	500 U	1.0 U	5.0 U	11 U	10 U
Methylene chloride	µg/L	500 U	500 U	1.0 U	16 U	11 U	34 U
Styrene	µg/L	500 U	500 U	1.0 U	5.0 U	11 U	10 U
Tetrachloroethene	µg/L	500 U	500 U	1.0 U	5.0 U	11 U	10 U
Toluene	µg/L	500 U	500 U	1.0 U	5.0 U	11 U	10 U
trans-1,2-Dichloroethene	µg/L	210 J	220 J	1.0 U	4.6 J	7.1 J	8.7 J
trans-1,3-Dichloropropene	µg/L	500 U	500 U	1.0 U	5.0 U	11 U	10 U
Trichloroethene	µg/L	1300	1400	1.0 U	5.0 U	11 U	10 U
Vinyl chloride	µg/L	680	650	1.0 U	13	14	18
Xylenes (total)	µg/L	1000 U	1000 U	2.0 U	10 U	22 U	20 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 2018

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
April 2018

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Sample ID	Original Result	Qualified Result	Units
Volatiles	Methylene chloride	04/18/2018	5.0	SW-040918-BE-001	16	16 U	µg/l
			10	SW-040918-BE-003	34	34 U	µg/l
			3.3	GW-041018-BE-001	6.8	6.8 U	µg/l
			3.3	GW-041018-BE-002	5.4	5.4 U	µg/l
			100	GW-041018-BE-003	370	370 U	µg/l

Notes:

- * - Blank result adjusted for sample factors where applicable
- U - Not detected at the associated reporting limit

Table 5

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 2018

Parameter	Rinse Blank ID	Blank Date (dd/mm/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
Volatiles	EB-041118-BE-002	4/11/2018	cis-1,2-Dichloroethene	0.33 J	GW-041118-BE-012	0.54 J	1.0 U	µg/l
	EB-041118-BE-002	4/11/2018	Trichloroethene	1.5	GW-041118-BE-012	0.51 J	1.0 U	µg/l

Notes:

- J - Estimated concentration
U - Not detected at the associated reporting limit

Appendix B.2

July - December 2018 Data Validation Report



Memorandum

Revised: January 17, 2019
November 13, 2018

To: Rob Catallo *for Linda Waters* Ref. No.: 017302-T07

From: Linda Waters/mkd/64-NF Tel: 315-679-5792

cc: Tyler Wittmaier

**Subject: Analytical Results and Reduced Validation
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
July-December 2018**

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 MLK Boulevard Facility in Anderson, Indiana during July through December 2018. 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 and sample preservation requirements 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 2-Butanone present at a low concentration in one blank. All associated samples were non-detect and were not impacted by the laboratory contamination.

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 laboratory 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 compounds of interest. Some high VOC recoveries were reported. All associated results were non-detect and were not impacted by the indicated high bias.



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 a known concentration of the analyte 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 all compounds of interest. If only the MS or MSD recovery was outside of control limits, no qualification of the data was performed based on the recovery of the companion spike and the acceptable RPD. All percent recoveries and RPD values were within the laboratory control limits demonstrating acceptable analytical accuracy and precision with the following exceptions:

- i) High recoveries for 1,2-Dichloropropane and Chloromethane (Methyl Chloride) were observed. Associated results were non-detect, therefore not impacted by the potential high bias.
- ii) High recoveries for Vinyl Chloride were observed. The associated positive result was qualified as estimated (J) as shown in Table 4.

7. Field QA/QC Samples

The field QA/QC consisted of 8 trip blank samples, 5 rinse blank samples, and 5 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.

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 following exceptions:

- i) Low level concentrations of Carbon Disulfide were observed. Associated results were either non-detect or significantly greater than the blank result and considered not impacted by the potential contamination and, therefore, reported without qualification.
- ii) Trichloroethene and cis-1,2-Dichloroethene were present. Associated samples with similar concentrations were qualified as non-detect based on potential contamination (see Table 5).



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 for water samples. 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 for water.

All field duplicate results were within acceptable 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 noted herein.

Table 1

Sample Collection and Analysis Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
July-December 2018

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	<u>Analysis/Parameters</u>	
					TCL VOC	Comments
SW-070518-BE-002	Pond Intake	Surface water	07/05/2018	10:05	X	
SW-070518-BE-003	Pond Intake	Surface water	07/05/2018	10:12	X	
SW-070518-BE-001	Pond North	Surface water	07/05/2018	09:40	X	MS/MSD
TB-070518-BE-001	-	Water	07/05/2018	-	X	Trip Blank
GW-100218-AF-002	MW 8	Groundwater	10/02/2018	11:40	X	
GW-100218-AF-008	MW 15	Groundwater	10/02/2018	16:00	X	
GW-100218-AF-004	MW 31R	Groundwater	10/02/2018	13:40	X	
GW-100218-AF-006	MW 31R	Groundwater	10/02/2018	13:45	X	FD (GW-100218-AF-004)
GW-100218-BE-005	MW 68	Groundwater	10/02/2018	13:40	X	
GW-100218-BE-003	MW 75	Groundwater	10/02/2018	12:30	X	
GW-100218-BE-001	MW 76R-17	Groundwater	10/02/2018	11:08	X	
GW-100218-BE-007	MW 79	Groundwater	10/02/2018	14:57	X	
GW-100218-BE-009	MW 80	Groundwater	10/02/2018	16:47	X	MS/MSD
TB-100218-AF-002	-	Water	10/02/2018	-	X	Trip Blank
TB-100218-BE-001	-	Water	10/02/2018	-	X	Trip Blank
EB-100318-BE-001	-	Water	10/03/2018	16:15	X	Equipment Blank
GW-100318-AF-010	MW 3	Groundwater	10/03/2018	10:30	X	MS/MSD
GW-100318-AF-014	MW 14	Groundwater	10/03/2018	14:37	X	
GW-100318-AF-016	MW 16	Groundwater	10/03/2018	15:37	X	MS/MSD
GW-100318-AF-012	MW 21	Groundwater	10/03/2018	13:00	X	
GW-100318-BE-013	MW 40	Groundwater	10/03/2018	11:26	X	
GW-100318-BE-011	MW 49	Groundwater	10/03/2018	10:18	X	
GW-100318-BE-017	MW 64	Groundwater	10/03/2018	14:53	X	
GW-100318-BE-019	MW 64	Groundwater	10/03/2018	14:56	X	FD (GW-100318-BE-017)
GW-100318-BE-015	MW 66	Groundwater	10/03/2018	13:18	X	
TB-100318-AF-003	-	Water	10/03/2018	-	X	Trip Blank
EB-100418-AF-002	-	Water	10/04/2018	11:17	X	Equipment Blank
GW-100418-BE-029	MW 12	Groundwater	10/04/2018	14:22	X	
GW-100418-AF-020	MW 28	Groundwater	10/04/2018	12:10	X	
GW-100418-AF-022	MW 28	Groundwater	10/04/2018	12:13	X	FD (GW-100418-AF-020)

Table 1

Sample Collection and Analysis Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
July-December 2018

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	<u>Analysis/Parameters</u>	
					TCL VOC	Comments
GW-100418-AF-024	MW 41	Groundwater	10/04/2018	14:03	X	MS/MSD
GW-100418-AF-026	MW 42	Groundwater	10/04/2018	14:44	X	
GW-100418-BE-031	MW 51	Groundwater	10/04/2018	15:37	X	
GW-100418-AF-018	MW 61	Groundwater	10/04/2018	11:03	X	
GW-100418-AF-028	MW 65	Groundwater	10/04/2018	16:00	X	
GW-100418-BE-027	MW 84	Groundwater	10/04/2018	12:18	X	FD (GW-100418-BE-021)
GW-100418-BE-025	MW 86	Groundwater	10/04/2018	11:22	X	
GW-100418-BE-021	MW 88	Groundwater	10/04/2018	10:33	X	
GW-100418-BE-023	MW 88	Groundwater	10/04/2018	10:38	X	
GW-100518-BE-033	MW 37	Groundwater	10/05/2018	09:31	X	
GW-100518-AF-030	MW 46	Groundwater	10/05/2018	09:31	X	MS/MSD Equipment Blank MS/MSD
GW-100518-AF-032	MW 56	Groundwater	10/05/2018	11:03	X	
EB-100818-AF-003	-	Water	10/08/2018	15:30	X	
GW-100818-BE-037	MW 57	Groundwater	10/08/2018	13:59	X	
GW-100818-BE-036	MW 58	Groundwater	10/08/2018	13:00	X	
GW-100818-BE-038	MW 85	Groundwater	10/08/2018	15:20	X	MS/MSD
GW-100818-BE-034	MW-2	Groundwater	10/08/2018	11:11	X	
GW-100818-BE-035	MW-4	Groundwater	10/08/2018	12:09	X	
GW-100818-BE-039	MW89-11	Groundwater	10/08/2018	17:08	X	
TB-100818-AF-004	-	Water	10/08/2018	-	X	
EB-100918-BE-004	-	Water	10/09/2018	14:15	X	Trip Blank Equipment Blank
GW-100918-BE-041	MW-7	Groundwater	10/09/2018	12:22	X	
GW-100918-BE-042	MW-7	Groundwater	10/09/2018	12:25	X	
GW-100918-BE-040	MW97R-16	Groundwater	10/09/2018	10:10	X	
SW-100918-BE-001	Pond Intake	Surface water	10/09/2018	10:40	X	
SW-100918-BE-002	Pond North	Surface water	10/09/2018	10:50	X	Trip Blank Equipment Blank
SW-100918-BE-003	Pond North	Surface water	10/09/2018	10:55	X	
TB-100918-BE-005	-	Water	10/09/2018	-	X	
EB-101018-AF-005	-	Water	10/10/2018	12:33	X	
GW-100918-AF-043	MW 81	Groundwater	10/09/2018	15:20	X	

Table 1

**Sample Collection and Analysis Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
July-December 2018**

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	<u>Analysis/Parameters</u>	
					TCL VOC	Comments
GW-101018-AF-048	MW 82	Groundwater	10/10/2018	15:27	X	FD (GW-101018-AF-048) Trip Blank
GW-101018-AF-049	MW 82	Groundwater	10/10/2018	15:30	X	
TB-101118-AF-006	-	Water	10/11/2018	-	X	
GW-121318-BE-001	MW 83	Groundwater	12/13/2018	12:53	X	Trip Blank
TRIP BLANK	-	Water	12/13/2018	-	X	

Notes:

FD - Field Duplicate sample of sample in parenthesis
 MS/MSD - Matrix Spike/Matrix Spike Duplicate
 VOC - Volatile Organic Compounds
 TCL - Target Compound list

Table 2

Analytical Results Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
July-October 2018

	Location ID:	MW 3	MW 8	MW 12	MW 14	MW 15	MW 16
	Sample Name:	GW-100318-AF-010	GW-100218-AF-002	GW-100418-BE-029	GW-100318-AF-014	GW-100218-AF-008	GW-100318-AF-016
	Sample Date:	10/03/2018	10/02/2018	10/04/2018	10/03/2018	10/02/2018	10/03/2018
Parameters	Unit						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/L	340	100 U	5.0 U	200 U	230	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	250 U	100 U	5.0 U	200 U	200 U	5.0 U
1,1,2-Trichloroethane	µg/L	250 U	100 U	5.0 U	200 U	200 U	5.0 U
1,1-Dichloroethane	µg/L	200 J	31 J	5.0 U	200 U	130 J	5.0 U
1,1-Dichloroethene	µg/L	68 J	100 U	5.0 U	200 U	49 J	5.0 U
1,2-Dichloroethane	µg/L	250 U	100 U	5.0 U	200 U	200 U	5.0 U
1,2-Dichloropropane	µg/L	250 U	100 U	5.0 U	200 U	200 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	2500 U	1000 U	50 U	380 J	2000 U	50 U
2-Hexanone	µg/L	2500 U	1000 U	50 U	2000 U	2000 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	2500 U	1000 U	50 U	2000 U	2000 U	50 U
Acetone	µg/L	2500 U	1000 U	50 U	2000 U	2000 U	50 U
Benzene	µg/L	250 U	100 U	5.0 U	200 U	200 U	5.0 U
Bromodichloromethane	µg/L	250 U	100 U	5.0 U	200 U	200 U	5.0 U
Bromoform	µg/L	250 U	100 U	5.0 U	200 U	200 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	250 U	100 U	5.0 U	200 U	200 U	5.0 U
Carbon disulfide	µg/L	250 U	100 U	5.0 U	200 U	200 U	5.0 U
Carbon tetrachloride	µg/L	250 U	100 U	5.0 U	200 U	200 U	5.0 U
Chlorobenzene	µg/L	250 U	100 U	5.0 U	200 U	200 U	5.0 U
Chloroethane	µg/L	250 U	100 U	5.0 U	200 U	200 U	5.0 U
Chloroform (Trichloromethane)	µg/L	250 U	100 U	5.0 U	200 U	200 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	250 U	100 U	5.0 U	200 U	200 U	5.0 U
cis-1,2-Dichloroethene	µg/L	4800	2200	80	4100	5400	5.0 U
cis-1,3-Dichloropropene	µg/L	250 U	100 U	5.0 U	200 U	200 U	5.0 U
Dibromochloromethane	µg/L	250 U	100 U	5.0 U	200 U	200 U	5.0 U
Ethylbenzene	µg/L	250 U	100 U	5.0 U	200 U	200 U	5.0 U
Methylene chloride	µg/L	1300 U	500 U	25 U	1000 U	1000 U	25 U
Styrene	µg/L	250 U	100 U	5.0 U	200 U	200 U	5.0 U
Tetrachloroethene	µg/L	250 U	100 U	5.0 U	200 U	200 U	5.0 U
Toluene	µg/L	250 U	100 U	5.0 U	200 U	200 U	5.0 U
trans-1,2-Dichloroethene	µg/L	250 U	100 U	5.0 U	200 U	56 J	5.0 U
trans-1,3-Dichloropropene	µg/L	250 U	100 U	5.0 U	200 U	200 U	5.0 U
Trichloroethene	µg/L	8500	170	5.0 U	200 U	3700	5.0 U
Vinyl chloride	µg/L	250 U	640	5.0 U	130 J	63 J	220
Xylenes (total)	µg/L	500 U	200 U	10 U	400 U	400 U	10 U

Table 2

Analytical Results Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
July-October 2018

	Location ID:	MW 21	MW 28	MW 28	MW 31R	MW 31R	MW 37
	Sample Name:	GW-100318-AF-012	GW-100418-AF-020	GW-100418-AF-022	GW-100218-AF-004	GW-100218-AF-006	GW-100518-BE-033
	Sample Date:	10/03/2018	10/04/2018	10/04/2018 Duplicate	10/02/2018	10/02/2018 Duplicate	10/05/2018
Parameters	Unit						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/L	1.0 U	67 U	67 U	1000 U	1000 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	67 U	67 U	1000 U	1000 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	67 U	67 U	1000 U	1000 U	1.0 U
1,1-Dichloroethane	µg/L	0.19 J	67 U	67 U	670 J	620 J	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	67 U	67 U	1000 U	1000 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	67 U	67 U	1000 U	1000 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	67 U	67 U	1000 U	1000 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	670 U	670 U	10000 U	10000 U	10 U
2-Hexanone	µg/L	10 U	670 U	670 U	10000 U	10000 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	670 U	670 U	10000 U	10000 U	10 U
Acetone	µg/L	10 U	670 U	670 U	10000 U	10000 U	10 U
Benzene	µg/L	1.0 U	67 U	67 U	1000 U	1000 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	67 U	67 U	1000 U	1000 U	1.0 U
Bromoform	µg/L	1.0 U	67 U	67 U	1000 U	1000 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	67 U	67 U	1000 U	1000 U	1.0 U
Carbon disulfide	µg/L	1.0 U	67 U	67 U	1000 U	1000 U	1.0 U
Carbon tetrachloride	µg/L	1.0 U	67 U	67 U	1000 U	1000 U	1.0 U
Chlorobenzene	µg/L	1.0 U	67 U	67 U	1000 U	1000 U	1.0 U
Chloroethane	µg/L	1.0 U	67 U	67 U	1000 U	1000 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	67 U	67 U	1000 U	1000 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	67 U	67 U	1000 U	1000 U	1.0 U
cis-1,2-Dichloroethene	µg/L	0.46 J	1000	1000	33000	32000	1.0 U
cis-1,3-Dichloropropene	µg/L	1.0 U	67 U	67 U	1000 U	1000 U	1.0 U
Dibromochloromethane	µg/L	1.0 U	67 U	67 U	1000 U	1000 U	1.0 U
Ethylbenzene	µg/L	1.0 U	67 U	67 U	650 J	590 J	1.0 U
Methylene chloride	µg/L	5.0 U	330 U	330 U	5000 U	5000 U	5.0 U
Styrene	µg/L	1.0 U	67 U	67 U	1000 U	1000 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	67 U	67 U	1000 U	1000 U	1.0 U
Toluene	µg/L	1.0 U	67 U	67 U	2600	2400	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	19 J	24 J	1000 U	1000 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	67 U	67 U	1000 U	1000 U	1.0 U
Trichloroethene	µg/L	1.3	67 U	67 U	1000 U	1000 U	1.0 U
Vinyl chloride	µg/L	1.0 U	150	160	2400	2100	1.0 U
Xylenes (total)	µg/L	2.0 U	130 U	130 U	1700 J	1500 J	2.0 U

Table 2

Analytical Results Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
July-October 2018

	Location ID:	MW 40	MW 41	MW 42	MW 46	MW 49	MW 51
	Sample Name:	GW-100318-BE-013	GW-100418-AF-024	GW-100418-AF-026	GW-100518-AF-030	GW-100318-BE-011	GW-100418-BE-031
	Sample Date:	10/03/2018	10/04/2018	10/04/2018	10/05/2018	10/03/2018	10/04/2018
Parameters	Unit						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/L	200 U	330 U	200 U	1.0 U	40 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	200 U	330 U	200 U	1.0 U	40 U	5.0 U
1,1,2-Trichloroethane	µg/L	200 U	330 U	200 U	1.0 U	40 U	5.0 U
1,1-Dichloroethane	µg/L	160 J	330 U	200 U	1.0 U	40 U	5.0 U
1,1-Dichloroethene	µg/L	200 U	330 U	200 U	1.0 U	40 U	5.0 U
1,2-Dichloroethane	µg/L	200 U	330 U	200 U	1.0 U	40 U	5.0 U
1,2-Dichloropropane	µg/L	200 U	330 U	200 U	1.0 U	40 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	490 J	3300 U	2000 U	10 U	400 U	50 U
2-Hexanone	µg/L	2000 U	3300 U	2000 U	10 U	400 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	2000 U	3300 U	2000 U	10 U	400 U	50 U
Acetone	µg/L	2000 U	3300 U	2000 U	10 U	400 U	50 U
Benzene	µg/L	200 U	330 U	200 U	1.0 U	40 U	5.0 U
Bromodichloromethane	µg/L	200 U	330 U	200 U	1.0 U	40 U	5.0 U
Bromoform	µg/L	200 U	330 U	200 U	1.0 U	40 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	200 U	330 U	200 U	1.0 U	40 U	5.0 U
Carbon disulfide	µg/L	200 U	330 U	200 U	1.0 U	40 U	5.0 U
Carbon tetrachloride	µg/L	200 U	330 U	200 U	1.0 U	40 U	5.0 U
Chlorobenzene	µg/L	200 U	330 U	200 U	1.0 U	40 U	5.0 U
Chloroethane	µg/L	200 U	330 U	200 U	1.0 U	40 U	5.0 U
Chloroform (Trichloromethane)	µg/L	200 U	330 U	200 U	1.0 U	40 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	200 U	330 U	200 U	1.0 U	40 U	5.0 U
cis-1,2-Dichloroethene	µg/L	5400	4800	3500	1.0 U	890	79
cis-1,3-Dichloropropene	µg/L	200 U	330 U	200 U	1.0 U	40 U	5.0 U
Dibromochloromethane	µg/L	200 U	330 U	200 U	1.0 U	40 U	5.0 U
Ethylbenzene	µg/L	200 U	330 U	200 U	1.0 U	40 U	5.0 U
Methylene chloride	µg/L	1000 U	1700 U	1000 U	5.0 U	200 U	25 U
Styrene	µg/L	200 U	330 U	200 U	1.0 U	40 U	5.0 U
Tetrachloroethene	µg/L	200 U	330 U	200 U	1.0 U	40 U	5.0 U
Toluene	µg/L	200 U	330 U	200 U	1.0 U	40 U	5.0 U
trans-1,2-Dichloroethene	µg/L	78 J	75 J	150 J	1.0 U	29 J	5.0 U
trans-1,3-Dichloropropene	µg/L	200 U	330 U	200 U	1.0 U	40 U	5.0 U
Trichloroethene	µg/L	280	330 U	200 U	0.15 J	47	64
Vinyl chloride	µg/L	220	210 J	200 U	1.0 U	40 U	3.5 J
Xylenes (total)	µg/L	400 U	670 U	400 U	2.0 U	80 U	10 U

Table 2

Analytical Results Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
July-October 2018

Location ID:	MW 56	MW 57	MW 58	MW 61	MW 64	MW 64
Sample Name:	GW-100518-AF-032	GW-100818-BE-037	GW-100818-BE-036	GW-100418-AF-018	GW-100318-BE-017	GW-100318-BE-019
Sample Date:	10/05/2018	10/08/2018	10/08/2018	10/04/2018	10/03/2018	10/03/2018
						Duplicate
Parameters	Unit					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	200 U	1.0 U	10 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	200 U	1.0 U	10 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	200 U	1.0 U	10 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	97 J	1.0 U	14
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	200 U	1.0 U	10 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	200 U	1.0 U	10 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	200 U	1.0 U	10 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	2000 U	10 U	18 J
2-Hexanone	µg/L	10 U	10 U	2000 U	10 U	100 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	2000 U	10 U	100 U
Acetone	µg/L	10 U	10 U	2000 U	10 U	100 U
Benzene	µg/L	1.0 U	1.0 U	200 U	1.0 U	10 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	200 U	1.0 U	10 U
Bromoform	µg/L	1.0 U	1.0 U	200 U	1.0 U	10 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	200 U	1.0 U	10 U
Carbon disulfide	µg/L	1.0 U	0.43 J	200 U	1.0 U	10 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	200 U	1.0 U	10 U
Chlorobenzene	µg/L	1.0 U	1.0 U	200 U	1.0 U	10 U
Chloroethane	µg/L	1.0 U	1.0 U	200 U	1.0 U	10 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	200 U	1.0 U	10 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	200 U	1.0 U	10 U
cis-1,2-Dichloroethene	µg/L	1.0 U	8.2 U	3000	1.0 U	210
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	200 U	1.0 U	10 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	200 U	1.0 U	10 U
Ethylbenzene	µg/L	1.0 U	1.0 U	200 U	1.0 U	10 U
Methylene chloride	µg/L	5.0 U	5.0 U	1000 U	5.0 U	50 U
Styrene	µg/L	1.0 U	1.0 U	200 U	1.0 U	10 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	200 U	1.0 U	10 U
Toluene	µg/L	1.0 U	1.0 U	200 U	1.0 U	10 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	130 J	1.0 U	23
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	200 U	1.0 U	10 U
Trichloroethene	µg/L	1.0 U	1.0 U	200 U	1.0 U	10 U
Vinyl chloride	µg/L	1.0 U	20	64 J	1.3	83
Xylenes (total)	µg/L	2.0 U	2.0 U	400 U	2.0 U	20 U

Table 2

Analytical Results Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
July-October 2018

	Location ID:	MW 65	MW 66	MW 68	MW 75	MW 76R-17	MW 79
	Sample Name:	GW-100418-AF-028	GW-100318-BE-015	GW-100218-BE-005	GW-100218-BE-003	GW-100218-BE-001	GW-100218-BE-007
	Sample Date:	10/04/2018	10/03/2018	10/02/2018	10/02/2018	10/02/2018	10/02/2018
Parameters	Unit						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/L	1.0 U	200 U	200 U	1.0 U	1.0 U	100 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	200 U	200 U	1.0 U	1.0 U	100 U
1,1,2-Trichloroethane	µg/L	1.0 U	200 U	200 U	1.0 U	1.0 U	100 U
1,1-Dichloroethane	µg/L	0.92 J	160 J	160 J	1.0 U	1.0 U	100 U
1,1-Dichloroethene	µg/L	1.0 U	200 U	200 U	1.0 U	1.0 U	100 U
1,2-Dichloroethane	µg/L	1.0 U	200 U	200 U	1.0 U	1.0 U	100 U
1,2-Dichloropropane	µg/L	1.0 U	200 U	200 U	1.0 U	1.0 U	100 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	2000 U	2000 U	10 U	10 U	1000 U
2-Hexanone	µg/L	10 U	2000 U	2000 U	10 U	10 U	1000 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	2000 U	2000 U	10 U	10 U	1000 U
Acetone	µg/L	10 U	2000 U	2000 U	10 U	10 U	1000 U
Benzene	µg/L	1.0 U	200 U	200 U	1.0 U	1.0 U	100 U
Bromodichloromethane	µg/L	1.0 U	200 U	200 U	1.0 U	1.0 U	100 U
Bromoform	µg/L	1.0 U	200 U	200 U	1.0 U	1.0 U	100 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	200 U	200 U	1.0 U	1.0 U	100 U
Carbon disulfide	µg/L	1.0 U	200 U	200 U	1.0 U	1.0 U	100 U
Carbon tetrachloride	µg/L	1.0 U	200 U	200 U	1.0 U	1.0 U	100 U
Chlorobenzene	µg/L	1.0 U	200 U	200 U	1.0 U	1.0 U	100 U
Chloroethane	µg/L	1.0 U	200 U	200 U	1.0 U	1.0 U	100 U
Chloroform (Trichloromethane)	µg/L	0.53 J	200 U	200 U	1.0 U	1.0 U	100 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	200 U	200 U	1.0 U	1.0 U	100 U
cis-1,2-Dichloroethene	µg/L	15	3400	4400	1.0 U	2.8	2400
cis-1,3-Dichloropropene	µg/L	1.0 U	200 U	200 U	1.0 U	1.0 U	100 U
Dibromochloromethane	µg/L	1.0 U	200 U	200 U	1.0 U	1.0 U	100 U
Ethylbenzene	µg/L	1.0 U	200 U	200 U	1.0 U	1.0 U	100 U
Methylene chloride	µg/L	5.0 U	1000 U	1000 U	5.0 U	5.0 U	500 U
Styrene	µg/L	1.0 U	200 U	200 U	1.0 U	1.0 U	100 U
Tetrachloroethene	µg/L	1.0 U	200 U	200 U	1.0 U	1.0 U	100 U
Toluene	µg/L	1.0 U	200 U	200 U	1.0 U	1.0 U	100 U
trans-1,2-Dichloroethene	µg/L	0.69 J	180 J	170 J	1.0 U	1.0 U	84 J
trans-1,3-Dichloropropene	µg/L	1.0 U	200 U	200 U	1.0 U	1.0 U	100 U
Trichloroethene	µg/L	0.27 J	200 U	1400	1.0 U	1.0 U	100 U
Vinyl chloride	µg/L	0.74 J	200 U	110 J	1.0 U	1.0 U	310
Xylenes (total)	µg/L	2.0 U	400 U	400 U	2.0 U	2.0 U	200 U

Table 2

Analytical Results Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
July-October 2018

	Location ID:	MW 80	MW 81	MW 82	MW 82	MW 83	MW 84
	Sample Name:	GW-100218-BE-009	GW-100918-AF-043	GW-101018-AF-048	GW-101018-AF-049	GW-121318-BE-001	GW-100418-BE-027
	Sample Date:	10/02/2018	10/09/2018	10/10/2018	10/10/2018 Duplicate	12/13/2018	10/04/2018
Parameters	Unit						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/L	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	2.0 U	1.2 J	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	20 U	40 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	20 U	40 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	20 U	40 U	10 U	10 U	10 U	10 U
Acetone	µg/L	20 U	40 U	10 U	10 U	10 U	10 U
Benzene	µg/L	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	15	78	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	µg/L	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	10 U	20 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 J	1.0 J	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	2.0 U	4.0 U	0.12 J	0.14 J	1.0 U	1.0 U
Vinyl chloride	µg/L	51	27	1.0 U	1.0 U	12	1.0 U
Xylenes (total)	µg/L	4.0 U	8.0 U	2.0 U	2.0 U	2.0 U	2.0 U

Table 2

Analytical Results Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
July-October 2018

	Location ID:	MW 85	MW 86	MW 88	MW 88	MW-2	MW-4
	Sample Name:	GW-100818-BE-038	GW-100418-BE-025	GW-100418-BE-021	GW-100418-BE-023	GW-100818-BE-034	GW-100818-BE-035
	Sample Date:	10/08/2018	10/04/2018	10/04/2018	10/04/2018 Duplicate	10/08/2018	10/08/2018
Parameters	Unit						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/L	500 U	1.0 U	1.0 U	1.0 U	1.0 U	500 U
1,1,2,2-Tetrachloroethane	µg/L	500 U	1.0 U	1.0 U	1.0 U	1.0 U	500 U
1,1,2-Trichloroethane	µg/L	500 U	1.0 U	1.0 U	1.0 U	1.0 U	500 U
1,1-Dichloroethane	µg/L	300 J	1.0 U	1.0 U	1.0 U	1.0 U	330 J
1,1-Dichloroethene	µg/L	500 U	1.0 U	1.0 U	1.0 U	1.0 U	500 U
1,2-Dichloroethane	µg/L	500 U	1.0 U	1.0 U	1.0 U	1.0 U	500 U
1,2-Dichloropropane	µg/L	500 U	1.0 U	1.0 U	1.0 U	1.0 U	500 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5000 U	10 U	10 U	10 U	10 U	5000 U
2-Hexanone	µg/L	5000 U	10 U	10 U	10 U	10 U	5000 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5000 U	10 U	10 U	10 U	10 U	5000 U
Acetone	µg/L	5000 U	10 U	10 U	10 U	10 U	5000 U
Benzene	µg/L	500 U	1.0 U	1.0 U	1.0 U	1.0 U	500 U
Bromodichloromethane	µg/L	500 U	1.0 U	1.0 U	1.0 U	1.0 U	500 U
Bromoform	µg/L	500 U	1.0 U	1.0 U	1.0 U	1.0 U	500 U
Bromomethane (Methyl bromide)	µg/L	500 U	1.0 U	1.0 U	1.0 U	1.0 U	500 U
Carbon disulfide	µg/L	500 U	1.0 U	1.0 U	1.0 U	1.0 U	500 U
Carbon tetrachloride	µg/L	500 U	1.0 U	1.0 U	1.0 U	1.0 U	500 U
Chlorobenzene	µg/L	500 U	1.0 U	1.0 U	1.0 U	1.0 U	500 U
Chloroethane	µg/L	500 U	1.0 U	1.0 U	1.0 U	1.0 U	500 U
Chloroform (Trichloromethane)	µg/L	500 U	1.0 U	1.0 U	1.0 U	1.0 U	500 U
Chloromethane (Methyl chloride)	µg/L	500 U	1.0 U	1.0 U	1.0 U	1.0 U	500 U
cis-1,2-Dichloroethene	µg/L	8000	1.0 U	1.0 U	1.0 U	1.0 U	8900
cis-1,3-Dichloropropene	µg/L	500 U	1.0 U	1.0 U	1.0 U	1.0 U	500 U
Dibromochloromethane	µg/L	500 U	1.0 U	1.0 U	1.0 U	1.0 U	500 U
Ethylbenzene	µg/L	500 U	1.0 U	1.0 U	1.0 U	1.0 U	500 U
Methylene chloride	µg/L	2500 U	5.0 U	5.0 U	5.0 U	5.0 U	2500 U
Styrene	µg/L	500 U	1.0 U	1.0 U	1.0 U	1.0 U	500 U
Tetrachloroethene	µg/L	500 U	1.0 U	1.0 U	1.0 U	1.0 U	500 U
Toluene	µg/L	500 U	1.0 U	1.0 U	1.0 U	1.0 U	500 U
trans-1,2-Dichloroethene	µg/L	280 J	1.0 U	1.0 U	1.0 U	1.0 U	200 J
trans-1,3-Dichloropropene	µg/L	500 U	1.0 U	1.0 U	1.0 U	1.0 U	500 U
Trichloroethene	µg/L	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1600
Vinyl chloride	µg/L	680	1.0 U	2.4	2.3	1.0 U	680
Xylenes (total)	µg/L	1000 U	2.0 U	2.0 U	2.0 U	2.0 U	1000 U

Table 2

Analytical Results Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
July-October 2018

	Location ID:	MW-7	MW-7	MW89-11	MW97R-16	Pond Intake	Pond Intake
	Sample Name:	GW-100918-BE-041	GW-100918-BE-042	GW-100818-BE-039	GW-100918-BE-040	SW-070518-BE-002	SW-070518-BE-003
	Sample Date:	10/09/2018	10/09/2018 Duplicate	10/08/2018	10/09/2018	07/05/2018	07/05/2018
Parameters	Unit						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	2.9	1.0 U	3.3 U	3.3 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	3.3 U	3.3 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	3.3 U	3.3 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	3.9	3.8
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	0.23 J	1.0 U	3.3 U	3.3 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	3.3 U	3.3 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	3.3 U	3.3 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	33 U	33 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	33 U	33 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	33 U	33 U
Acetone	µg/L	10 U	10 U	10 U	10 U	33 U	33 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	3.3 U	3.3 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	3.3 U	3.3 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	3.3 U	3.3 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	3.3 U	3.3 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	3.3 U	3.3 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	3.3 U	3.3 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	3.3 U	3.3 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	3.3 U	3.3 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	3.3 U	3.3 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	3.3 U	3.3 U
cis-1,2-Dichloroethene	µg/L	0.18 J	1.0 U	1.0 U	1.0 U	77	72
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	3.3 U	3.3 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	3.3 U	3.3 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	3.3 U	3.3 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	17 U	17 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	3.3 U	3.3 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	3.3 U	3.3 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	3.3 U	3.3 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.9 J	1.7 J
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	3.3 U	3.3 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	3.3 U	3.3 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	7.6	7.3
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	6.7 U	6.7 U

Table 2

Analytical Results Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
July-October 2018

Location ID: Sample Name: Sample Date:		Pond Intake SW-100918-BE-001 10/09/2018	Pond North SW-070518-BE-001 07/05/2018	Pond North SW-100918-BE-002 10/09/2018	Pond North SW-100918-BE-003 10/09/2018 Duplicate
Parameters	Unit				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	5.0 U	6.3 U	6.7 U	6.7 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	6.3 U	6.7 U	6.7 U
1,1,2-Trichloroethane	µg/L	5.0 U	6.3 U	6.7 U	6.7 U
1,1-Dichloroethane	µg/L	5.1	13	6.2 J	6.6 J
1,1-Dichloroethene	µg/L	5.0 U	6.3 U	6.7 U	6.7 U
1,2-Dichloroethane	µg/L	5.0 U	6.3 U	6.7 U	6.7 U
1,2-Dichloropropane	µg/L	5.0 U	6.3 U	6.7 U	6.7 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	50 U	63 U	67 U	67 U
2-Hexanone	µg/L	50 U	63 U	67 U	67 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	50 U	63 U	67 U	67 U
Acetone	µg/L	50 U	63 U	67 U	67 U
Benzene	µg/L	5.0 U	6.3 U	6.7 U	6.7 U
Bromodichloromethane	µg/L	5.0 U	6.3 U	6.7 U	6.7 U
Bromoform	µg/L	5.0 U	6.3 U	6.7 U	6.7 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	6.3 U	6.7 U	6.7 U
Carbon disulfide	µg/L	5.0 U	6.3 U	6.7 U	6.7 U
Carbon tetrachloride	µg/L	5.0 U	6.3 U	6.7 U	6.7 U
Chlorobenzene	µg/L	5.0 U	6.3 U	6.7 U	6.7 U
Chloroethane	µg/L	5.0 U	6.3 U	6.7 U	6.7 U
Chloroform (Trichloromethane)	µg/L	5.0 U	6.3 U	6.7 U	6.7 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	6.3 U	6.7 U	6.7 U
cis-1,2-Dichloroethene	µg/L	100	160	130	130
cis-1,3-Dichloropropene	µg/L	5.0 U	6.3 U	6.7 U	6.7 U
Dibromochloromethane	µg/L	5.0 U	6.3 U	6.7 U	6.7 U
Ethylbenzene	µg/L	5.0 U	6.3 U	6.7 U	6.7 U
Methylene chloride	µg/L	25 U	31 U	33 U	33 U
Styrene	µg/L	5.0 U	6.3 U	6.7 U	6.7 U
Tetrachloroethene	µg/L	5.0 U	6.3 U	6.7 U	6.7 U
Toluene	µg/L	5.0 U	6.3 U	6.7 U	6.7 U
trans-1,2-Dichloroethene	µg/L	2.5 J	9.5	3.3 J	3.7 J
trans-1,3-Dichloropropene	µg/L	5.0 U	6.3 U	6.7 U	6.7 U
Trichloroethene	µg/L	5.0 U	6.3 U	6.7 U	6.7 U
Vinyl chloride	µg/L	5.0	23 J	5.9 J	6.4 J
Xylenes (total)	µg/L	10 U	13 U	13 U	13 U

Notes:

U - Not detected at the associated reporting limit

J - Estimated concentration

Table 3

**Analytical Methods
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
July-December 2018**

Parameter	Method	Matrix	Preservation	Holding Time	
				Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
Volatile Organic Compounds (VOCs)	SW-846 8260B	Water	pH < 2 and Iced, 0-6° C	-	14

Notes:

Method References:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions

Table 4

**Qualified Sample Results Due to Outlying MS/MSD Results
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
July-December 2018**

Parameter	Sample ID	Analyte	MS	MSD	RPD (percent)	Control Limits		Qualified Result	Units
			% Recovery	% Recovery		% Recovery	RPD		
VOC	SW-070518-BE-001	Vinyl Chloride	145	147	1	55 - 123	12	23 J	ug/L

Notes:

MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference
J - Estimated concentration
VOC - Volatile Organic Compounds

Table 5

**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
July-December 2018**

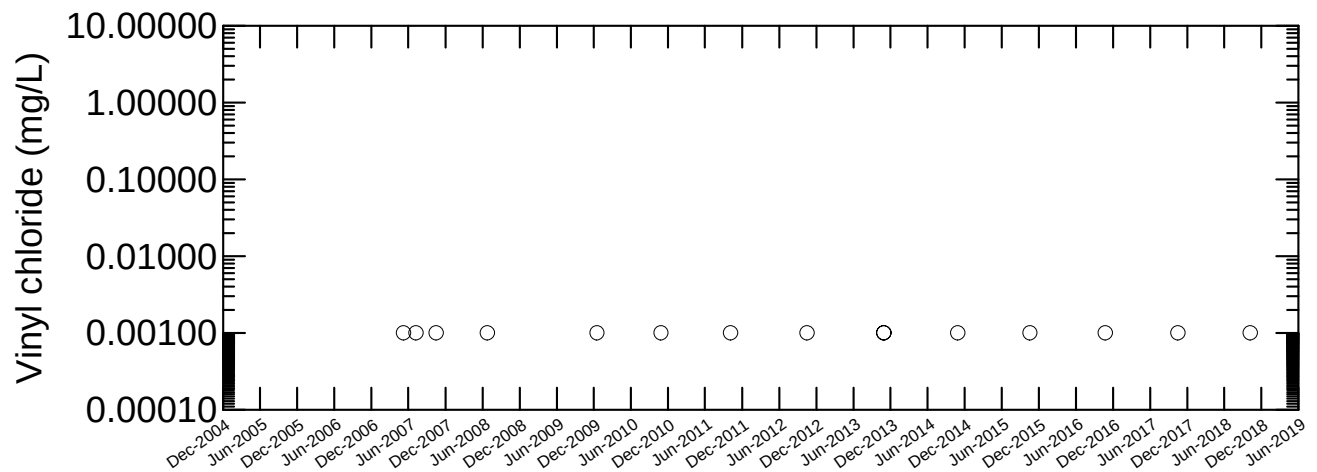
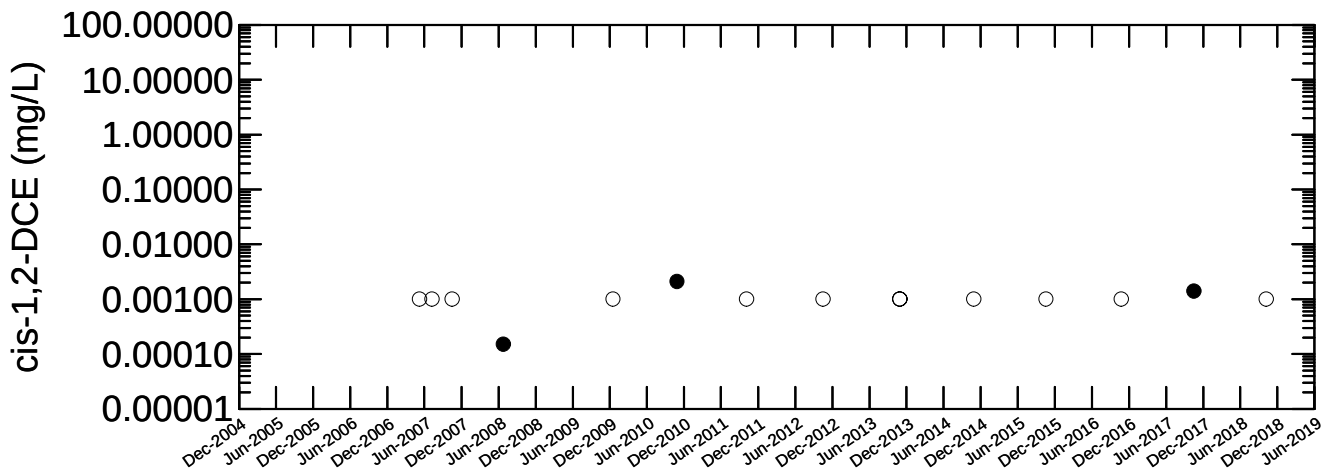
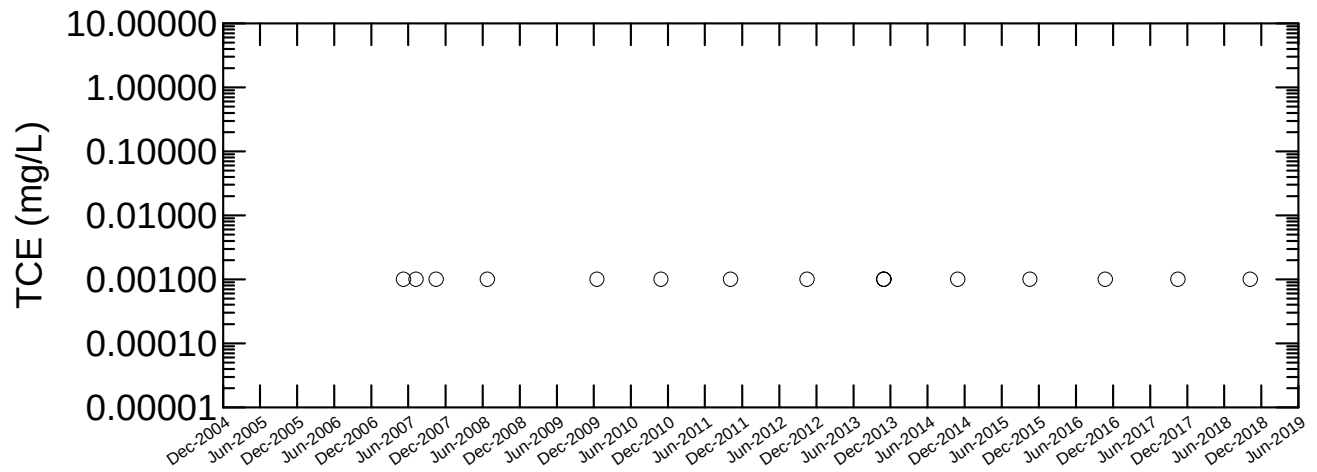
Parameter	Rinse Blank ID	Blank Date (dd/mm/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
VOC	EB-100818-AF-003	10/08/2018	cis-1,2-Dichloroethene	24	GW-100818-BE-037	8.2	8.2 U	ug/L
			Trichloroethene	0.39 J	GW-100818-BE-037	0.20 J	1.0 U	ug/L
VOC	EB-101018-AF-005	10/10/2018	cis-1,2-Dichloroethene	0.37 J	GW-100918-AF-048	0.45 J	1.0 U	ug/L
					GW-100918-AF-049	0.38 J	1.0 U	ug/L

