
2014 QUARTERLY GROUNDWATER SAMPLING EVENTS
Former Texaco Research Center
Beacon (Glenham), New York

Site ID# 314004

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LIST OF ACRONYMS

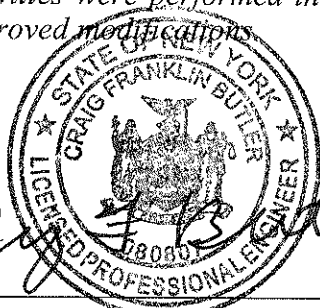
ASTs	Aboveground Storage Tanks
ASP	Analytical Services Protocol
bgs	Below Ground Surface
COC	Chain of Custody
Creek	Fishkill Creek
DO	Dissolved Oxygen
DUSR	Data Usability Summary Report
DTW	Depth to Water
EIM™	Environmental Information Management
ELAP	Environmental Laboratory Approval Program
EPA	Environmental Protection Agency
ft.	feet
FTA	Fleet Test Area
GIS	Geographic Information System
HDPE	High Density Polyethylene
IDW	Investigation Derived Waste
LNAPL	Light Non-Aqueous Phase Liquid
Main Facility	Portion of the Site north of Fishkill Creek (a.k.a. “Main Campus”)
mg/L	Milligrams/liter (parts per million (ppm))
MS/MSD	Matrix Spike and Matrix Spike Duplicate
NAPL	Non-Aqueous Phase Liquid
NYCRR	New York Code Rules and Regulations
NYSDEC	New York State Department of Conservation
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transportation
OU	Operable Unit
PPE	Personal Protective Equipment
PPM	Parts per million
PVC	Polyvinyl Chloride
QA/QC	Quality Assurance and Quality Control
QAPP	Quality Assurance Project Plan
RCRA	Resource Conservation and Recovery Act

LIST OF ACRONYMS (Continued)

RFI	RCRA Facility Investigation
Site	Former Texaco Research Center Beacon
SRFI	Supplemental RFI
SVOCs	Semivolatile Organic Compounds
TOGS	Technical and Operational Guidance Series
TRCB	Texaco Research Center Beacon
VOCs	Volatile Organic Compounds
WATF	Washington Avenue Tank Farm
WWTP	Wastewater Treatment Plant

ENGINEER'S CERTIFICATION**CERTIFICATION OF COMPLETION**

I, Craig F. Butler, certify that I am currently a New York State registered Professional Engineer (P.E.) and that the 2014 Quarterly Groundwater Sampling Event Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.



Craig F. Butler, P.E.
New York, No. 080807
Parsons

04/28/15

Date

EXECUTIVE SUMMARY

The purpose of this report is to describe and document the results of the 2014 Quarterly Groundwater Sampling Events that were completed in March, June, September, and November 2014 at the former Texaco Research Center Beacon (TRCB) located in Beacon, New York (Site). A summary of monitoring results is provided below.

BUILDING 58/83 AREA

- Eight (8) groundwater monitoring wells were sampled during the quarterly sampling program. Four (4) of the wells were installed in the overburden, while the remaining four (4) wells were bedrock wells. Depth to water (DTW) was encountered from 4.03 feet (ft.) below ground surface (bgs) to 7.41 ft. bgs in the overburden wells, while DTW in the bedrock wells varied from 4.85 ft. bgs to 16.72 ft. bgs.
- In general, DTW in both the overburden and bedrock wells was shallowest in spring and deepest during the fall.
- Volatile organic compounds (VOCs) and manganese were detected at concentrations that exceeded the NYSDEC TOGS 1.1.1 Class GA groundwater screening criteria during all four (4) quarterly sampling events in both overburden and bedrock groundwater. Chloride was only detected at concentrations exceeding the NYSDEC TOGS 1.1.1 Class GA groundwater screening criteria in two (2) of the eight (8) wells sampled in the Building 58/83 Area (Bedrock wells SWMW-2 and ITMW-13).
- General VOC concentrations were also observed to fluctuate over the course of the year (e.g. increasing then decreasing or vice-versa). Fluctuation direction varied between individual wells.

BUILDING 36 AREA

- Five (5) bedrock groundwater monitoring wells were sampled during the quarterly sampling program. Depth to water was encountered from 6.02 ft. bgs to 18.61 ft. bgs.
- The general DTW behavior observed in the bedrock wells was very similar to that observed in the Building 58/83 Area.
- VOCs were detected at concentrations that exceeded the NYSDEC TOGS 1.1.1 Class GA groundwater screening criteria in all four (4) quarterly sampling events, while chloride was detected at concentrations exceeding the groundwater screening criteria in only one well (SWMW-45) during the third and fourth quarterly sampling events. Manganese was detected at concentrations exceeding the NYSDEC TOGS 1.1.1 Class GA groundwater screening criteria in all sampled bedrock wells with the exception of SWMW-123.
- General VOC concentrations were observed to fluctuate over the course of the year, with the direction varying between individual wells.

BUILDINGS 45/55 AREA

- Eight (8) groundwater monitoring wells were sampled during the quarterly sampling program. Seven (7) of the wells were overburden wells, and one was a bedrock well.

Depth to water was encountered from 3.5 ft. bgs to 13.04 ft. bgs in the overburden wells, while DTW in the bedrock well varied from 3.25 ft. bgs to 5.68 ft. bgs.

- The general DTW observations in the bedrock wells were very similar to that observed in the Building 58/83 Area.
- VOCs were detected at concentrations that exceeded the NYSDEC TOGS 1.1.1 Class GA groundwater screening criteria for all four (4) quarterly sampling events for all the overburden wells with the exception of one (SWMW-65). Manganese was detected at concentrations exceeding the NYSDEC TOGS 1.1.1 Class GA groundwater screening criteria for all four (4) quarterly sampling events for the overburden wells, while chloride was detected above the NYSDEC groundwater screening criteria in all the overburden wells at least once, with the exception of two (2) wells (SWMW-25 and ITMW-25).
- The bedrock well (SWMW-44) groundwater contained VOC and manganese concentrations that exceeded the NYSDEC TOGS 1.1.1 Class GA groundwater screening criteria for all four (4) quarterly sampling events, while chloride was not detected at concentrations above the screening criteria during any of the quarterly sampling events.
- General VOC concentrations were observed to fluctuate over the course of the year, with the direction varying between individual wells.