Notes:

- U - Not detected at the associated reporting limit
- J - Estimated concentration
- VOC - Volatile Organic Compounds

Appendix C

Groundwater Data Analysis Tables and Concentration vs. Time Graphs



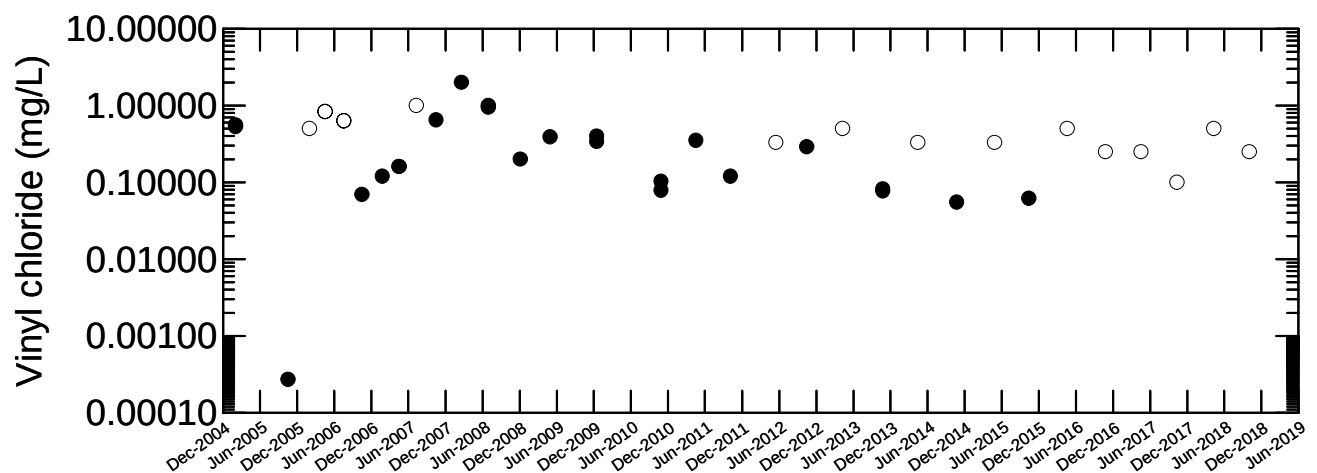
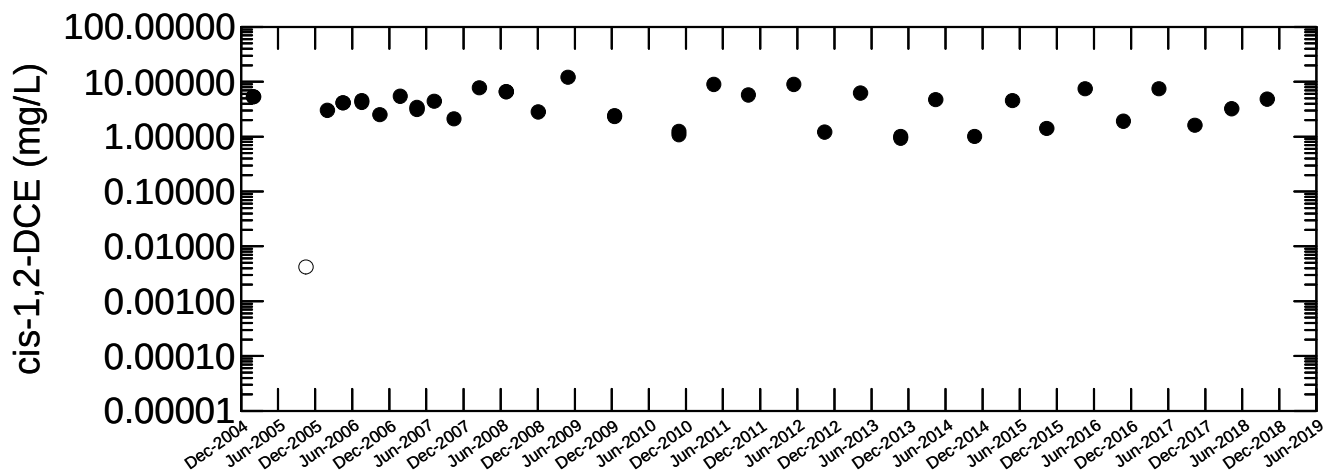
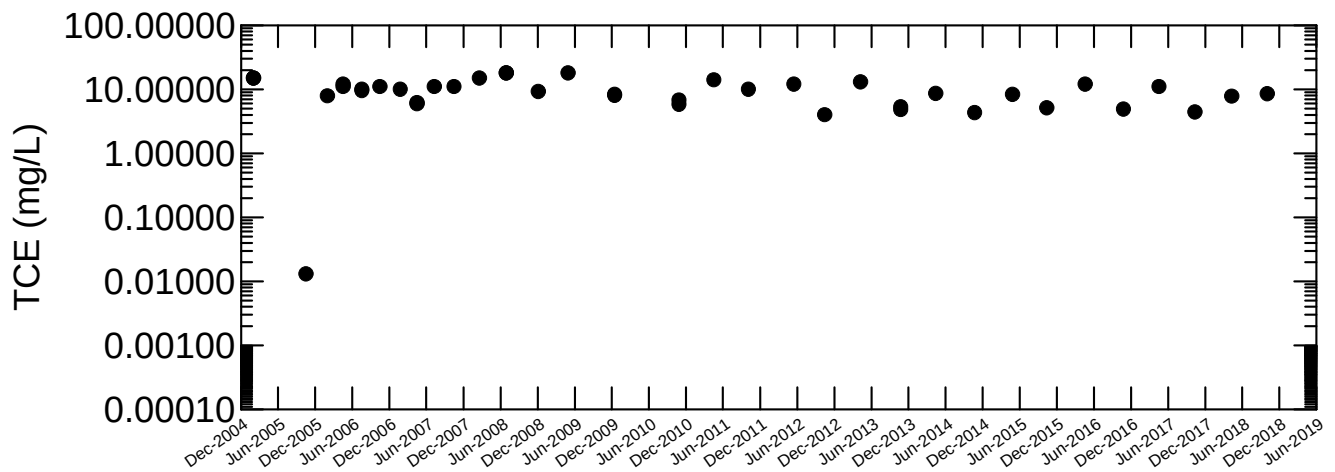
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW-2

CONCENTRATION vs. TIME GRAPHS
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 Anderson, Indiana





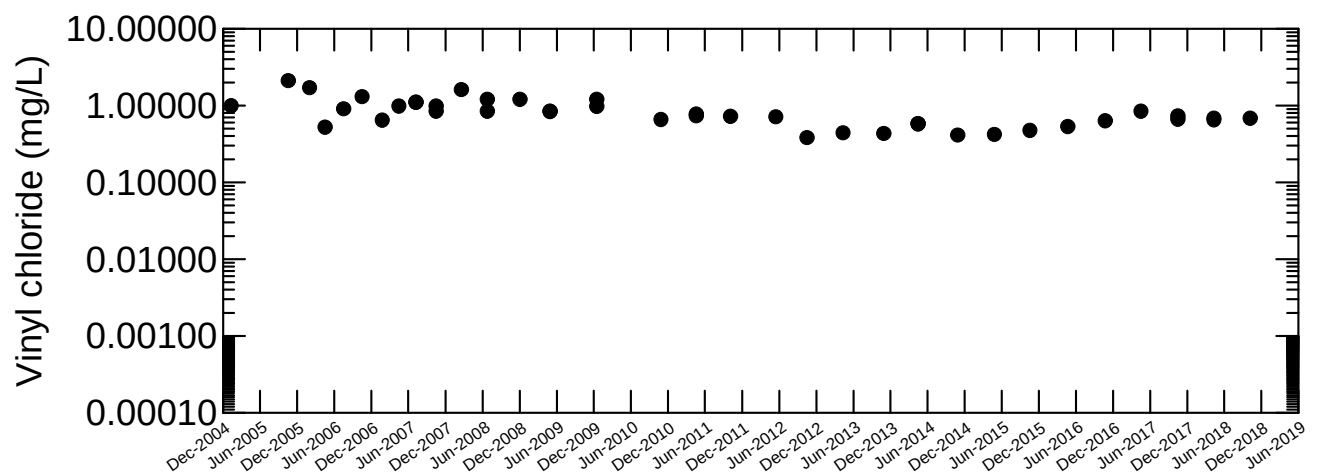
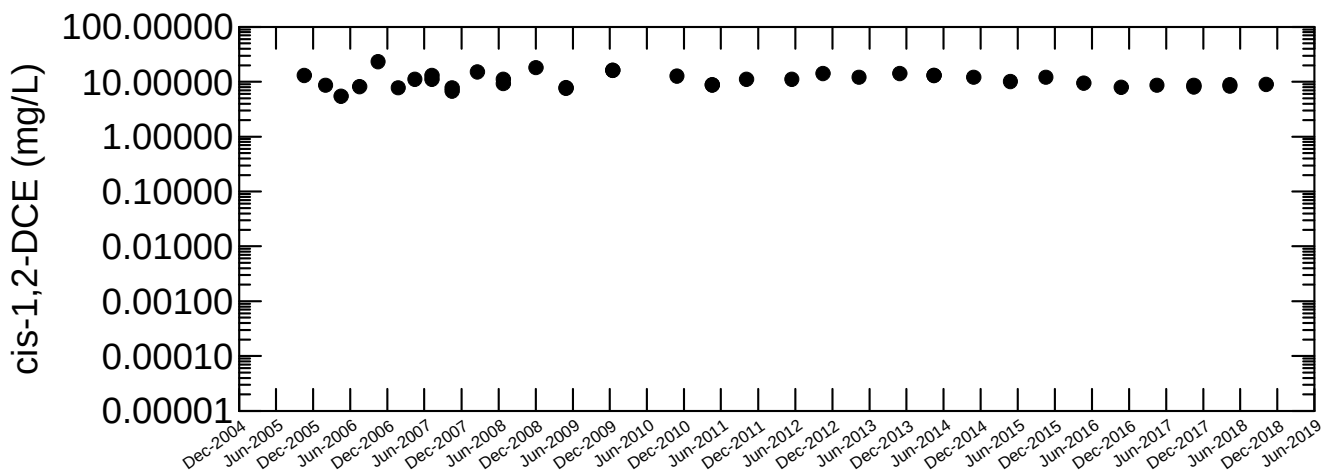
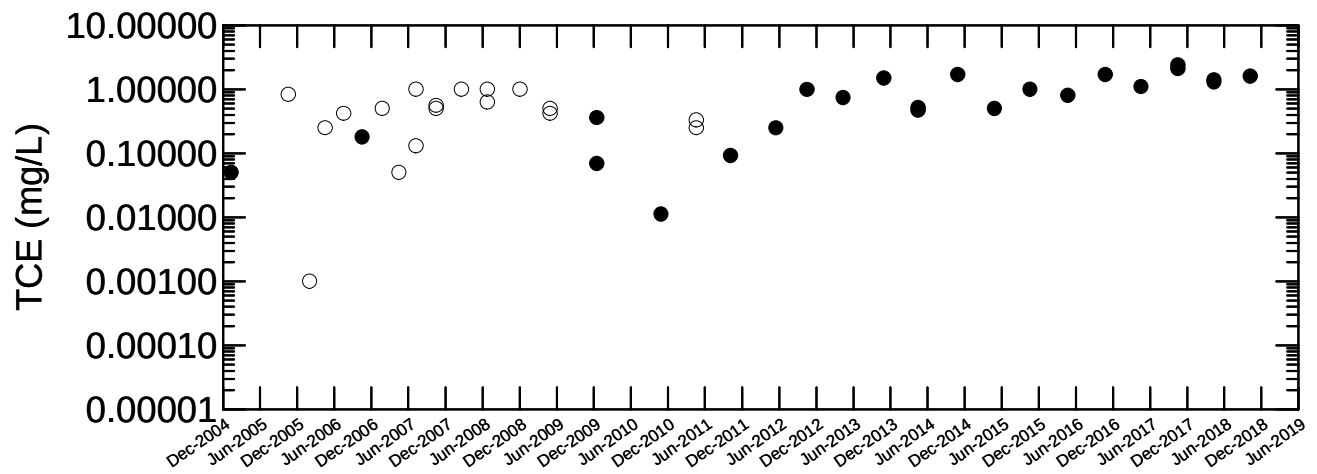
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 3

CONCENTRATION vs. TIME GRAPHS
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 Anderson, Indiana





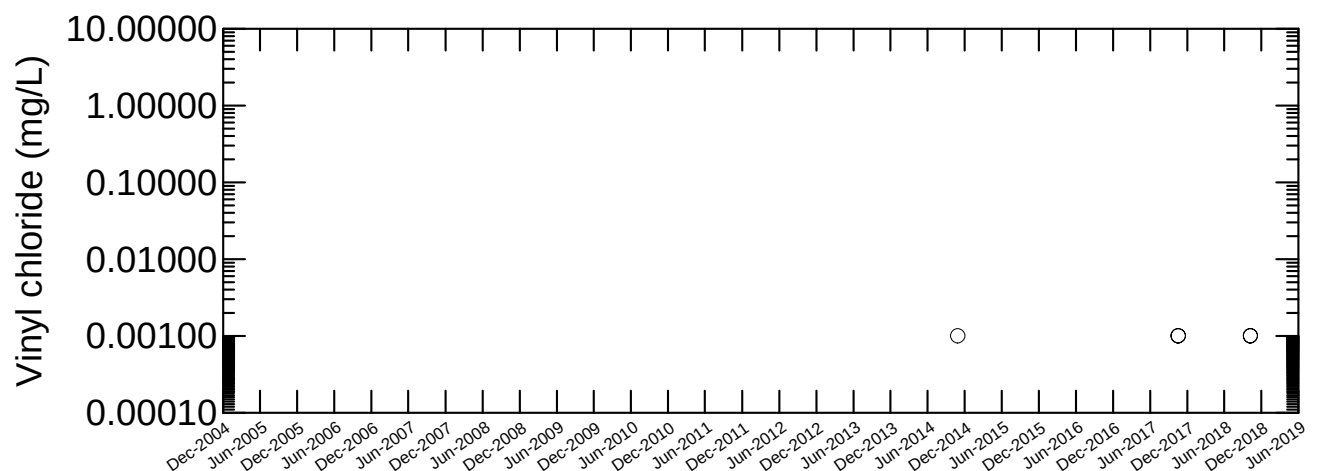
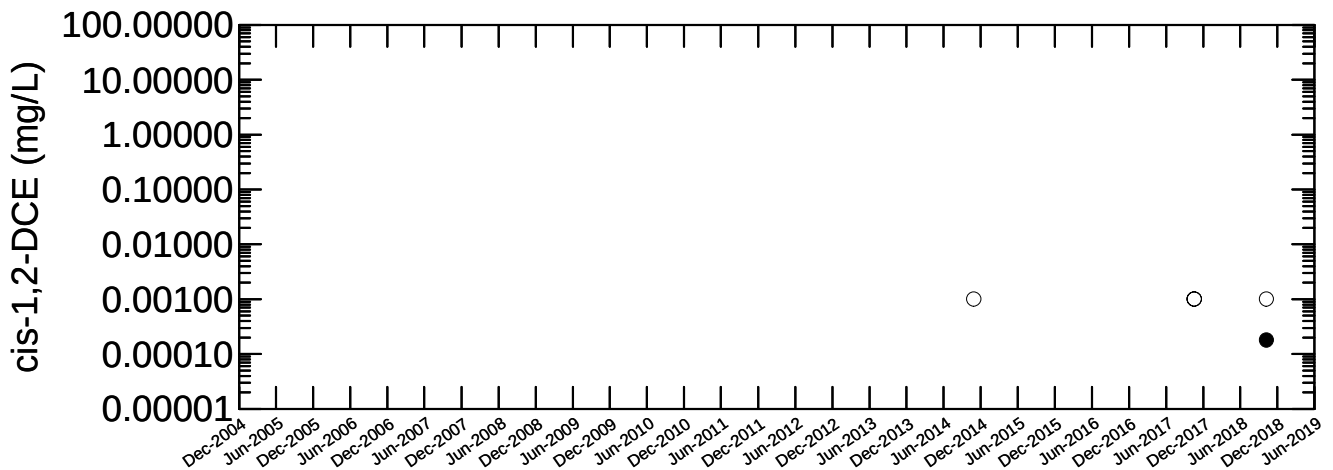
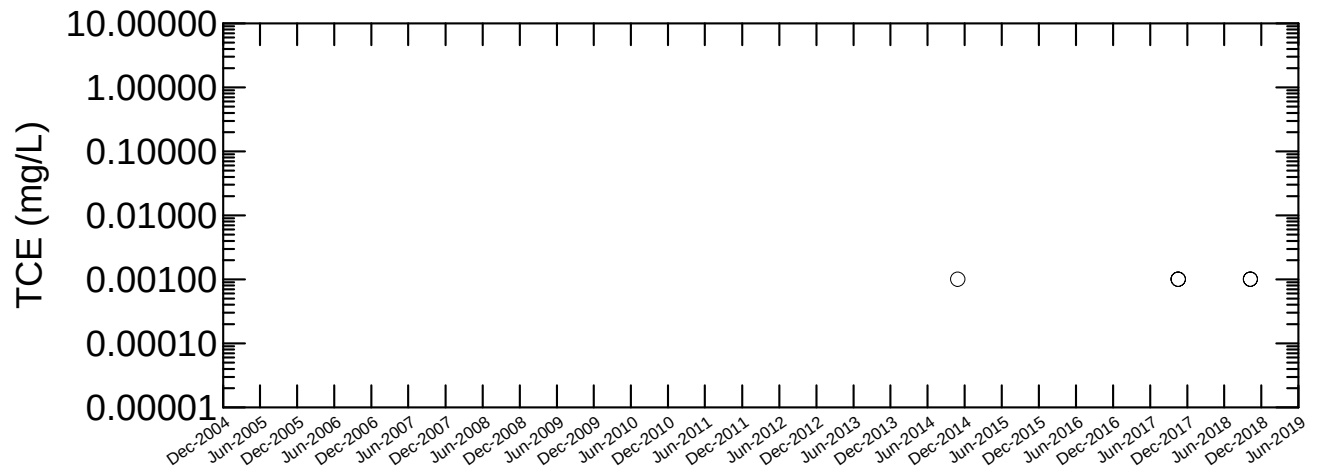
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW-4

CONCENTRATION vs. TIME GRAPHS
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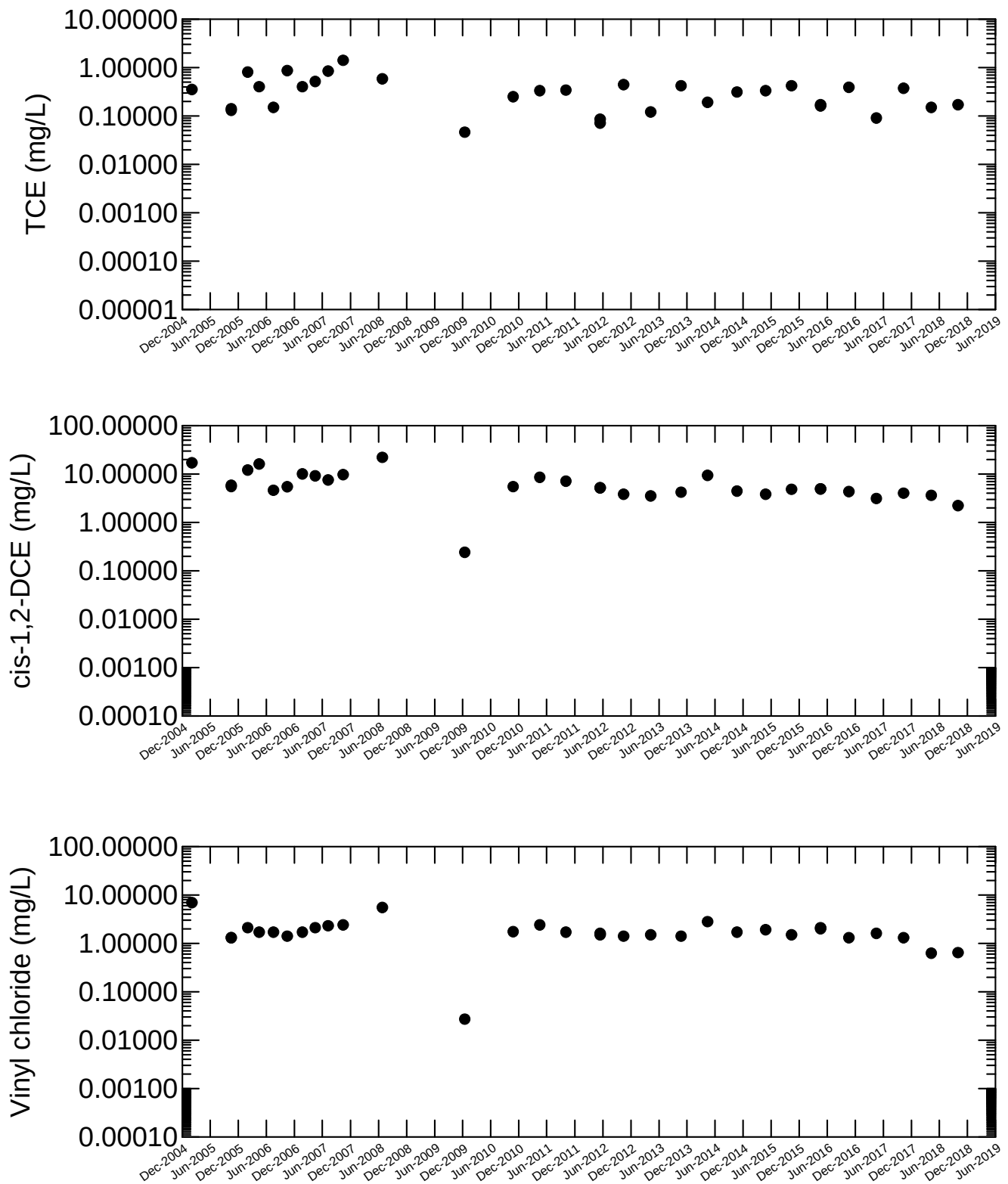
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW-7

CONCENTRATION vs. TIME GRAPHS
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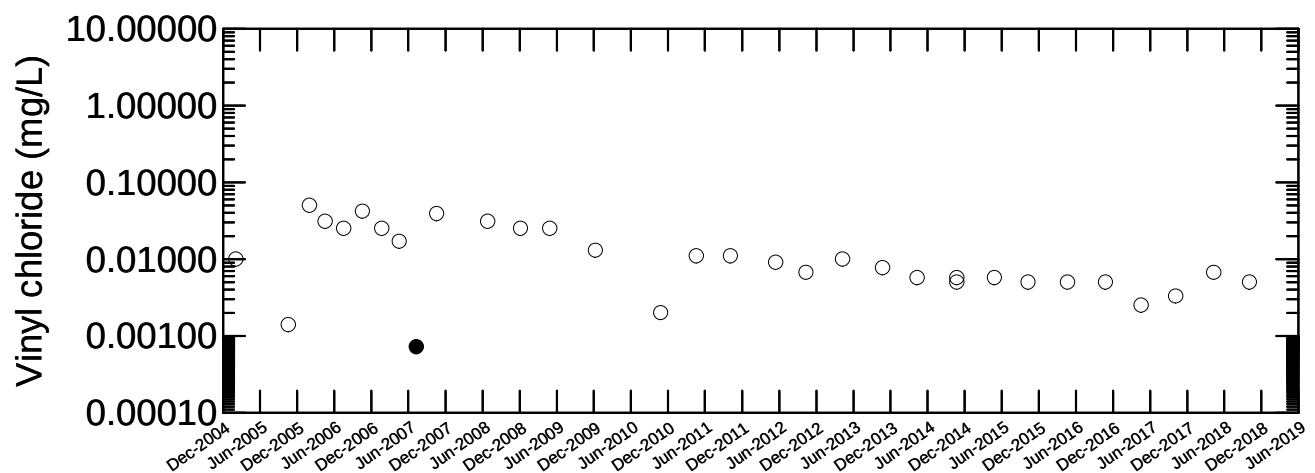
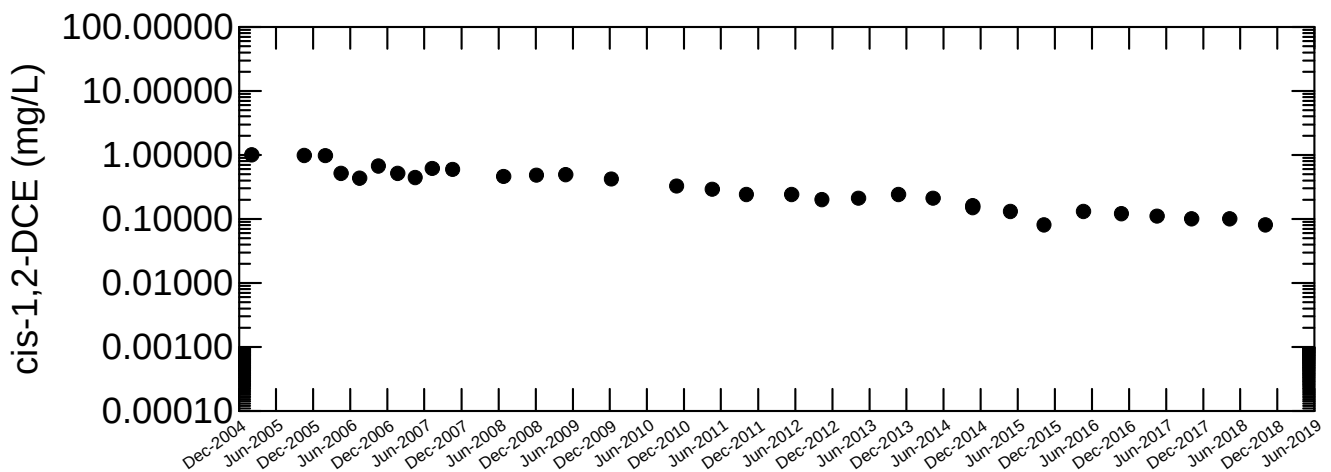
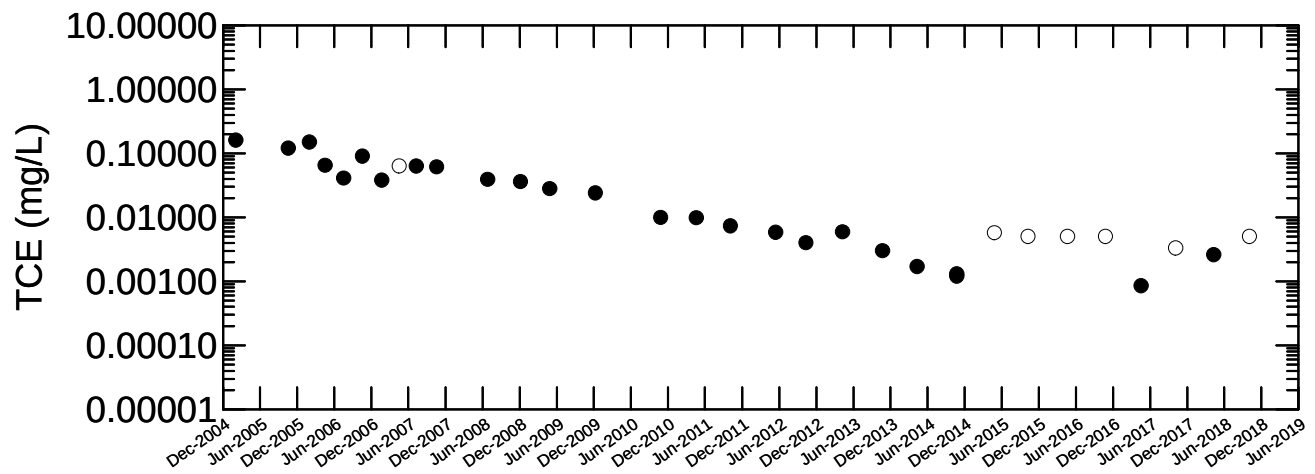
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 8

CONCENTRATION vs. TIME GRAPHS
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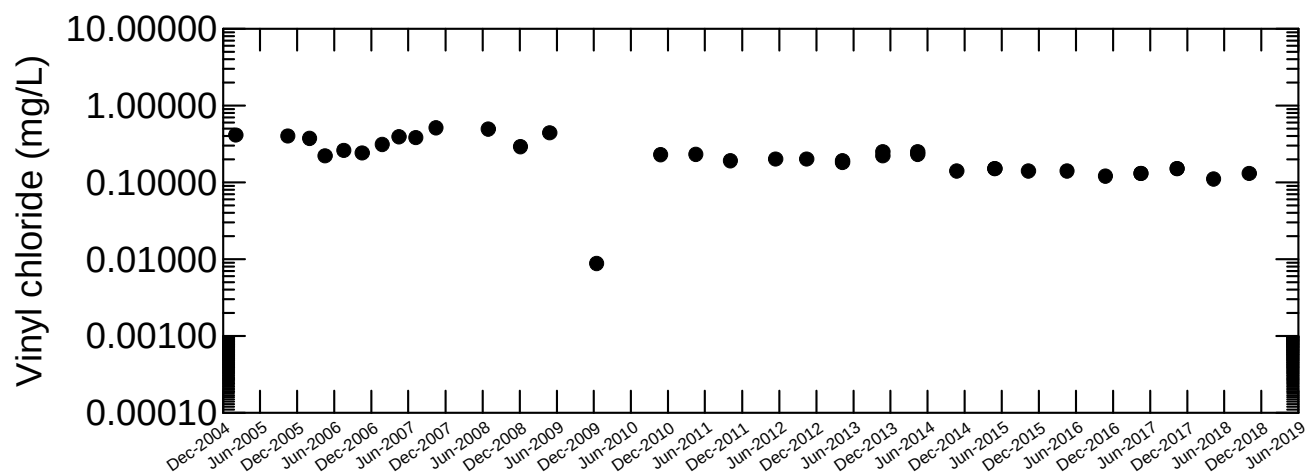
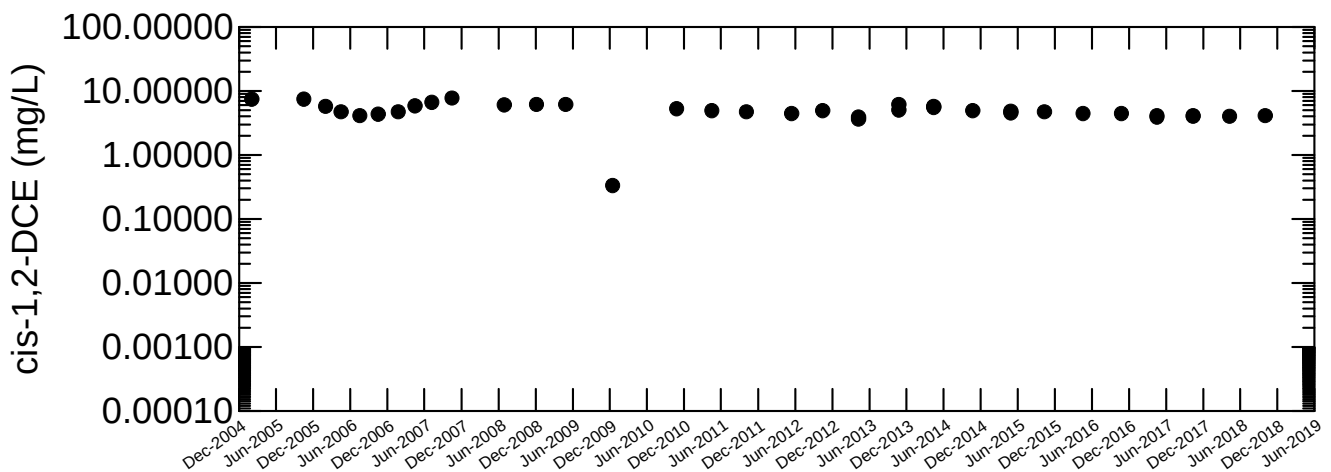
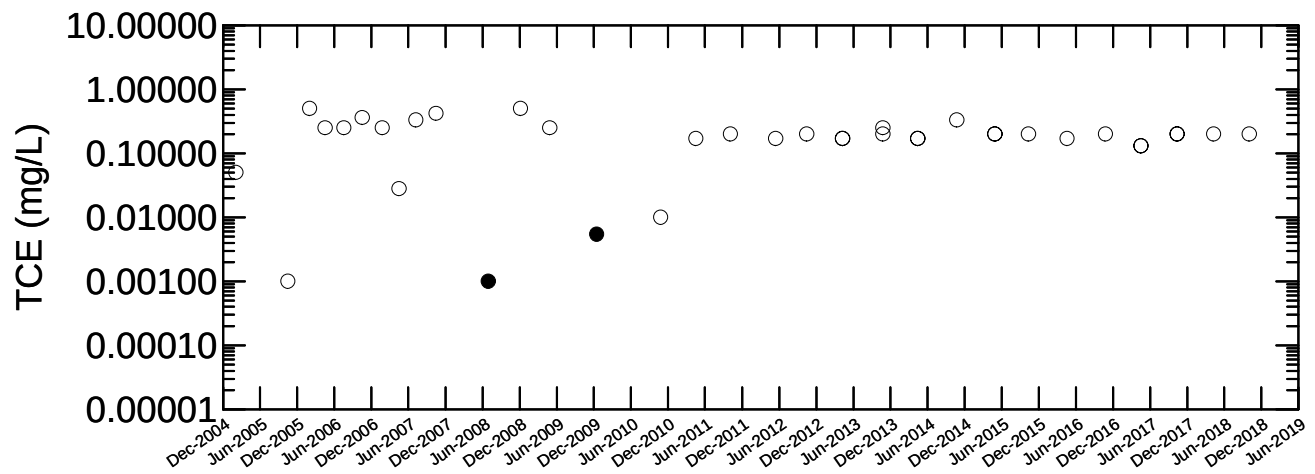
Legend:

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- Non-Detect (plotted at the laboratory detection limit)

MW 12

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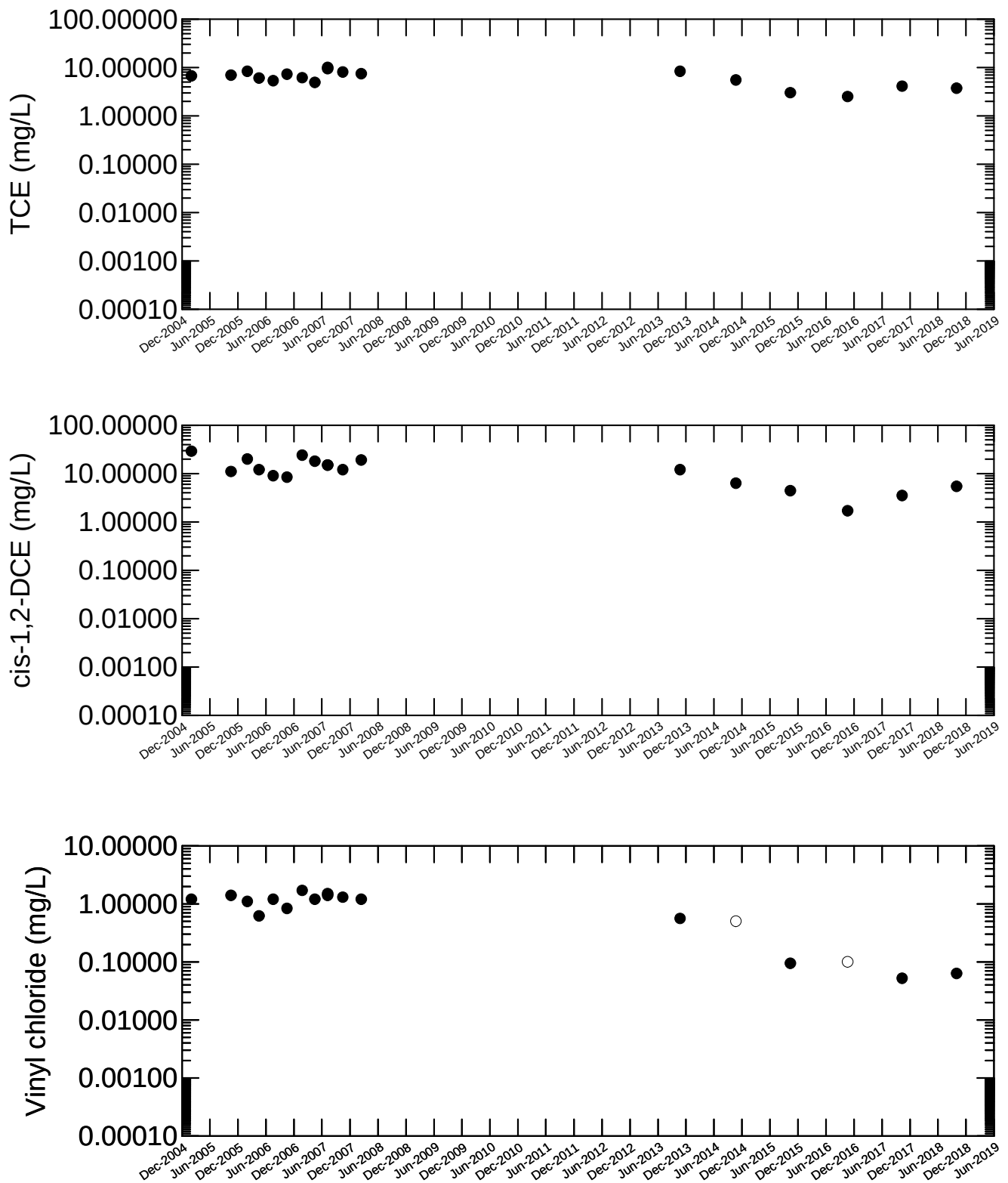
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MW 14

CONCENTRATION vs. TIME GRAPHS
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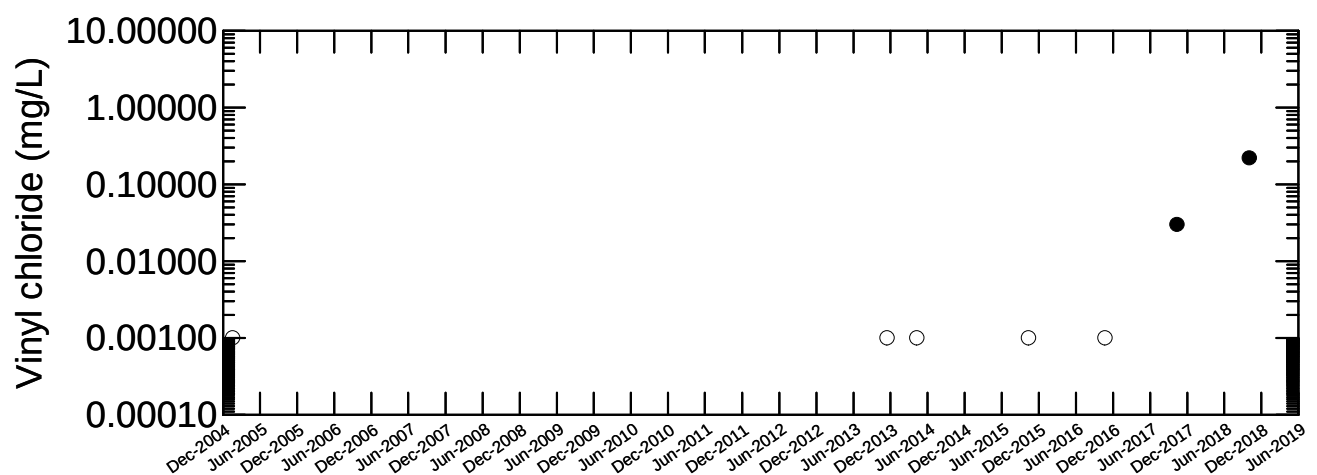
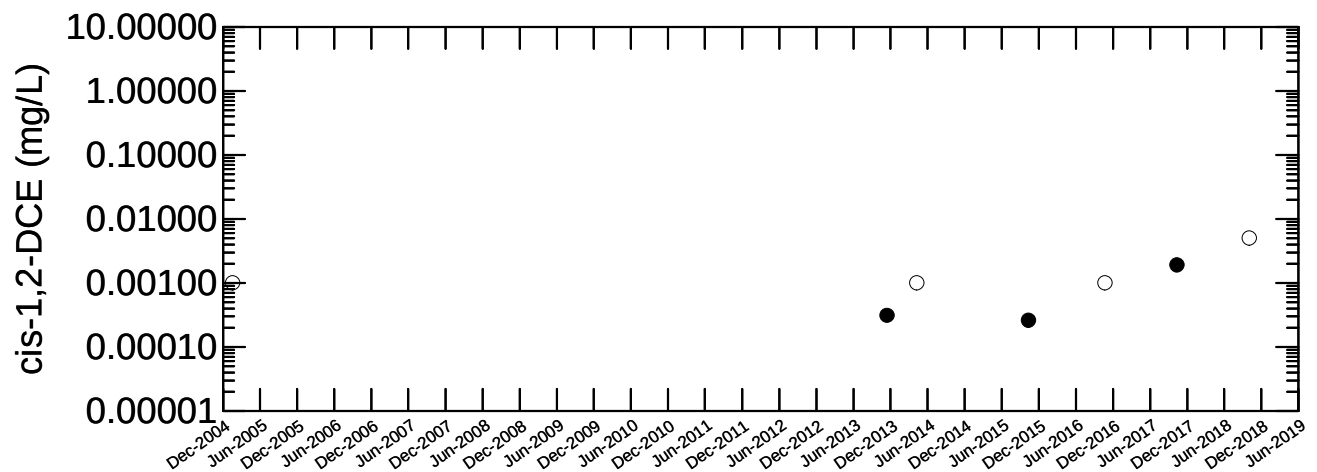
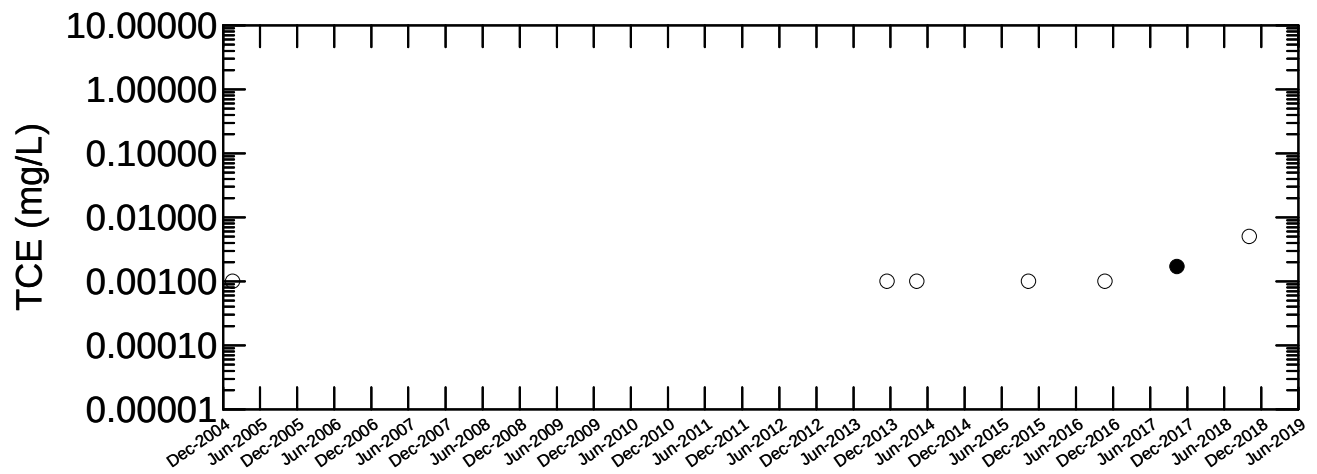
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 15