BUILDING 51 AREA

- Seventeen (17) groundwater monitoring wells were sampled during the quarterly sampling program. Six (6) of the wells were overburden wells, while the remaining eleven (11) were bedrock wells. Depth to water was encountered from 8.37 ft. bgs to 19.67 ft. bgs in the overburden wells, while DTW in the bedrock wells varied from 6.72 ft. bgs to 48.19 ft. bgs.
- The general DTW observations in the overburden and bedrock wells were very similar to that observed in the Building 58/83 Area.
- VOCs and manganese were detected at concentrations that exceeded the NYSDEC TOGS 1.1.1 Class GA groundwater screening criteria during all four (4) quarterly sampling events in all the overburden groundwater. Chloride was detected above the NYSDEC groundwater screening criteria in only two (2) overburden wells (SWMW-58 and SWMW-113) at least once during quarterly sampling activities.
- Within the bedrock wells, VOCs were detected at concentrations exceeding the NYSDEC TOGS 1.1.1 Class GA groundwater screening criteria during all four (4) quarterly sampling events, while manganese was detected in five (5) of the eleven (11) bedrock wells sampled at least once during quarterly sampling activities. Chloride was only detected above the NYSDEC TOGS 1.1.1 Class GA groundwater screening criteria in three (3) of the eleven (11) bedrock wells sampled at least once during quarterly sampling activities.
- General VOC concentrations were observed to fluctuate over the course of the year, with the direction varying between individual wells.

WASHINGTON AVENUE TANK FARM AREA

- Four (4) overburden groundwater monitoring wells were sampled during the quarterly sampling program. Depth to water was encountered from 5.60 ft. bgs to 9.04 ft. bgs in the wells.
- The general DTW behavior observed in the overburden and bedrock wells was very similar to that observed in the Building 58/83 Area.
- VOCs and manganese were detected at concentrations exceeding the NYSDEC TOGS 1.1.1 Class GA groundwater screening criteria during all four (4) quarterly sampling events in all the overburden wells. Chloride was detected above the NYSDEC groundwater screening criteria in only two (2) overburden wells (SWMW-30 and SWMW-31) at least once during quarterly sampling activities.
- General VOC concentrations were observed to fluctuate over the course of the year, with the direction varying between individual wells.

ANALYTICAL DATA COMPARISON

Geographic Information System (GIS) contouring of groundwater constituent concentrations and analytical data comparison was performed for all four (4) quarterly groundwater sampling data sets and graphs were produced indicating chemical trend analysis for the four parameters mentioned above for chemical data collected from 2008, 2010, 2012, 2013, and 2014. The primary conclusion of the analysis was that natural attenuation through biodegradation of the organic parameters could be one of the contributors taking place at the Site assisting in the natural reduction of contaminants, but at an extremely slow rate. This conclusion was based on the observed fluctuations of the VOC concentrations and observed plume extents (boundaries) throughout the course of the year (e.g., plume extents either stayed the same or shrank slightly) and from VOC concentration fluctuations observed from 2008 through 2014 trend analysis graphs (General observation of VOC data showed either a general decrease in concentrations or a constant value concentration through the years with periodic increases.).

SECTION 1

INTRODUCTION

1.1 PROJECT OBJECTIVES

The purpose of this report is to describe and document the results of the quarterly groundwater sampling events that were completed in March, June, September, and November 2014 at the former Texaco Research Center Beacon (TRCB) (See Figure 1).

The results presented in the Sitewide RCRA Facility Investigation (RFI) Report (Parsons, 2007a), Supplemental RFI (SRFI) (Parsons, 2009a), 2008 Sitewide Groundwater Sampling Event (Parsons, 2009b), 2010 Sitewide Groundwater Sampling Event (Parsons, 2010), 2012 Sitewide Groundwater Sampling Event (Parsons, 2013a), Concrete Foundation Drilling Investigation Event (Parsons 2013b), and 2013 Sitewide Groundwater Sampling Event (Parsons, 2014) were used to identify six (6) areas of the Site (also, known as Operable Unit (OU) No. 1A (Main Facility) and No. 1C (Former Washington Avenue Tank Farm Area)) where there were indications that groundwater has been impacted by chemical constituents, namely:

- **Building 51 and Northeast Areas (OU-1A)** - The Building 51 Area is located on the eastern side of the developed part of the Site. Historical mapping indicates that this area was used for drum storage and contained aboveground storage tanks (ASTs) and a cracking/distillation tower. The northeast portion of the Main Facility includes the Fleet Test Area (FTA) parking lots and the former Credit Union (Building 31).
- **Former Washington Avenue Tank Farm Area (OU-1C)** - The Former Washington Avenue Tank Farm (WATF) is located on an approximately 5.45 acre parcel on the south side of Fishkill Creek.
- **Building 36 and Building 58/83 Areas (OU-1A)** - The Building 36 Area and Building 58/83 Area is located in the western part of the Main Facility along the northern bank of Fishkill Creek. The area includes Buildings 36, 42, 52, 79 and 82.
- **Buildings 45/55 Area (OU-1A)** - The Building 45/55 Area is located in the central part of the Main Facility. The Building 45 Area includes the lower section of the Site along Fishkill Creek. There is a flat area located along the north side of Fishkill Creek downstream of the dam, with an elevation approximately twelve (12) feet above the normal Fishkill Creek water level. The area is bordered to the east by Building 3, to the north and west by a sheer rock face, and to the south by the Creek. Texaco operations in this area included the sanitary and industrial wastewater treatment plants (WWTP). The Building 55 Area includes Building 55 (offices), Building 56 (garage), Building 29 (mechanical laboratory, fuel/lubricant testing), Building 26 (Boiler House), Building 44 (electrical switch house), Building 30 (Health and Safety) and Building 65 (laboratory).

The quarterly groundwater sampling events detailed in this report were designed to provide additional data to compare against data collected from previous groundwater sampling events and to provide groundwater data from specific wells located at the facility in order to determine the degree of biodegradation taking place within the subsurface, examine effects of groundwater

level on contaminant concentrations, assist in the refinement of a site conceptual model(s), and assist in identifying potential remedial alternatives for the site. The results of the RFI, SRFI, 2008 Sitewide Groundwater Sampling Event, 2010 Sitewide Groundwater Sampling Event, 2012 Sitewide Groundwater Sampling Event, Concrete Foundation Drilling Investigation Event, and 2013 Sitewide Groundwater Sampling Event were used to identify groundwater monitoring wells that have historically indicated detectable VOC concentrations.

1.2 REPORT ORGANIZATION

This report has been organized into sections similar to those presented in previous reports.

- Section 1 presents an introduction and includes a discussion of the organization of this report.
- Section 2 provides a description of the completed scope of work. This includes the quality assurance and quality control (QA/QC) program, the database management program and a summary of the field methods used.
- Section 3 provides descriptions of each of the areas investigated, the scope of work completed, and the results of the investigations in those areas.
- Section 4 presents sample event conclusions and provides recommendations for future sampling events.
- Section 5 consists of a reference section.

SECTION 2

SCOPE OF WORK

2.1 INTRODUCTION

The purpose of this section is to describe and document the methods used during the field investigation. The quarterly groundwater sampling events were completed in accordance with the Generic Work Plan, Site Investigation Activities (Parsons, 2007b) and the project work plan (Parsons, 2014a) approved by the New York State Department of Environmental Conservation (NYSDEC) via electronic mail in the Spring of 2014.

2.2 SUMMARY OF WORK SCOPE

The scope of work for the 2014 Quarterly Groundwater Sampling Events included the measurement of groundwater elevations and collection and analyses of groundwater samples from specific groundwater monitoring wells (forty-four (44) total) located at the TRCB facility. Thirty-four (34) the 44 wells were sampled during all four quarters, while the additional 10 wells were only sampled in one of the quarters. Sampling activities were only performed in five (5) of the six (6) areas of the Site (Buildings 58/83 Area, Building 36 Area, Building 45/55 Area, Building 51 Area, and WATF Area) where groundwater has been impacted by chemical constituents. Wells that did not contain a measurable quantity of water or contained light non-aqueous phase liquid (LNAPL) were not sampled. Analytical results included in this report were validated, as specified in the Generic Quality Assurance Project Plan (QAPP) (Parsons, 2014b).

2.3 QA/QC PROGRAM

2.3.1 Field Duplicate and MS/MSD Samples, Wash Blanks, Trip Blanks

Field duplicate, matrix spike and matrix spike duplicate (MS/MSD) samples and sample blanks were collected and analyzed in accordance with the QAPP included in the Generic Work Plan (Parsons, 2007b).

2.3.2 Sample Custody and Custody Seals

Sample Chain-of-Custody (COC) logs and custody seals were used to ensure that sample integrity was not compromised subsequent to sample collection and during shipment to the laboratory. Shipment particulars, such as samples submitted, analyses requested, and sample custody were recorded on the COCs. The field team retained one copy of the COC and the laboratory received the remaining one copy for internal use.

2.3.3 Laboratory Analyses

The analyses were conducted using NYSDEC Analytical Services Protocol (ASP) dated September 1989 with revisions. The analytical work was performed by a laboratory approved by the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) for the categories of solid and hazardous waste. Chemical and physical analyses not covered by ASP procedures were conducted using procedures specified in the QAPP. Sample custody, laboratory procedures, and other QA/QC requirements were performed in accordance with the specifications in the QAPP.

2.3.4 Data Validation

The samples were collected by Parsons and analyzed by Eurofins-Lancaster Laboratories, Lancaster, Pennsylvania following the procedures outlined in the Project QAPP (Parsons, 20014b).

The data submitted by the laboratory have been reviewed and validated, following the guidelines outlined in the project QAPP.

The analytical data were found to be acceptable in terms of deliverable completeness, accuracy, precision, representativeness, completeness and comparability. A copy of the Data Usability Summary Report (DUSR) for groundwater samples is included in Appendix A, while copies of the analytical laboratory reports with chain-of-custody documentation are included in Appendix C

2.4 DATABASE MANAGEMENT

The data generated during the groundwater sampling activities were stored and managed using LocusFocus Environmental Information Management (Locus EIM™) database software (Chevron's national environmental lab data management program used on all Chevron projects). Following data validation, the Locus EIM™ database was updated to reflect any changes as a result of data validation. These changes included concentration changes, where appropriate, and removal, addition, and/or changes to data qualifiers. The data used in this report were taken from the updated master database to ensure that only current, validated analytical results were used.

2.5 SELECTION OF SCREENING CRITERIA

NYSDEC has issued guidance for the screening of groundwater analytical results.

In 1998, NYSDEC issued Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1: Ambient Groundwater Quality Standards and Guidance Values and Groundwater Effluent Limitations (NYSDEC, 1998). This document provides a summary of water quality standards regulated under New York Codes, Rules and Regulations (NYCRR) 703.5 and proposes guidance values for compounds where regulatory standards do not exist. Standards and guidance values have been developed for the specific class of fresh groundwater. The water class assigned to fresh groundwater in New York State is Class GA.

In this report, the Class GA Standards and Guidance Values posted in TOGS 1.1.1 are presented as screening criteria for the purpose of screening the groundwater sample analytical results to identify areas of the Site where potential environmental impacts may exist. This approach is consistent with the reporting included in the RFI, SRFI, 2008 Sitewide Groundwater Sampling, 2010 Sitewide Groundwater Sampling Event, 2012 Sitewide Groundwater Sampling Event, Concrete Foundation Drilling Investigation, and 2013 Sitewide Groundwater Sampling Event Reports.

2.6 INVESTIGATION METHODS

2.6.1 Groundwater Sampling

Prior to groundwater sampling, water level measurements were performed at the specified monitoring wells. Water level elevations have been determined and referenced to the Texaco Site Datum. A summary of the water level elevations is included in Table 1.

Groundwater samples were collected from forty four (44) monitoring wells located at the facility. Groundwater samples were not collected from wells that did not contain a measurable volume of water or contained measureable non-aqueous phase liquid (NAPL).

Prior to sampling, wells were purged so that water representative of adjacent aquifer conditions was collected. The wells were purged using either dedicated high density polyethylene (HDPE) bailers or submersible pumps with dedicated polyurethane tubing, until three to five well volumes of water had been removed. The water levels were allowed to recover to static equilibrium prior to sampling. Copies of the groundwater sampling records are included in Appendix B.

All field information mentioned above was documented in an electronic tablet. Entries were of sufficient detail that a complete daily record of significant events, observations, and measurements was obtained.

Water from each well was collected using disposable HDPE bailers. The samples collected were analyzed in accordance with the approved QAPP. Groundwater samples were analyzed for volatile organic compounds (VOCs-benzene, chlorobenzene, trichlorobenzene, vinyl chloride, and cis-1,2-dichloroethylene) by Environmental Protection Agency (EPA) Method 8260 and natural attenuation parameters (sulfate, alkalinity, nitrate, manganese, iron (II) (a.k.a- ferrous iron), methane, ethane, ethene, carbon dioxide, sulfide, and chloride.).

All groundwater sampling activities followed protocols outlined in the Project Sampling and Analysis Plan (SAP) (Parsons, 2014c).

2.6.2 Investigation Derived Wastes

The investigation derived waste (IDW) consisted of purged groundwater, disposable bailers, tubing, and personal protective equipment (PPE). IDW water was collected in a polyurethane tank and transported to the on-site industrial wastewater treatment system for disposal, while all other IDW was properly disposed of.

SECTION 3

ANALYTICAL RESULTS

3.1 INTRODUCTION

Groundwater samples were collected from a minimum of thirty four (34) wells to a maximum of forty four wells (44), depending on which quarterly sampling event was being performed. All groundwater samples were analyzed for VOCs (benzene, chlorobenzene, trichlorobenzene, vinyl chloride, and cis-1,2-dichloroethylene), sulfate, alkalinity, nitrate, manganese, iron (II) (a.k.a- ferrous iron), methane, ethane, ethene, carbon dioxide, sulfide, and chloride. VOCs, manganese, and chloride were detected at concentrations exceeding the NYSDEC TOGS 1.1.1 Class GA groundwater quality screening criteria in various samples.

The following paragraphs provide summaries of the quarterly sampling program.