CONCENTRATION vs. TIME GRAPHS
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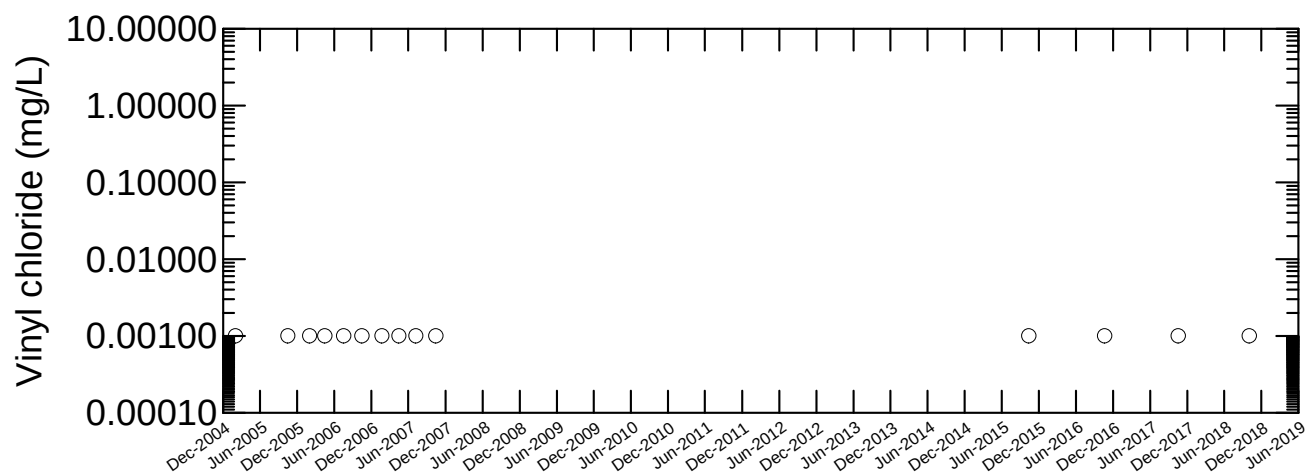
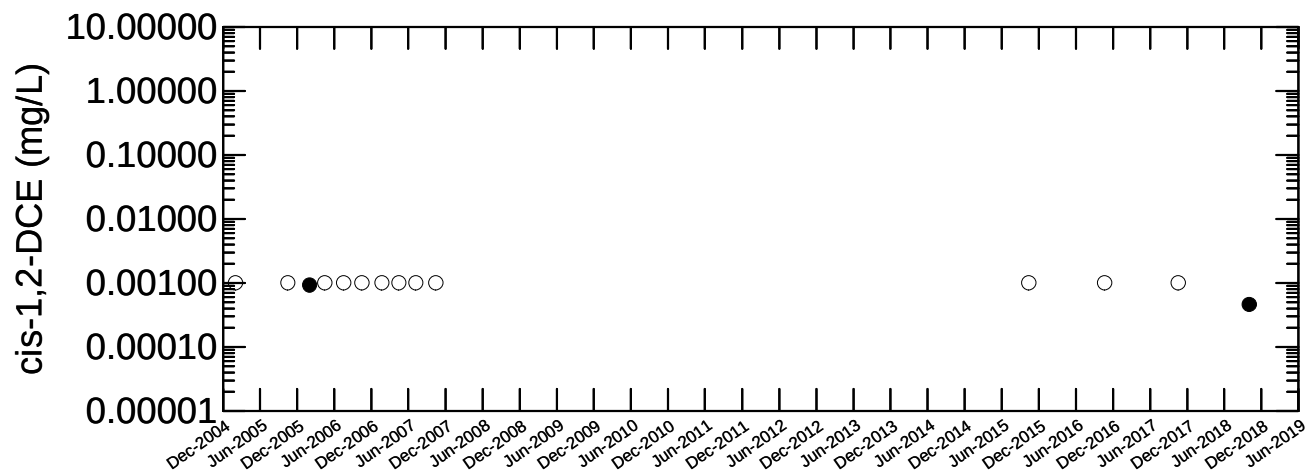
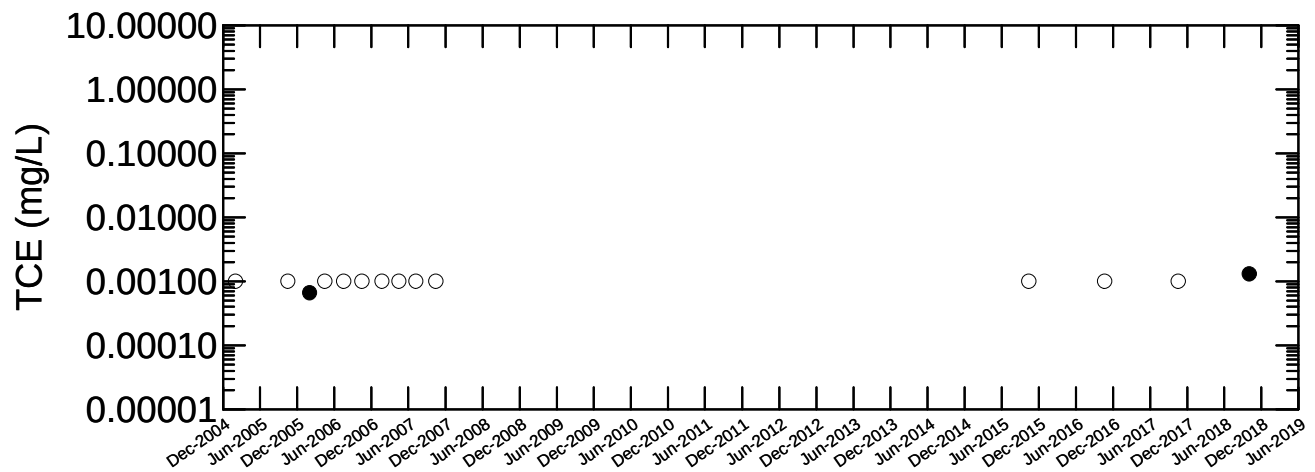
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 16

CONCENTRATION vs. TIME GRAPHS
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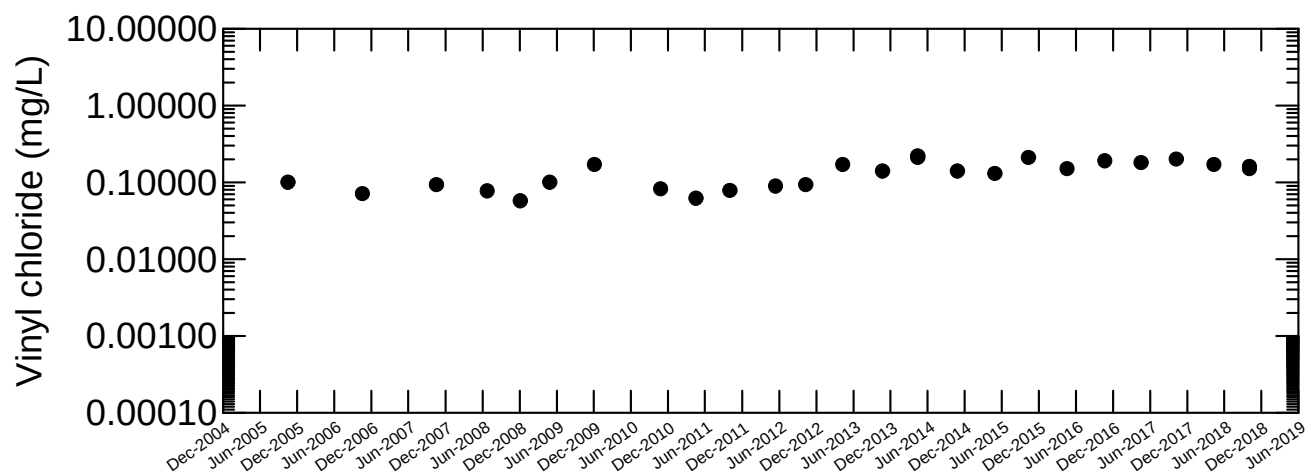
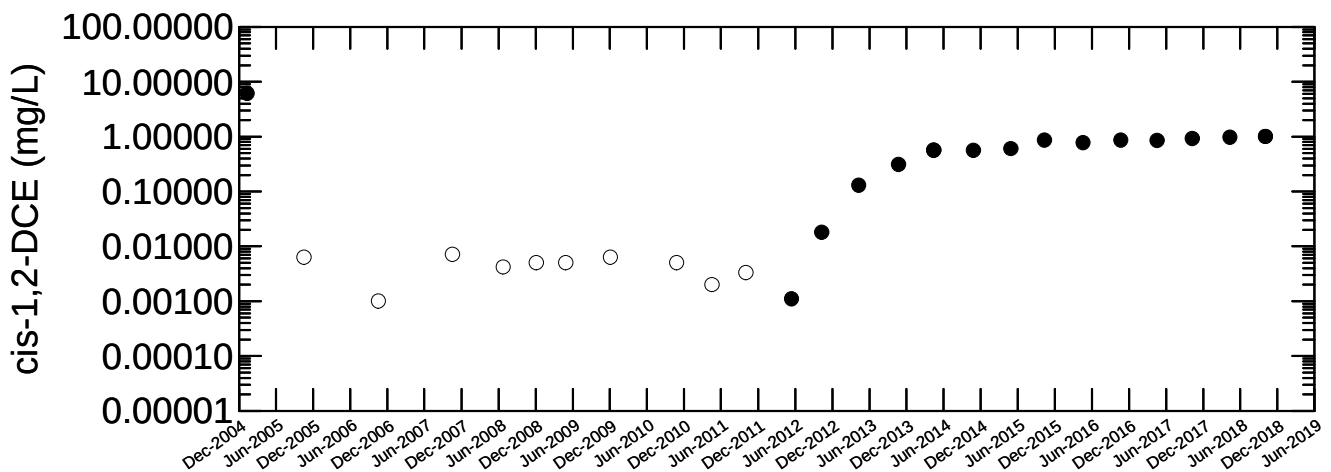
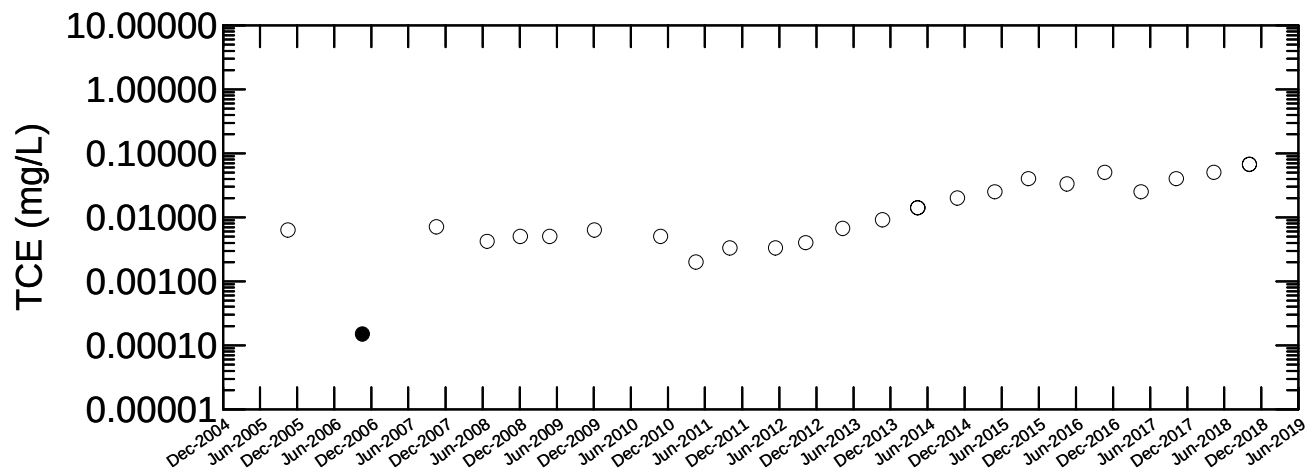
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 21

CONCENTRATION vs. TIME GRAPHS
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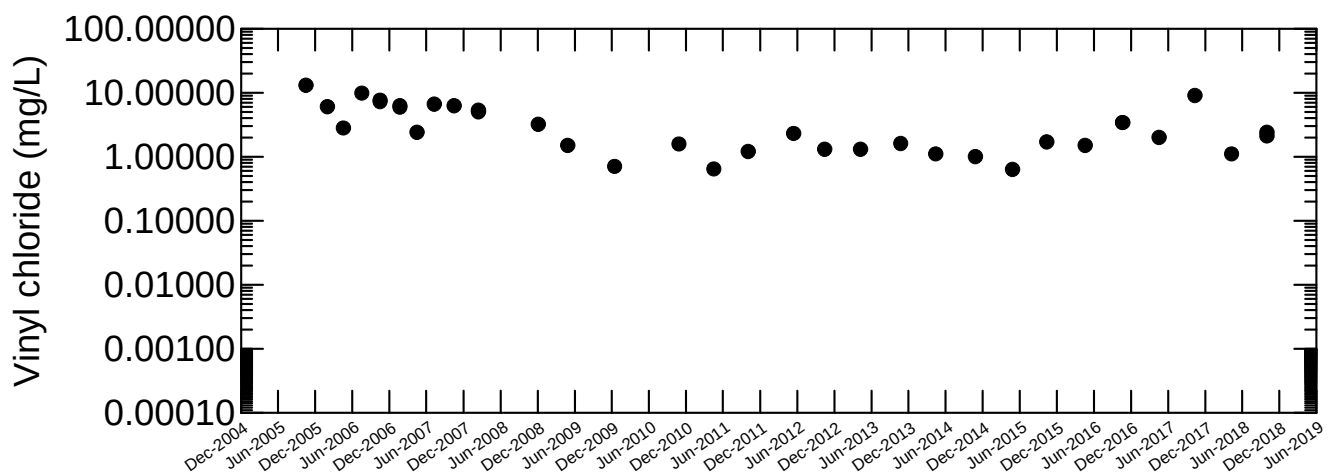
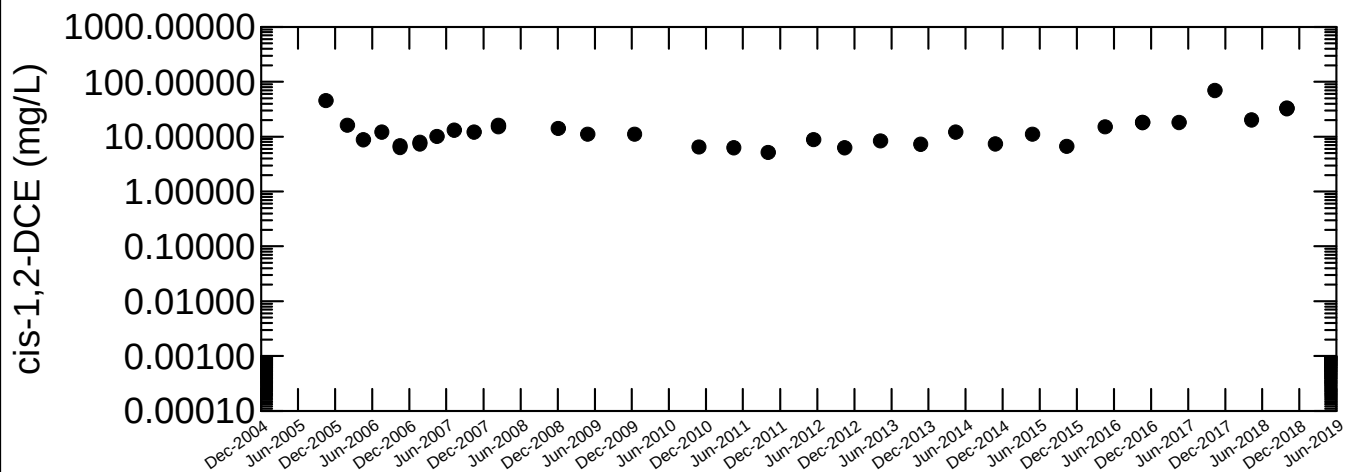
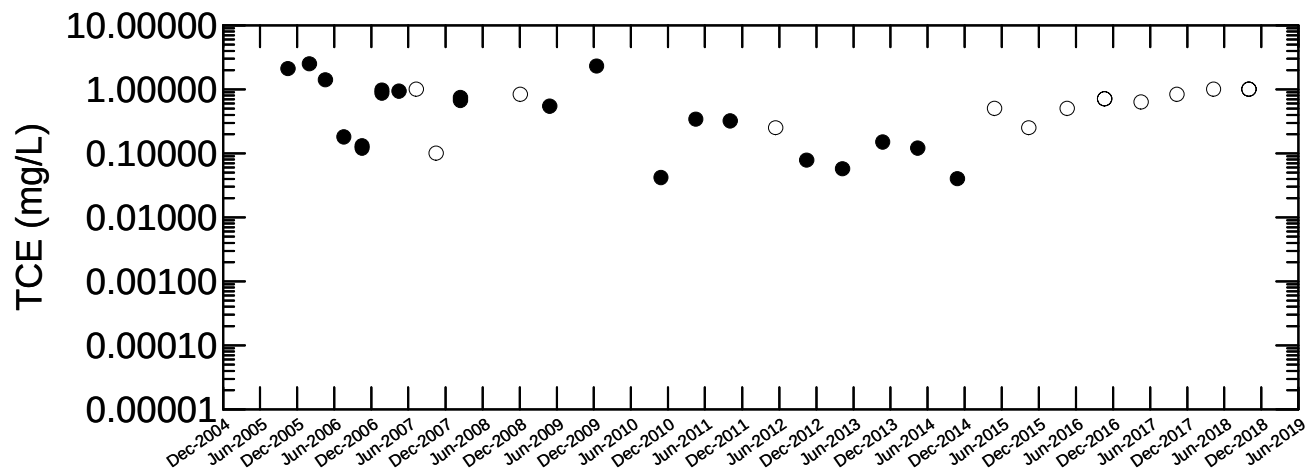
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 28

CONCENTRATION vs. TIME GRAPHS
 2018 ANNUAL GROUNDWATER MONITORING REPORT
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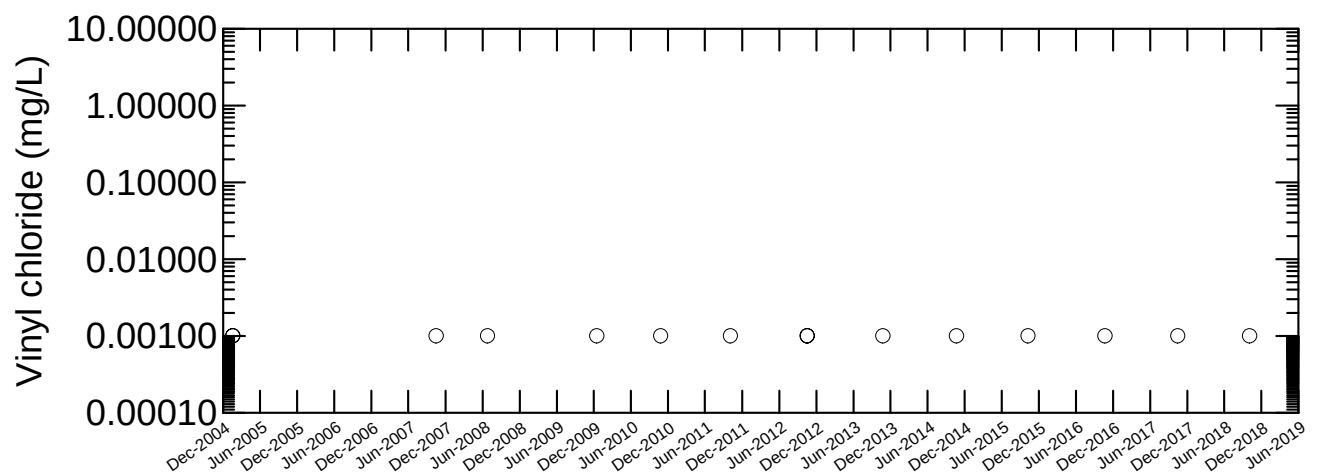
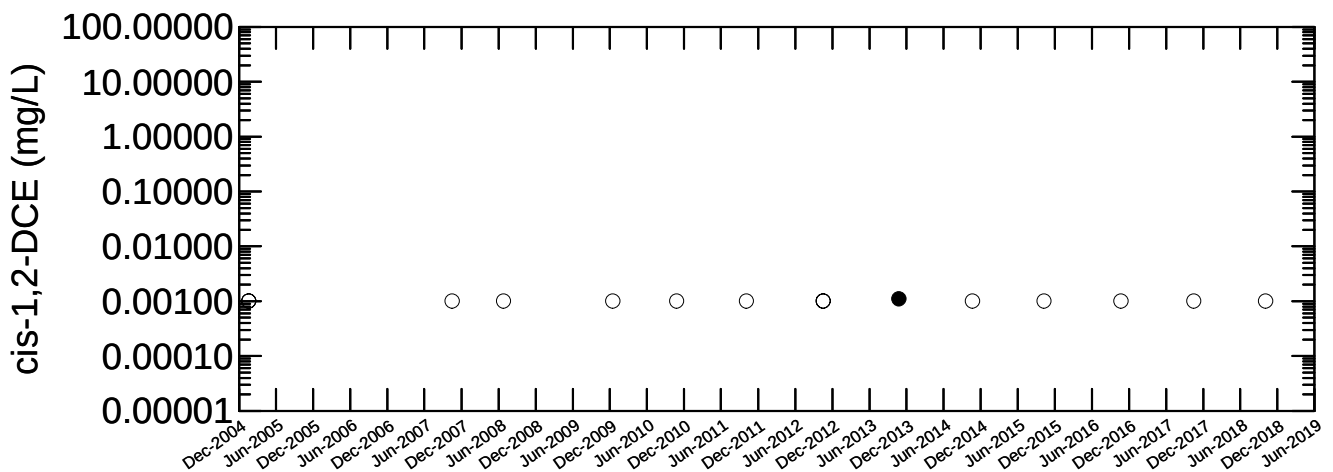
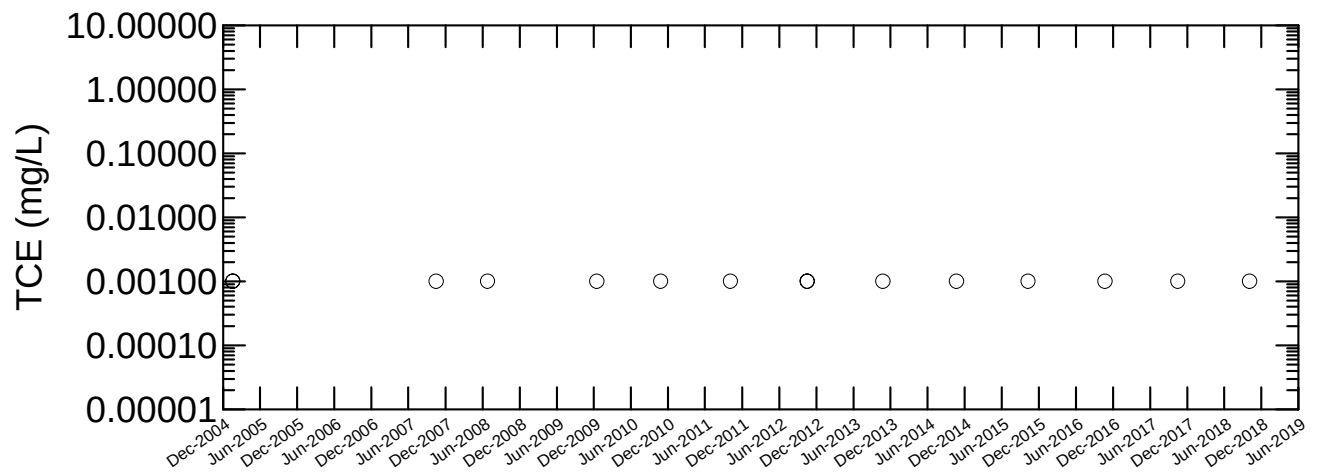
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 31R

CONCENTRATION vs. TIME GRAPHS
 2018 ANNUAL GROUNDWATER MONITORING REPORT
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 Anderson, Indiana





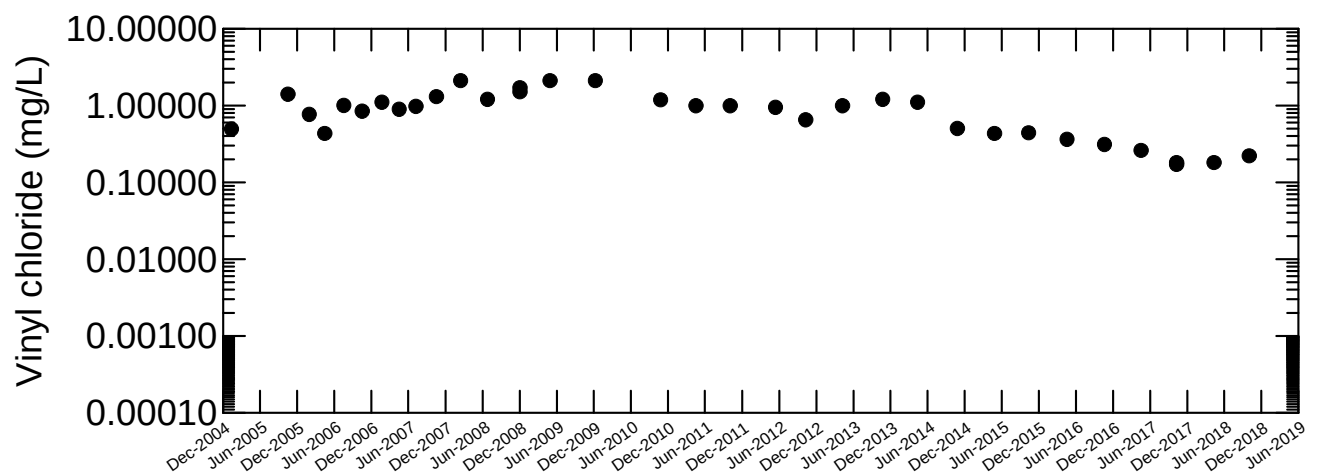
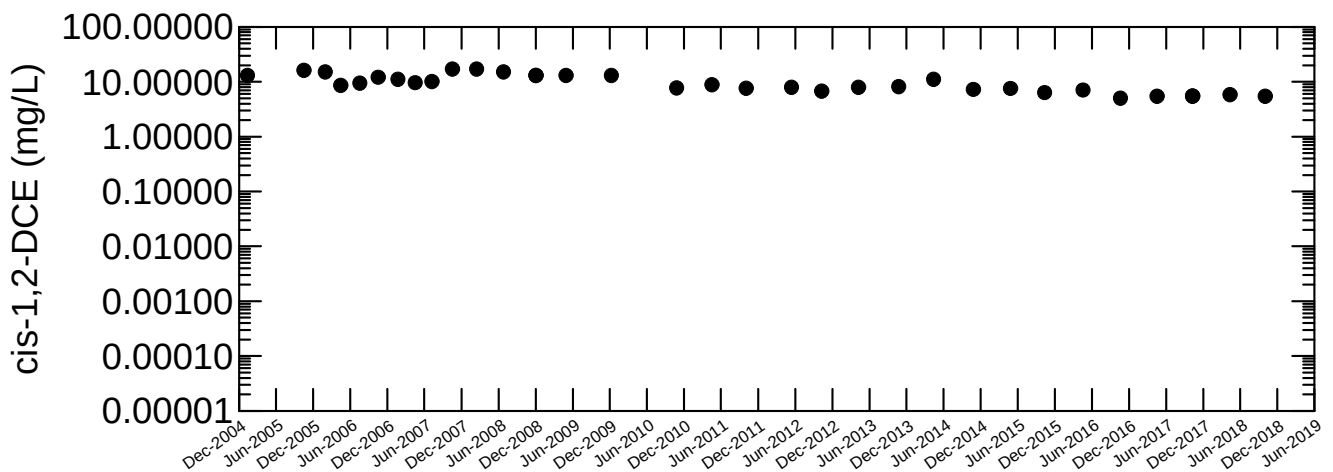
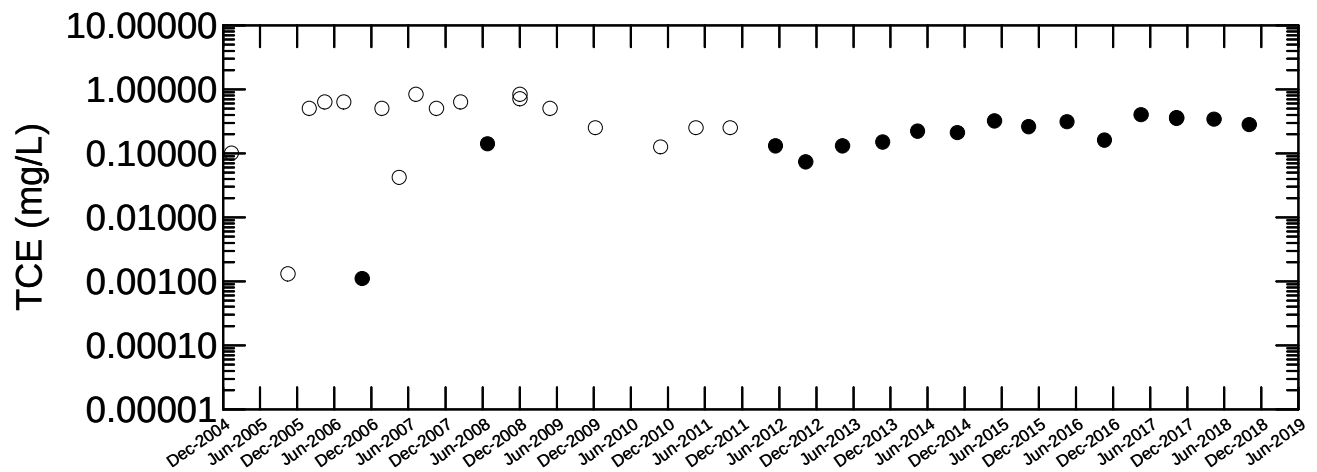
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 37

CONCENTRATION vs. TIME GRAPHS
 2018 ANNUAL GROUNDWATER MONITORING REPORT
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 Anderson, Indiana





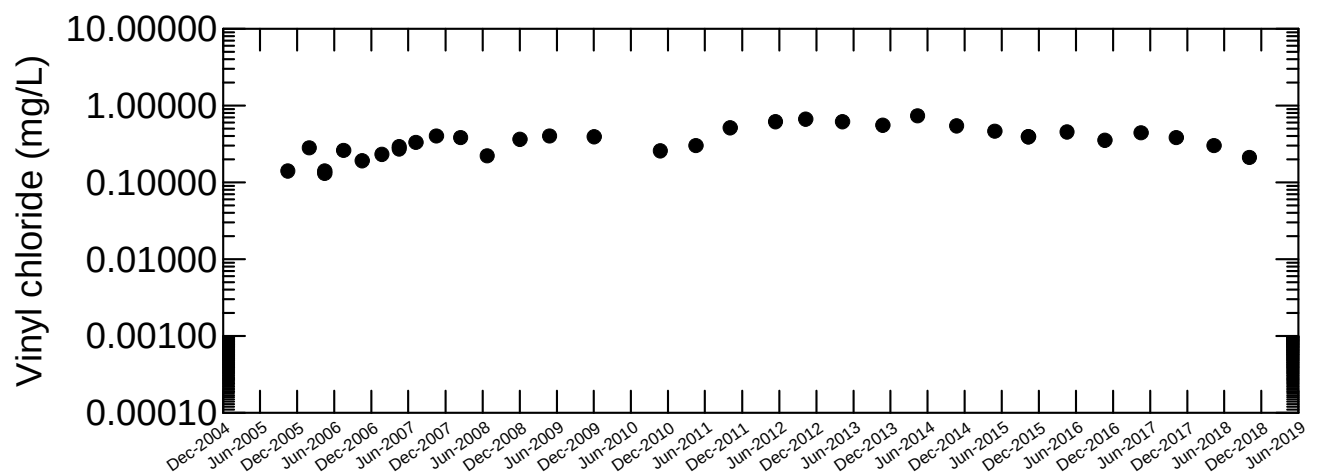
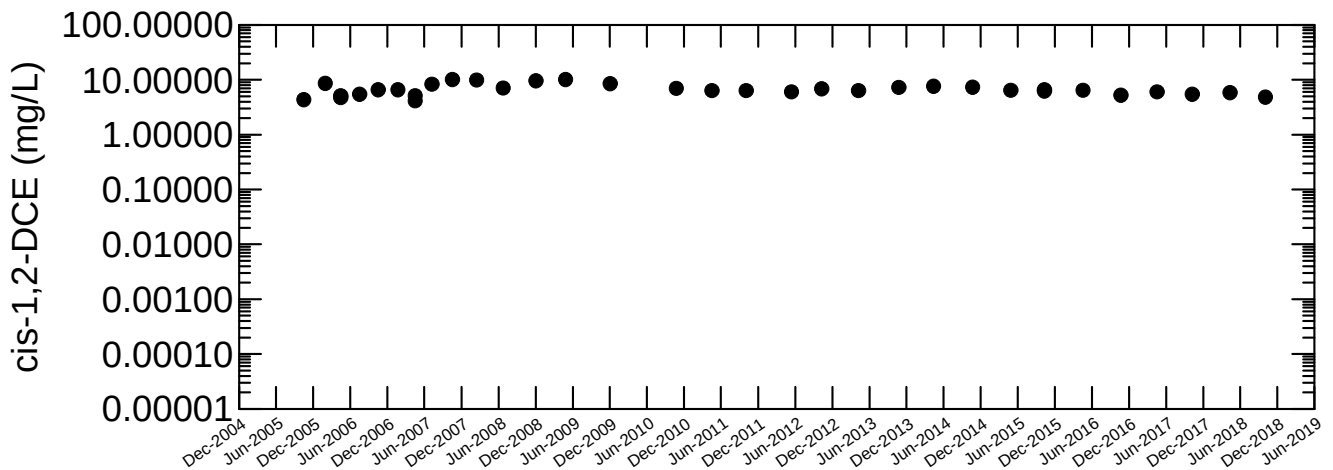
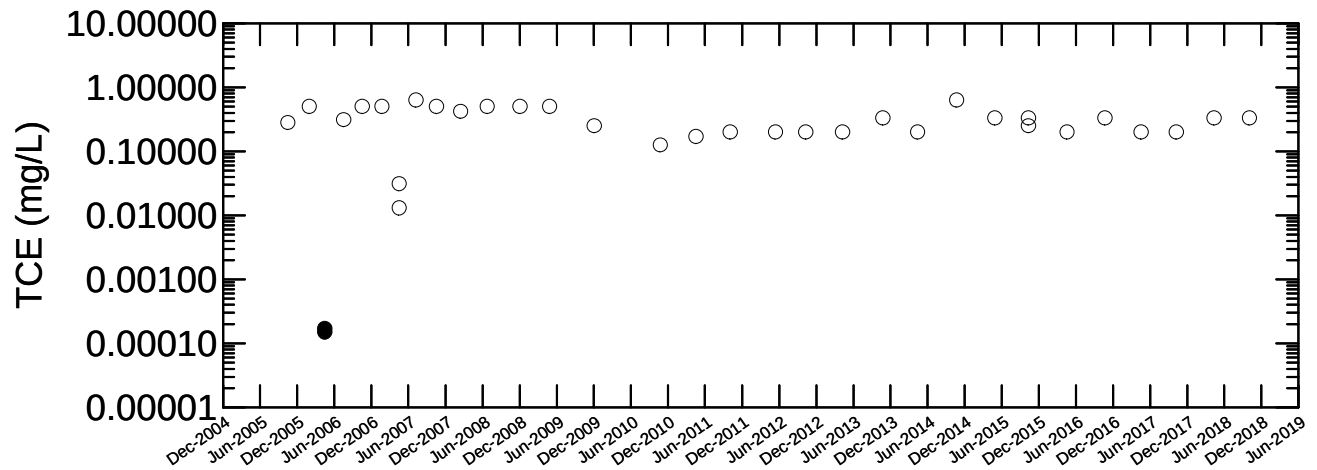
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 40

CONCENTRATION vs. TIME GRAPHS
 2018 ANNUAL GROUNDWATER MONITORING REPORT
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 Anderson, Indiana





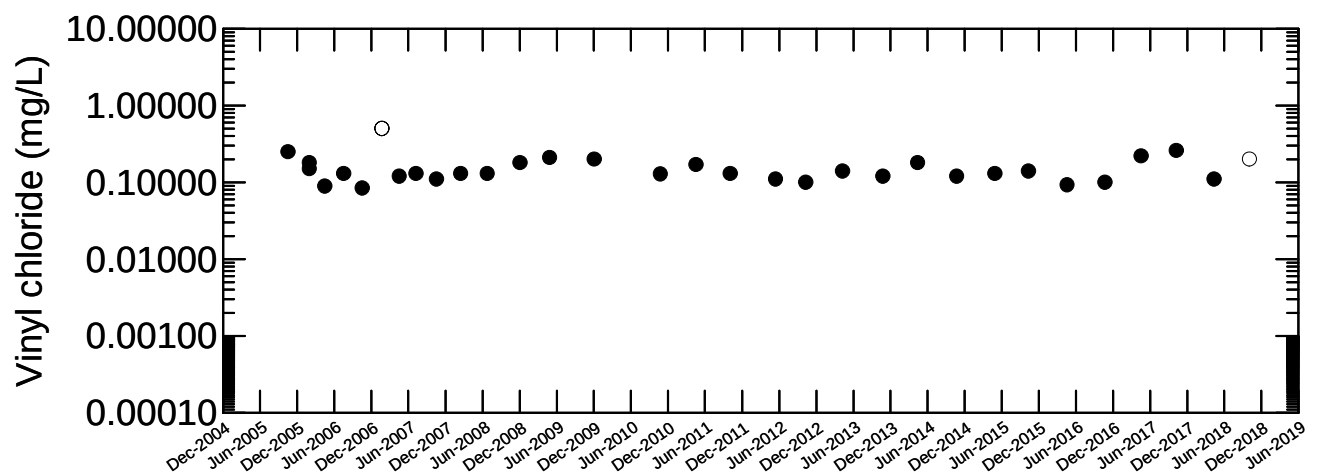
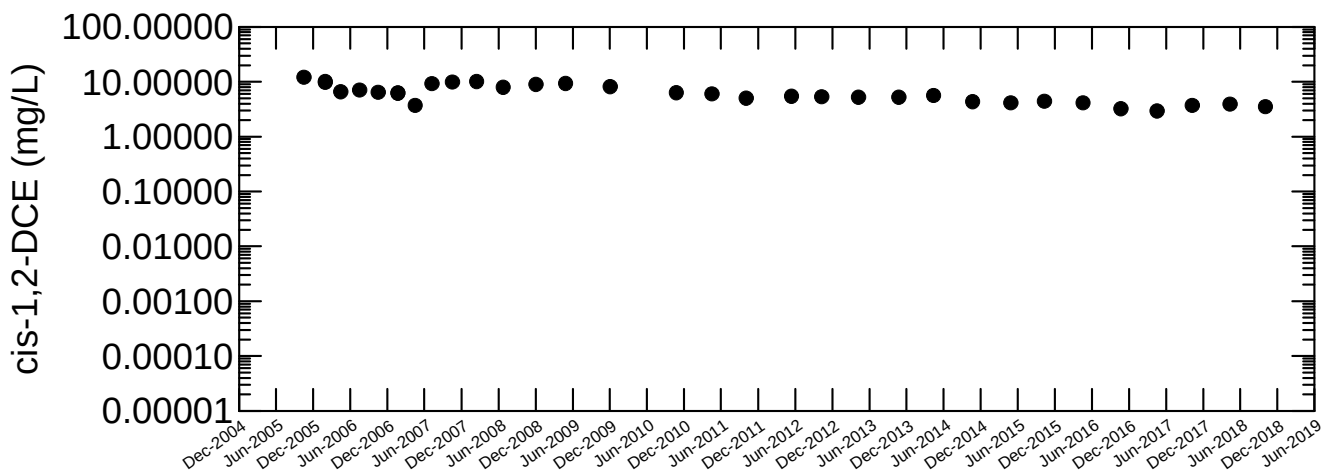
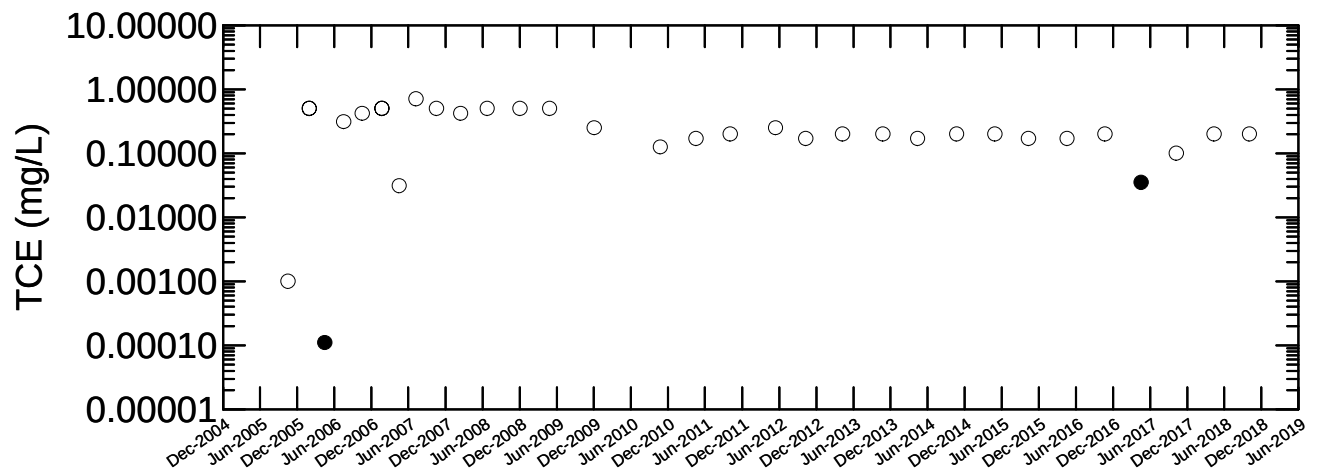
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 41

CONCENTRATION vs. TIME GRAPHS
2018 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