3.2 BUILDING 58/83 AREA

Eight (8) groundwater monitoring wells were sampled during the quarterly sampling program. Four (4) of the wells were overburden wells (GT-2, Unknown Wells 1, 2, and 3), while the remaining four (4) wells were bedrock wells (SWMW-2, SWMW-114, SWMW-125, and ITMW-13). Refer to Figure 2 for well locations. Depth to water was encountered from 4.03 ft. bgs (Unknown Well No. 1) to 7.41 ft. bgs (Unknown Well No. 1) in the overburden wells, while DTW in the bedrock wells varied from 4.85 ft. bgs (SWMW-2) to 16.72 ft. bgs (SWMW-114). In addition, it was observed that the general DTW in both the overburden and bedrock wells was shallowest during spring and deepest during the fall.

During the quarterly sampling events, VOCs and manganese were detected at concentrations that exceeded the NYSDEC TOGS 1.1.1 Class GA groundwater screening criteria for all four (4) quarterly sampling events for both overburden and bedrock wells. Chloride was only detected at concentrations exceeding the NYSDEC TOGS 1.1.1 Class GA groundwater screening criteria in two (2) of the eight (8) wells sampled in the Building 58/83 Area (Bedrock wells SWMW-2 and ITMW-13). Well SWMW-2 exceeded the groundwater criteria for chloride for the first three (3) quarterly sampling events, while chloride concentrations in ITMW-13 exceeded criteria for all four (4) quarterly sampling events.

In general, VOC concentrations were also observed to fluctuate over the course of the year with the direction varying between individual wells.

3.3 BUILDING 36 AREA

Five (5) bedrock groundwater monitoring wells (ITMW-13, ITMW-30, ITMW-31, SWMW-45, SWMW-55, and SWMW-123) were sampled during the quarterly sampling program. Refer to Figure 2 for well locations. Depth to water was encountered from 6.02 ft. bgs (ITMW-13) to 18.61 ft. bgs (SWMW-123). The general DTW observations in the bedrock wells were very similar to those observed in the Building 58/83 Area.

During the sampling events; VOCs were detected at concentrations exceeding the NYSDEC TOGS 1.1.1 Class GA groundwater screening criteria in all four (4) quarterly sampling events, while chloride was detected at concentrations exceeding the groundwater screening criteria in only one well (SWMW-45) during the third and fourth quarterly sampling events. Manganese

was also detected exceeding the NYSDEC TOGS 1.1.1 Class GA groundwater screening criteria in all the bedrock wells sampled, with the exception of SWMW-123.

In general, VOC concentrations were also observed to fluctuate over the course of the year with the direction varying between individual wells.

3.4 BUILDING 45/55 AREA

Eight (8) groundwater monitoring wells were sampled during the quarterly sampling program. Seven (7) of the wells were overburden wells (ITMW-24, ITMW-25, SWMW-25, SWMW-48, SWMW-10, SWMW-28, and SWMW-65), while the remaining well was a bedrock well (SWMW-44). Refer to Figure 2 for well locations. Depth to water was encountered from 3.5 ft. bgs (SWMW-25) to 13.04 ft. bgs (ITMW-24) in the overburden wells, while DTW in the bedrock well varied from 3.25 ft. bgs (SWMW-44) to 5.68 ft. bgs (SWMW-44). The general DTW observations in the bedrock wells were very similar to those observed in the Building 58/83 Area.

During the quarterly sampling events; VOCs were detected at concentrations exceeding the NYSDEC TOGS 1.1.1 Class GA groundwater screening criteria for all four (4) quarterly sampling events for all the overburden wells with the exception of well SWMW-65 which did not exhibit any VOC concentrations exceeding the NYSDEC groundwater screening criteria. Manganese was also detected at concentrations exceeding the NYSDEC TOGS 1.1.1 Class GA groundwater screening criteria for all four (4) quarterly sampling events for the overburden wells, while chloride was detected above the NYSDEC groundwater screening criteria in all the overburden wells at least once with the exception of two (2) wells (SWMW-25 and ITMW-25).

Groundwater from bedrock well (SWMW-44) contained VOC and manganese concentrations in exceedance of the NYSDEC TOGS 1.1.1 Class GA groundwater screening criteria for all four (4) quarterly sampling events, while chloride was not detected at concentrations above the screening criteria during any of the quarterly sampling events.

In general, VOC concentrations were also observed to fluctuate over the course of the year with the direction varying between individual wells.

3.5 BUILDING 51 AREA

Seventeen (17) groundwater monitoring wells were sampled during the quarterly sampling program. Six (6) of the wells were overburden wells (ITMW-5, SWMW-62, SWMW-113, SWMW-58, SWMW-15, and SWMW-67), while the remaining eleven (11) wells were bedrock wells (ITMW-6, SWMW-13, SWMW-68, SWMW-56, SWMW-66, SWMW-112, SWMW-126, SWMW-41, SWMW-14, SWMW-103, and SWMW-111). Refer to Figure 2 for well locations. Depth to water was encountered from 8.37 ft. bgs (SWMW-62) to 19.67 ft. bgs (SWMW-15) in the overburden wells, while DTW in the bedrock wells varied from 6.72 ft. bgs (SWMW-126) to 48.19 ft. bgs (SWMW-13). The general DTW in both the overburden and bedrock wells was shallowest during spring and deepest during the fall.

During the quarterly sampling events, VOCs and manganese were detected at concentrations exceeding the NYSDEC TOGS 1.1.1 Class GA groundwater screening criteria for all four (4) quarterly sampling events for all the overburden wells, while chloride was detected above the NYSDEC groundwater screening criteria in only two (2) overburden wells (SWMW-58 and SWMW-113) at least once during quarterly sampling activities.

Within the bedrock wells, VOCs were detected at concentrations exceeding the NYSDEC TOGS 1.1.1 Class GA groundwater screening criteria for all four (4) quarterly sampling events, while manganese was detected in five (5) of the eleven (11) bedrock wells sampled at least once during quarterly sampling activities. Wells SWMW-13, SWMW-14, SWMW-41, SWMW-56, SWMW-103, and SWMW-126 did not exhibit manganese concentrations exceeding the NYSDEC groundwater screening criteria. Chloride was only detected above the NYSDEC TOGS 1.1.1 Class GA groundwater screening criteria in three (3) of the eleven (11) bedrock wells sampled (SWMW-13, SWMW-66, and SWMW-112) at least once during quarterly sampling activities.

In general, VOC concentrations were also observed to fluctuate over the course of the year with the direction varying between individual wells.

3.6 WASHINGTON AVENUE TANK FARM AREA

Four (4) overburden groundwater monitoring wells were sampled during the quarterly sampling program (SWMW-21, SWMW-30, SWMW-31, and SWMW-71). Refer to Figure 2 for well locations. Depth to water was encountered from 5.60 ft. bgs (SWMW-21) to 9.04 ft. bgs (SWMW-30) in the wells. The general DTW in both the overburden and bedrock wells was shallowest during spring and deepest during the fall.