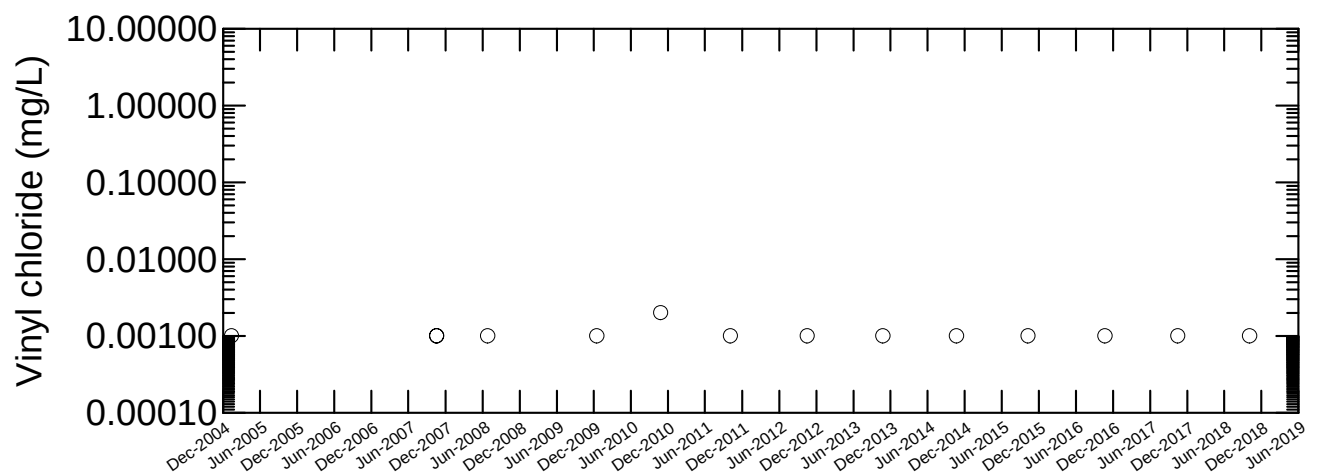
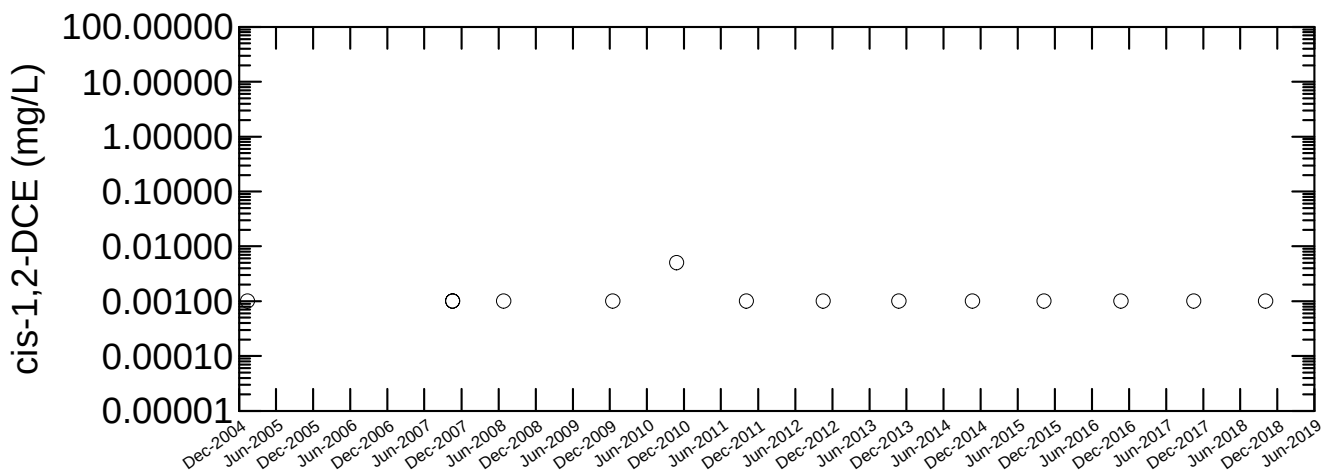
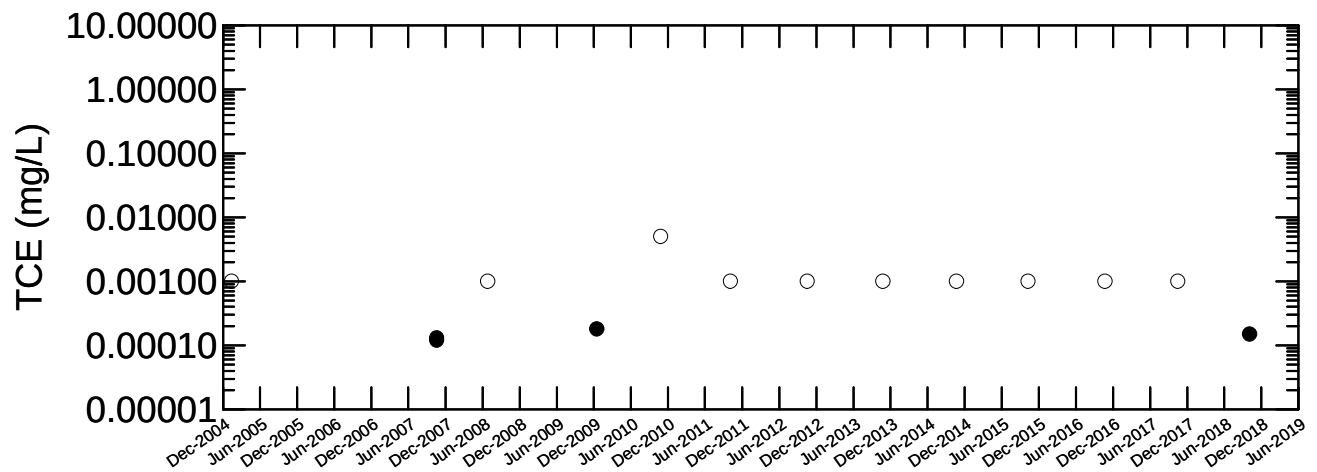
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 42

CONCENTRATION vs. TIME GRAPHS
 2018 ANNUAL GROUNDWATER MONITORING REPORT
 2915 MARTIN LUTHER KING JR. BOULEVARD
 Anderson, Indiana





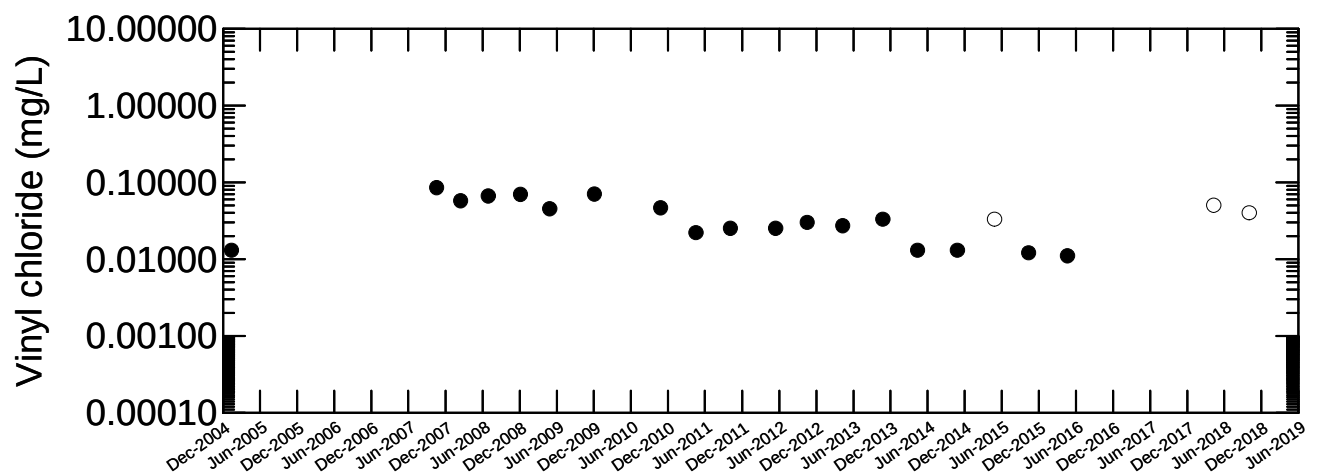
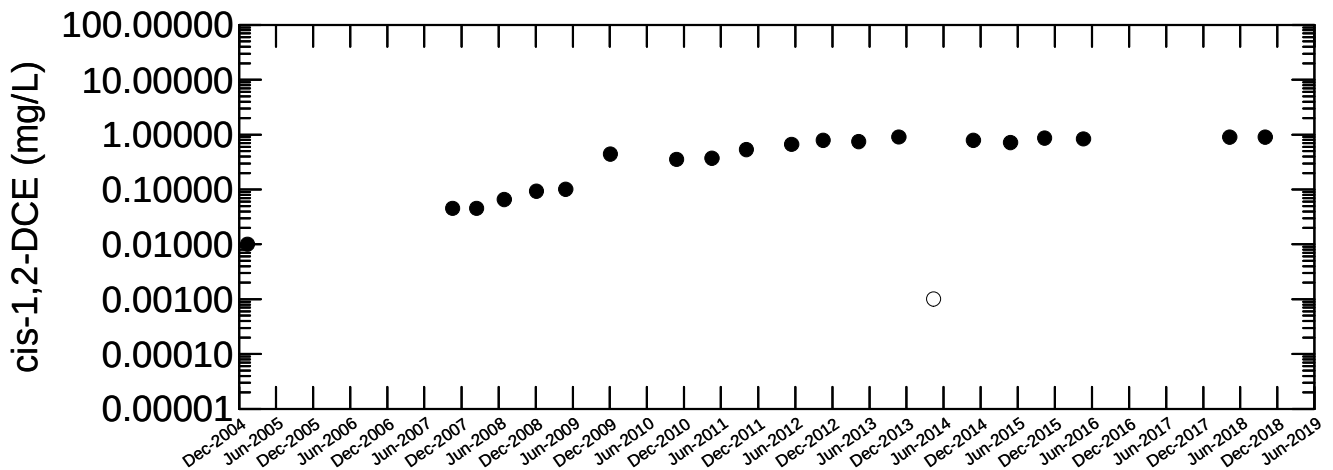
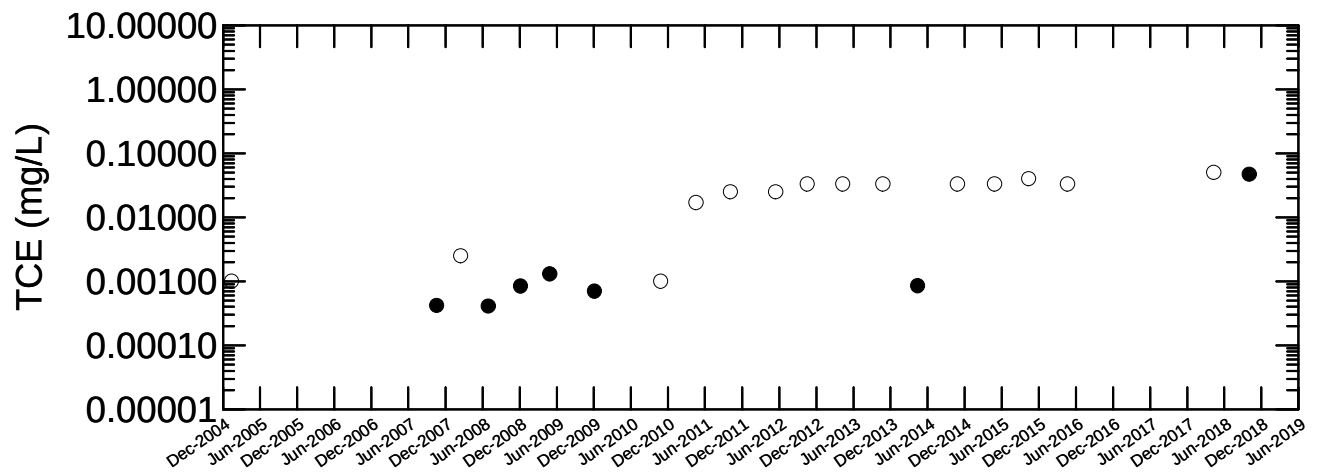
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 46

CONCENTRATION vs. TIME GRAPHS
 2018 ANNUAL GROUNDWATER MONITORING REPORT
 2915 MARTIN LUTHER KING JR. BOULEVARD
 Anderson, Indiana





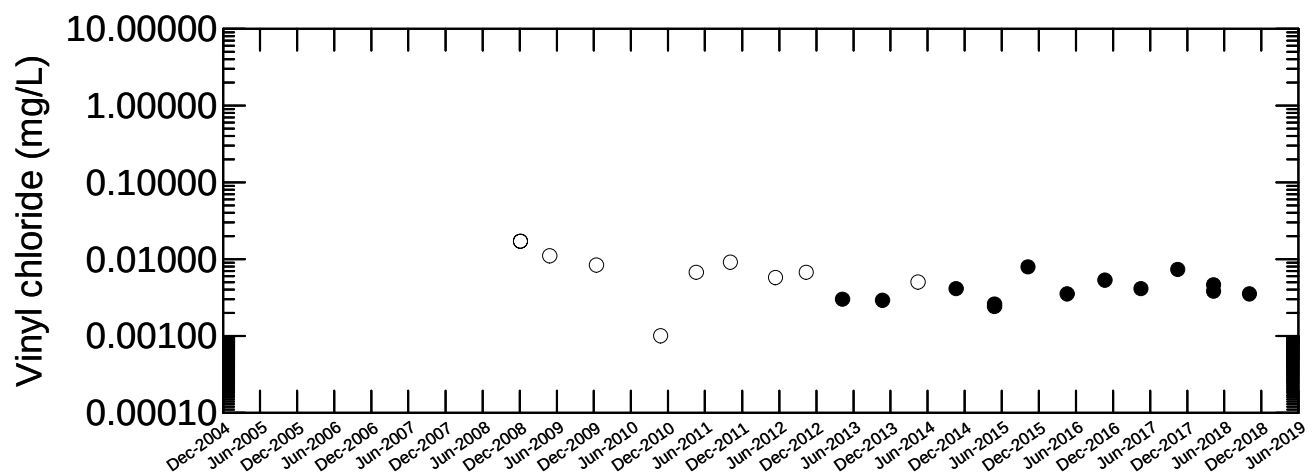
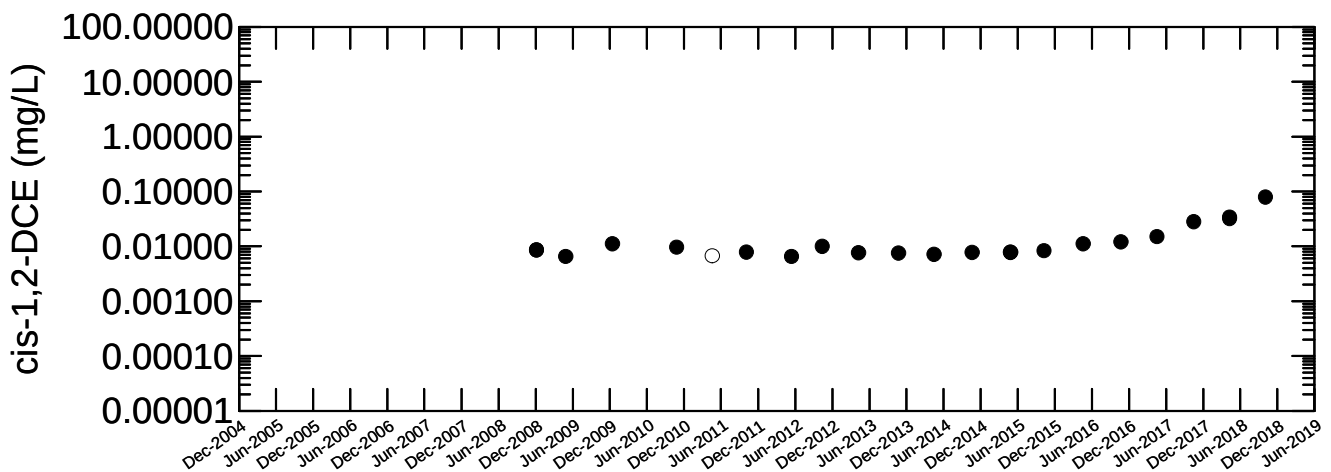
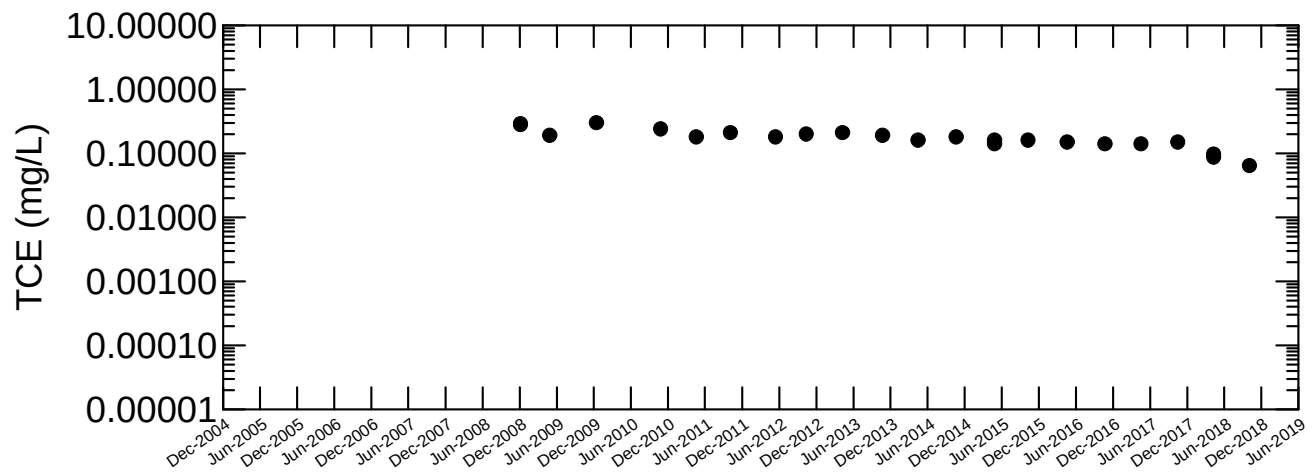
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 49

CONCENTRATION vs. TIME GRAPHS
 2018 ANNUAL GROUNDWATER MONITORING REPORT
 2915 MARTIN LUTHER KING JR. BOULEVARD
 Anderson, Indiana





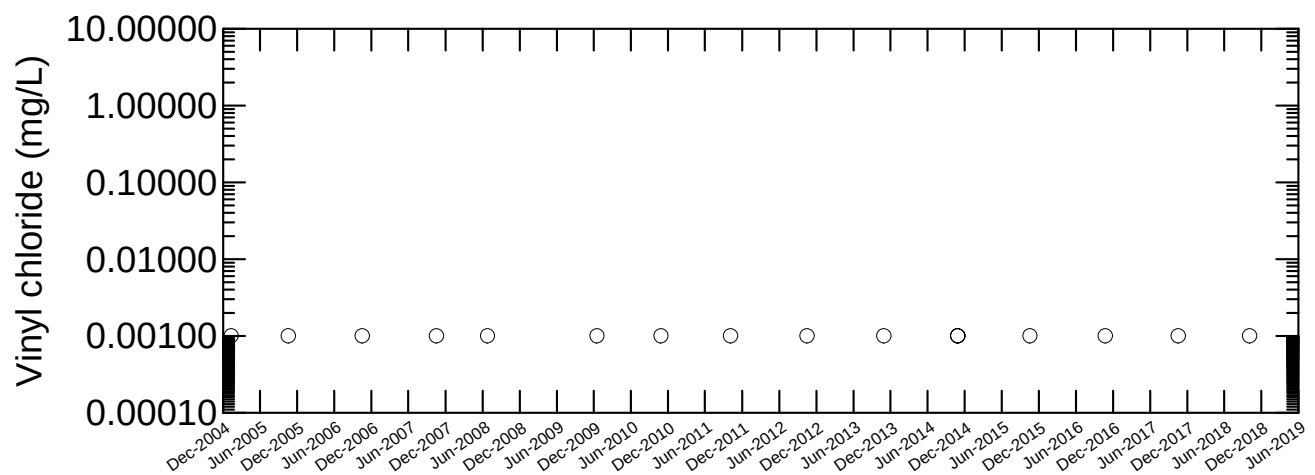
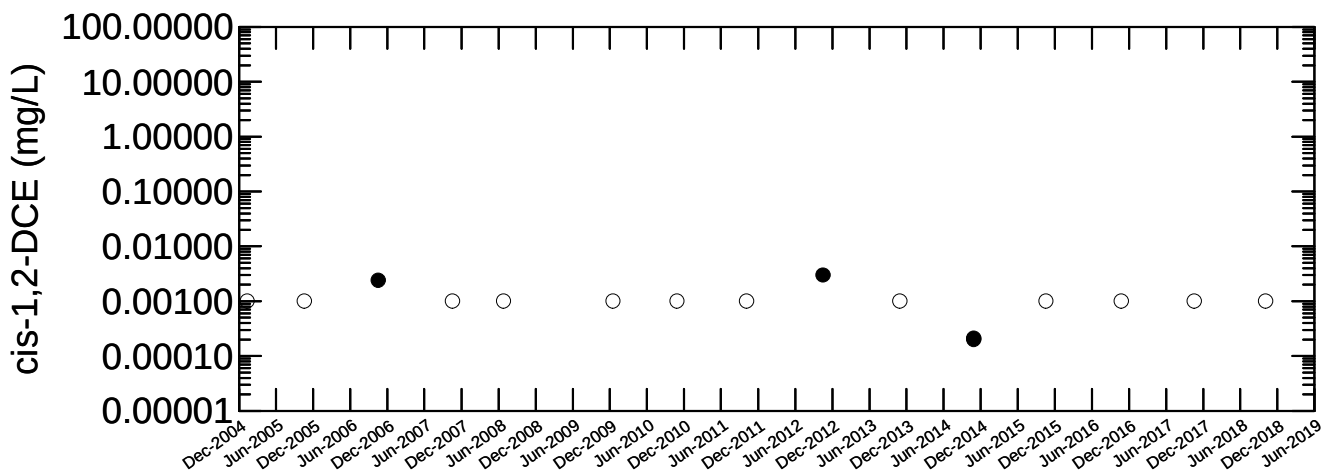
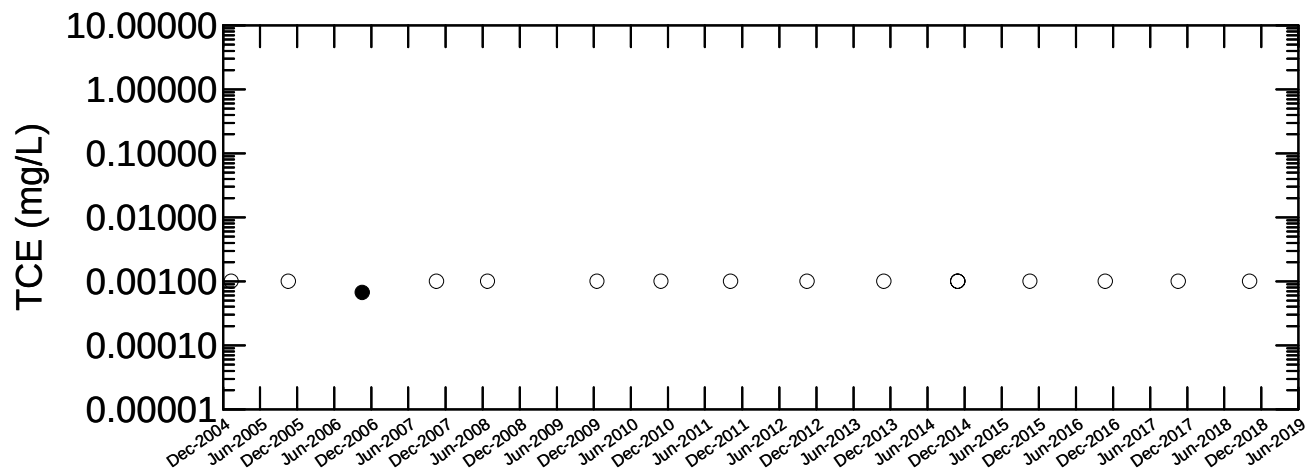
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 51

CONCENTRATION vs. TIME GRAPHS
 2018 ANNUAL GROUNDWATER MONITORING REPORT
 2915 MARTIN LUTHER KING JR. BOULEVARD
 Anderson, Indiana





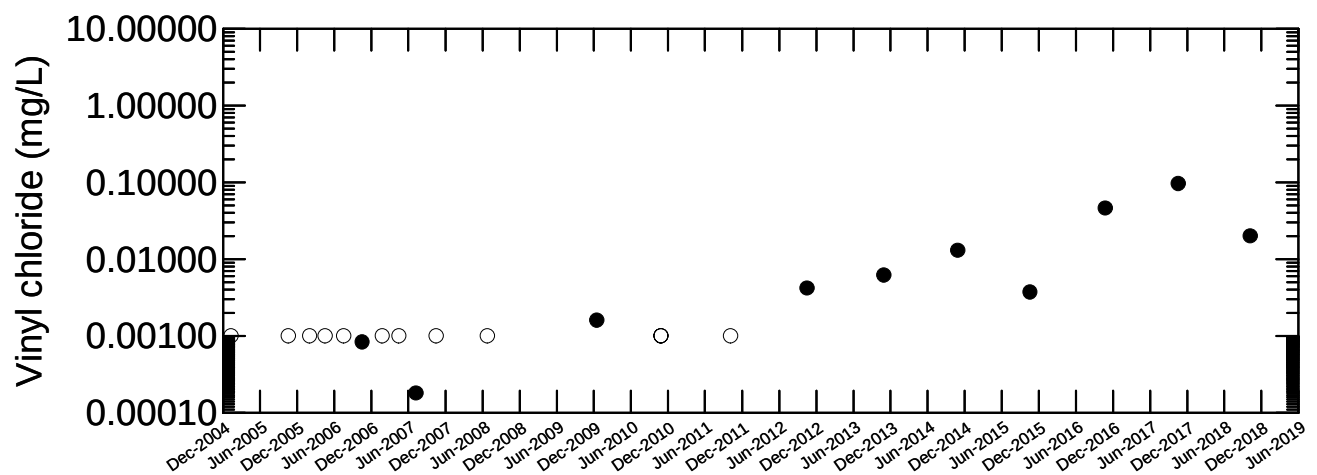
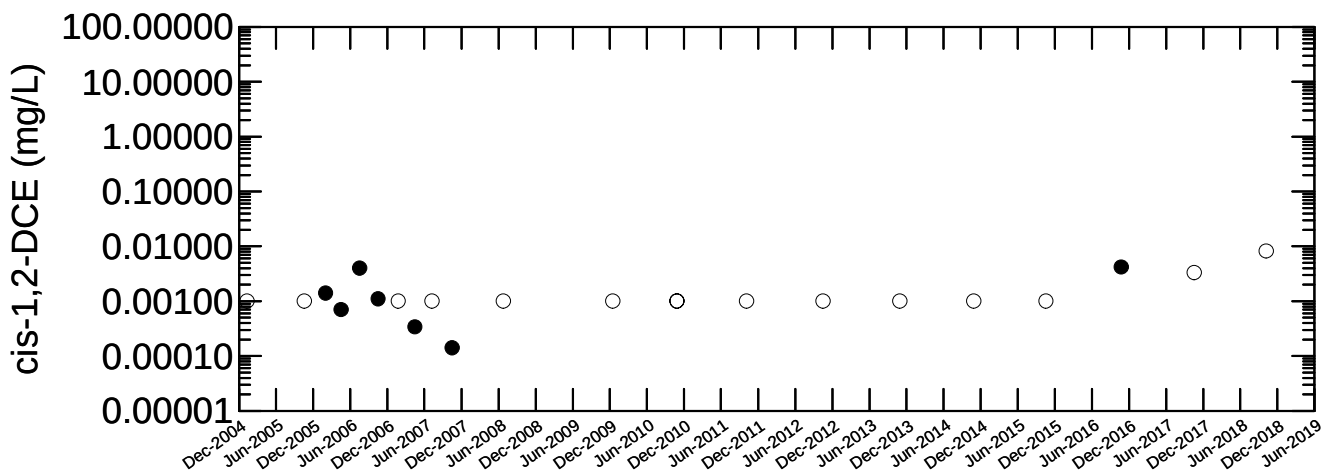
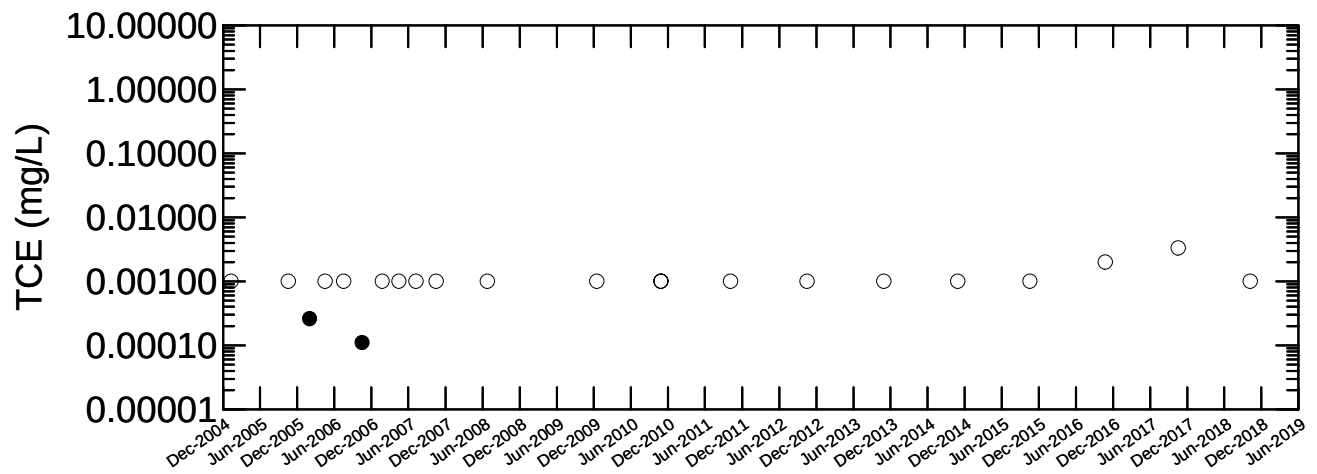
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 56

CONCENTRATION vs. TIME GRAPHS
2018 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





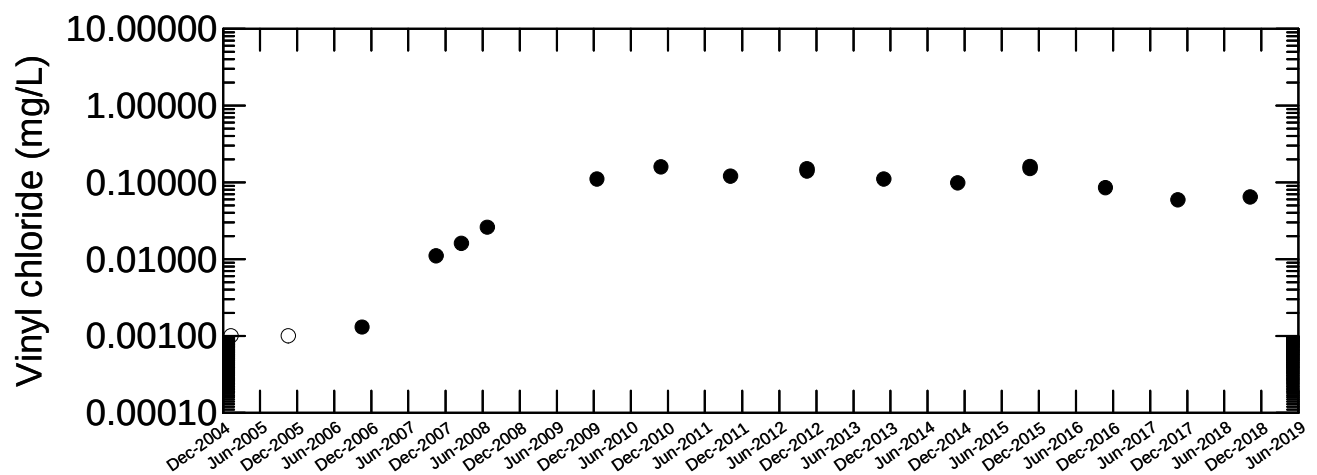
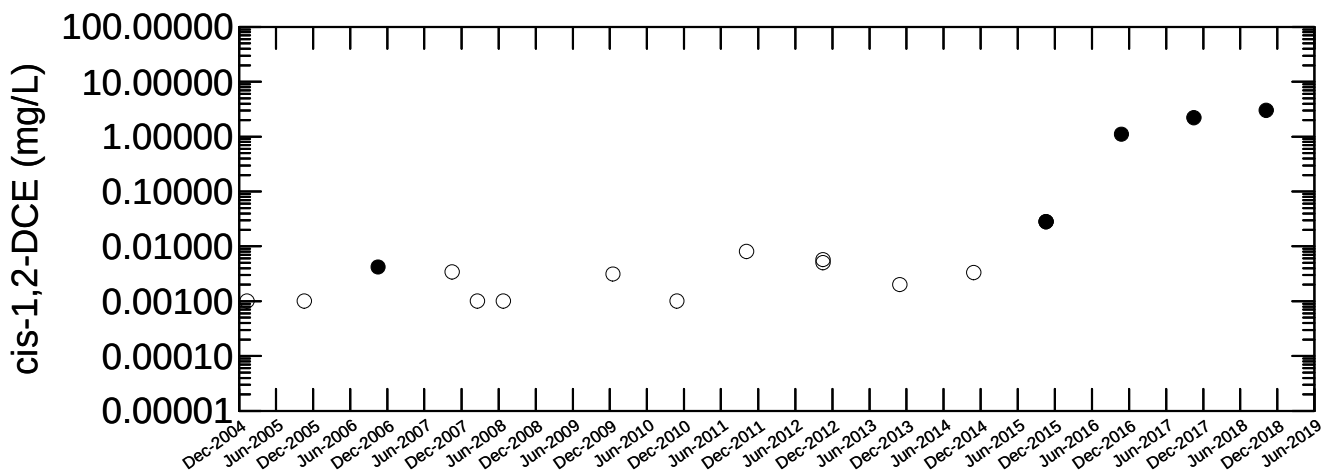
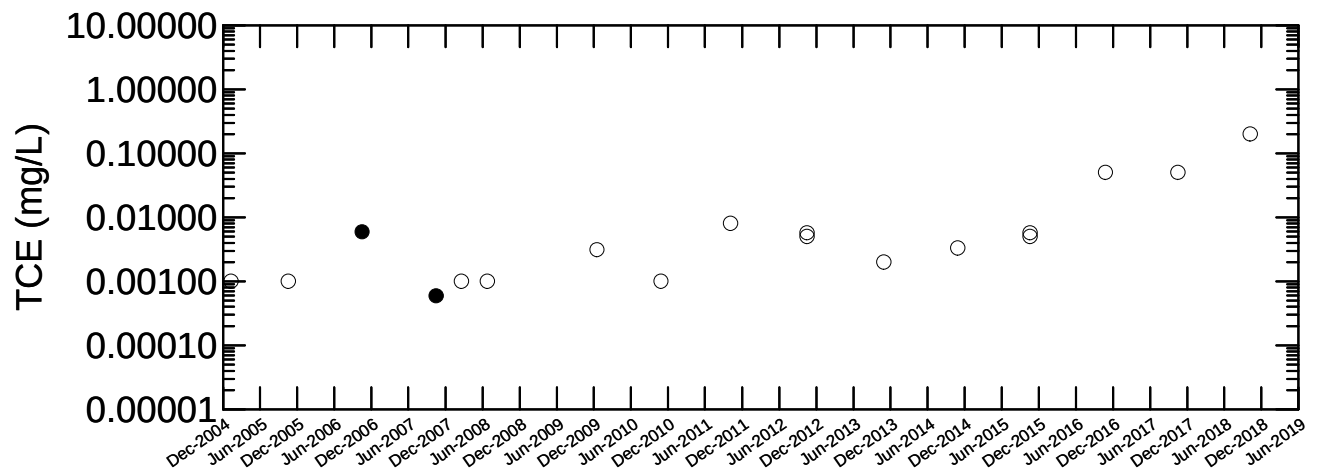
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 57

CONCENTRATION vs. TIME GRAPHS
 2018 ANNUAL GROUNDWATER MONITORING REPORT
 2915 MARTIN LUTHER KING JR. BOULEVARD
 Anderson, Indiana





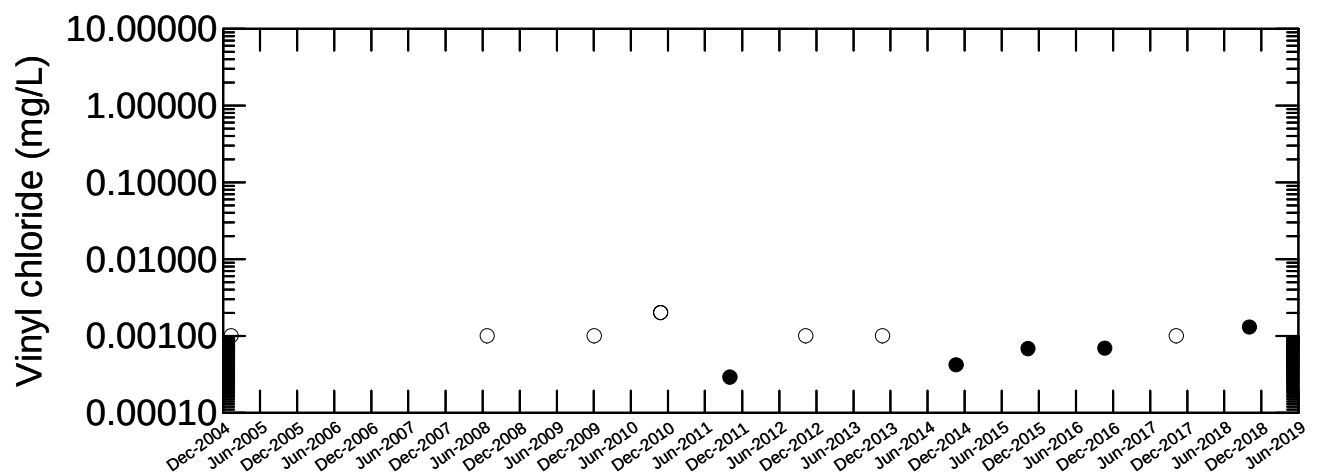
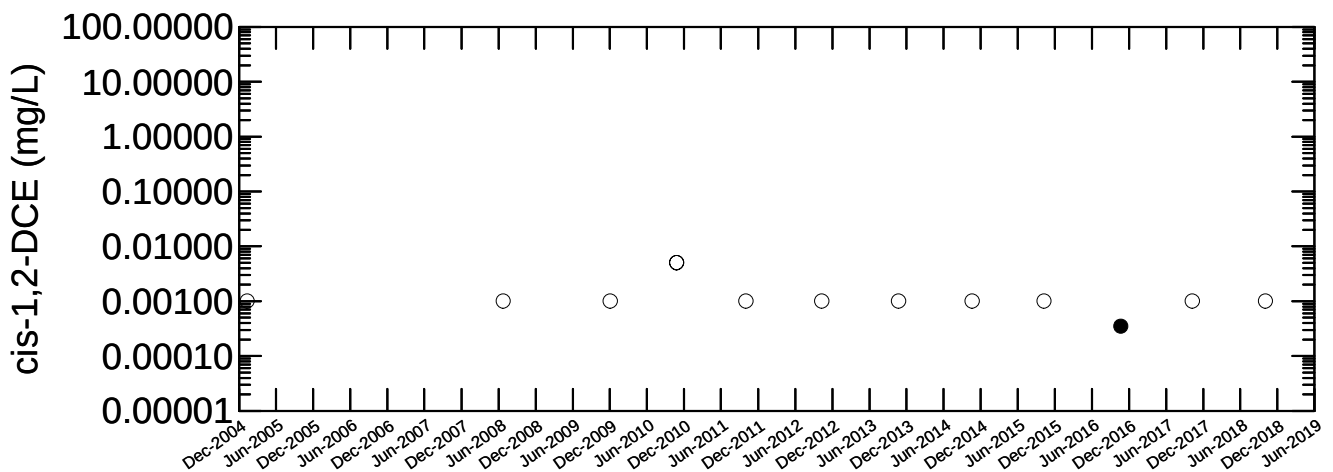
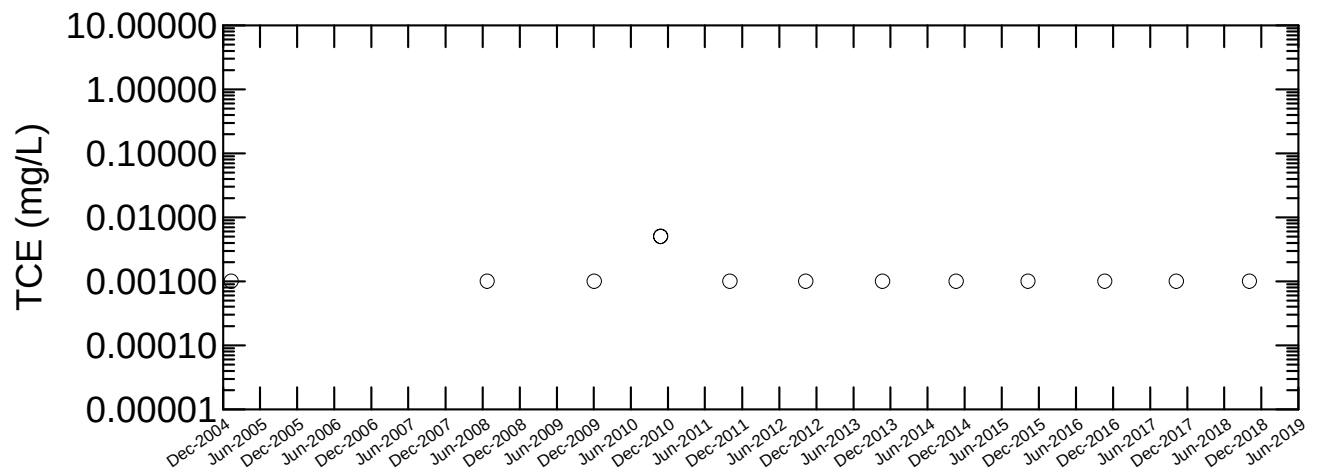
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 58

CONCENTRATION vs. TIME GRAPHS
 2018 ANNUAL GROUNDWATER MONITORING REPORT
 2915 MARTIN LUTHER KING JR. BOULEVARD
 Anderson, Indiana