During the quarterly sampling events, VOCs and manganese were detected at concentrations exceeding the NYSDEC TOGS 1.1.1 Class GA groundwater screening criteria for all four (4) quarterly sampling events, for all the overburden wells. Chloride was detected above the NYSDEC groundwater screening criteria in only two (2) overburden wells (SWMW-30 and SWMW-31) at least once during quarterly sampling activities.

In general, VOC concentrations were also observed to fluctuate over the course of the year with the direction varying between individual wells.

A summary of the water level elevations is included in Table 1, while a summary of quarterly groundwater analytical results are provided in Table 2.

DUSRs for all four (4) quarterly well sampling events are provided in Appendix A, groundwater sampling records are provided in Appendix B, analytical data packages are included as Appendix C, and GIS iso-concentration figures for all four (4) sampling quarters are provided in Appendix D. Appendix E includes graphs for DTW measurements collected from wells during sampling activities, pre and post sampling dissolved oxygen and redox potential measurements, VOC concentrations, and natural attenuation parameters.

3.7 ANALYTICAL DATA COMPARISON

Four parameters (benzene, vinyl chloride, trichloroethene, and chlorobenzene) from the 2014 quarterly sampling events were plotted on a concentration contour map using a GIS based groundwater mapping program. These four parameters were chosen because they represent the top four parameters of concern based on health risk criteria (e.g., carcinogenic parameters) that exist at the Site. GIS figures generated were 2-dimensional plan view iso-concentration contours with color-intensity fill. Figures were generated for each of the four parameters for each of the quarterly sampling events (figures are included in Appendix D). Parameters were mapped for both overburden and bedrock aquifers. The concentration distributions (i.e., maximum concentration and lateral extent of plume) were compared against one another to determine

whether parameter concentrations and lateral extent were stable, growing, or shrinking. In addition, graphs were produced showing chemical trend analysis for the four parameters mentioned above for chemical data collected from 2008, 2010, 2012, 2013, and 2014. Upon review of the iso-concentration contour figures and the trend analysis graphs (See Appendix E), it was concluded that natural attenuation through biodegradation of the organic parameters could be one of the contributors taking place at the Site assisting in the natural reduction of contaminants, but at an extremely slow rate. This conclusion was based on the observed fluctuations of the VOC concentrations and observed plume extents (boundaries) throughout the course of the year (e.g., plume extents either stayed the same or shrank slightly) and from VOC concentration fluctuations observed from 2008 through 2014 trend analysis graphs (General observation of VOC data showed either a general decrease in concentrations or a constant value concentration through the years with periodic increases.).

Additional evidence showing that natural attenuation through biodegradation could be one of the contributors occurring within the groundwater at the site at a certain rate is presented in the graphs of natural attenuation parameters included in Appendix E. Parameter graphs suggest that the potential for biodegradation of groundwater VOCs is taking place under both aerobic (presence of oxygen) and anaerobic (low, or no, oxygen present) conditions as determined through the presence of dissolved oxygen (DO). In general, DO measurements of less than 1.0 part per million (ppm) suggest anaerobic conditions, while DO measurements greater than 1.0 ppm suggest aerobic conditions. Reduction-oxidation (Redox) potential measurements also suggested that biodegradation could be taking place under both conditions. Positive redox potential measurements indicate chemically oxidizing conditions (presence of oxygen), while negative measurements indicate chemically reducing conditions (lack of oxygen) in which microbial processes are taking place.

Other parameters that can indicate favorable conditions for biodegradation are nitrate, ferrous iron, sulfate, manganese, carbon dioxide, chloride, and alkalinity. Changes in nitrate and sulfate concentrations can indicate the presence of microbial processes, while increases in ferrous iron and manganese are indicative of reducing redox conditions. These parameters, in general, suggested biodegradation was taking place. The general presence of alkalinity, carbon dioxide, and chloride at significant concentrations also suggest that biodegradation is occurring. Alkalinity is a byproduct of benzene biodegradation (main contaminant at the WATF Area), while carbon dioxide and chloride are end-products of reductive dechlorination.

SECTION 4

CONCLUSIONS AND RECOMMENDATIONS

4.1 INTRODUCTION

The purpose of this section is to present conclusions for each area in which groundwater wells were sampled quarterly throughout 2014 and provide recommendations for future sampling/field event(s).

4.2 QUARTERLY GROUNDWATER SAMPLING PROGRAM CONCLUSIONS

Based on reviewing analytical results summarized in Section 3 and graphs presented in Appendix E, the following conclusions were made:

- VOCs, manganese, and chloride exist at concentrations both in overburden and bedrock wells that exceed the NYSDEC TOGS 1.1.1 Class GA groundwater screening criteria.
- In general, DTW in wells was shallowest during the spring and deepest during the summer.
- In general, VOC concentrations were observed to fluctuate over the course of the year with the direction varying between individual wells.
- Groundwater plume boundaries either stayed the same or decreased slightly over the course of 2014.
- Natural attenuation through biodegradation could be one of the contributing factors allowing natural reduction of groundwater contaminants to take place under both aerobic and anaerobic conditions.

4.3 RECOMMENDATIONS

Based on the aforementioned conclusions, it is recommended that another year of quarterly well sampling be performed at the Site to obtain additional seasonal groundwater data in order to better evaluate the degree natural attenuation through biodegradation of the organic parameters taking place at the Site and the rate it is occurring. These additional data will ultimately assist in the refinement of the site conceptual model(s) and assist in identifying potential remedial alternatives for the site.

SECTION 5

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TABLES

TABLE 1
DEPTH TO WATER SUMMARY TABLE
2014 QUARTERLY GROUNDWATER SAMLING EVENTS
Former Texaco Research Center
Beacon, New York

Field Parameter Measurement Units Date Measured		DTW Ft 03/18/2014	DTW Ft 03/19/2014	DTW Ft 03/21/2014	DTW Ft 03/25/2014	DTW Ft 03/26/2014	DTW Ft 03/27/2014	DTW Ft 06/02/2014	DTW Ft 06/03/2014	DTW Ft 06/04/2014	DTW Ft 06/05/2014	DTW Ft 06/09/2014	DTW Ft 09/15/2014	DTW Ft 09/16/2014	DTW Ft 09/17/2014	DTW Ft 09/18/2014	DTW Ft 11/03/2014	DTW Ft 11/04/2014	DTW Ft 11/05/2014	DTW Ft 11/06/2014	DTW Ft 11/10/2014
Location ID	Top of Casing Elev. (ft)																				
GT-2	(216.93) ⁽¹⁾	4.11 (212.82) ⁽²⁾	--	--	--	--	--	--	--	--	--	--	5.54 (211.39) ⁽²⁾	--	--	--	5.4 (211.39) ⁽²⁾	--	--	--	--
ITMW-5	(220.18) ⁽¹⁾	--	--	--	--	--	12.38 (207.80) ⁽²⁾	--	--	--	--	--	--	--	--	--	--	--	--	--	
ITMW-6	(220.16) ⁽¹⁾	--	--	--	--	21.02 (199.14) ⁽²⁾	--	--	--	--	--	22.5 (197.66) ⁽²⁾	--	--	23.57 (196.59) ⁽²⁾	--	--	--	23.21 (196.95) ⁽²⁾	--	
ITMW-13	(216.58) ⁽¹⁾	7.6 (208.98) ⁽²⁾	--	--	--	--	--	--	--	10.38 (206.20) ⁽²⁾	--	--	12.6 (203.98) ⁽²⁾	--	--	--	8.92 (207.66) ⁽²⁾	--	--	--	--
ITMW-14	(216.56) ⁽¹⁾	5.45(211.11) ⁽²⁾	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
ITMW-24	(236.98) ⁽¹⁾	--	--	6.74 (230.24) ⁽²⁾	--	--	--	8.6 (228.38) ⁽²⁾	--	--	--	--	--	--	--	--	--	--	--	--	
ITMW-25	(232.09) ⁽¹⁾	--	--	10.24 (221.85) ⁽²⁾	--	--	--	12.03 (220.06) ⁽²⁾	--	--	--	--	--	13.04 (219.05) ⁽²⁾	--	--	--	11.9 (220.19) ⁽²⁾	--	--	
ITMW-30	(231.55) ⁽¹⁾	--	6.86 (224.69) ⁽²⁾	--	--	--	--	--	--	--	--	--	--	--	--	9.52 (222.03) ⁽²⁾	--	--	--	--	
ITMW-31	(232.12) ⁽¹⁾	--	6.02 (226.10) ⁽²⁾	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SWMW-2	(216.56) ⁽¹⁾	4.85(211.71) ⁽²⁾	--	--	--	--	--	--	--	--	6.01 (210.55) ⁽²⁾	--	7.22 (209.34) ⁽²⁾	--	--	--	6.55 (210.01) ⁽²⁾	--	--	--	
SWMW-10	(231.19) ⁽¹⁾	--	--	9.00 (222.19) ⁽²⁾	--	--	--	3.95 (227.24) ⁽²⁾	--	--	--	--	--	5.56 (225.63) ⁽²⁾	--	--	--	4.46 (226.73) ⁽²⁾	--	--	
SWMW-13	(236.34) ⁽¹⁾	--	--	46.96 (189.38) ⁽²⁾	--	--	--	--	--	--	--	48.19 (188.15) ⁽²⁾	--	--	--	--	--	--	--	--	
SWMW-14	(206.23) ⁽¹⁾	--	--	--	--	8.87 (197.36) ⁽²⁾	--	--	--	--	9.37 (196.86) ⁽²⁾	--	--	--	9.77 (196.46) ⁽²⁾	--	--	--	9.91 (196.32) ⁽²⁾	--	
SWMW-15	(220.97) ⁽¹⁾	--	--	--	--	--	14.6 (206.37) ⁽²⁾	--	--	--	--	15.55 (205.42) ⁽²⁾	--	--	19.67 (201.30) ⁽²⁾	--	--	--	18.1 (202.87) ⁽²⁾	--	
SWMW-21	(206.11) ⁽¹⁾	--	--	--	5.6 (200.51) ⁽²⁾	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SWMW-25	(232.61) ⁽¹⁾	--	--	3.5 (229.11) ⁽²⁾	--	--	--	5.06 (227.55) ⁽²⁾	--	--	--	--	--	--	--	--	--	--	--	--	
SWMW-28	(185.61) ⁽¹⁾	--	--	9.14 (176.47) ⁽²⁾	--	--	--	--	9.88 (175.73) ⁽²⁾	--	--	--	--	--	--	10 (175.61) ⁽²⁾	--	9.81 (175.80) ⁽²⁾	--	--	
SWMW-30	(205.44) ⁽¹⁾	--	--	--	8.00 (197.44) ⁽²⁾	--	--	--	8.63 (196.81) ⁽²⁾	--	--	--	--	--	--	--	--	--	--	9.04 (196.40) ⁽²⁾	
SWMW-31	(203.82) ⁽¹⁾	--	--	--	6.35 (197.47) ⁽²⁾	--	--	--	6.98 (196.84) ⁽²⁾	--	--	--	--	--	--	7.46 (196.36) ⁽²⁾	--	--	--	7.34 (196.48) ⁽²⁾	
SWMW-41	(206.02) ⁽¹⁾	--	--	--	--	8.31 (197.71) ⁽²⁾	--	--	--	--	10.02 (196.00) ⁽²⁾	--	--	--	9.78 (196.24) ⁽²⁾	--	--	--	11.96 (194.06) ⁽²⁾	--	
SWMW-44	(231.53) ⁽¹⁾	--	--	3.25 (228.28) ⁽²⁾	--	--	--	4.02 (227.51) ⁽²⁾	--	--	--	--	--	5.68 (225.85) ⁽²⁾	--	--	--	4.5 (227.03) ⁽²⁾	--	--	
SWMW-45	(229.99) ⁽¹⁾	--	12.14 (217.85) ⁽²⁾	--	--	--	--	--	--	13.72 (216.27) ⁽²⁾	--	--	15.79 (214.20) ⁽²⁾	--	--	--	15 (214.99) ⁽²⁾	--	--	--	
SWMW-48	(228.60) ⁽¹⁾	--	--	6.07 (222.53) ⁽²⁾	--	--	--	6.31 (222.29) ⁽²⁾	--	--	--	--	--	6.7 (221.90) ⁽²⁾	--	--	--	6.3 (222.30) ⁽²⁾	--	--	
SWMW-55	(230.19) ⁽¹⁾	--	13.91 (216.28) ⁽²⁾	--	--	--	--	--	--	15.75 (214.44) ⁽²⁾	--	--	17.22 (212.97) ⁽²⁾	--	--	--	16.22 (213.97) ⁽²⁾	--	--	--	
SWMW-56	(221.09) ⁽¹⁾	--	--	--	--	--	19.45 (201.64) ⁽²⁾	--	--	--	--	21.22 (199.87) ⁽²⁾	--	--	24.11 (196.98) ⁽²⁾	--	--	--	23.45 (197.64) ⁽²⁾	--	
SWMW-58	(219.38) ⁽¹⁾	--	--	--	--	12.36 (207.02) ⁽²⁾	--	--	--	--	--	13.13 (206.25) ⁽²⁾	--	--	14.09 (205.29) ⁽²⁾	--	--	--	13.4 (205.98) ⁽²⁾	--	
SWMW-62	(206.07) ⁽¹⁾	--	--	--	--	8.37 (197.70) ⁽²⁾	--	--	--	--	8.99 (197.08) ⁽²⁾	--	--	--	9.69 (196.38) ⁽²⁾	--	--	--	--	9.46 (196.61) ⁽²⁾	
SWMW-65	(185.81) ⁽¹⁾	--	--	8.14 (177.67) ⁽²⁾	--	--	--	--	8.92 (176.89) ⁽²⁾	--	--	--	--	--	--	9.61 (176.20) ⁽²⁾	--	8.86 (176.95) ⁽²⁾	--	--	
SWMW-66	(218.82) ⁽¹⁾	--	--	--	--	18.6 (200.22) ⁽²⁾	--	--	--	--	--	19.8 (199.02) ⁽²⁾	--	--	--	--	--	--	21.41 (197.41) ⁽²⁾	--	
SWMW-67	(224.58) ⁽¹⁾	--	--	11.6 (212.98) ⁽²⁾	--	--	--	--	--	--	--	15.53 (209.05) ⁽²⁾	--	17.52 (207.06) ⁽²⁾	--	--	--	--	16.22 (208.36) ⁽²⁾	--	
SWMW-68	(224.45) ⁽¹⁾	--	--	23.45 (201.00) ⁽²⁾	--	--	--	--	--	--	--	27.72 (196.86) ⁽²⁾	--	--	28.2 (196.38) ⁽²⁾	--	--	--	27.96 (196.62) ⁽²⁾	--	
SWMW-71	(207.54) ⁽¹⁾	--	--	--	6.94 (200.60) ⁽²⁾	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	
SWMW-103	(217.08) ⁽¹⁾	--	--	19.72 (197.36) ⁽²⁾	--	--	--	--	--	--	--	20.19 (196.89) ⁽²⁾	--	--	--	--	--	--	--	--	
SWMW-111	(217.92) ⁽¹⁾	--	--	18.8 (199.12) ⁽²⁾	--	--	--	--	--	--	--	20.88 (197.04) ⁽²⁾	--	21.82 (196.10) ⁽²⁾	--	--	--	21.67 (196.25) ⁽²⁾	--	--	
SWMW-112	(206.72) ⁽¹⁾	--	--	--	--	8.35 (198.37) ⁽²⁾	--	--	--	--	9 (197.72) ⁽²⁾	--	--	--	10.8 (195.92) ⁽²⁾	--	--	--	10.38 (196.34) ⁽²⁾	--	
SWMW-113	(206.48) ⁽¹⁾	--	--	--	--	9.01 (197.47) ⁽²⁾	--	--	--	--	9.5 (196.98) ⁽²⁾	--	--	--	10.17 (196.31) ⁽²⁾	--	--	--	10 (196.48) ⁽²⁾	--	
SWMW-114	(219.07) ⁽¹⁾	13.15 (205.92) ⁽²⁾	--	--	--	--	--	--	--	15.54 (203.53) ⁽²⁾	--	--	16.72 (202.35) ⁽²⁾	--	--	--	16.44 (202.63) ⁽²⁾	--	--	--	
SWMW-123	(230.39) ⁽¹⁾	--	15.88 (214.51) ⁽²⁾	--	--	--	--	--	--	17.05 (213.34) ⁽²⁾	--	--	--	18.61 (211.78) ⁽²⁾	--	--	18.3 (212.09) ⁽²⁾	--	--	--	
SWMW-125	(219.63) ⁽¹⁾	10.66 (208.97) ⁽²⁾	--	--	--	--	--	--	--	13.52 (206.11) ⁽²⁾	--	--	14.72 (204.91) ⁽²⁾	--	--	--	14.21 (205.42) ⁽²⁾	--	--	--	
SWMW-126	(206.44)(1)	--	--	--	--	8.29 (198.15) ⁽²⁾	--	--	--	--	6.72 (199.72) ⁽²⁾	--	--	--	9.72 (196.72) ⁽²⁾	--	--	--	10.4 (196.04) ⁽²⁾	--	
Unknown Well 1	(216.73) ⁽¹⁾	4.03 (212.70) ⁽²⁾	--	--	--	--	--	--	5.92 (210.81) ⁽²⁾	--	--	--	7.41 (209.32) ⁽²⁾	--	--	--	--	--	--	--	
Unknown Well 2	(216.52) ⁽¹⁾	4.07 (212.45) ⁽²⁾	--	--	--	--	--	--	5.79 (210.73) ⁽²⁾	--	--	--	--	--	--	--	6.82 (209.70) ⁽²⁾	--	--	--	
Unknown Well 3	(216.74) ⁽¹⁾	4.25 (212.49) ⁽²⁾	--	--	--	--	--	--	5.84 (210.90) ⁽²⁾	--	--	--	--	--	--	--	--	--	--	--	