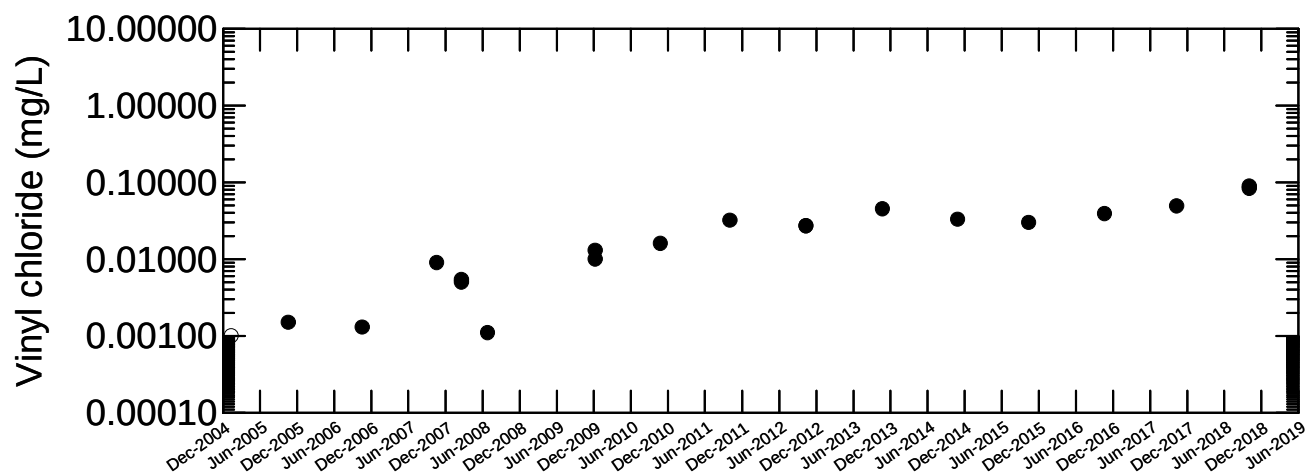
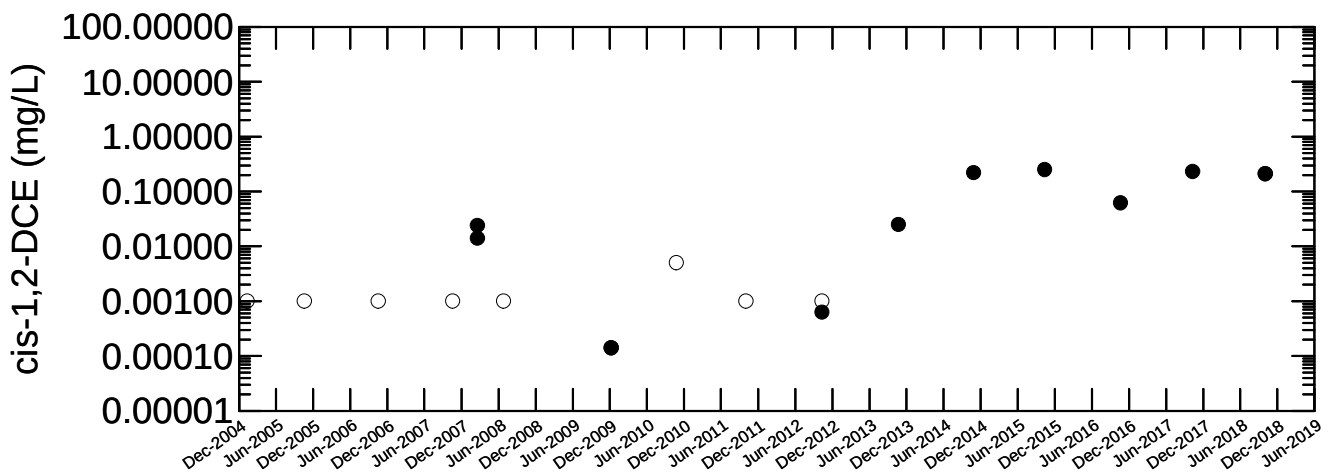
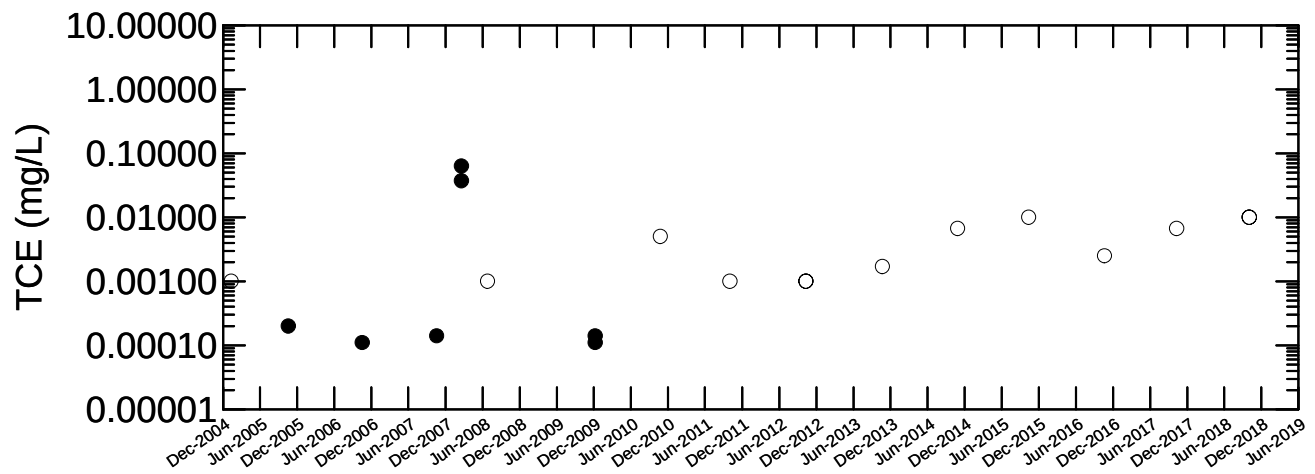
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 61

CONCENTRATION vs. TIME GRAPHS
 2018 ANNUAL GROUNDWATER MONITORING REPORT
 2915 MARTIN LUTHER KING JR. BOULEVARD
 Anderson, Indiana





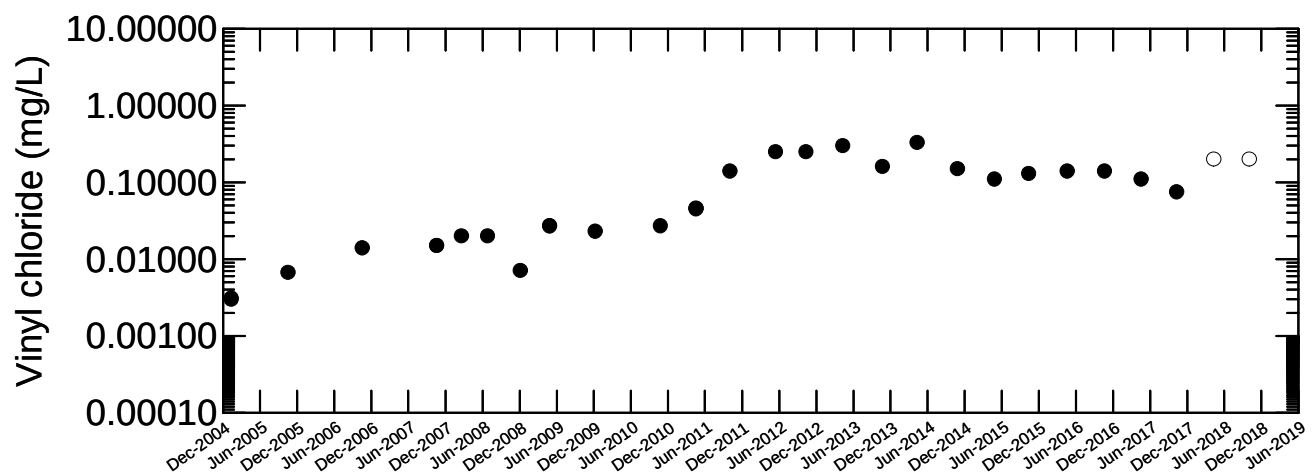
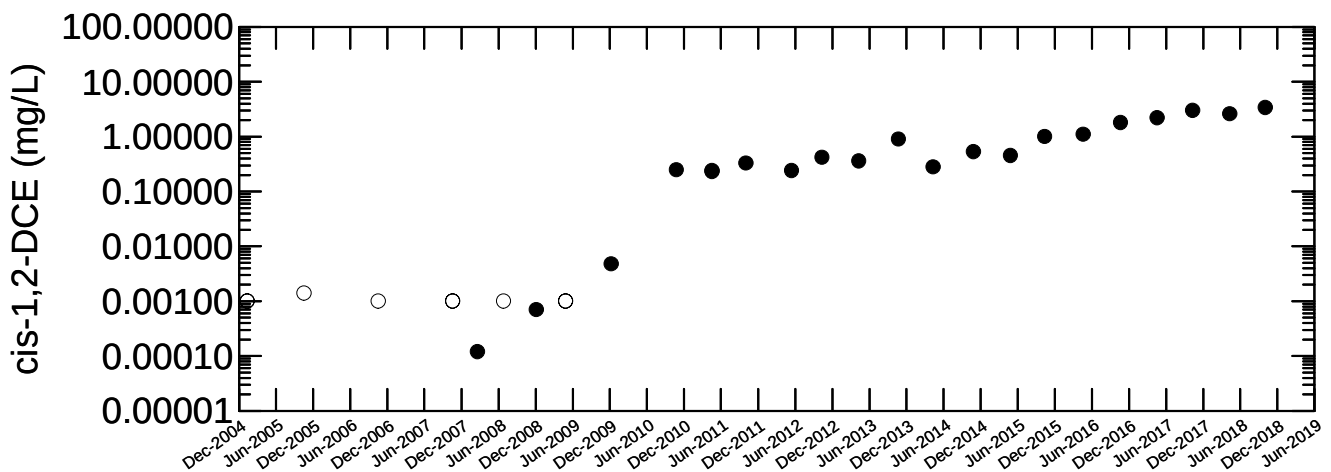
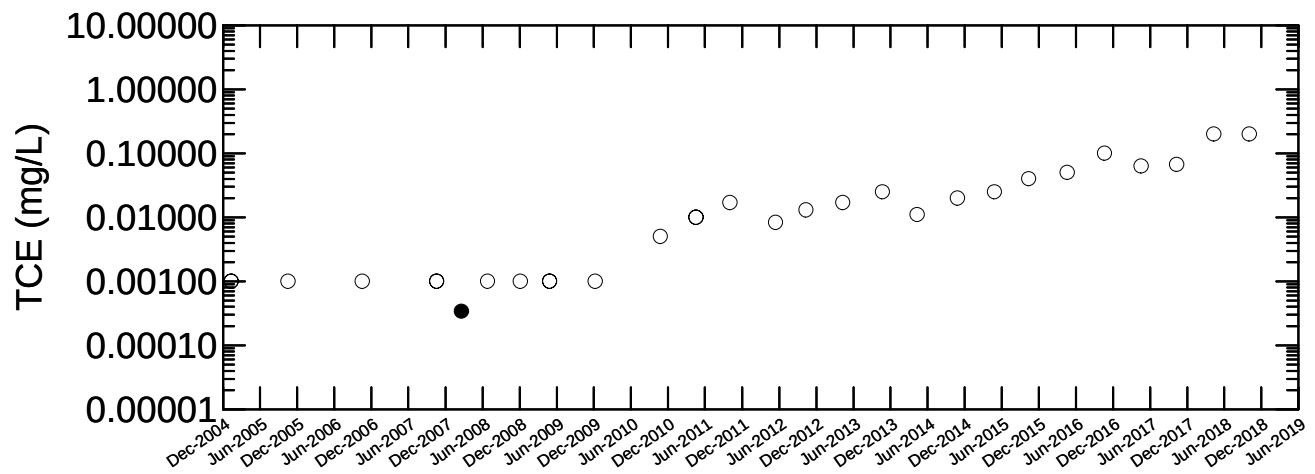
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 64

CONCENTRATION vs. TIME GRAPHS
 2018 ANNUAL GROUNDWATER MONITORING REPORT
 2915 MARTIN LUTHER KING JR. BOULEVARD
 Anderson, Indiana





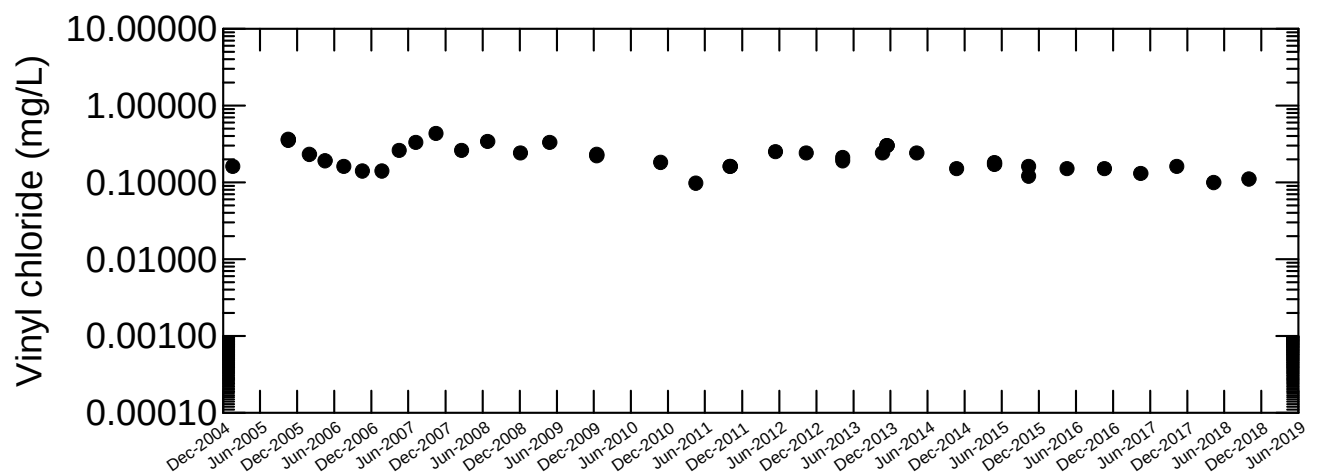
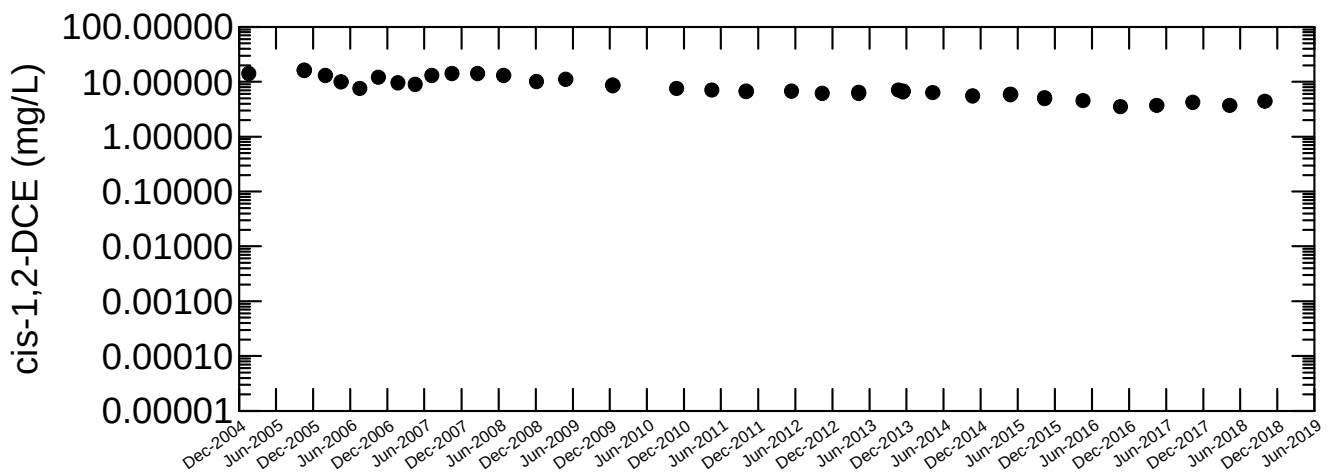
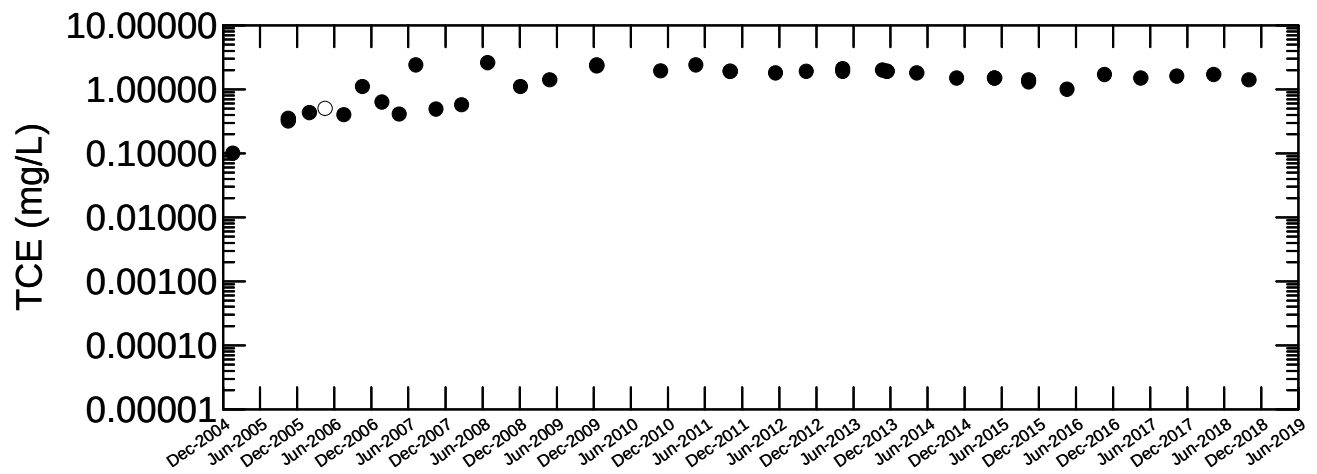
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 66

CONCENTRATION vs. TIME GRAPHS
 2018 ANNUAL GROUNDWATER MONITORING REPORT
 2915 MARTIN LUTHER KING JR. BOULEVARD
 Anderson, Indiana





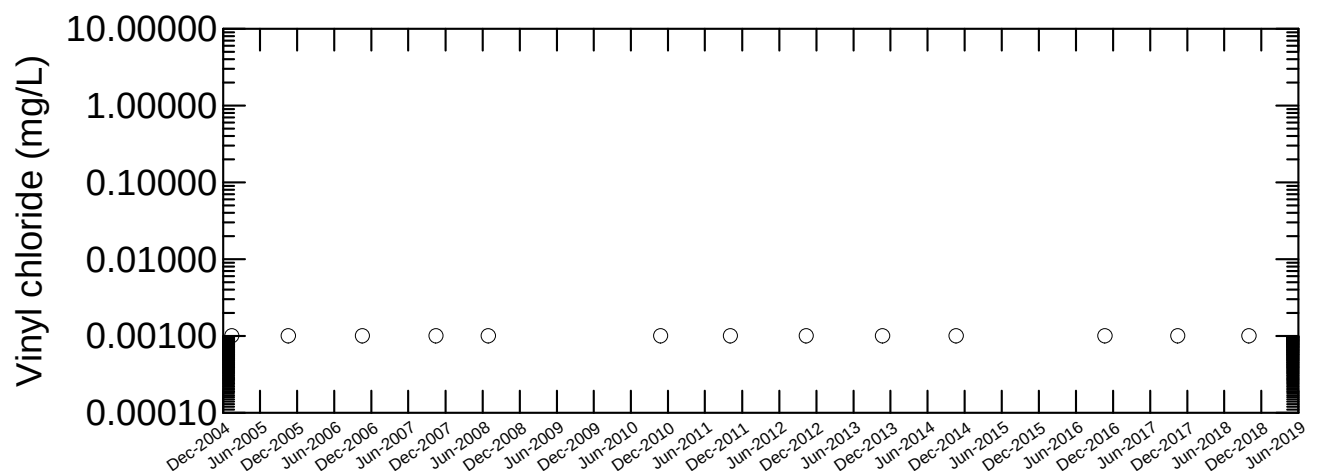
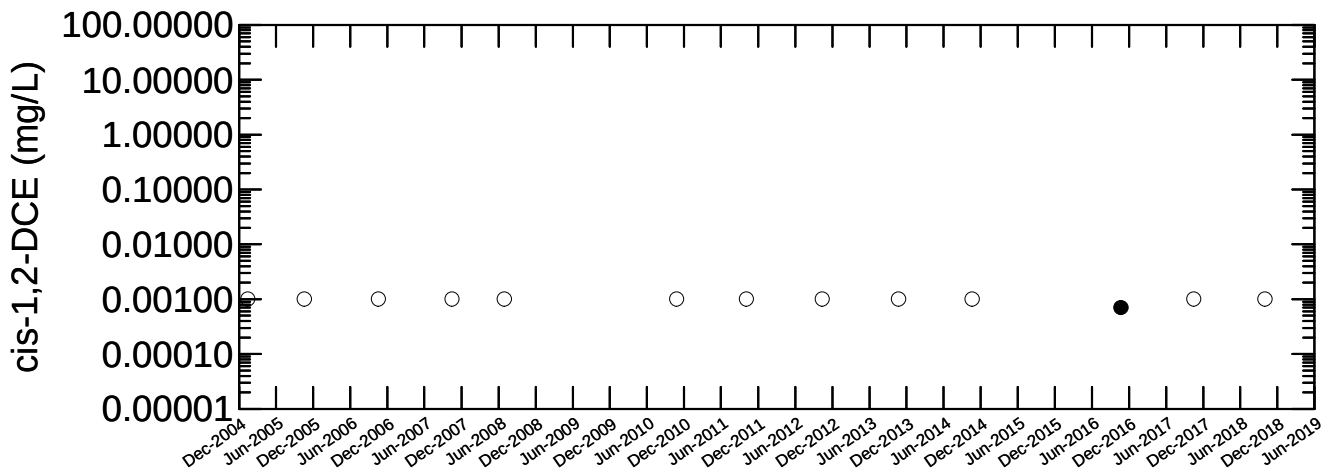
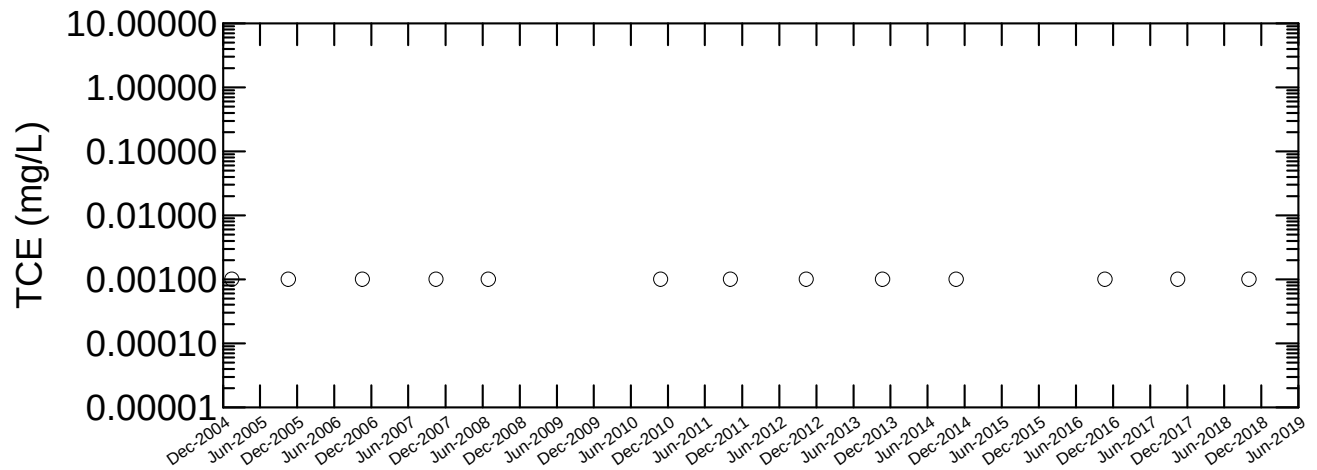
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 68

CONCENTRATION vs. TIME GRAPHS
 2018 ANNUAL GROUNDWATER MONITORING REPORT
 2915 MARTIN LUTHER KING JR. BOULEVARD
 Anderson, Indiana





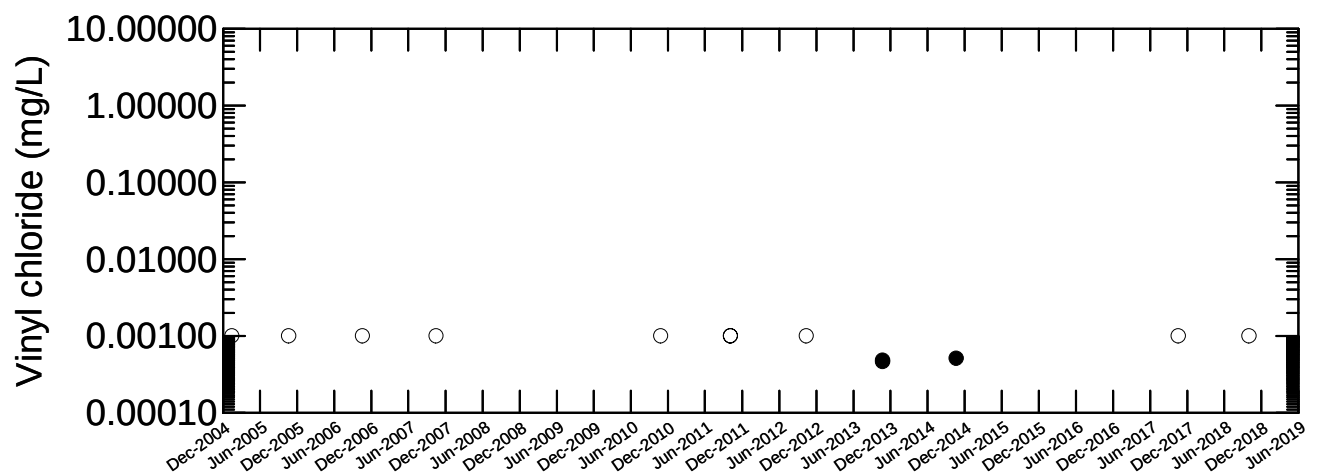
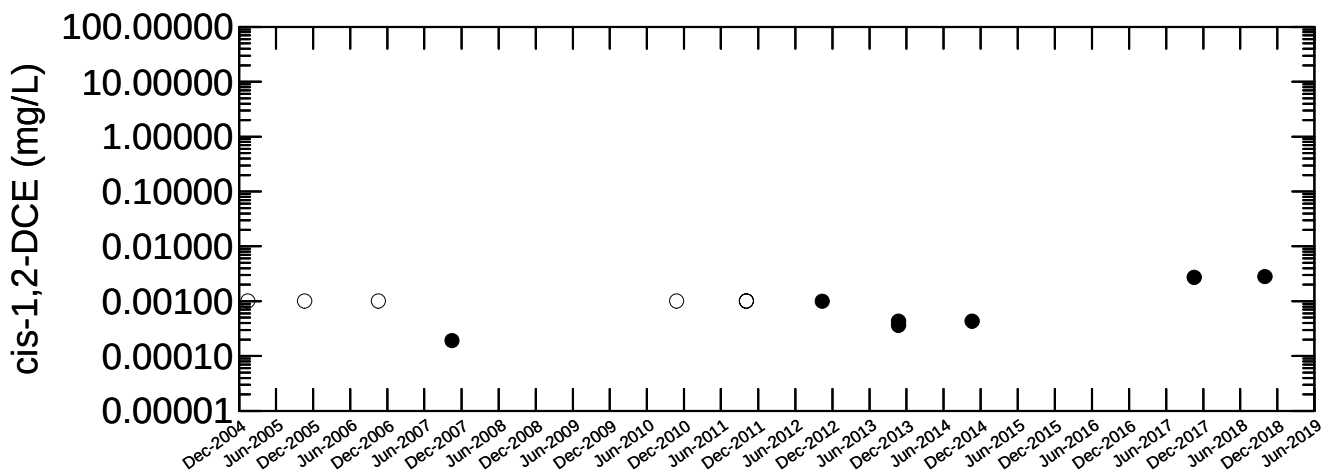
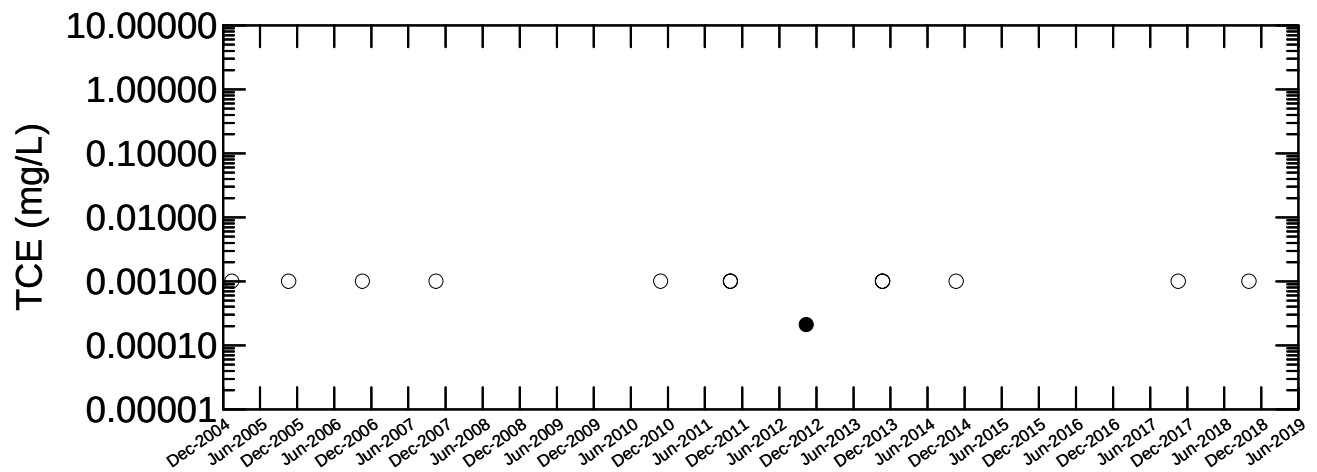
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 75

CONCENTRATION vs. TIME GRAPHS
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 2915 MARTIN LUTHER KING JR. BOULEVARD
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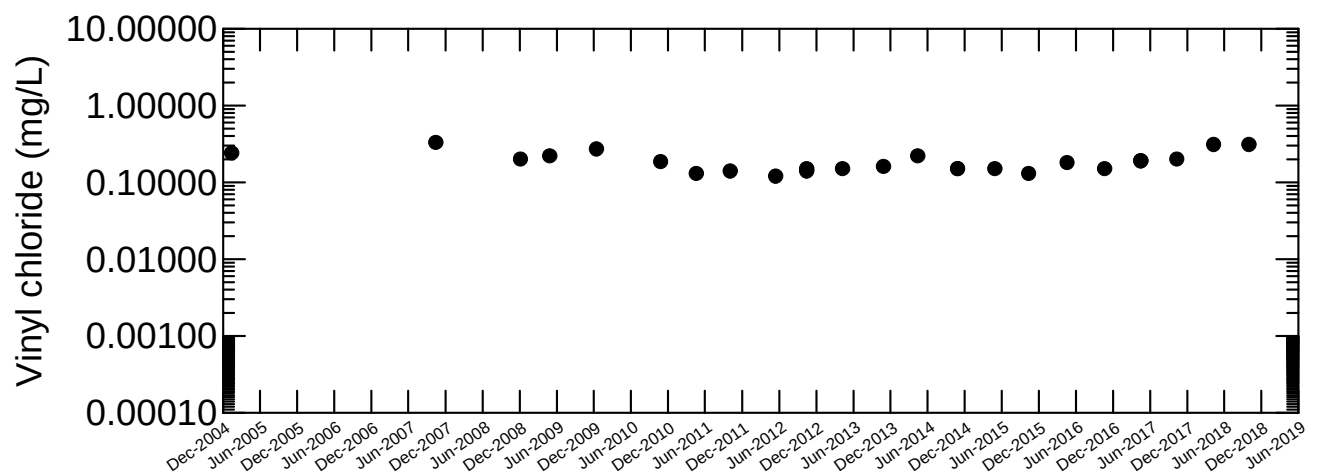
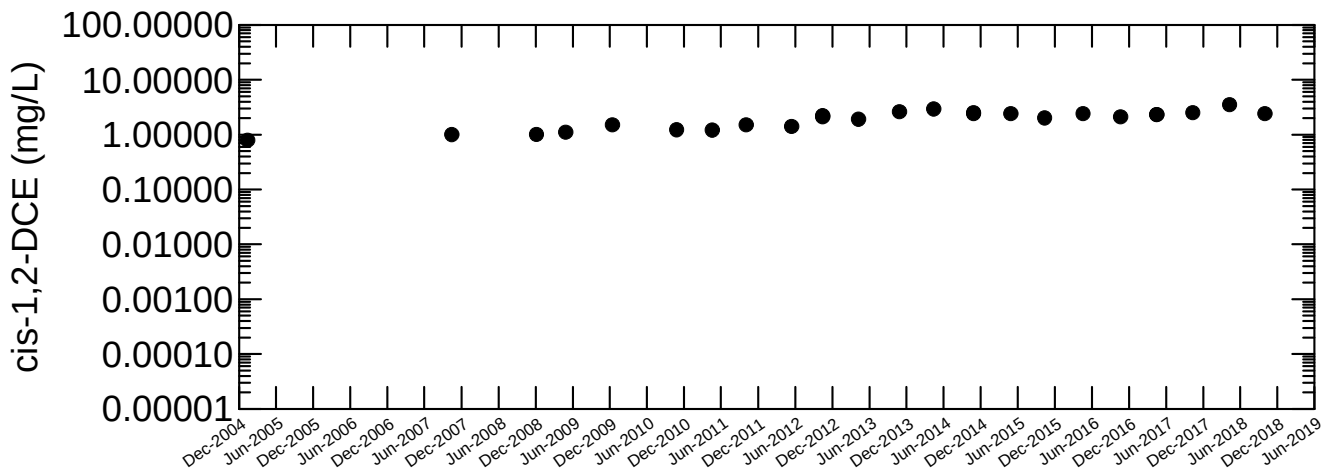
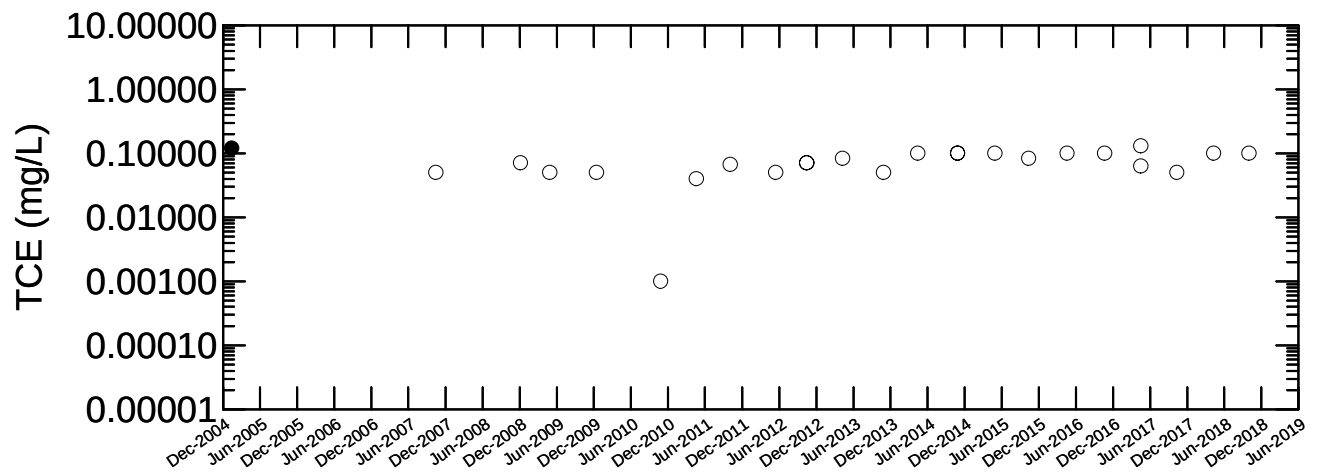
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 76/MW 76R-17

CONCENTRATION vs. TIME GRAPHS
 2018 ANNUAL GROUNDWATER MONITORING REPORT
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 Anderson, Indiana





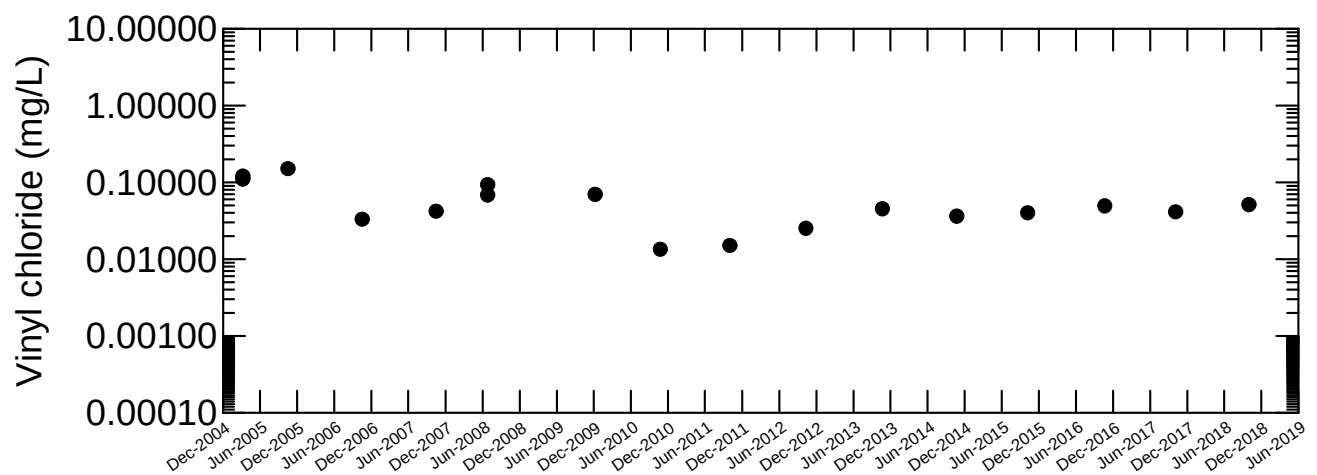
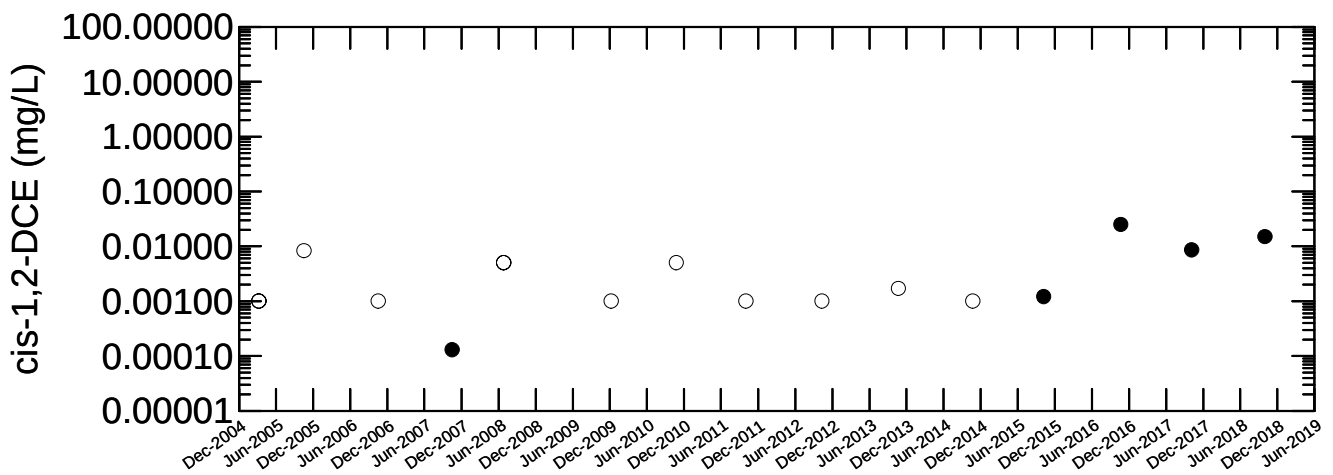
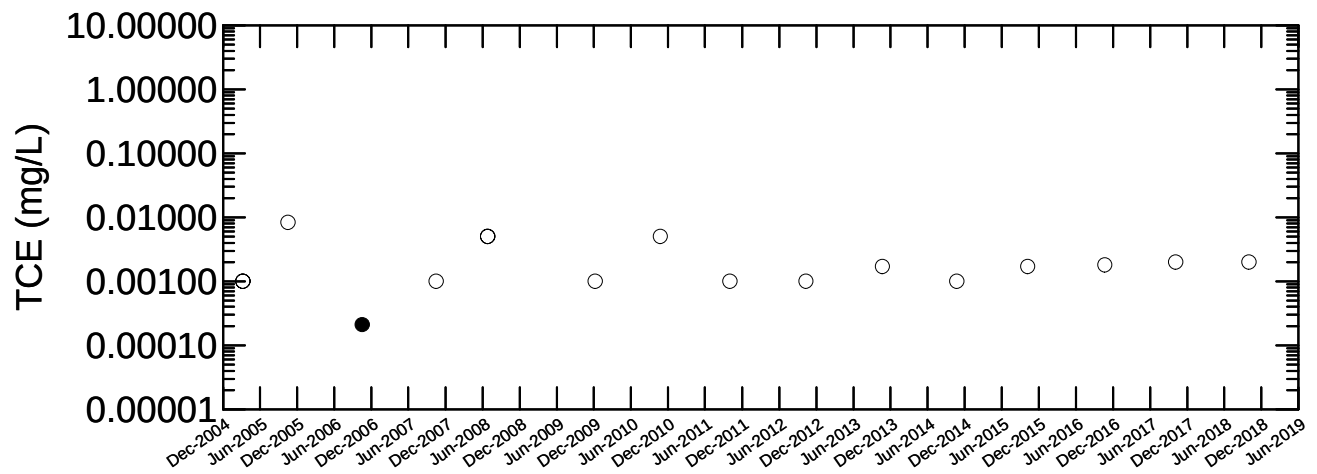
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 79

CONCENTRATION vs. TIME GRAPHS
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 2915 MARTIN LUTHER KING JR. BOULEVARD
 Anderson, Indiana