Note:

DTW - Depth to Water

FT - Feet

-- DTW not measured

Elev. - Elevation

(1) Top casing elevation referenced to site vertical datum established by Texaco in 1957.

(2) Depth to water and corresponding groundwater elevation.

TABLE 2
2014 QUARTERLY GROUNDWATER SAMPLING EVENTS
ANALYTICAL SUMMARY TABLE
Former Texaco Research Center
Beacon, New York

				Location Group	Building 58/83/36 Area	Building 58/83/36 Area	Building 58/83/36 Area	Building 58/83/36 Area	Building 58/83/36 Area	Building 58/83/36 Area	Building 58/83/36 Area	Building 58/83/36 Area	Building 58/83/36 Area	Building 58/83/36 Area
				Location	GT-2	GT-2	GT-2	GT-2	Unknown Well 1	Unknown Well 1	Unknown Well 1	Unknown Well 1	Unknown Well 2	Unknown Well 2
				Field Sample ID	GT-2-031914	GT-2-060414	CVX-0030-02	CVX-0034-10	UNK-1-031914	UNK-01-060414	CVX-0030-01	CVX-0034-08	UNK-2-031914	UNK-02-060414
				Sample Date	3/19/2014	6/4/2014	9/16/2014	11/4/2014	3/19/2014	6/4/2014	9/16/2014	11/4/2014	3/19/2014	6/4/2014
				Sample Delivery Group	1460835	1479522	1503937	1516213	1460835	1479522	1503937	1516213	1460835	1479522
				Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
				Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
				Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
				NYSDEC ⁽¹⁾										
Analytical Method	Parameter Name	Units	NY_TOGS	Filtered										
EPA 300.0	Chloride	mg/l	250	N	109	127	91.8	81	136	79.8	66.1	62.4	120	74.9
EPA 300.0	Nitrate as nitrogen	ug/l	NS	N	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
EPA 300.0	Sulfate	mg/l	250	N	2.5 J	1.5 U	2.6 J	2 J	1.5 U	3.3 J	1.5 U	1.5 U	6.1 J+	5.2
RSKSOP-175 modified	Ethane	ug/l	NS	N	2.3 J	3.1 J	5.5	3.2 J	1 U	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Ethene	ug/l	NS	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	NS	N	4400	5100	3900	4300	4.1 J	150	370	35	4.1 J	12
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	NS	N	194000	216000	203000	214000	101000	110000	135000	143000	84000	99200
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	NS	N	43100	57700	46800	49400	22100	10600	25900	15700	3700	10900
SM 4500-S2 D-2000	Sulfide, Total	ug/l	NS	N	64 J	77 J	130 J	54 U	54 U	130 J	54 U	54 U	54 U	54 U
SW-846 6010C	Manganese	mg/l	0.3	N	[2.51]	[2.45]	[1.77]	[2.12]	[6.16]	[3.16]	[6.27]	[5.47]	[2.99]	[1.93]
SW-846 8260C	Benzene	ug/l	1	N	[150]	[220]	[120]	[160]	[3] J	0.5 U	0.5 U	0.5 U	0.8 J	0.5 U
SW-846 8260C	Chlorobenzene	ug/l	5	N	[260]	[340]	[300]	[330]	[820]	[140]	[160]	[150]	[150]	[38]
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	5	N	0.8 U	0.5 U	0.5 U	0.5 U	0.8 U	0.5 U	0.5 U	0.6 J	0.8 U	0.5 U
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	5	N	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 J	1 U	0.5 U
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	2	N	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	NS	N	170000	130000	120000	120000	120000	76000	140000	120000	130000	76000