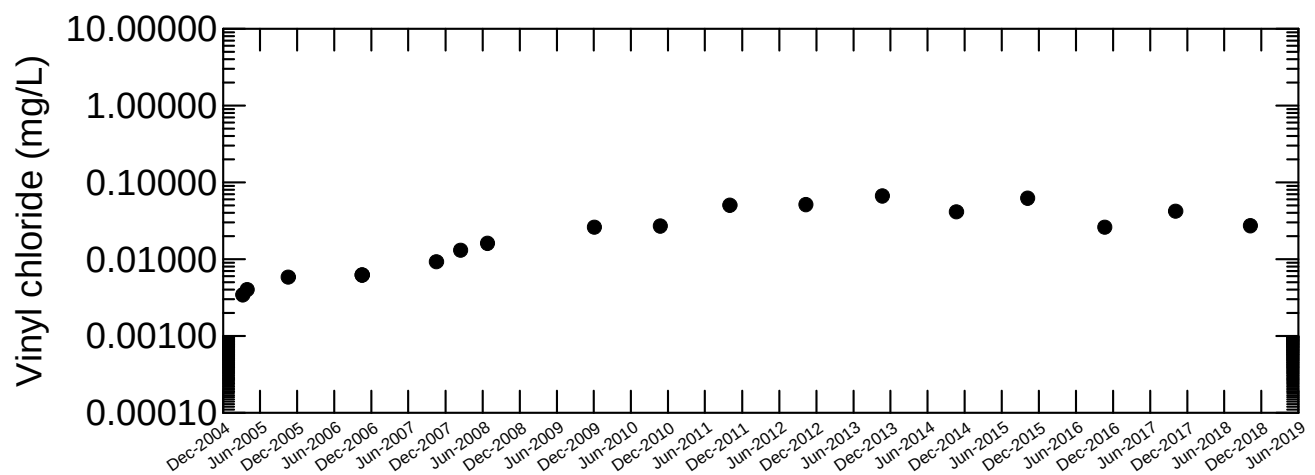
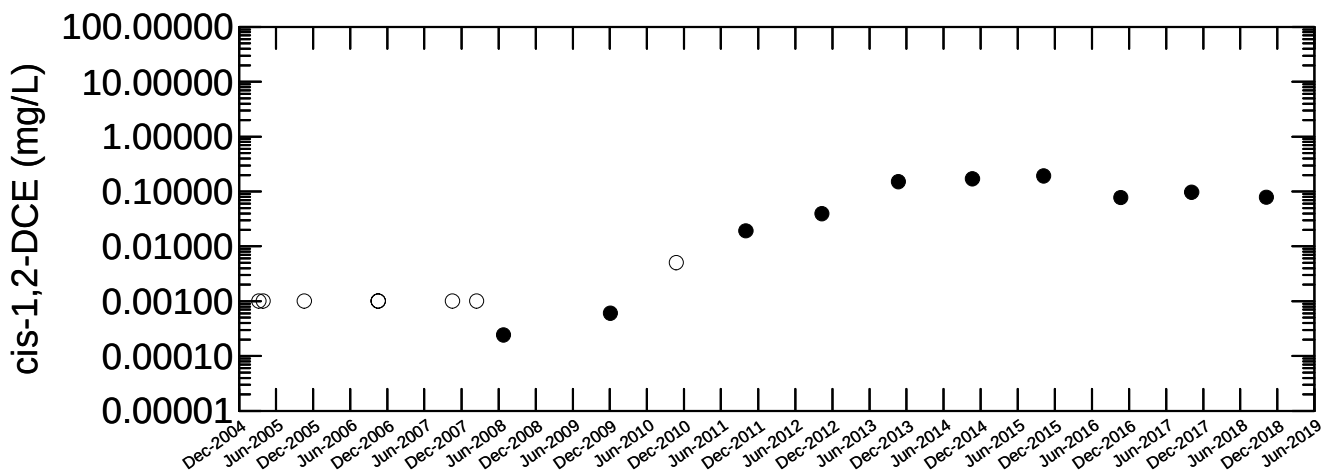
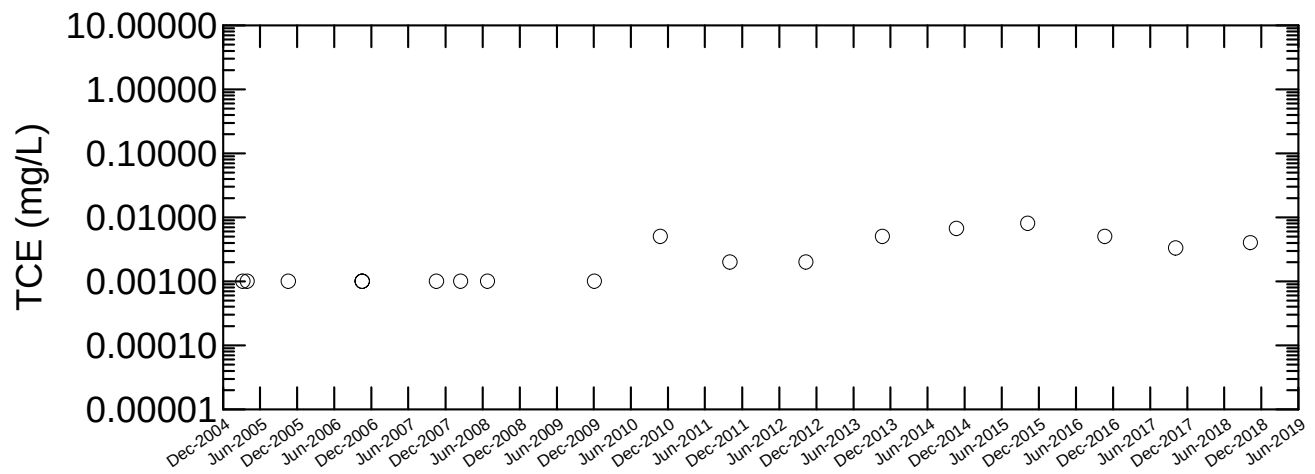
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 80

CONCENTRATION vs. TIME GRAPHS
2018 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





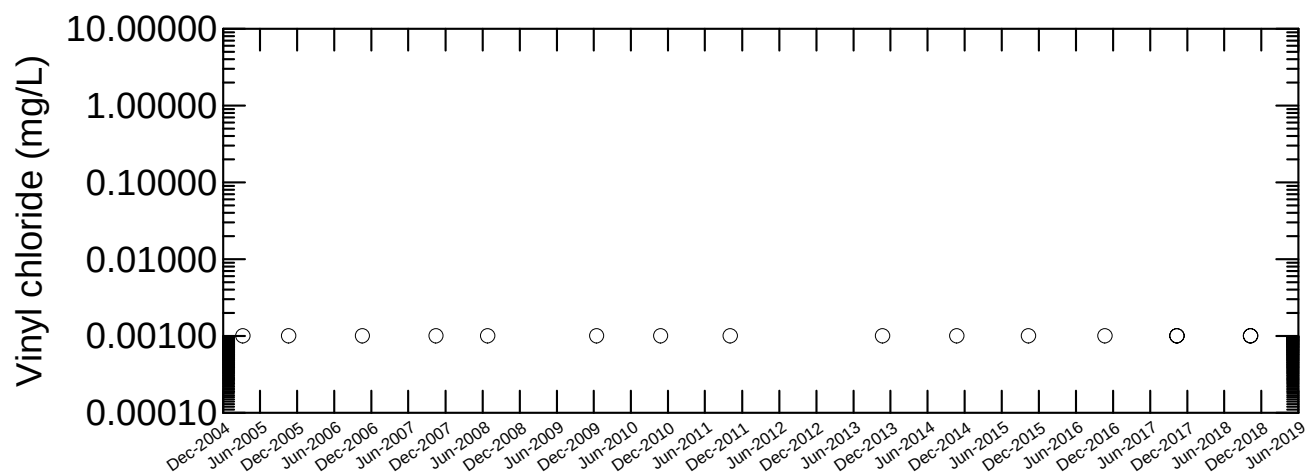
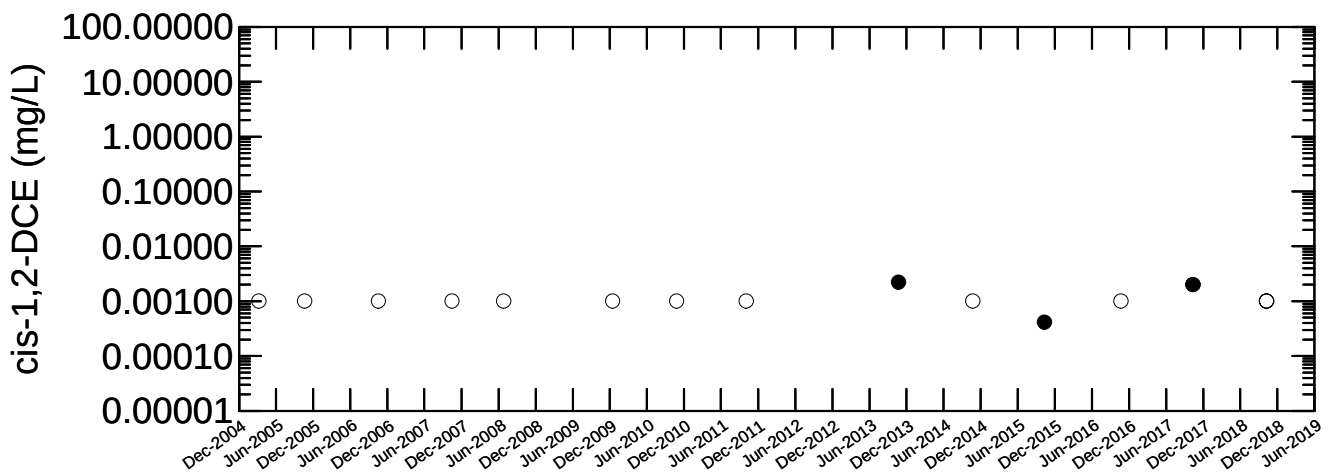
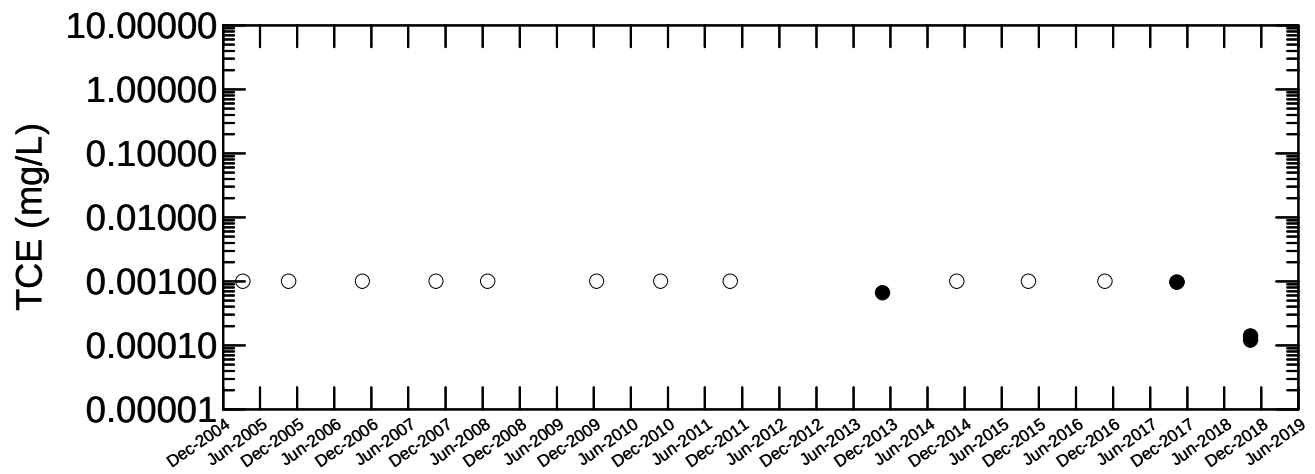
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 81

CONCENTRATION vs. TIME GRAPHS
 2018 ANNUAL GROUNDWATER MONITORING REPORT
 2915 MARTIN LUTHER KING JR. BOULEVARD
 Anderson, Indiana





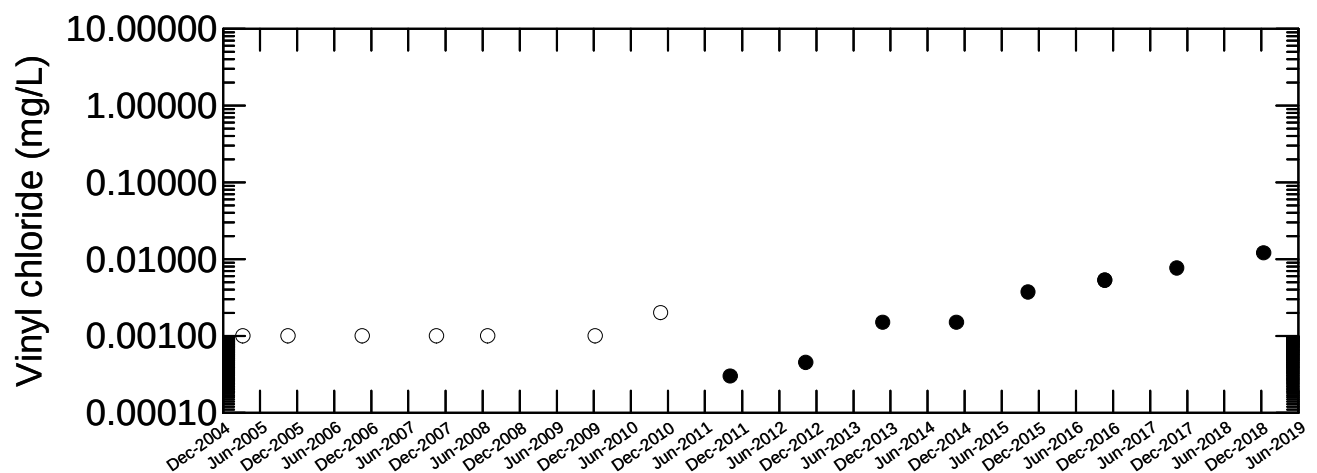
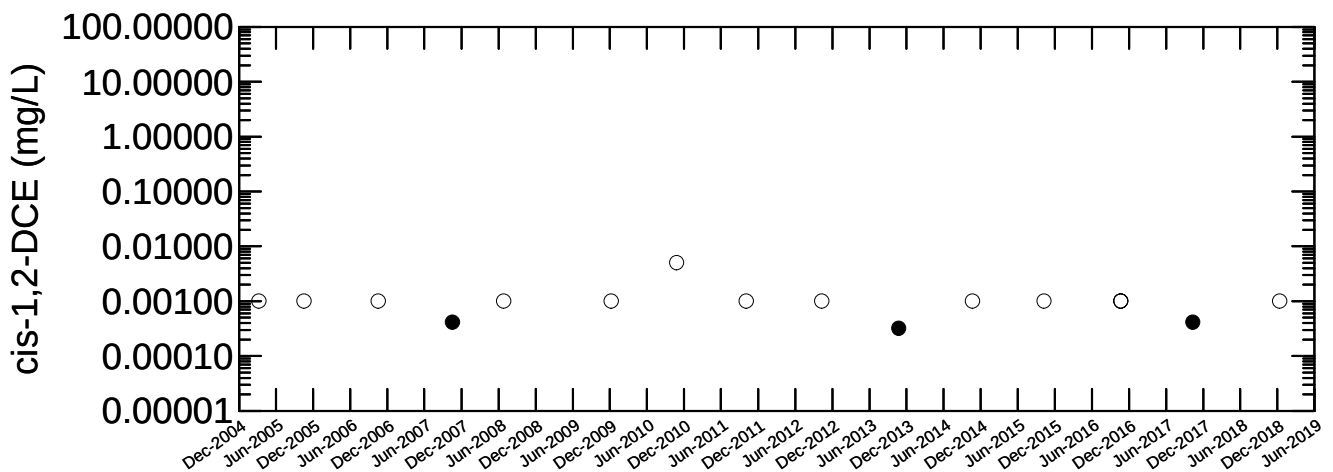
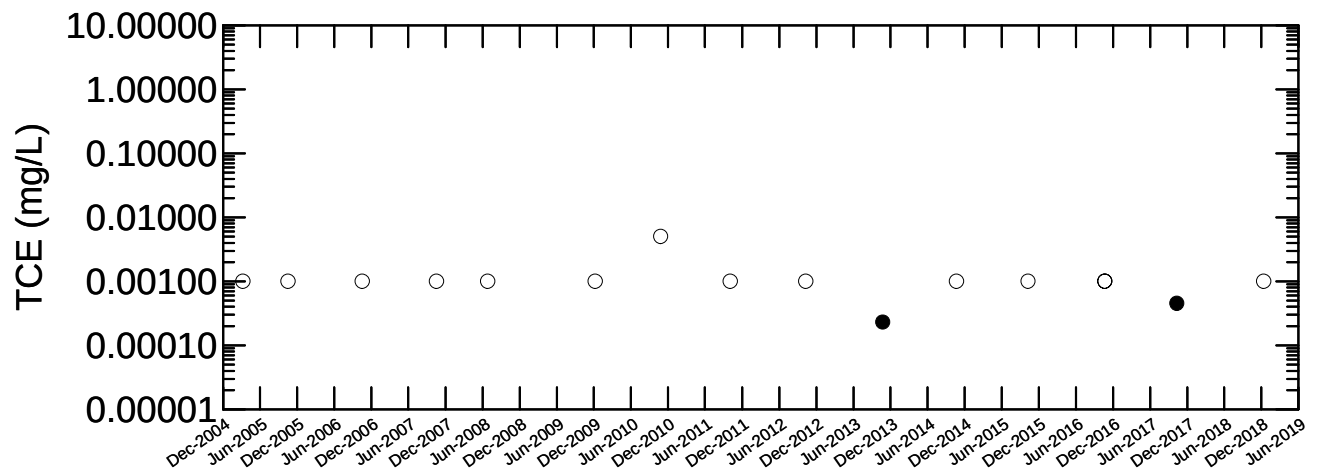
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 82

CONCENTRATION vs. TIME GRAPHS
 2018 ANNUAL GROUNDWATER MONITORING REPORT
 2915 MARTIN LUTHER KING JR. BOULEVARD
 Anderson, Indiana





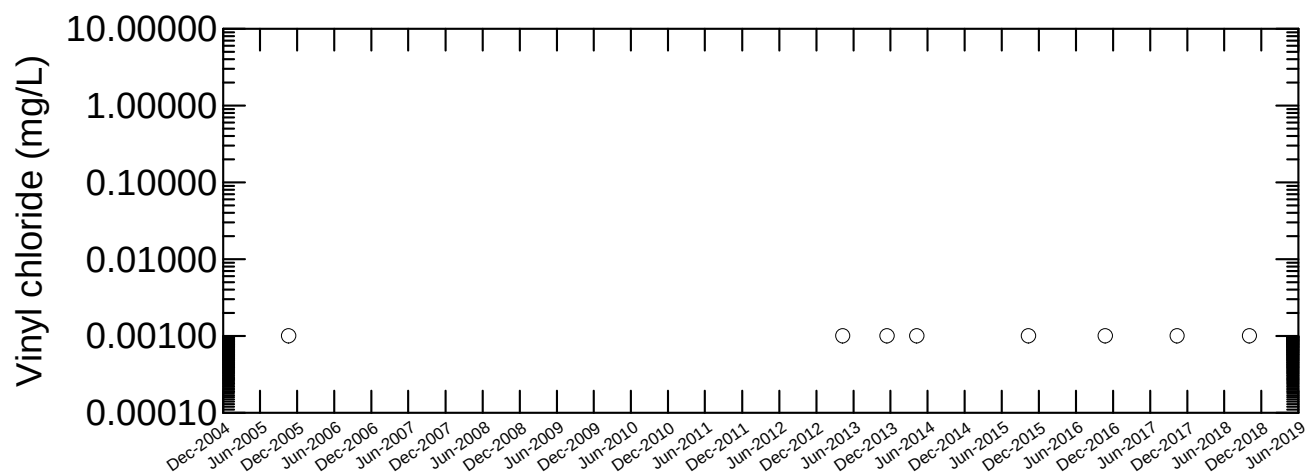
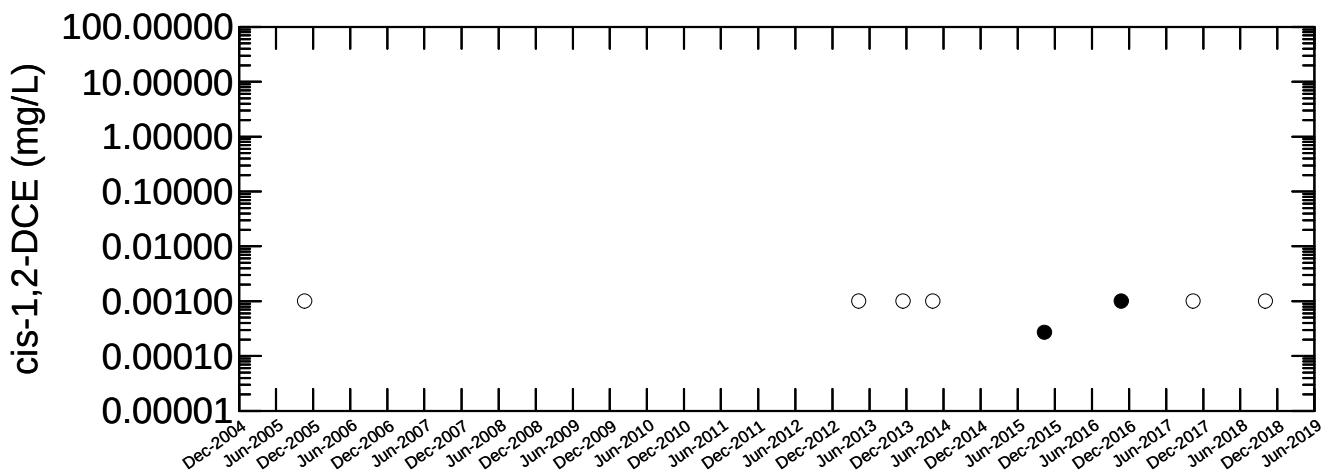
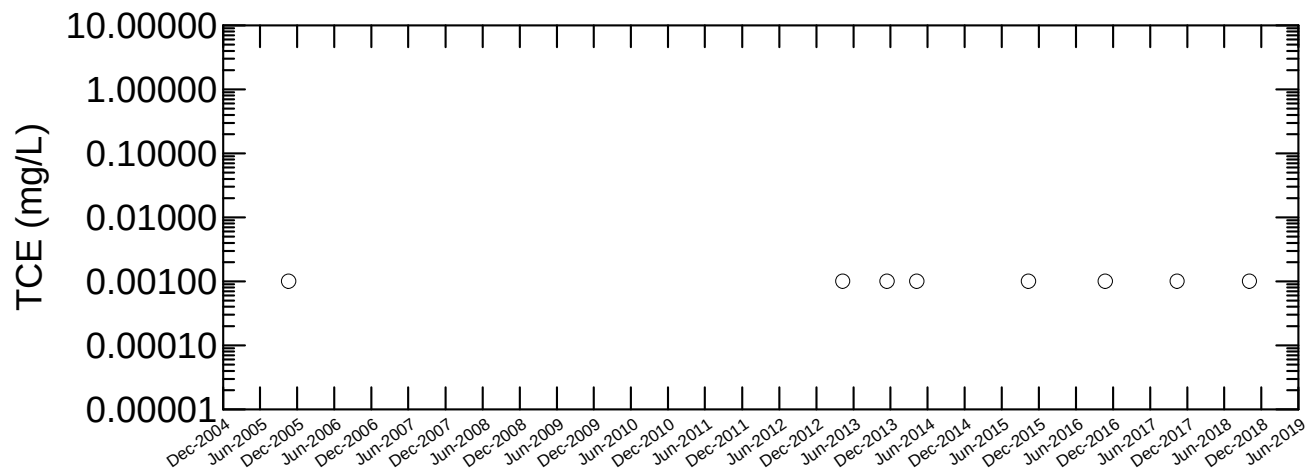
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 83

CONCENTRATION vs. TIME GRAPHS
 2018 ANNUAL GROUNDWATER MONITORING REPORT
 2915 MARTIN LUTHER KING JR. BOULEVARD
 Anderson, Indiana





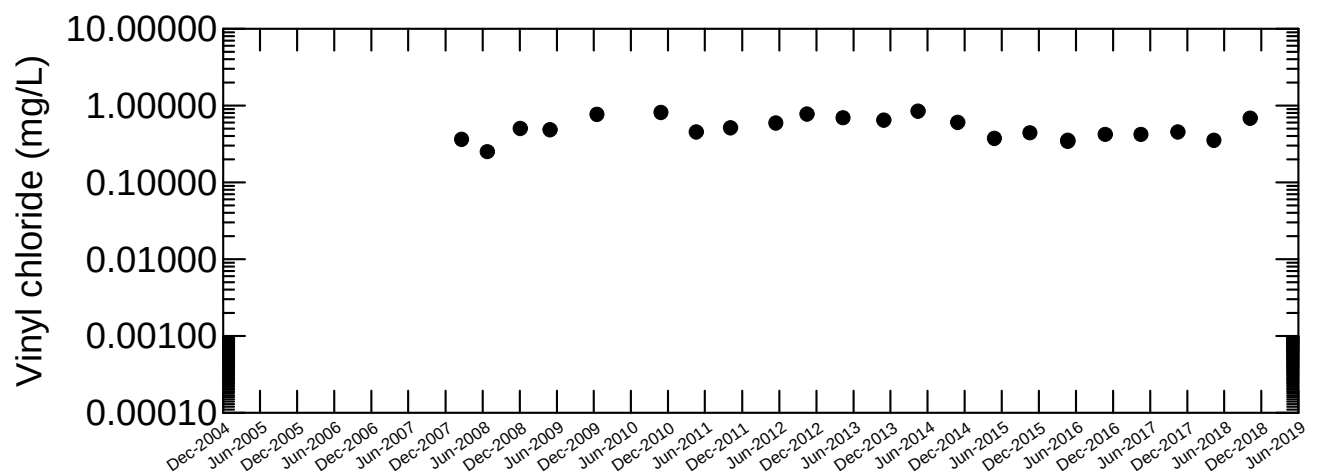
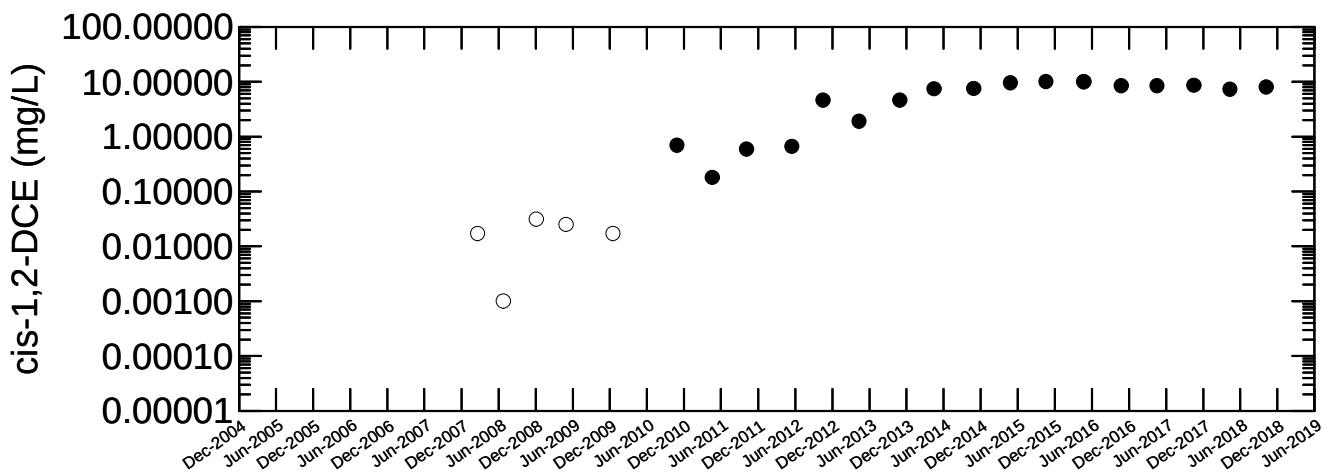
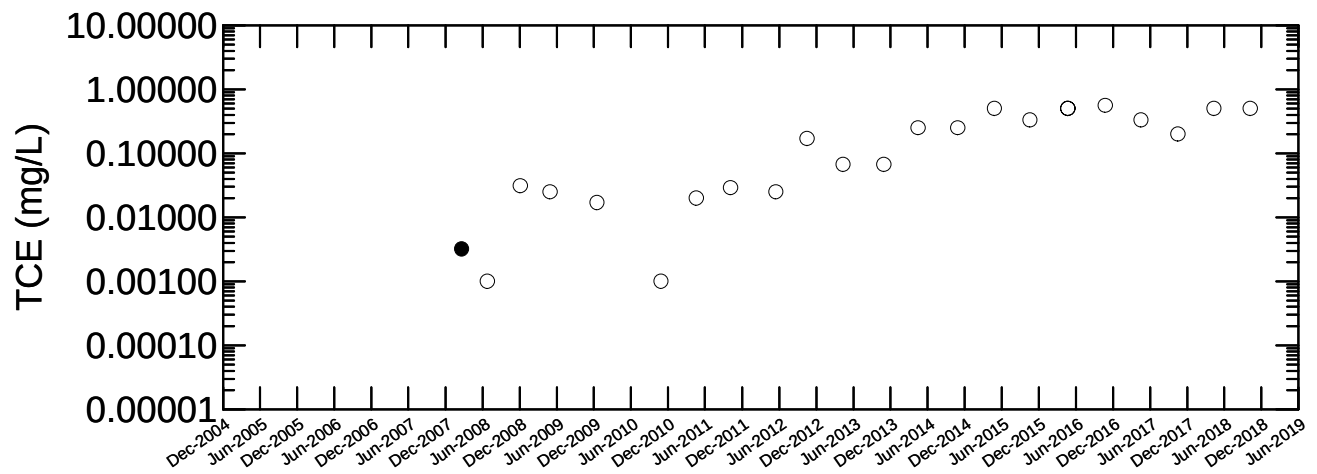
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 84

CONCENTRATION vs. TIME GRAPHS
 2018 ANNUAL GROUNDWATER MONITORING REPORT
 2915 MARTIN LUTHER KING JR. BOULEVARD
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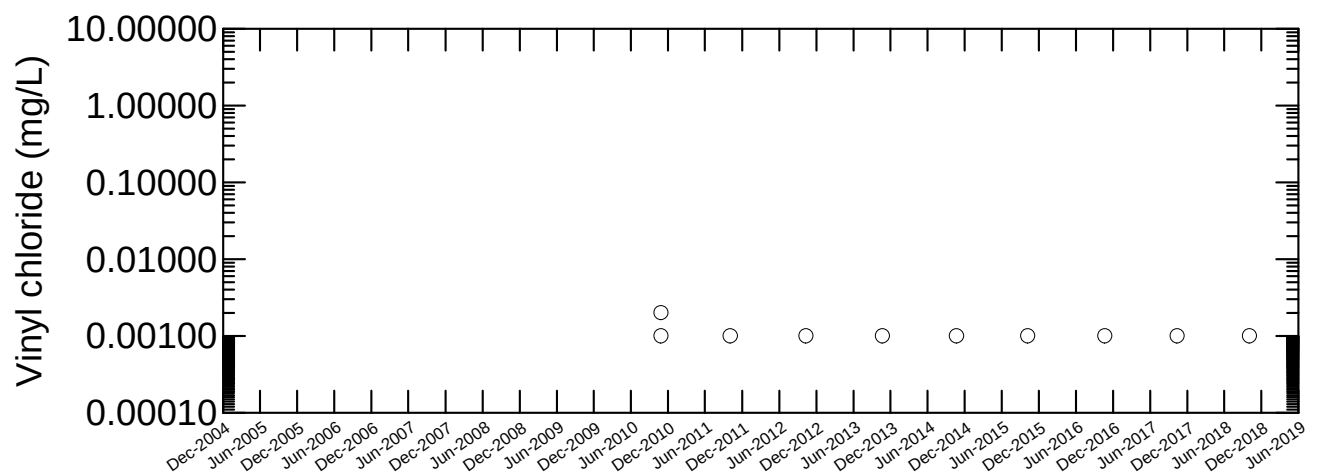
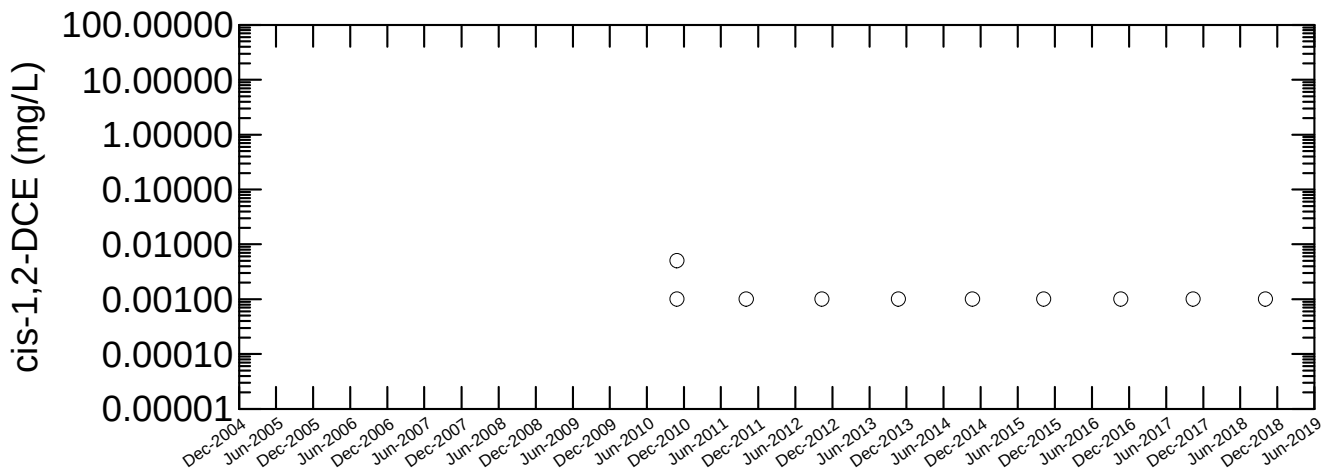
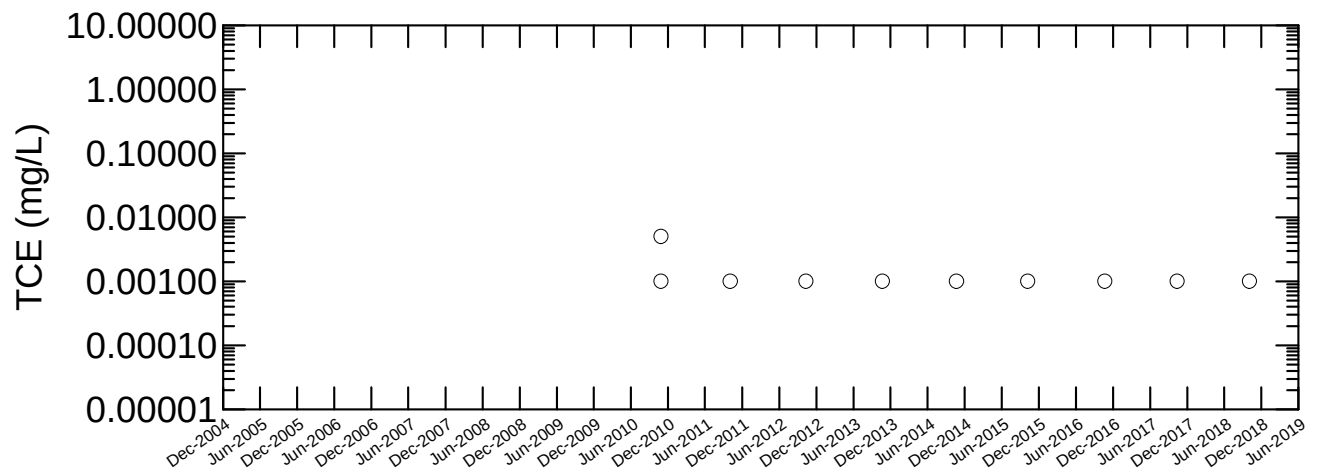
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 85

CONCENTRATION vs. TIME GRAPHS
 2018 ANNUAL GROUNDWATER MONITORING REPORT
 2915 MARTIN LUTHER KING JR. BOULEVARD
 Anderson, Indiana





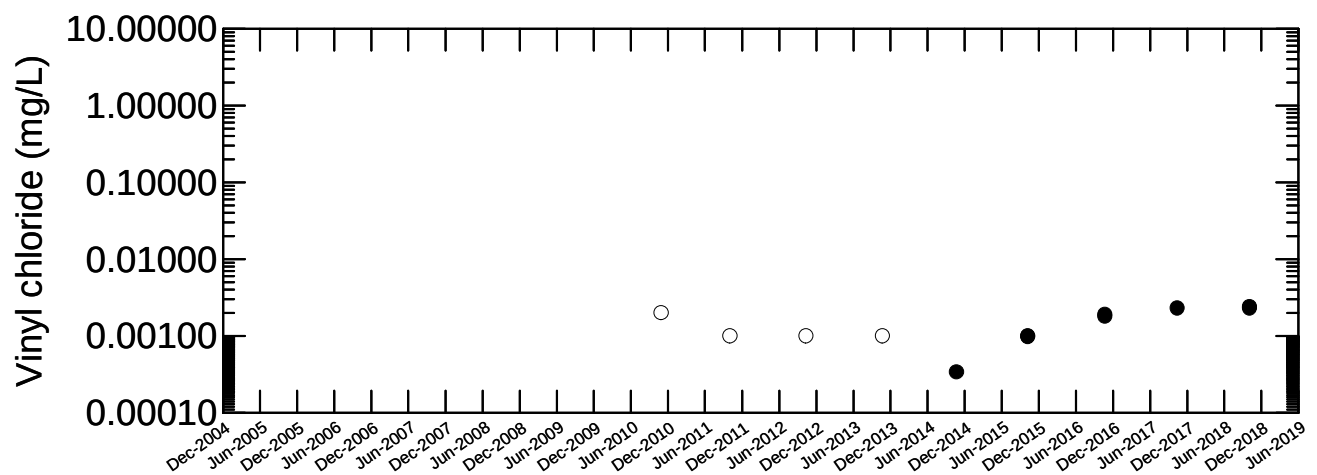
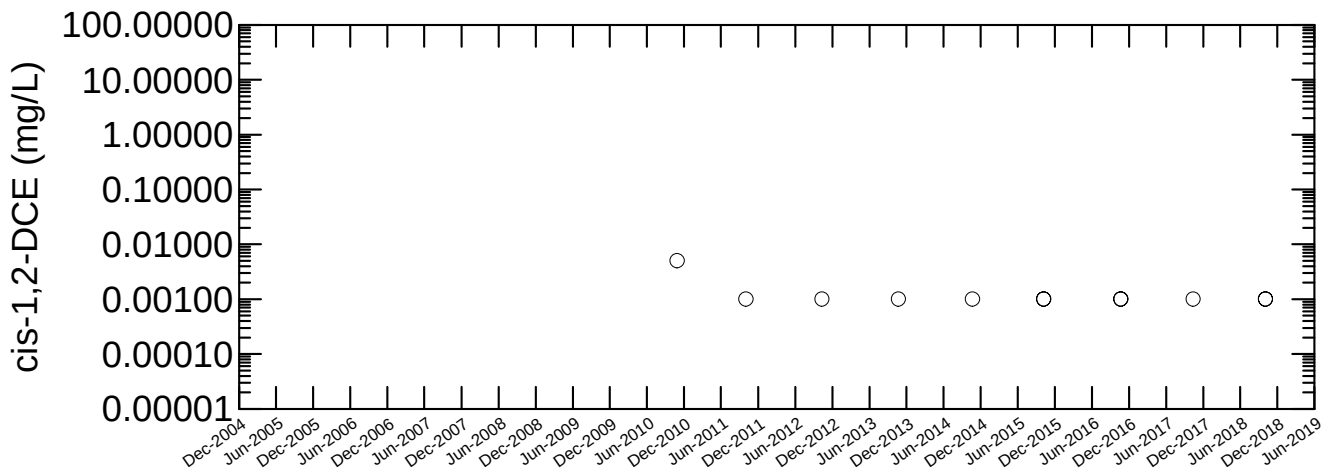
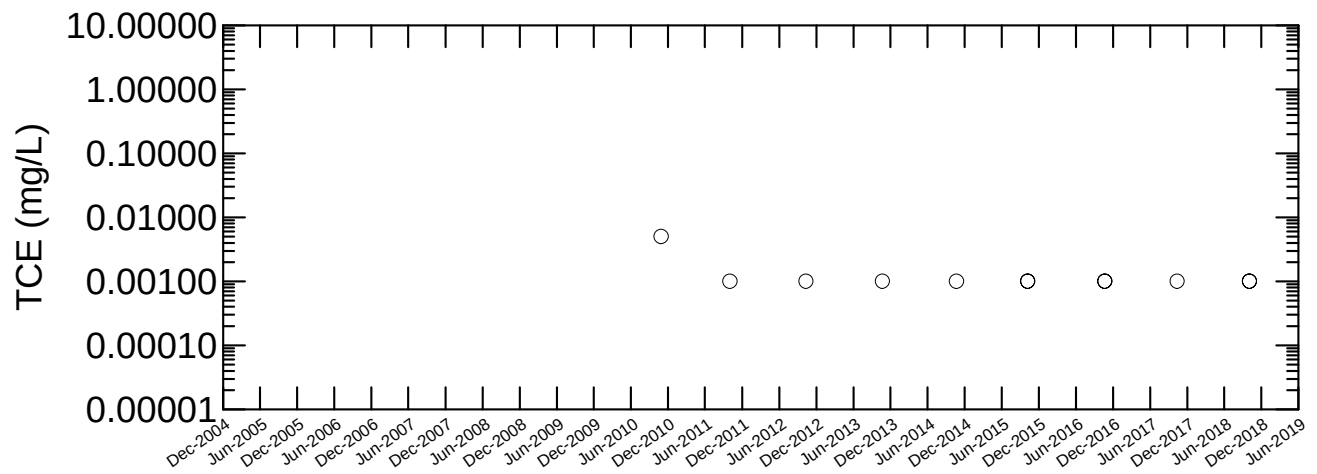
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 86

CONCENTRATION vs. TIME GRAPHS
2018 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





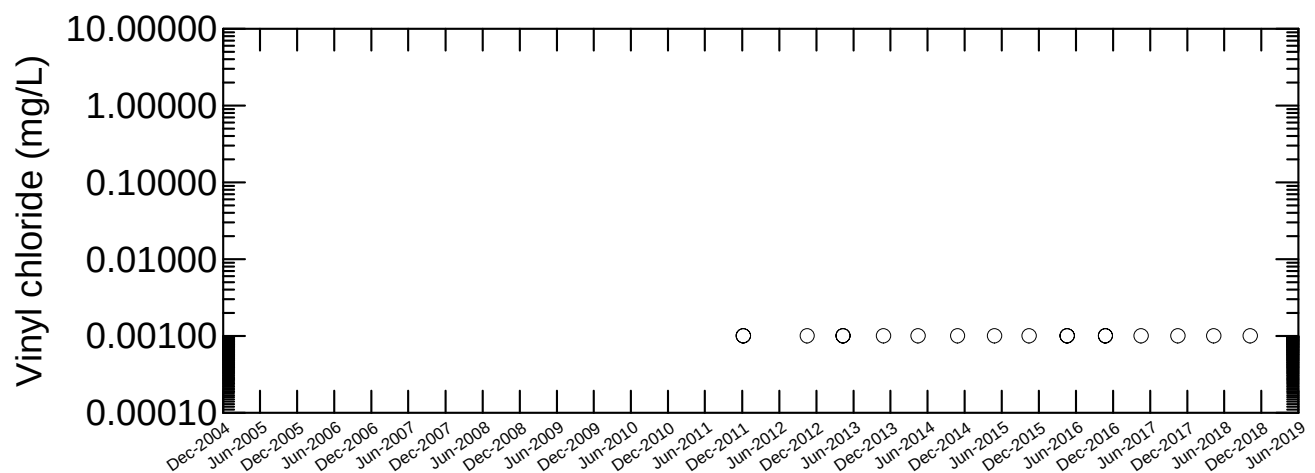
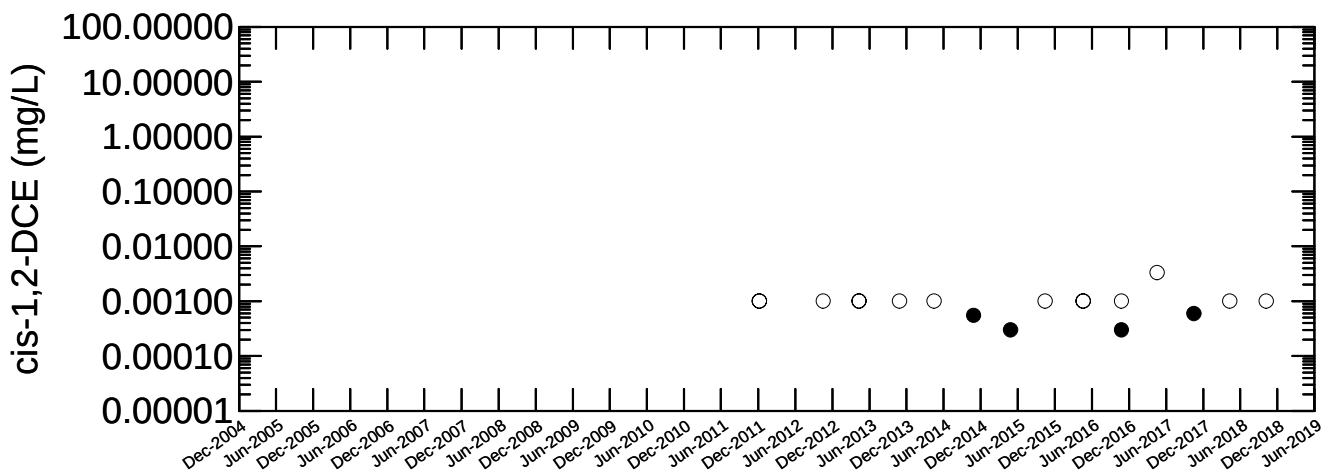
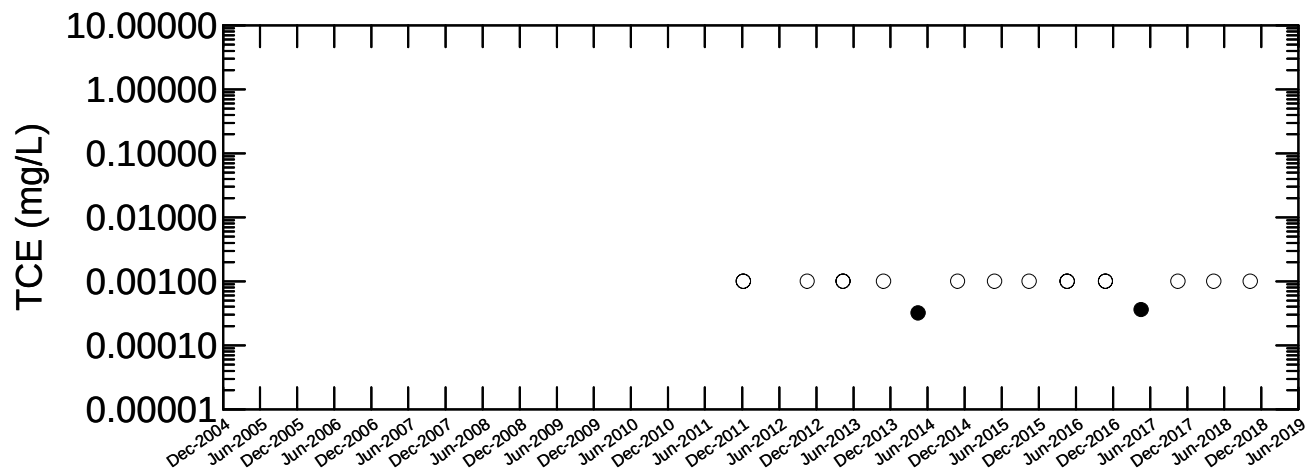
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 88

CONCENTRATION vs. TIME GRAPHS
2018 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





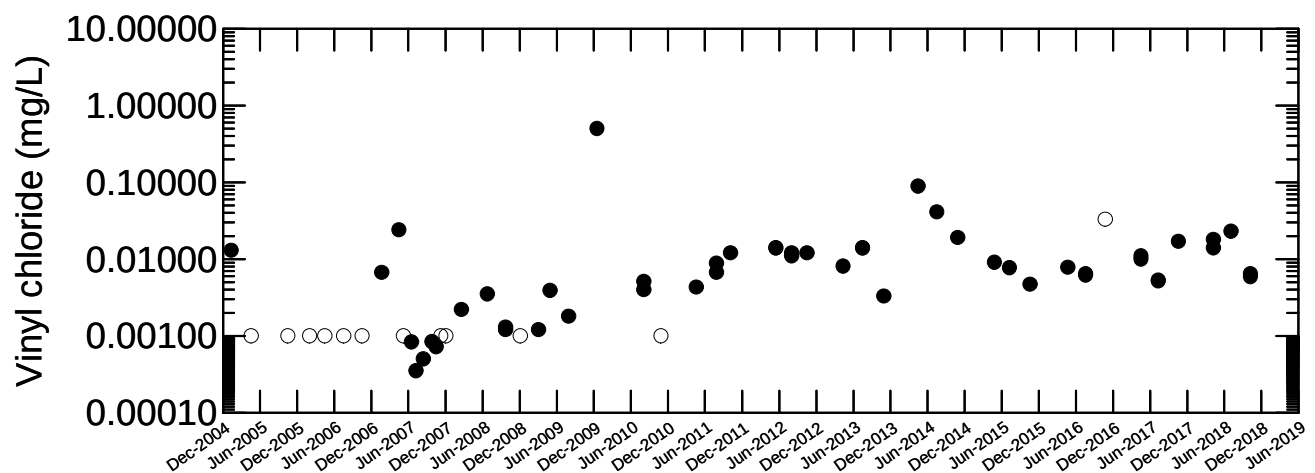
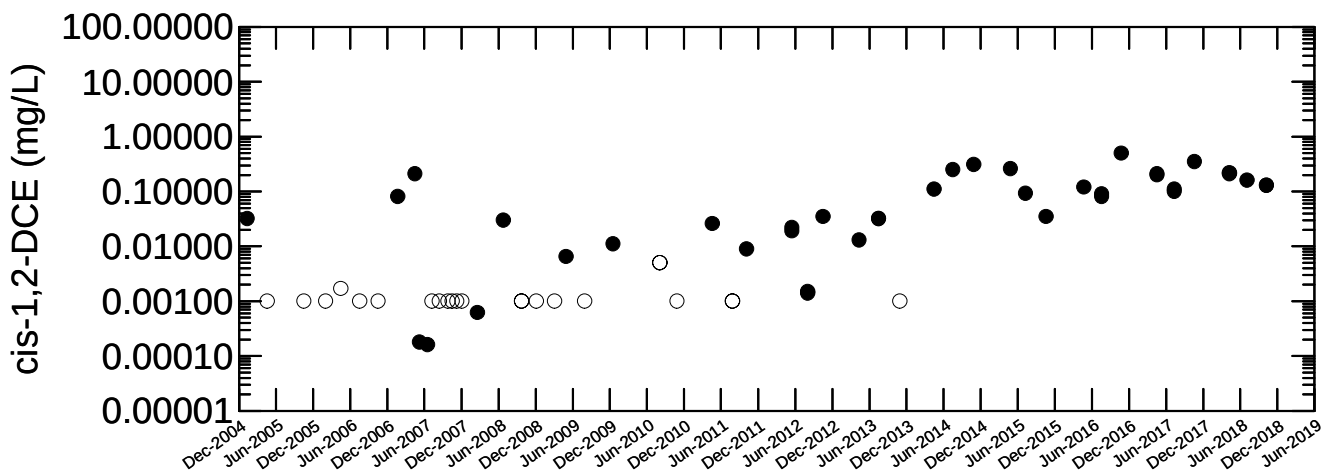
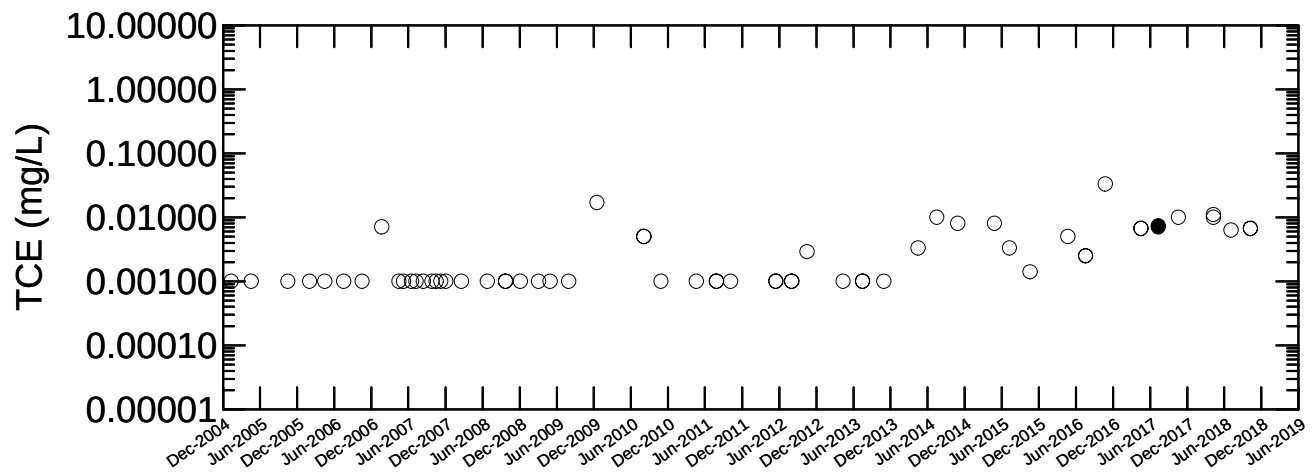
Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

MW 89-11

CONCENTRATION vs. TIME GRAPHS
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 2915 MARTIN LUTHER KING JR. BOULEVARD
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Legend:

- Detected Result
- Non-Detect (plotted at the laboratory detection limit)

Pond North

CONCENTRATION vs. TIME GRAPHS
 2018 ANNUAL GROUNDWATER MONITORING REPORT
 2915 MARTIN LUTHER KING JR. BOULEVARD
 Anderson, Indiana



Groundwater Data
2018 Annual Groundwater Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

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-2	10/8/2018	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 3	4/11/2018	7.8	-	-	-
Trichloroethene	MW 3	10/3/2018	8.5	-	-	-
Trichloroethene	MW-4	1/11/2005	0.05	-	-	-
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	-	-	-

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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-4	4/12/2018	1.3	-	-	-
Trichloroethene	MW-4	4/12/2018	1.4	-	-	-
Trichloroethene	MW-4	10/8/2018	1.6	-	-	-
Trichloroethene	MW-7	10/29/2014	0.001 U	-	-	-
Trichloroethene	MW-7	10/18/2017	0.001 U	-	-	-
Trichloroethene	MW-7	10/18/2017	0.001 U	-	-	-
Trichloroethene	MW-7	10/9/2018	0.001 U	-	-	-
Trichloroethene	MW-7	10/9/2018	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	-	-	-
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 8	4/10/2018	0.15 J	-	-	-
Trichloroethene	MW 8	10/2/2018	0.17	-	-	-
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	-	-	-

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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 12	4/11/2018	0.0026 J	-	-	-
Trichloroethene	MW 12	10/4/2018	0.005 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	-	-	-
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 14	4/10/2018	0.2 U	-	-	-
Trichloroethene	MW 14	10/3/2018	0.2 U	-	-	-
Trichloroethene	MW 15	2/1/2005	6.7	-	-	-
Trichloroethene	MW 15	10/18/2005	6.9	-	-	-
Trichloroethene	MW 15	2/1/2006	8.3	-	-	-
Trichloroethene	MW 15	4/18/2006	6	-	-	-
Trichloroethene	MW 15	7/19/2006	5.3	-	-	-
Trichloroethene	MW 15	10/17/2006	7.2 J	-	-	-
Trichloroethene	MW 15	1/24/2007	6.1	-	-	-
Trichloroethene	MW 15	4/17/2007	4.9	-	-	-
Trichloroethene	MW 15	7/10/2007	9.4	-	-	-
Trichloroethene	MW 15	7/10/2007	10	-	-	-
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 15	10/2/2018	3.7	-	-	-

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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	-	-	-
Trichloroethene	MW 16	10/3/2018	0.005 U	-	-	-
Trichloroethene	MW 21	2/1/2005	0.001 U	-	-	-
Trichloroethene	MW 21	10/17/2005	0.001 U	-	-	-
Trichloroethene	MW 21	2/1/2006	0.00066 J	-	-	-
Trichloroethene	MW 21	4/17/2006	0.001 U	-	-	-
Trichloroethene	MW 21	7/18/2006	0.001 U	-	-	-
Trichloroethene	MW 21	10/16/2006	0.001 U	-	-	-
Trichloroethene	MW 21	1/23/2007	0.001 U	-	-	-
Trichloroethene	MW 21	4/16/2007	0.001 U	-	-	-
Trichloroethene	MW 21	7/9/2007	0.001 U	-	-	-
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 21	10/3/2018	0.0013	-	-	-
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 28	4/12/2018	0.05 U	-	-	-
Trichloroethene	MW 28	10/4/2018	0.067 U	-	-	-
Trichloroethene	MW 28	10/4/2018	0.067 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	-	-	-
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

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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 31R	4/10/2018	1 U	-	-	-
Trichloroethene	MW 31R	10/2/2018	1 U	-	-	-
Trichloroethene	MW 31R	10/2/2018	1 U	-	-	-
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 37	10/5/2018	0.001 U	-	-	-
Trichloroethene	MW 40	1/12/2005	0.1 U	-	-	-
Trichloroethene	MW 40	10/18/2005	0.0013 U	-	-	-
Trichloroethene	MW 40	1/30/2006	0.5 U	-	-	-
Trichloroethene	MW 40	4/17/2006	0.63 U	-	-	-
Trichloroethene	MW 40	7/19/2006	0.63 U	-	-	-
Trichloroethene	MW 40	10/18/2006	0.0011	-	-	-
Trichloroethene	MW 40	1/23/2007	0.5 UJ	-	-	-
Trichloroethene	MW 40	4/18/2007	0.042 UJ	-	-	-
Trichloroethene	MW 40	7/10/2007	0.83 U	-	-	-
Trichloroethene	MW 40	10/18/2007	0.5 U	-	-	-
Trichloroethene	MW 40	2/15/2008	0.63 U	-	-	-
Trichloroethene	MW 40	6/26/2008	0.14 J	-	-	-
Trichloroethene	MW 40	12/3/2008	0.71 U	-	-	-
Trichloroethene	MW 40	12/3/2008	0.83 U	-	-	-
Trichloroethene	MW 40	4/30/2009	0.5 U	-	-	-
Trichloroethene	MW 40	12/9/2009	0.25 U	-	-	-
Trichloroethene	MW 40	10/26/2010	0.125 U	-	-	-
Trichloroethene	MW 40	4/19/2011	0.25 U	-	-	-
Trichloroethene	MW 40	10/4/2011	0.25 U	-	-	-
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	-	-	-
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 40	4/13/2018	0.34	-	-	-
Trichloroethene	MW 40	10/3/2018	0.28	-	-	-
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	-	-	-

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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 41	4/13/2018	0.33 U	-	-	-
Trichloroethene	MW 41	10/4/2018	0.33 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	-	-	-
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 42	4/13/2018	0.2 U	-	-	-
Trichloroethene	MW 42	10/4/2018	0.2 U	-	-	-
Trichloroethene	MW 46	1/18/2005	0.001 U	-	-	-
Trichloroethene	MW 46	10/15/2007	0.00013 J	-	-	-
Trichloroethene	MW 46	10/15/2007	0.00012 J	-	-	-
Trichloroethene	MW 46	6/25/2008	0.001 U	-	-	-
Trichloroethene	MW 46	12/15/2009	0.00018 J	-	-	-
Trichloroethene	MW 46	10/26/2010	0.005 U	-	-	-
Trichloroethene	MW 46	10/6/2011	0.001 U	-	-	-
Trichloroethene	MW 46	10/16/2012	0.001 U	-	-	-
Trichloroethene	MW 46	10/24/2013	0.001 U	-	-	-
Trichloroethene	MW 46	10/23/2014	0.001 U	-	-	-
Trichloroethene	MW 46	10/13/2015	0.001 U	-	-	-
Trichloroethene	MW 46	10/22/2016	0.001 U	-	-	-
Trichloroethene	MW 46	10/16/2017	0.001 U	-	-	-
Trichloroethene	MW 46	10/5/2018	0.00015 J	-	-	-
Trichloroethene	MW 49	1/18/2005	0.001 U	-	-	-
Trichloroethene	MW 49	10/15/2007	0.00042 J	-	-	-
Trichloroethene	MW 49	2/18/2008	0.0025 U	-	-	-
Trichloroethene	MW 49	6/25/2008	0.00041 J	-	-	-
Trichloroethene	MW 49	12/5/2008	0.00084 J	-	-	-
Trichloroethene	MW 49	4/29/2009	0.0013 J	-	-	-
Trichloroethene	MW 49	12/15/2009	0.0007 J	-	-	-
Trichloroethene	MW 49	10/26/2010	0.001 U	-	-	-
Trichloroethene	MW 49	4/18/2011	0.017 U	-	-	-
Trichloroethene	MW 49	10/6/2011	0.025 U	-	-	-

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Trichloroethene	MW 49	5/16/2012	0.025 U	-	-	-
Trichloroethene	MW 49	10/16/2012	0.033 U	-	-	-
Trichloroethene	MW 49	4/12/2013	0.033 U	-	-	-
Trichloroethene	MW 49	10/24/2013	0.033 U	-	-	-
Trichloroethene	MW 49	4/15/2014	0.00085 J	-	-	-
Trichloroethene	MW 49	10/23/2014	0.033 U	-	-	-
Trichloroethene	MW 49	4/28/2015	0.033 U	-	-	-
Trichloroethene	MW 49	10/13/2015	0.04 U	-	-	-
Trichloroethene	MW 49	4/19/2016	0.033 U	-	-	-
Trichloroethene	MW 49	4/11/2018	0.05 U	-	-	-
Trichloroethene	MW 49	10/3/2018	0.047	-	-	-
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 51	4/10/2018	0.087	-	-	-
Trichloroethene	MW 51	4/10/2018	0.097	-	-	-
Trichloroethene	MW 51	10/4/2018	0.064	-	-	-
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 56	10/5/2018	0.001 U	-	-	-
Trichloroethene	MW 57	1/18/2005	0.001 U	-	-	-
Trichloroethene	MW 57	10/18/2005	0.001 U	-	-	-
Trichloroethene	MW 57	2/1/2006	0.00026 J	-	-	-
Trichloroethene	MW 57	4/18/2006	0.001 U	-	-	-
Trichloroethene	MW 57	7/18/2006	0.001 U	-	-	-
Trichloroethene	MW 57	10/18/2006	0.00011 J	-	-	-
Trichloroethene	MW 57	1/24/2007	0.001 UJ	-	-	-
Trichloroethene	MW 57	4/18/2007	0.001 U	-	-	-
Trichloroethene	MW 57	7/11/2007	0.001 U	-	-	-
Trichloroethene	MW 57	10/15/2007	0.001 U	-	-	-
Trichloroethene	MW 57	6/25/2008	0.001 U	-	-	-
Trichloroethene	MW 57	12/15/2009	0.001 U	-	-	-
Trichloroethene	MW 57	10/26/2010	0.001 U	-	-	-
Trichloroethene	MW 57	10/26/2010	0.001 U	-	-	-
Trichloroethene	MW 57	10/6/2011	0.001 U	-	-	-
Trichloroethene	MW 57	10/16/2012	0.001 U	-	-	-
Trichloroethene	MW 57	10/24/2013	0.001 U	-	-	-
Trichloroethene	MW 57	10/23/2014	0.001 U	-	-	-
Trichloroethene	MW 57	10/13/2015	0.001 U	-	-	-
Trichloroethene	MW 57	10/22/2016	0.002 U	-	-	-
Trichloroethene	MW 57	10/18/2017	0.0033 U	-	-	-
Trichloroethene	MW 57	10/8/2018	0.001 U	-	-	-
Trichloroethene	MW 58	1/18/2005	0.001 U	-	-	-
Trichloroethene	MW 58	10/18/2005	0.001 U	-	-	-
Trichloroethene	MW 58	10/18/2006	0.0059	-	-	-
Trichloroethene	MW 58	10/15/2007	0.00059 J	-	-	-

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Trichloroethene	MW 58	2/18/2008	0.001 U	-	-	-
Trichloroethene	MW 58	6/25/2008	0.001 U	-	-	-
Trichloroethene	MW 58	12/15/2009	0.0031 U	-	-	-
Trichloroethene	MW 58	10/26/2010	0.001 U	-	-	-
Trichloroethene	MW 58	10/6/2011	0.008 U	-	-	-
Trichloroethene	MW 58	10/16/2012	0.0057 U	-	-	-
Trichloroethene	MW 58	10/16/2012	0.005 U	-	-	-
Trichloroethene	MW 58	10/24/2013	0.002 U	-	-	-
Trichloroethene	MW 58	10/23/2014	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 58	10/8/2018	0.2 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 61	10/4/2018	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 64	10/3/2018	0.01 U	-	-	-
Trichloroethene	MW 64	10/3/2018	0.01 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 65	10/4/2018	0.00027 J	-	-	-
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	-	-	-
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	-	-	-

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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 66	4/11/2018	0.2 U	-	-	-
Trichloroethene	MW 66	10/3/2018	0.2 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	-	-	-
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 68	4/11/2018	1.7	-	-	-
Trichloroethene	MW 68	10/2/2018	1.4	-	-	-
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 75	10/2/2018	0.001 U	-	-	-
Trichloroethene	MW 76/MW 76R-17	1/14/2005	0.001 U	-	-	-

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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 76/MW 76R-17	10/2/2018	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	-	-	-
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 79	4/10/2018	0.1 U	-	-	-
Trichloroethene	MW 79	10/2/2018	0.1 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 80	10/2/2018	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 81	10/9/2018	0.004 U	-	-	-
Trichloroethene	MW 82	3/9/2005	0.001 U	-	-	-
Trichloroethene	MW 82	10/20/2005	0.001 U	-	-	-

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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 82	10/10/2018	0.00012 J	-	-	-
Trichloroethene	MW 82	10/10/2018	0.00014 J	-	-	-
Trichloroethene	MW 83	3/9/2005	0.001 U	-	-	-
Trichloroethene	MW 83	10/18/2005	0.001 U	-	-	-
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 83	12/13/2018	0.001 U	-	-	-
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 84	10/4/2018	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 85	4/12/2018	0.5 U	-	-	-
Trichloroethene	MW 85	10/8/2018	0.5 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 86	10/4/2018	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 88	10/4/2018	0.001 U	-	-	-
Trichloroethene	MW 88	10/4/2018	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	MW 89-11	4/11/2018	0.001 U	-	-	-
Trichloroethene	MW 89-11	10/8/2018	0.001 U	-	-	-
Trichloroethene	MW97R-16	10/25/2016	0.001 U	-	-	-
Trichloroethene	MW97R-16	10/18/2017	0.001 U	-	-	-
Trichloroethene	MW97R-16	10/9/2018	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	-	-	-
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	-	-	-

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Analyte	Location	Date	Result (mg/L)	Outlier	Ambiguous Data	Excluded Data
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 Intake	4/9/2018	0.005 U	-	-	-
Trichloroethene	Pond Intake	7/5/2018	0.0033 U	-	-	-
Trichloroethene	Pond Intake	7/5/2018	0.0033 U	-	-	-
Trichloroethene	Pond Intake	10/9/2018	0.005 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	-	-	-
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	-	-	-
Trichloroethene	Pond North	4/9/2018	0.011 U	-	-	-
Trichloroethene	Pond North	4/9/2018	0.01 U	-	-	-
Trichloroethene	Pond North	7/5/2018	0.0063 U	-	-	-

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Trichloroethene	Pond North	10/9/2018	0.0067 U	-	-	-
Trichloroethene	Pond North	10/9/2018	0.0067 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-2	10/8/2018	0.001 U	-	-	-
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	-	-	-
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 3	4/11/2018	3.2	-	-	-
cis-1,2-Dichloroethene	MW 3	10/3/2018	4.8	-	-	-
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	-	-	-

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Analyte	Location	Date	Result (mg/L)	Outlier	Ambiguous Data	Excluded Data
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	-	-	-
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-4	4/12/2018	8.8	-	-	-
cis-1,2-Dichloroethene	MW-4	4/12/2018	8.3	-	-	-
cis-1,2-Dichloroethene	MW-4	10/8/2018	8.9	-	-	-
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-7	10/9/2018	0.00018 J	-	-	-
cis-1,2-Dichloroethene	MW-7	10/9/2018	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 8	4/10/2018	3.6	-	-	-
cis-1,2-Dichloroethene	MW 8	10/2/2018	2.2	-	-	-
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	-	-	-
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	-	-	-

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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 12	4/11/2018	0.1	-	-	-
cis-1,2-Dichloroethene	MW 12	10/4/2018	0.08	-	-	-
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	-	-	-
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 14	4/10/2018	4	-	-	-
cis-1,2-Dichloroethene	MW 14	10/3/2018	4.1	-	-	-
cis-1,2-Dichloroethene	MW 15	2/1/2005	29	-	-	-
cis-1,2-Dichloroethene	MW 15	10/18/2005	11	-	-	-
cis-1,2-Dichloroethene	MW 15	2/1/2006	20 J	-	-	-
cis-1,2-Dichloroethene	MW 15	4/18/2006	12	-	-	-
cis-1,2-Dichloroethene	MW 15	7/19/2006	9	-	-	-
cis-1,2-Dichloroethene	MW 15	10/17/2006	8.4	-	-	-
cis-1,2-Dichloroethene	MW 15	1/24/2007	24	-	-	-
cis-1,2-Dichloroethene	MW 15	4/17/2007	18	-	-	-
cis-1,2-Dichloroethene	MW 15	7/10/2007	15	-	-	-
cis-1,2-Dichloroethene	MW 15	7/10/2007	15	-	-	-
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	-	-	-

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cis-1,2-Dichloroethene	MW 15	10/11/2017	3.5	-	-	-
cis-1,2-Dichloroethene	MW 15	10/2/2018	5.4	-	-	-
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 16	10/3/2018	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 21	2/1/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 21	10/17/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 21	2/1/2006	0.00092 J	-	-	-
cis-1,2-Dichloroethene	MW 21	4/17/2006	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 21	7/18/2006	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 21	10/16/2006	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 21	1/23/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 21	4/16/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 21	7/9/2007	0.001 U	-	-	-
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 21	10/3/2018	0.00046 J	-	-	-
cis-1,2-Dichloroethene	MW 28	10/18/2005	0.0063 U	-	-	-
cis-1,2-Dichloroethene	MW 28	10/19/2006	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 28	10/18/2007	0.0071 U	-	-	-
cis-1,2-Dichloroethene	MW 28	6/24/2008	0.0042 U	-	-	-
cis-1,2-Dichloroethene	MW 28	12/4/2008	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 28	4/29/2009	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 28	12/4/2009	0.0063 U	-	-	-
cis-1,2-Dichloroethene	MW 28	10/26/2010	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 28	4/19/2011	0.002 U	-	-	-
cis-1,2-Dichloroethene	MW 28	10/3/2011	0.0033 U	-	-	-
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 28	4/12/2018	0.97	-	-	-
cis-1,2-Dichloroethene	MW 28	10/4/2018	1	-	-	-
cis-1,2-Dichloroethene	MW 28	10/4/2018	1	-	-	-
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	-	-	-

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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 31R	4/10/2018	20	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/2/2018	33	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/2/2018	32	-	-	-
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	-	-	-
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 37	10/5/2018	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 40	4/13/2018	5.8	-	-	-
cis-1,2-Dichloroethene	MW 40	10/3/2018	5.4	-	-	-
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	-	-	-
cis-1,2-Dichloroethene	MW 41	12/3/2008	9.5	-	-	-
cis-1,2-Dichloroethene	MW 41	4/28/2009	10	-	-	-

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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 41	4/13/2018	5.8	-	-	-
cis-1,2-Dichloroethene	MW 41	10/4/2018	4.8	-	-	-
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 42	4/13/2018	3.9	-	-	-
cis-1,2-Dichloroethene	MW 42	10/4/2018	3.5	-	-	-
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	-	-	-
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 46	10/5/2018	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	-	-	-

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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 49	4/11/2018	0.89	-	-	-
cis-1,2-Dichloroethene	MW 49	10/3/2018	0.89	-	-	-
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 51	4/10/2018	0.032	-	-	-
cis-1,2-Dichloroethene	MW 51	4/10/2018	0.034	-	-	-
cis-1,2-Dichloroethene	MW 51	10/4/2018	0.079	-	-	-
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	-	-	-
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 56	10/5/2018	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 57	10/8/2018	0.0082 U	-	-	-

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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 58	10/8/2018	3	-	-	-
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	-	-	-
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 61	10/4/2018	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 64	10/3/2018	0.21	-	-	-
cis-1,2-Dichloroethene	MW 64	10/3/2018	0.21	-	-	-
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 65	10/4/2018	0.015	-	-	-
cis-1,2-Dichloroethene	MW 66	1/11/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 66	1/11/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 66	10/18/2005	0.0014 U	-	-	-
cis-1,2-Dichloroethene	MW 66	10/18/2006	0.001 UJ	-	-	-
cis-1,2-Dichloroethene	MW 66	10/19/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 66	10/19/2007	0.001 U	-	-	-

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cis-1,2-Dichloroethene	MW 66	2/18/2008	0.00012 J	-	low J value	-
cis-1,2-Dichloroethene	MW 66	6/26/2008	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 66	12/4/2008	0.0007 J	-	low J value	-
cis-1,2-Dichloroethene	MW 66	4/28/2009	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 66	4/28/2009	0.001 U	-	-	-
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 66	4/11/2018	2.6	-	-	-
cis-1,2-Dichloroethene	MW 66	10/3/2018	3.4	-	-	-
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	-	-	-
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 68	4/11/2018	3.7	-	-	-
cis-1,2-Dichloroethene	MW 68	10/2/2018	4.4	-	-	-
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	-	-	-

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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 75	10/2/2018	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 76/MW 76R-17	10/2/2018	0.0028	-	-	-
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 79	4/10/2018	3.5	-	-	-
cis-1,2-Dichloroethene	MW 79	10/2/2018	2.4	-	-	-
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	-	-	-
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 80	10/2/2018	0.015	-	-	-
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	-	-	-

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cis-1,2-Dichloroethene	MW 81	10/6/2017	0.096	-	-	-
cis-1,2-Dichloroethene	MW 81	10/9/2018	0.078	-	-	-
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 82	10/10/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 82	10/10/2018	0.001 U	-	-	-
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	-	-	-
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 83	12/13/2018	0.001 U	-	-	-
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 84	10/4/2018	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 85	4/12/2018	7.3	-	-	-
cis-1,2-Dichloroethene	MW 85	10/8/2018	8	-	-	-
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	-	-	-

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cis-1,2-Dichloroethene	MW 86	10/4/2018	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 88	10/4/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 88	10/4/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	12/8/2011	0.001 U	-	-	-
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	MW 89-11	4/11/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	10/8/2018	0.001 U	-	-	-
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	MW97R-16	10/9/2018	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	-	-	-
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	-	-	-

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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 Intake	4/9/2018	0.12	-	-	-
cis-1,2-Dichloroethene	Pond Intake	7/5/2018	0.077	-	-	-
cis-1,2-Dichloroethene	Pond Intake	7/5/2018	0.072	-	-	-
cis-1,2-Dichloroethene	Pond Intake	10/9/2018	0.1	-	-	-
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	-	-	sampling frequency
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	-	-	-
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	-	-	-

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cis-1,2-Dichloroethene	Pond North	10/19/2017	0.35	-	-	-
cis-1,2-Dichloroethene	Pond North	4/9/2018	0.21	-	-	-
cis-1,2-Dichloroethene	Pond North	4/9/2018	0.22	-	-	-
cis-1,2-Dichloroethene	Pond North	7/5/2018	0.16	-	-	-
cis-1,2-Dichloroethene	Pond North	10/9/2018	0.13	-	-	-
cis-1,2-Dichloroethene	Pond North	10/9/2018	0.13	-	-	-
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-2	10/8/2018	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	-	-	-
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 3	4/11/2018	0.5 U	-	-	-
Vinyl chloride	MW 3	10/3/2018	0.25 U	-	-	-
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	-	-	-

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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	-	-	-
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-4	4/12/2018	0.68	-	-	-
Vinyl chloride	MW-4	4/12/2018	0.65	-	-	-
Vinyl chloride	MW-4	10/8/2018	0.68	-	-	-
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-7	10/9/2018	0.001 U	-	-	-
Vinyl chloride	MW-7	10/9/2018	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 8	4/10/2018	0.62	-	-	-
Vinyl chloride	MW 8	10/2/2018	0.64	-	-	-
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	-	-	-

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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	-	-	-
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 12	4/11/2018	0.0067 U	-	-	-
Vinyl chloride	MW 12	10/4/2018	0.005 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	-	-	-
Vinyl chloride	MW 14	4/10/2018	0.11 J	-	-	-
Vinyl chloride	MW 14	10/3/2018	0.13 J	-	-	-
Vinyl chloride	MW 15	2/1/2005	1.2	-	-	-
Vinyl chloride	MW 15	10/18/2005	1.4	-	-	-
Vinyl chloride	MW 15	2/1/2006	1.1	-	-	-
Vinyl chloride	MW 15	4/18/2006	0.62	-	-	-
Vinyl chloride	MW 15	7/19/2006	1.2	-	-	-
Vinyl chloride	MW 15	10/17/2006	0.83	-	-	-
Vinyl chloride	MW 15	1/24/2007	1.7	-	-	-
Vinyl chloride	MW 15	4/17/2007	1.2	-	-	-
Vinyl chloride	MW 15	7/10/2007	1.4	-	-	-
Vinyl chloride	MW 15	7/10/2007	1.5	-	-	-
Vinyl chloride	MW 15	10/16/2007	1.3	-	-	-
Vinyl chloride	MW 15	2/14/2008	1.2 J	-	-	-

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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 15	10/2/2018	0.063 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 16	10/3/2018	0.22	-	-	-
Vinyl chloride	MW 21	2/1/2005	0.001 U	-	-	-
Vinyl chloride	MW 21	10/17/2005	0.001 U	-	-	-
Vinyl chloride	MW 21	2/1/2006	0.001 U	-	-	-
Vinyl chloride	MW 21	4/17/2006	0.001 U	-	-	-
Vinyl chloride	MW 21	7/18/2006	0.001 U	-	-	-
Vinyl chloride	MW 21	10/16/2006	0.001 U	-	-	-
Vinyl chloride	MW 21	1/23/2007	0.001 U	-	-	-
Vinyl chloride	MW 21	4/16/2007	0.001 U	-	-	-
Vinyl chloride	MW 21	7/9/2007	0.001 U	-	-	-
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 21	10/3/2018	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	-	-	-
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 28	4/12/2018	0.17	-	-	-
Vinyl chloride	MW 28	10/4/2018	0.15	-	-	-
Vinyl chloride	MW 28	10/4/2018	0.16	-	-	-
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	-	-	-

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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 31R	4/10/2018	1.1	-	-	-
Vinyl chloride	MW 31R	10/2/2018	2.4	-	-	-
Vinyl chloride	MW 31R	10/2/2018	2.1	-	-	-
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 37	10/5/2018	0.001 U	-	-	-
Vinyl chloride	MW 40	1/12/2005	0.49	-	-	-
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 40	4/13/2018	0.18 J	-	-	-
Vinyl chloride	MW 40	10/3/2018	0.22	-	-	-
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	-	-	-

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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	-	-	-
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 41	4/13/2018	0.3 J	-	-	-
Vinyl chloride	MW 41	10/4/2018	0.21 J	-	-	-
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 42	4/13/2018	0.11 J	-	-	-
Vinyl chloride	MW 42	10/4/2018	0.2 U	-	-	-
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	-	-	-
Vinyl chloride	MW 46	10/16/2017	0.001 U	-	-	-
Vinyl chloride	MW 46	10/5/2018	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	-	-	-

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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 49	4/11/2018	0.05 U	-	high DL	-
Vinyl chloride	MW 49	10/3/2018	0.04 U	-	high DL	-
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 51	4/10/2018	0.0038	-	-	-
Vinyl chloride	MW 51	4/10/2018	0.0046	-	-	-
Vinyl chloride	MW 51	10/4/2018	0.0035 J	-	-	-
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	-	-	-
Vinyl chloride	MW 56	10/24/2016	0.001 U	-	-	-
Vinyl chloride	MW 56	10/18/2017	0.001 U	-	-	-
Vinyl chloride	MW 56	10/5/2018	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	-	-	-

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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 57	10/8/2018	0.02	-	-	-
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 58	10/8/2018	0.064 J	-	-	-
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 61	10/4/2018	0.0013	-	-	-
Vinyl chloride	MW 64	1/11/2005	0.001 U	-	-	-
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 64	10/3/2018	0.083	-	-	-
Vinyl chloride	MW 64	10/3/2018	0.089	-	-	-
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	-	-	-
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 65	10/4/2018	0.00074 J	-	-	-
Vinyl chloride	MW 66	1/11/2005	0.003	-	-	-
Vinyl chloride	MW 66	1/11/2005	0.0031	-	-	-

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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	-	-	-
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 66	4/11/2018	0.2 U	-	high DL	-
Vinyl chloride	MW 66	10/3/2018	0.2 U	-	high DL	-
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 68	4/11/2018	0.099 J	-	-	-
Vinyl chloride	MW 68	10/2/2018	0.11 J	-	-	-
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	-	-	-

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Vinyl chloride	MW 75	10/5/2011	0.001 U	-	-	-
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 75	10/2/2018	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 76/MW 76R-17	10/2/2018	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	U.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 79	4/10/2018	0.31	-	-	-
Vinyl chloride	MW 79	10/2/2018	0.31	-	-	-
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	-	-	-
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 80	10/2/2018	0.051	-	-	-
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	-	-	-

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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 81	10/9/2018	0.027	-	-	-
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 82	10/10/2018	0.001 U	-	-	-
Vinyl chloride	MW 82	10/10/2018	0.001 U	-	-	-
Vinyl chloride	MW 83	3/9/2005	0.001 U	-	-	-
Vinyl chloride	MW 83	10/18/2005	0.001 U	-	-	-
Vinyl chloride	MW 83	10/18/2006	0.001 U	-	-	-
Vinyl chloride	MW 83	10/18/2007	0.001 U	-	-	-
Vinyl chloride	MW 83	6/27/2008	0.001 U	-	-	-
Vinyl chloride	MW 83	12/8/2009	0.001 U	-	-	-
Vinyl chloride	MW 83	10/26/2010	0.002 U	-	-	-
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 83	12/13/2018	0.012	-	-	-
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	-	-	-
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 84	10/4/2018	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 85	4/12/2018	0.35 J	-	-	-
Vinyl chloride	MW 85	10/8/2018	0.68	-	-	-
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	-	-	-

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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 86	10/4/2018	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 88	10/4/2018	0.0024	-	-	-
Vinyl chloride	MW 88	10/4/2018	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	-	-	-
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	MW 89-11	4/11/2018	0.001 U	-	-	-
Vinyl chloride	MW 89-11	10/8/2018	0.001 U	-	-	-
Vinyl chloride	MW 97R-16	10/25/2016	0.001 U	-	-	-
Vinyl chloride	MW 97R-16	10/18/2017	0.001 U	-	-	-
Vinyl chloride	MW 97R-16	10/9/2018	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	-	-	-

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Analyte	Location	Date	Result (mg/L)	Outlier	Ambiguous Data	Excluded Data
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	-	-	-
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 Intake	4/9/2018	0.013	-	-	-
Vinyl chloride	Pond Intake	7/5/2018	0.0076	-	-	-
Vinyl chloride	Pond Intake	7/5/2018	0.0073	-	-	-
Vinyl chloride	Pond Intake	10/9/2018	0.005	-	-	-
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	-	-	-
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

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Analyte	Location	Date	Result (mg/L)	Outlier	Ambiguous Data	Excluded Data
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	-	-	-
Vinyl chloride	Pond North	4/9/2018	0.014	-	-	-
Vinyl chloride	Pond North	4/9/2018	0.018	-	-	-
Vinyl chloride	Pond North	7/5/2018	0.023 J	-	-	-
Vinyl chloride	Pond North	10/9/2018	0.0059 J	-	-	-
Vinyl chloride	Pond North	10/9/2018	0.0064 J	-	-	-

Notes:**Ambiguous Data:**

high DL - observation was 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 sampling interval corresponding to current program.

detection frequency - non-detects were excluded from the Mann-Kendall trend test to provide a test result, otherwise not obtained due to detection frequency less than 75 percent.

Table C.2

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Analyte	Location	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	
Trichloroethene	MW-2	2007 -- 2018	14	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
	MW 3	2005 -- 2018	32	32	100%	0.013	18	0	-94	0.935	7%	NT or Decreasing	-8E-04
	MW-4 ⁽¹⁾	2005 -- 2018	19	19	100%	0.0112	2.4	0	112	5E-05	100%	Increasing	4E-04
	MW-7	2012 -- 2018	3	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
	MW 8	2005 -- 2018	29	29	100%	0.046	1.4	0	-88	0.949	5%	NT or Decreasing	-4E-05
	MW 12 ⁽¹⁾	2005 -- 2018	24	24	100%	0.00085 J	0.16	0	-250	1.000	0%	NT or Decreasing	-2E-05
	MW 14	2005 -- 2018	31	2	6%	0.001 U	0.5 U	--	--	--	--	--	--
	MW 15 ⁽²⁾⁽³⁾	2005 -- 2018	10	10	100%	2.5	8.3	0	-19	0.946	5%	NT or Decreasing	-1E-03
	MW 16	2005 -- 2018	7	1	14%	0.001 U	0.005 U	--	--	--	--	--	--
	MW 21 ⁽²⁾	2005 -- 2018	7	1	14%	0.001 U	0.0013	--	--	--	--	--	--
	MW 28	2005 -- 2018	24	1	4%	0.00015 J	0.067 U	--	--	--	--	--	--
	MW 31R ⁽¹⁾	2005 -- 2014	18	18	100%	0.04 J	2.5	0	-87	0.999	0%	NT or Decreasing	-3E-04
	MW 37	2005 -- 2018	13	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
	MW 40 ⁽¹⁾	2006 -- 2018	16	16	100%	0.0011	0.4	0	79	2E-04	100%	Increasing	9E-05
	MW 41	2005 -- 2018	31	1	3%	0.00017 J	0.63 U	--	--	--	--	--	--
	MW 42	2005 -- 2018	31	2	6%	0.00011 J	0.71 U	--	--	--	--	--	--
	MW 46	2005 -- 2018	13	3	23%	0.00013 J	0.005 U	--	--	--	--	--	--
	MW 49	2005 -- 2018	21	7	33%	0.00041 J	0.047	--	--	--	--	--	--
	MW 51	2008 -- 2018	20	20	100%	0.064	0.3	0	-144	1.000	0%	NT or Decreasing	-4E-05
	MW 56	2005 -- 2018	15	1	7%	0.001 U	0.00067 J	--	--	--	--	--	--
	MW 57	2005 -- 2018	21	2	10%	0.00011 J	0.0033 U	--	--	--	--	--	--
	MW 58	2005 -- 2018	16	2	13%	0.001 U	0.2 U	--	--	--	--	--	--
	MW 61	2005 -- 2018	12	0	0%	0.001 U	0.005 U	--	--	--	--	--	--
	MW 64	2005 -- 2018	16	5	31%	0.00011 J	0.063	--	--	--	--	--	--
	MW 65	2005 -- 2018	16	1	6%	0.00027 J	0.17 U	--	--	--	--	--	--
	MW 66	2005 -- 2018	26	1	4%	0.00034 J	0.2 U	--	--	--	--	--	--
	MW 68 ⁽⁴⁾	2005 -- 2018	31	31	100%	0.1	2.6	0	112	0.029	97%	Increasing	2E-04
	MW 75	2005 -- 2018	13	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
	MW 76/MW 76R-17	2005 -- 2018	11	1	9%	0.00021 J	0.001 U	--	--	--	--	--	--
	MW 79	2005 -- 2018	22	1	5%	0.001 U	0.12	--	--	--	--	--	--
	MW 80	2005 -- 2018	15	1	7%	0.00021 J	0.0083 U	--	--	--	--	--	--
	MW 81	2005 -- 2018	16	0	0%	0.001 U	0.008 U	--	--	--	--	--	--
	MW 82	2005 -- 2018	14	3	21%	0.00014 J	0.00097 J	--	--	--	--	--	--
	MW 83	2005 -- 2018	15	2	13%	0.00023 J	0.005 U	--	--	--	--	--	--
	MW 84	2005 -- 2018	8	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
	MW 85	2008 -- 2018	22	1	5%	0.001 U	0.56 U	--	--	--	--	--	--
	MW 86	2010 -- 2018	9	0	0%	0.001 U	0.005 U	--	--	--	--	--	--

Table C.2

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Analyte	Location	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		
Trichloroethene (cont'd.)														
	MW 88	2010 -- 2018	9	0	0%	0.001 U	0.005 U	--	--	--	--	--	--	
	MW 89-11	2011 -- 2018	13	1	8%	0.00036 J	0.001 U	--	--	--	--	--	--	
	MW 97R-16	2016 -- 2018	3	0	0%	0.001 U	0.001 U	--	--	--	--	--	--	
	Pond Intake	2005 -- 2018	49	1	2%	0.001 U	0.0073	--	--	--	--	--	--	
	Pond North	2005 -- 2018	49	1	2%	0.001 U	0.033 U	--	--	--	--	--	--	
cis-1,2-Dichloroethene														
	MW-2	2007 -- 2018	14	3	21%	0.00015 J	0.0021	--	--	--	--	--	--	
	MW 3	2005 -- 2018	32	31	97%	0.0042 U	12	0	2	0.494	51%	NT or Decreasing	2E-05	
	MW-4	2005 -- 2018	32	32	100%	5.4	23	0	-8	0.545	45%	NT or Decreasing	0E+00	
	MW-7	2014 -- 2018	3	1	33%	0.00018 J	0.001 U	--	--	--	--	--	--	
	MW 8	2005 -- 2018	29	29	100%	0.24	22	0	-209	1.000	0%	NT or Decreasing	-1E-03	
	MW 12	2005 -- 2018	31	31	100%	0.08	1	0	-397	1.000	0%	NT or Decreasing	-1E-04	
	MW 14	2005 -- 2018	31	31	100%	0.33	7.7	1	-191	0.999	0%	NT or Decreasing	-4E-04	
	MW 15 ⁽²⁾⁽³⁾	2005 -- 2018	10	10	100%	1.7	19	0	-22	0.970	3%	NT or Decreasing	-2E-03	
	MW 16	2005 -- 2018	7	3	43%	0.00026 J	0.005 U	--	--	--	--	--	--	
	MW 21 ⁽²⁾	2005 -- 2018	7	1	14%	0.00046 J	0.001 U	--	--	--	--	--	--	
	MW 28 ⁽¹⁾	2005 -- 2018	15	15	100%	0.0011 J	6.1	1	68	5E-04	100%	Increasing	4E-04	
	MW 31R	2005 -- 2018	30	30	100%	5.1	69	3	51	0.186	81%	NT or Decreasing	7E-04	
	MW 37	2005 -- 2018	13	1	8%	0.001 U	0.0011	--	--	--	--	--	--	
	MW 40	2005 -- 2018	32	32	100%	5	17	0	-305	1.000	0%	NT or Decreasing	-2E-03	
	MW 41	2005 -- 2018	31	31	100%	4.3	10	0	-87	0.928	7%	NT or Decreasing	-3E-04	
	MW 42	2005 -- 2018	31	31	100%	2.9	12	0	-308	1.000	0%	NT or Decreasing	-1E-03	
	MW 46	2005 -- 2018	13	0	0%	0.001 U	0.005 U	--	--	--	--	--	--	
	MW 49	2005 -- 2018	21	20	95%	0.001 U	0.9	0	153	2E-06	100%	Increasing	2E-04	
	MW 51	2008 -- 2018	20	19	95%	0.0067 U	0.079	1	96	0.001	100%	Increasing	3E-06	
	MW 56	2005 -- 2018	15	3	20%	0.00021 J	0.003	--	--	--	--	--	--	
	MW 57	2005 -- 2018	21	7	33%	0.00014 J	0.0042	--	--	--	--	--	--	
	MW 58	2005 -- 2018	16	5	31%	0.001 U	3	--	--	--	--	--	--	
	MW 61	2005 -- 2018	12	1	8%	0.00035 J	0.005 U	--	--	--	--	--	--	
	MW 64	2005 -- 2018	16	9	56%	0.00014 J	0.25	--	--	--	--	--	--	
	MW 65	2005 -- 2018	16	16	100%	0.015	3	0	-77	1.000	0%	NT or Decreasing	-4E-04	
	MW 66 ⁽¹⁾	2008 -- 2018	20	20	100%	0.00012 J	3.4	0	166	4E-08	100%	Increasing	7E-04	
	MW 68	2005 -- 2018	32	32	100%	3.5	16	0	-375	1.000	0%	NT or Decreasing	-2E-03	
	MW 75	2005 -- 2018	13	1	8%	0.001 U	0.0007 J	--	--	--	--	--	--	
	MW 76/MW 76R-17	2005 -- 2018	11	6	55%	0.00019 J	0.0028	--	--	--	--	--	--	
	MW 79	2005 -- 2018	22	22	100%	0.79	3.5	0	153	9E-06	100%	Increasing	4E-04	
	MW 80	2005 -- 2018	15	5	33%	0.00013 J	0.025	--	--	--	--	--	--	

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Analyte	Location	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	
cis-1,2-Dichloroethene (cont'd.)													
	MW 81 ⁽¹⁾	2008 -- 2018	10	10	100%	0.00024 J	0.19	0	25	0.016	98%	Increasing	3E-05
	MW 82	2005 -- 2018	14	3	21%	0.00041 J	0.0022	--	--	--	--	--	--
	MW 83	2005 -- 2018	15	3	20%	0.00032 J	0.005 U	--	--	--	--	--	--
	MW 84	2005 -- 2018	8	2	25%	0.00027 J	0.001	--	--	--	--	--	--
	MW 85	2008 -- 2018	22	17	77%	0.001 U	10	0	163	2E-06	100%	Increasing	3E-03
	MW 86	2010 -- 2018	9	0	0%	0.001 U	0.005 U	--	--	--	--	--	--
	MW 88	2010 -- 2018	9	0	0%	0.001 U	0.005 U	--	--	--	--	--	--
	MW 89-11	2011 -- 2018	14	4	29%	0.0003 J	0.0033 U	--	--	--	--	--	--
	MW 97R-16	2016 -- 2018	3	1	33%	0.001 U	0.0012	--	--	--	--	--	--
	Pond Intake ⁽¹⁾⁽²⁾	2005 -- 2018	28	28	100%	0.00019 J	0.12	0	266	8E-08	100%	Increasing	2E-05
	Pond North ⁽¹⁾⁽²⁾	2005 -- 2018	29	29	100%	0.00016 J	0.5	0	203	7E-05	100%	Increasing	3.9E-05
Vinyl chloride													
	MW-2	2007 -- 2018	14	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
	MW 3 ⁽¹⁾	2005 -- 2018	22	18	82%	0.00027 J	2	1	-104	0.998	0%	NT or Decreasing	-3E-05
	MW-4	2005 -- 2018	32	32	100%	0.38 J	2.1	0	-208	1.000	0%	NT or Decreasing	-1E-04
	MW-7	2014 -- 2018	3	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
	MW 8	2005 -- 2018	29	29	100%	0.027	6.9	2	-115	0.984	2%	NT or Decreasing	-1E-04
	MW 12	2005 -- 2018	31	1	3%	0.0014 U	0.05 U	--	--	--	--	--	--
	MW 14	2005 -- 2018	31	31	100%	0.0087 J	0.51	0	-274	1.000	0%	NT or Decreasing	-5E-05
	MW 15 ⁽²⁾⁽³⁾	2005 -- 2018	10	8	80%	0.1 U	1.4	0	-28	0.992	1%	NT or Decreasing	-3E-04
	MW 16	2005 -- 2018	7	2	29%	0.001 U	0.22	--	--	--	--	--	--
	MW 21 ⁽²⁾	2005 -- 2018	7	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
	MW 28	2005 -- 2018	24	24	100%	0.057	0.22	0	138	3E-04	100%	Increasing	3E-05
	MW 31R	2005 -- 2018	30	30	100%	0.63	13	0	-158	0.997	0%	NT or Decreasing	-8E-04
	MW 37	2005 -- 2018	13	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
	MW 40	2005 -- 2018	32	32	100%	0.18 J	2.1	0	-185	0.999	0%	NT or Decreasing	-2E-04
	MW 41	2005 -- 2018	31	31	100%	0.14 J	0.73	0	155	0.004	100%	Increasing	5E-05
	MW 42	2005 -- 2018	31	29	94%	0.084 J	0.26	0	-8	0.548	45%	NT or Decreasing	-2E-06
	MW 46	2005 -- 2018	13	0	0%	0.001 U	0.002 U	--	--	--	--	--	--
	MW 49 ⁽⁵⁾	2005 -- 2016	18	18	100%	0.011 J	0.085	0	-81	0.999	0%	NT or Decreasing	-2E-05
	MW 51 ⁽¹⁾	2013 -- 2018	12	11	92%	0.005 U	0.0079	0	22	0.074	93%	Increasing	8E-07
	MW 56	2005 -- 2018	15	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
	MW 57	2005 -- 2018	21	10	48%	0.00018 J	0.096	--	--	--	--	--	--
	MW 58	2005 -- 2018	16	14	88%	0.001 U	0.16	0	50	0.014	99%	Increasing	2E-05
	MW 61	2005 -- 2018	12	5	42%	0.00029 J	0.0013	--	--	--	--	--	--
	MW 64	2005 -- 2018	16	15	94%	0.001 U	0.089	0	96	9E-06	100%	Increasing	1E-05

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Analyte	Location	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	
Vinyl chloride (cont'd.)													
	MW 65 ⁽¹⁾	2005 -- 2018	13	13	100%	0.00074 J	1.2 J	0	-50	0.999	0%	NT or Decreasing	-2E-04
	MW 66 ⁽⁶⁾	2005 -- 2018	26	24	92%	0.0031	0.33	0	99	0.015	98%	Increasing	2E-05
	MW 68	2005 -- 2018	32	32	100%	0.097 J	0.43 J	0	-171	0.997	0%	NT or Decreasing	-3E-05
	MW 75	2005 -- 2018	13	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
	MW 76/MW 76R-17	2005 -- 2018	11	2	18%	0.00048 J	0.00051 J	--	--	--	--	--	--
	MW 79	2005 -- 2018	22	22	100%	0.12	0.33	0	3	0.477	52%	NT or Decreasing	0E+00
	MW 80	2005 -- 2018	15	15	100%	0.0134	0.15	0	-11	0.690	31%	NT or Decreasing	-6E-06
	MW 81	2005 -- 2018	16	16	100%	0.004 J	0.066	0	79	2E-04	100%	Increasing	1E-05
	MW 82	2005 -- 2018	14	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
	MW 83 ⁽¹⁾	2011 -- 2018	8	8	100%	0.0003 J	0.012	0	27	0.001	100%	Increasing	4.1E-06
	MW 84	2005 -- 2018	8	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
	MW 85	2008 -- 2018	22	22	100%	0.25	0.84	0	-17	0.674	33%	NT or Decreasing	-2E-05
	MW 86	2010 -- 2018	9	0	0%	0.001 U	0.002 U	--	--	--	--	--	--
	MW 88 ⁽¹⁾	2014 -- 2018	5	5	100%	0.00034 J	0.0024	0	10	0.014	99%	Increasing	2E-06
	MW 89-11	2011 -- 2018	14	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
	MW 97R-16	2016 -- 2018	3	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
	Pond Intake ⁽¹⁾⁽²⁾	2005 -- 2018	31	31	100%	0.00038 J	0.013	0	202	3E-04	100%	Increasing	1E-06
	Pond North ⁽¹⁾⁽²⁾	2005 -- 2018	33	33	100%	0.00035 J	0.5	1	120	0.033	97%	Increasing	2E-06

Notes:

⁽¹⁾ Trend 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 the current program.

⁽³⁾ Due to a gap in the monitoring 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 due to ambiguous comparisons with data analyzed at lower detection limits.

⁽⁵⁾ Three observations (0.033 U mg/L in April 2015, 0.05 U in April 2018, and 0.04 U in October 2018) were excluded due to ambiguous comparisons with data analyzed at lower detection limits.

⁽⁶⁾ Two observations (0.2 U mg/L in April and October 2018) were 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).

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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-2	10/8/2018	0.001 U
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 3	4/11/2018	7.8
Trichloroethene	MW 3	10/3/2018	8.5
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-4	4/12/2018	1.3
Trichloroethene	MW-4	4/12/2018	1.4
Trichloroethene	MW-4	10/8/2018	1.6
Trichloroethene	MW-7	10/18/2017	0.001 U
Trichloroethene	MW-7	10/18/2017	0.001 U
Trichloroethene	MW-7	10/9/2018	0.001 U
Trichloroethene	MW-7	10/9/2018	0.001 U
Trichloroethene	MW 8	2/2/2005	0.35
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 8	4/10/2018	0.15 J
Trichloroethene	MW 8	10/2/2018	0.17
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 12	4/11/2018	0.0026 J
Trichloroethene	MW 12	10/4/2018	0.005 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 14	4/10/2018	0.2 U
Trichloroethene	MW 14	10/3/2018	0.2 U
Trichloroethene	MW 15	10/23/2014	5.5

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Analyte	Location	Date	Result (mg/L)
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 15	10/2/2018	3.7
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
Trichloroethene	MW 16	10/3/2018	0.005 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 21	10/3/2018	0.0013
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 28	4/12/2018	0.05 U
Trichloroethene	MW 28	10/4/2018	0.067 U
Trichloroethene	MW 28	10/4/2018	0.067 U
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 31R	4/10/2018	1 U
Trichloroethene	MW 31R	10/2/2018	1 U
Trichloroethene	MW 31R	10/2/2018	1 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 37	10/5/2018	0.001 U
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 40	4/13/2018	0.34
Trichloroethene	MW 40	10/3/2018	0.28
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 41	4/13/2018	0.33 U
Trichloroethene	MW 41	10/4/2018	0.33 U

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Analyte	Location	Date	Result (mg/L)
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 42	4/13/2018	0.2 U
Trichloroethene	MW 42	10/4/2018	0.2 U
Trichloroethene	MW 46	10/23/2014	0.001 U
Trichloroethene	MW 46	10/13/2015	0.001 U
Trichloroethene	MW 46	10/22/2016	0.001 U
Trichloroethene	MW 46	10/16/2017	0.001 U
Trichloroethene	MW 46	10/5/2018	0.00015 J
Trichloroethene	MW 49	4/28/2015	0.033 U
Trichloroethene	MW 49	10/13/2015	0.04 U
Trichloroethene	MW 49	4/19/2016	0.033 U
Trichloroethene	MW 49	4/11/2018	0.05 U
Trichloroethene	MW 49	10/3/2018	0.047
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 51	4/10/2018	0.087
Trichloroethene	MW 51	4/10/2018	0.097
Trichloroethene	MW 51	10/4/2018	0.064
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 56	10/5/2018	0.001 U
Trichloroethene	MW 57	10/23/2014	0.001 U
Trichloroethene	MW 57	10/13/2015	0.001 U
Trichloroethene	MW 57	10/22/2016	0.002 U
Trichloroethene	MW 57	10/18/2017	0.0033 U
Trichloroethene	MW 57	10/8/2018	0.001 U
Trichloroethene	MW 58	10/23/2014	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 58	10/8/2018	0.2 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 61	10/4/2018	0.001 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 64	10/3/2018	0.01 U
Trichloroethene	MW 64	10/3/2018	0.01 U
Trichloroethene	MW 65	10/22/2014	0.002 U

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Analyte	Location	Date	Result (mg/L)
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 65	10/4/2018	0.00027 J
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 66	4/11/2018	0.2 U
Trichloroethene	MW 66	10/3/2018	0.2 U
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 68	4/11/2018	1.7
Trichloroethene	MW 68	10/2/2018	1.4
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 75	10/2/2018	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 76/MW 76R-17	10/2/2018	0.001 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 79	4/10/2018	0.1 U
Trichloroethene	MW 79	10/2/2018	0.1 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 80	10/2/2018	0.002 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 81	10/9/2018	0.004 U
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 82	10/10/2018	0.00012 J
Trichloroethene	MW 82	10/10/2018	0.00014 J
Trichloroethene	MW 83	10/22/2014	0.001 U

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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 83	12/13/2018	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 84	10/4/2018	0.001 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 85	4/12/2018	0.5 U
Trichloroethene	MW 85	10/8/2018	0.5 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 86	10/4/2018	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 88	10/4/2018	0.001 U
Trichloroethene	MW 88	10/4/2018	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	MW 89-11	4/11/2018	0.001 U
Trichloroethene	MW 89-11	10/8/2018	0.001 U
Trichloroethene	MW 97R-16	10/25/2016	0.001 U
Trichloroethene	MW 97R-16	10/18/2017	0.001 U
Trichloroethene	MW 97R-16	10/9/2018	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 Intake	4/9/2018	0.005 U
Trichloroethene	Pond Intake	7/5/2018	0.0033 U
Trichloroethene	Pond Intake	7/5/2018	0.0033 U
Trichloroethene	Pond Intake	10/9/2018	0.005 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
Trichloroethene	Pond North	4/9/2018	0.011 U
Trichloroethene	Pond North	4/9/2018	0.01 U
Trichloroethene	Pond North	7/5/2018	0.0063 U
Trichloroethene	Pond North	10/9/2018	0.0067 U
Trichloroethene	Pond North	10/9/2018	0.0067 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-2	10/8/2018	0.001 U
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 3	4/11/2018	3.2
cis-1,2-Dichloroethene	MW 3	10/3/2018	4.8
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-4	4/12/2018	8.8
cis-1,2-Dichloroethene	MW-4	4/12/2018	8.3
cis-1,2-Dichloroethene	MW-4	10/8/2018	8.9
cis-1,2-Dichloroethene	MW-7	10/29/2014	0.001 U
cis-1,2-Dichloroethene	MW-7	10/18/2017	0.001 U
cis-1,2-Dichloroethene	MW-7	10/18/2017	0.001 U
cis-1,2-Dichloroethene	MW-7	10/9/2018	0.00018 J
cis-1,2-Dichloroethene	MW-7	10/9/2018	0.001 U
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 8	4/10/2018	3.6
cis-1,2-Dichloroethene	MW 8	10/2/2018	2.2
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 12	4/11/2018	0.1
cis-1,2-Dichloroethene	MW 12	10/4/2018	0.08
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 14	4/10/2018	4
cis-1,2-Dichloroethene	MW 14	10/3/2018	4.1
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 15	10/2/2018	5.4
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 16	10/3/2018	0.005 U
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 28	4/12/2018	0.97
cis-1,2-Dichloroethene	MW 28	10/4/2018	1
cis-1,2-Dichloroethene	MW 28	10/4/2018	1
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 31R	4/10/2018	20
cis-1,2-Dichloroethene	MW 31R	10/2/2018	33
cis-1,2-Dichloroethene	MW 31R	10/2/2018	32
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 37	10/5/2018	0.001 U
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 40	4/13/2018	5.8
cis-1,2-Dichloroethene	MW 40	10/3/2018	5.4
cis-1,2-Dichloroethene	MW 41	4/29/2015	6.4

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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 41	4/13/2018	5.8
cis-1,2-Dichloroethene	MW 41	10/4/2018	4.8
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 42	4/13/2018	3.9
cis-1,2-Dichloroethene	MW 42	10/4/2018	3.5
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 46	10/5/2018	0.001 U
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 49	4/11/2018	0.89
cis-1,2-Dichloroethene	MW 49	10/3/2018	0.89
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 51	4/10/2018	0.032
cis-1,2-Dichloroethene	MW 51	4/10/2018	0.034
cis-1,2-Dichloroethene	MW 51	10/4/2018	0.079
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 56	10/5/2018	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 57	10/8/2018	0.0082 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 58	10/8/2018	3
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

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cis-1,2-Dichloroethene	MW 61	10/4/2018	0.001 U
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 64	10/3/2018	0.21
cis-1,2-Dichloroethene	MW 64	10/3/2018	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 65	10/4/2018	0.015
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 66	4/11/2018	2.6
cis-1,2-Dichloroethene	MW 66	10/3/2018	3.4
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 68	4/11/2018	3.7
cis-1,2-Dichloroethene	MW 68	10/2/2018	4.4
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 75	10/2/2018	0.001 U
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 76/MW 76R-17	10/2/2018	0.0028
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 79	4/10/2018	3.5
cis-1,2-Dichloroethene	MW 79	10/2/2018	2.4
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 80	10/2/2018	0.015
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 81	10/9/2018	0.078

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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 82	10/10/2018	0.001 U
cis-1,2-Dichloroethene	MW 82	10/10/2018	0.001 U
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 83	12/13/2018	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 84	10/4/2018	0.001 U
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 85	4/12/2018	7.3
cis-1,2-Dichloroethene	MW 85	10/8/2018	8
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 86	10/4/2018	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 88	10/4/2018	0.001 U
cis-1,2-Dichloroethene	MW 88	10/4/2018	0.001 U
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	MW 89-11	4/11/2018	0.001 U
cis-1,2-Dichloroethene	MW 89-11	10/8/2018	0.001 U
cis-1,2-Dichloroethene	MW 97R-16	10/25/2016	0.0012
cis-1,2-Dichloroethene	MW 97R-16	10/18/2017	0.001 U
cis-1,2-Dichloroethene	MW 97R-16	10/9/2018	0.001 U
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

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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 Intake	4/9/2018	0.12
cis-1,2-Dichloroethene	Pond Intake	7/5/2018	0.077
cis-1,2-Dichloroethene	Pond Intake	7/5/2018	0.072
cis-1,2-Dichloroethene	Pond Intake	10/9/2018	0.1
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
cis-1,2-Dichloroethene	Pond North	4/9/2018	0.21
cis-1,2-Dichloroethene	Pond North	4/9/2018	0.22
cis-1,2-Dichloroethene	Pond North	7/5/2018	0.16
cis-1,2-Dichloroethene	Pond North	10/9/2018	0.13
cis-1,2-Dichloroethene	Pond North	10/9/2018	0.13
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-2	10/8/2018	0.001 U
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 3	4/11/2018	0.5 U
Vinyl chloride	MW 3	10/3/2018	0.25 U
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-4	4/12/2018	0.68
Vinyl chloride	MW-4	4/12/2018	0.65
Vinyl chloride	MW-4	10/8/2018	0.68
Vinyl chloride	MW-7	10/29/2014	0.001 U
Vinyl chloride	MW-7	10/18/2017	0.001 U
Vinyl chloride	MW-7	10/18/2017	0.001 U
Vinyl chloride	MW-7	10/9/2018	0.001 U
Vinyl chloride	MW-7	10/9/2018	0.001 U
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

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Analyte	Location	Date	Result (mg/L)
Vinyl chloride	MW 8	4/10/2018	0.62
Vinyl chloride	MW 8	10/2/2018	0.64
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 12	4/11/2018	0.0067 U
Vinyl chloride	MW 12	10/4/2018	0.005 U
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 14	4/10/2018	0.11 J
Vinyl chloride	MW 14	10/3/2018	0.13 J
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 15	10/2/2018	0.063 J
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 16	10/3/2018	0.22
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 21	10/3/2018	0.001 U
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 28	4/12/2018	0.17
Vinyl chloride	MW 28	10/4/2018	0.15
Vinyl chloride	MW 28	10/4/2018	0.16
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 31R	4/10/2018	1.1
Vinyl chloride	MW 31R	10/2/2018	2.4
Vinyl chloride	MW 31R	10/2/2018	2.1
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

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Analyte	Location	Date	Result (mg/L)
Vinyl chloride	MW 37	10/16/2017	0.001 U
Vinyl chloride	MW 37	10/5/2018	0.001 U
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 40	4/13/2018	0.18 J
Vinyl chloride	MW 40	10/3/2018	0.22
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 41	4/13/2018	0.3 J
Vinyl chloride	MW 41	10/4/2018	0.21 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 42	4/13/2018	0.11 J
Vinyl chloride	MW 42	10/4/2018	0.2 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 46	10/5/2018	0.001 U
Vinyl chloride	MW 49	4/28/2015	0.033 U
Vinyl chloride	MW 49	10/13/2015	0.012 J
Vinyl chloride	MW 49	4/21/2016	0.011 J
Vinyl chloride	MW 49	4/11/2018	0.05 U
Vinyl chloride	MW 49	10/3/2018	0.04 U
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 51	4/10/2018	0.0038
Vinyl chloride	MW 51	4/10/2018	0.0046
Vinyl chloride	MW 51	10/4/2018	0.0035 J
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 56	10/5/2018	0.001 U
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

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Analyte	Location	Date	Result (mg/L)
Vinyl chloride	MW 57	10/18/2017	0.096
Vinyl chloride	MW 57	10/8/2018	0.02
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 58	10/8/2018	0.064 J
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 61	10/4/2018	0.0013
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 64	10/3/2018	0.083
Vinyl chloride	MW 64	10/3/2018	0.089
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 65	10/4/2018	0.00074 J
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 66	4/11/2018	0.2 U
Vinyl chloride	MW 66	10/3/2018	0.2 U
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 68	4/11/2018	0.099 J
Vinyl chloride	MW 68	10/2/2018	0.11 J
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 75	10/2/2018	0.001 U
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 76/MW 76R-17	10/2/2018	0.001 U
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

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Analyte	Location	Date	Result (mg/L)
Vinyl chloride	MW 79	4/10/2018	0.31
Vinyl chloride	MW 79	10/2/2018	0.31
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 80	10/2/2018	0.051
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 81	10/9/2018	0.027
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 82	10/10/2018	0.001 U
Vinyl chloride	MW 82	10/10/2018	0.001 U
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 83	12/13/2018	0.012
Vinyl chloride	MW 84	4/10/2014	0.001 U
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 84	10/4/2018	0.001 U
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 85	4/12/2018	0.35 J
Vinyl chloride	MW 85	10/8/2018	0.68
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 86	10/4/2018	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 88	10/4/2018	0.0024
Vinyl chloride	MW 88	10/4/2018	0.0023
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

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Analyte	Location	Date	Result (mg/L)
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	MW 89-11	4/11/2018	0.001 U
Vinyl chloride	MW 89-11	10/8/2018	0.001 U
Vinyl chloride	MW 97R-16	10/25/2016	0.001 U
Vinyl chloride	MW 97R-16	10/18/2017	0.001 U
Vinyl chloride	MW 97R-16	10/9/2018	0.001 U
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 Intake	4/9/2018	0.013
Vinyl chloride	Pond Intake	7/5/2018	0.0076
Vinyl chloride	Pond Intake	7/5/2018	0.0073
Vinyl chloride	Pond Intake	10/9/2018	0.005
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
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
Vinyl chloride	Pond North	4/9/2018	0.014
Vinyl chloride	Pond North	4/9/2018	0.018
Vinyl chloride	Pond North	7/5/2018	0.023 J
Vinyl chloride	Pond North	10/9/2018	0.0059 J
Vinyl chloride	Pond North	10/9/2018	0.0064 J

Note:

Boxed values are outliers.

* High DL - observation was excluded due to ambiguous comparisons with data analyzed at lower detection limits.

Table C.4

Descriptive Statistics and Trend Test Results - Recent Period
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Analyte	Location	Date Range	Number of Samples	Number of Detects	Percent Detects	Minimum (mg/L)	Maximum (mg/L)	Mann-Kendall Trend test				Sen's Slope (units/day)
								Statistic	Probability	Confidence in trend	Conclusion	
Trichloroethene	MW-2	2014 -- 2018	5	0	0%	0.001 U	0.001 U	--	--	--	--	--
	MW 3	2015 -- 2018	8	8	100%	4.4	12	-2	0.549	45%	NT or Decreasing	-5E-04
	MW-4	2015 -- 2018	8	8	100%	0.5	2.4	16	0.032	97%	Increasing	8E-04
	MW-7	2017 -- 2018	2	0	0%	0.001 U	0.001 U	--	--	--	--	--
	MW 8	2015 -- 2018	8	8	100%	0.09 J	0.42	-8	0.807	19%	NT or Decreasing	-1E-04
	MW 12	2015 -- 2018	8	2	25%	0.00085 J	0.0057 U	--	--	--	--	--
	MW 14	2015 -- 2018	8	0	0%	0.13 U	0.2 U	--	--	--	--	--
	MW 15	2014 -- 2018	5	5	100%	2.5	5.5	-2	0.597	40%	NT or Decreasing	-1E-03
	MW 16	2014 -- 2018	5	1	20%	0.001 U	0.005 U	--	--	--	--	--
	MW 21	2015 -- 2018	4	1	25%	0.001 U	0.0013	--	--	--	--	--
	MW 28	2015 -- 2018	8	0	0%	0.025 U	0.067 U	--	--	--	--	--
	MW 31R	2015 -- 2018	8	0	0%	0.25 U	1 U	--	--	--	--	--
	MW 37	2014 -- 2018	5	0	0%	0.001 U	0.001 U	--	--	--	--	--
	MW 40	2015 -- 2018	8	8	100%	0.16 J	0.4	2	0.451	55%	NT or Decreasing	2E-05
	MW 41	2015 -- 2018	8	0	0%	0.2 U	0.33 U	--	--	--	--	--
	MW 42	2015 -- 2018	8	1	13%	0.035 J	0.2 U	--	--	--	--	--
	MW 46	2014 -- 2018	5	1	20%	0.00015 J	0.001 U	--	--	--	--	--
	MW 49	2015 -- 2018	5	1	20%	0.033 U	0.047	--	--	--	--	--
	MW 51	2015 -- 2018	8	8	100%	0.064	0.16	-18	0.985	1%	NT or Decreasing	-5E-05
	MW 56	2014 -- 2018	5	0	0%	0.001 U	0.001 U	--	--	--	--	--
	MW 57	2014 -- 2018	5	0	0%	0.001 U	0.0033 U	--	--	--	--	--
	MW 58	2014 -- 2018	5	0	0%	0.0033 U	0.2 U	--	--	--	--	--
	MW 61	2014 -- 2018	5	0	0%	0.001 U	0.001 U	--	--	--	--	--
	MW 64	2014 -- 2018	5	0	0%	0.0025 U	0.01 U	--	--	--	--	--
	MW 65	2014 -- 2018	5	1	20%	0.00027 J	0.002 U	--	--	--	--	--
	MW 66	2015 -- 2018	8	0	0%	0.025 U	0.2 U	--	--	--	--	--
	MW 68	2015 -- 2018	8	8	100%	1	1.7	6	0.267	73%	NT or Decreasing	1E-04
	MW 75	2014 -- 2018	4	0	0%	0.001 U	0.001 U	--	--	--	--	--
	MW 76/MW 76R-17	2014 -- 2018	3	0	0%	0.001 U	0.001 U	--	--	--	--	--
	MW 79	2015 -- 2018	8	0	0%	0.05 U	0.13 U	--	--	--	--	--
	MW 80	2014 -- 2018	5	0	0%	0.001 U	0.002 U	--	--	--	--	--
	MW 81	2014 -- 2018	5	0	0%	0.0033 U	0.008 U	--	--	--	--	--
	MW 82	2014 -- 2018	5	2	40%	0.00014 J	0.00097 J	--	--	--	--	--
	MW 83	2014 -- 2018	5	1	20%	0.00045 J	0.001 U	--	--	--	--	--
	MW 84	2014 -- 2018	5	0	0%	0.001 U	0.001 U	--	--	--	--	--
	MW 85	2015 -- 2018	8	0	0%	0.2 U	0.56 U	--	--	--	--	--

Table C.4

Descriptive Statistics and Trend Test Results - Recent Period
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Analyte	Location	Date Range	Number of Samples	Number of Detects	Percent Detects	Minimum (mg/L)	Maximum (mg/L)	Mann-Kendall Trend test				Sen's Slope (units/day)
								Statistic	Probability	Confidence in trend	Conclusion	
Trichloroethene (cont'd.)												
	MW 86	2014 -- 2018	5	0	0%	0.001 U	0.001 U	--	--	--	--	--
	MW 88	2014 -- 2018	5	0	0%	0.001 U	0.001 U	--	--	--	--	--
	MW 89-11	2015 -- 2018	8	1	13%	0.00036 J	0.001 U	--	--	--	--	--
	MW 97R-16	2016 -- 2018	3	0	0%	0.001 U	0.001 U	--	--	--	--	--
	Pond Intake	2016 -- 2018	9	1	11%	0.0017 U	0.0073	--	--	--	--	--
	Pond North	2016 -- 2018	9	1	11%	0.0025 U	0.033 U	--	--	--	--	--
cis-1,2-Dichloroethene												
	MW-2	2014 -- 2018	5	1	20%	0.001 U	0.0014	--	--	--	--	--
	MW 3	2015 -- 2018	8	8	100%	1.4	7.4	3	0.402	60%	NT or Decreasing	3E-04
	MW-4	2015 -- 2018	8	8	100%	7.9	12	-10	0.867	13%	NT or Decreasing	-2E-03
	MW-7	2014 -- 2018	3	1	33%	0.00018 J	0.001 U	--	--	--	--	--
	MW 8	2015 -- 2018	8	8	100%	2.2	4.9	-14	0.946	5%	NT or Decreasing	-1E-03
	MW 12	2015 -- 2018	8	8	100%	0.08	0.13	-15	0.961	4%	NT or Decreasing	-4E-05
	MW 14	2015 -- 2018	8	8	100%	4	4.8	-16	0.970	3%	NT or Decreasing	-6E-04
	MW 15	2014 -- 2018	5	5	100%	1.7	6.3	-2	0.597	40%	NT or Decreasing	-9E-04
	MW 16	2014 -- 2018	5	2	40%	0.00026 J	0.005 U	--	--	--	--	--
	MW 21	2015 -- 2018	4	1	25%	0.00046 J	0.001 U	--	--	--	--	--
	MW 28	2015 -- 2018	8	8	100%	0.6	1	21	0.006	99%	Increasing	3E-04
	MW 31R	2015 -- 2018	8	8	100%	6.6	69	21	0.006	99%	Increasing	2E-02
	MW 37	2014 -- 2018	5	0	0%	0.001 U	0.001 U	--	--	--	--	--
	MW 40	2015 -- 2018	8	8	100%	5	7.5	-11	0.894	11%	NT or Decreasing	-1E-03
	MW 41	2015 -- 2018	8	8	100%	4.8	6.5	-17	0.976	2%	NT or Decreasing	-1E-03
	MW 42	2015 -- 2018	8	8	100%	2.9	4.4	-11	0.894	11%	NT or Decreasing	-5E-04
	MW 46	2014 -- 2018	5	0	0%	0.001 U	0.001 U	--	--	--	--	--
	MW 49	2015 -- 2018	5	5	100%	0.71	0.89	7	0.071	93%	Increasing	7E-05
	MW 51	2015 -- 2018	8	8	100%	0.0078	0.079	28	4E-04	100%	Increasing	3E-05
	MW 56	2014 -- 2018	5	1	20%	0.00021 J	0.001 U	--	--	--	--	--
	MW 57	2014 -- 2018	5	1	20%	0.001 U	0.0042	--	--	--	--	--
	MW 58	2014 -- 2018	5	4	80%	0.0033 U	3	10	0.014	99%	Increasing	2E-03
	MW 61	2014 -- 2018	5	1	20%	0.00035 J	0.001 U	--	--	--	--	--
	MW 64	2014 -- 2018	5	5	100%	0.062	0.25	-2	0.597	40%	NT or Decreasing	-2E-05
	MW 65	2014 -- 2018	5	5	100%	0.015	0.064	-10	0.986	1%	NT or Decreasing	-3E-05
	MW 66	2015 -- 2018	8	8	100%	0.45	3.4	26	0.001	100%	Increasing	2E-03

Table C.4

Descriptive Statistics and Trend Test Results - Recent Period
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Anderson, Indiana

Analyte	Location	Date Range	Number of Samples	Number of Detects	Percent Detects	Minimum (mg/L)	Maximum (mg/L)	Mann-Kendall Trend test				Sen's Slope (units/day)
								Statistic	Probability	Confidence in trend	Conclusion	
cis-1,2-Dichloroethene (cont'd.)												
	MW 68	2015 -- 2018	8	8	100%	3.5	5.9	-11	0.894	11%	NT or Decreasing	-1E-03
	MW 75	2014 -- 2018	4	1	25%	0.001 U	0.0007 J	--	--	--	--	--
	MW 76/MW 76R-17	2014 -- 2018	3	3	100%	0.00043 J	0.0028	--	--	--	--	--
	MW 79	2015 -- 2018	8	8	100%	2	3.5	11	0.101	90%	NT or Decreasing	3E-04
	MW 80	2014 -- 2018	5	4	80%	0.001 U	0.025	6	0.110	89%	NT or Decreasing	1E-05
	MW 81	2014 -- 2018	5	5	100%	0.077	0.19	-4	0.769	23%	NT or Decreasing	-7E-05
	MW 82	2014 -- 2018	5	2	40%	0.00041 J	0.002	--	--	--	--	--
	MW 83	2014 -- 2018	5	1	20%	0.00041 J	0.001 U	--	--	--	--	--
	MW 84	2014 -- 2018	5	2	40%	0.00027 J	0.001	--	--	--	--	--
	MW 85	2015 -- 2018	8	8	100%	7.3	10	-17	0.977	2%	NT or Decreasing	-2E-03
	MW 86	2014 -- 2018	5	0	0%	0.001 U	0.001 U	--	--	--	--	--
	MW 88	2014 -- 2018	5	0	0%	0.001 U	0.001 U	--	--	--	--	--
	MW 89-11	2015 -- 2018	8	3	38%	0.0003 J	0.0033 U	--	--	--	--	--
	MW 97R-16	2016 -- 2018	3	1	33%	0.001 U	0.0012	--	--	--	--	--
	Pond Intake	2016 -- 2018	9	9	100%	0.036	0.12	10	0.174	83%	NT or Decreasing	4E-05
	Pond North	2016 -- 2018	9	9	100%	0.09	0.5	2	0.458	54%	NT or Decreasing	1E-05
Vinyl chloride												
	MW-2	2014 -- 2018	5	0	0%	0.001 U	0.001 U	--	--	--	--	--
	MW 3	2015 -- 2018	8	1	13%	0.1 U	0.5 U	--	--	--	--	--
	MW-4	2015 -- 2018	8	8	100%	0.42 J	0.84	18	0.018	98%	Increasing	2E-04
	MW-7	2014 -- 2018	3	0	0%	0.001 U	0.001 U	--	--	--	--	--
	MW 8	2015 -- 2018	8	8	100%	0.62	2.1	-17	0.977	2%	NT or Decreasing	-1E-03
	MW 12	2015 -- 2018	8	0	0%	0.0025 U	0.0067 U	--	--	--	--	--
	MW 14	2015 -- 2018	8	8	100%	0.11 J	0.15 J	-11	0.896	10%	NT or Decreasing	-2E-05
	MW 15	2014 -- 2018	5	3	60%	0.1 U	0.5 U	--	--	--	--	--
	MW 16	2014 -- 2018	5	2	40%	0.001 U	0.22	--	--	--	--	--
	MW 21	2015 -- 2018	4	0	0%	0.001 U	0.001 U	--	--	--	--	--
	MW 28	2015 -- 2018	8	8	100%	0.13	0.21	0	0.500	50%	NT or Decreasing	-4E-06
	MW 31R	2015 -- 2018	8	8	100%	0.63	9	10	0.133	87%	NT or Decreasing	1E-03
	MW 37	2014 -- 2018	5	0	0%	0.001 U	0.001 U	--	--	--	--	--
	MW 40	2015 -- 2018	8	8	100%	0.18 J	0.44	-20	0.991	1%	NT or Decreasing	-2E-04
	MW 41	2015 -- 2018	8	8	100%	0.21 J	0.46	-20	0.991	1%	NT or Decreasing	-2E-04
	MW 42	2015 -- 2018	8	7	88%	0.092 J	0.26	-2	0.549	45%	NT or Decreasing	4E-06

Descriptive Statistics and Trend Test Results - Recent Period
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2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Analyte	Location	Date Range	Number of Samples	Number of Detects	Percent Detects	Minimum (mg/L)	Maximum (mg/L)	Mann-Kendall Trend test				Sen's Slope (units/day)
								Statistic	Probability	Confidence in trend	Conclusion	
Vinyl chloride (cont'd.)												
	MW 46	2014 -- 2018	5	0	0%	0.001 U	0.001 U	--	--	--	--	--
	MW 49	2015 -- 2018	4	2	50%	0.011 J	0.05 U	--	--	--	--	--
	MW 51	2015 -- 2018	8	8	100%	0.0026 J	0.0079	1	0.500	50%	NT or Decreasing	1E-07
	MW 56	2014 -- 2018	5	0	0%	0.001 U	0.001 U	--	--	--	--	--
	MW 57	2014 -- 2018	5	5	100%	0.0037	0.096	4	0.231	77%	NT or Decreasing	3E-05
	MW 58	2014 -- 2018	5	5	100%	0.059	0.16	-6	0.890	11%	NT or Decreasing	-3E-05
	MW 61	2014 -- 2018	5	4	80%	0.00042 J	0.0013	4	0.231	77%	NT or Decreasing	5E-07
	MW 64	2014 -- 2018	5	5	100%	0.03	0.089	8	0.043	96%	Increasing	3E-05
	MW 65	2014 -- 2018	5	5	100%	0.00074 J	0.0016 J	-5	0.844	16%	NT or Decreasing	-4E-07
	MW 66	2015 -- 2018	8	6	75%	0.075	0.14	-15	0.961	4%	NT or Decreasing	-3E-05
	MW 68	2015 -- 2018	8	8	100%	0.099 J	0.18 J	-13	0.933	7%	NT or Decreasing	-5E-05
	MW 75	2014 -- 2018	4	0	0%	0.001 U	0.001 U	--	--	--	--	--
	MW 76/MW 76R-17	2014 -- 2018	3	1	33%	0.001 U	0.00051 J	--	--	--	--	--
	MW 79	2015 -- 2018	8	8	100%	0.13	0.31	22	0.004	100%	Increasing	1E-04
	MW 80	2014 -- 2018	5	5	100%	0.036	0.051	8	0.043	96%	Increasing	1E-05
	MW 81	2014 -- 2018	5	5	100%	0.026	0.062	-2	0.597	40%	NT or Decreasing	-2E-05
	MW 82	2014 -- 2018	5	0	0%	0.001 U	0.001 U	--	--	--	--	--
	MW 83	2014 -- 2018	5	5	100%	0.0015	0.012	10	0.014	99%	Increasing	6E-06
	MW 84	2014 -- 2018	5	0	0%	0.001 U	0.001 U	--	--	--	--	--
	MW 85	2015 -- 2018	8	8	100%	0.35 J	0.68	9	0.159	84%	NT or Decreasing	9E-05
	MW 86	2014 -- 2018	5	0	0%	0.001 U	0.001 U	--	--	--	--	--
	MW 88	2014 -- 2018	5	5	100%	0.00034 J	0.0024	10	0.014	99%	Increasing	2E-06
	MW 89-11	2015 -- 2018	8	0	0%	0.001 U	0.001 U	--	--	--	--	--
	MW 97R-16	2016 -- 2018	3	0	0%	0.001 U	0.001 U	--	--	--	--	--
	Pond Intake	2016 -- 2018	9	9	100%	0.0031	0.013	14	0.088	91%	Increasing	3E-06
	Pond North ⁽¹⁾	2016 -- 2018	8	8	100%	0.0053	0.023 J	6	0.268	73%	NT or Decreasing	1E-05

Notes:

⁽¹⁾ One observation (0.033 U mg/L in October 2016) was 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).



about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

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