TABLE 2
2014 QUARTERLY GROUNDWATER SAMPLING EVENTS
ANALYTICAL SUMMARY TABLE
Former Texaco Research Center
Beacon, New York

				Location Group Location	Building 58/83/36 Area Unknown Well 2	Building 58/83/36 Area Unknown Well 3	Building 58/83/36 Area Unknown Well 3	Building 58/83/36 Area ^(*) SWMW-114	Building 58/83/36 Area SWMW-114	Building 58/83/36 Area SWMW-114	Building 58/83/36 Area SWMW-114	Building 58/83/36 Area SWMW-114	Building 58/83/36 Area SWMW-125	Building 58/83/36 Area SWMW-125
				Field Sample ID	CVX-0034-09	UNK-3-031914	UNK-03-060414	SWMW-1114-031914	SWMW-114-031914	SWMW-114-060514	CVX-0030-03	CVX-0034-05	SWMW-125-031914	SWMW-125-060514
				Sample Date	11/4/2014	3/19/2014	6/4/2014	3/19/2014	3/19/2014	6/5/2014	9/16/2014	11/4/2014	3/19/2014	6/5/2014
				Sample Delivery Group	1516213	1460835	1479522	1460835	1460835	1479931	1503937	1516213	1460835	1479931
				Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
				Sample Purpose	Regular sample	Regular sample	Regular sample	Field Duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
					Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
				NYSDEC ⁽¹⁾	Sample Type Filtered									
Analytical Method	Parameter Name	Units	NY_TOGS											
EPA 300.0	Chloride	mg/l	250	N	166	234	87.8	45.3	44.8	37 J+	51.6 J-	62.5	89.8	45.1 J+
EPA 300.0	Nitrate as nitrogen	ug/l	NS	N	370 J	250 U	250 U	250 U	250 U	260 J	340 J	450 J	250 U	250 U
EPA 300.0	Sulfate	mg/l	250	N	7.2	9 J+	3.8 J	16.2 J+	16.3 J+	15.7	17.5	17.7	5.9 J+	4.7 J
RSKSOP-175 modified	Ethane	ug/l	NS	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 J	1.4 J
RSKSOP-175 modified	Ethene	ug/l	NS	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	NS	N	3 U	140	85	41	45	27	24	21	530	560
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	NS	N	NA	82300	108000	149000	147000	146000	146000	146000	135000	149000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	NS	N	NA	9400	9100	13 J	10 U	87 J	10 U	10 U	2100	1800
SM 4500-S2 D-2000	Sulfide, Total	ug/l	NS	N	NA	54 U	54 U	54 U	54 U	54 U	54 U	54 U	54 U	54 U
SW-846 6010C	Manganese	mg/l	0.3	N	NA	[2.28]	[1.86]	[0.361]	[0.343]	[0.403]	[0.315]	[0.535]	[4.91]	[4.61]
SW-846 8260C	Benzene	ug/l	1	N	0.5 U	0.6 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	[3] J	[5]
SW-846 8260C	Chlorobenzene	ug/l	5	N	[22]	[55]	4	[12]	[12]	[16]	[10]	[12]	[210]	[300]
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	5	N	0.5 U	0.9 J	0.5 U	3 J	3 J	3	3	3	[60]	[88]
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	5	N	0.5 U	1 U	0.5 U	[180]	[180]	[240]	[240]	[260]	[260]	[300]
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	2	N	0.5 U	1 U	0.5 U	1 U	1 U	0.5 U	0.5 U	0.5 U	[3] J	[5]
SW8015D	CARBON DIOXIDE	ug/l	NS	N	130000	110000	68000	18000	19000	18000	18000	17000	41000	43000

TABLE 2
2014 QUARTERLY GROUNDWATER SAMPLING EVENTS
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Former Texaco Research Center
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				Location Group	Building 58/83/36 Area	Building 58/83/36 Area ⁽¹⁾	Building 58/83/36 Area	Building 58/83/36 Area	Building 58/83/36 Area	Building 58/83/36 Area	Building 58/83/36 Area	Building 58/83/36 Area	Building 58/83/36 Area	Building 58/83/36 Area
				Location	SWMW-125	SWMW-125	SWMW-125	SWMW-2	SWMW-2	SWMW-2	SWMW-2	SWMW-2	ITMW-13	ITMW-13
				Field Sample ID	CVX-0030-04	CVX-0030-05	CVX-0034-07	SWMW-2-031914	SWMW-2-060614	CVX-0030-06	CVX-0034-01	ITMW-13-031914	ITMW-13-060514	CVX-0030-07
				Sample Date	9/16/2014	9/16/2014	11/4/2014	3/19/2014	6/6/2014	9/16/2014	11/4/2014	3/19/2014	6/5/2014	9/16/2014
				Sample Delivery Group	1503937	1503937	1516213	1460835	1480247	1503937	1516213	1460835	1479931	1503937
				Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
				Sample Purpose	Regular sample	Field Duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
					Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
				NYSDEC ⁽¹⁾										
Analytical Method	Parameter Name	Units	NY_TOGS	Sample Type	Filtered									
EPA 300.0	Chloride	mg/l	250	N		52.1	53.1	67.7	[926]	[700]	[313]	153	[1460]	[613] J+
EPA 300.0	Nitrate as nitrogen	ug/l	NS	N		250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
EPA 300.0	Sulfate	mg/l	250	N		4.4 J	4.5 J	5.6	20.6 J+	8.5 J+	4.8 J	15	16.1 J+	2.4 J
RSKSOP-175 modified	Ethane	ug/l	NS	N		1.4 J	1.3 J	1.9 J	1 U	1 U	2.3 J	1 U	1 U	1 U
RSKSOP-175 modified	Ethene	ug/l	NS	N		1.3 J	1.2 J	1.5 J	1 U	1 U	1.1 J	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	NS	N		320	260	790	38	110	520	86	290	23
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	NS	N		166000	166000	152000	162000	219000	309000	318000	78700	119000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	NS	N		1600	1400	1600	5800	4900	3500	4300 J+	8100	1000
SM 4500-S2 D-2000	Sulfide, Total	ug/l	NS	N		54 U	54 U	54 U	54 U	54 U	57 J	54 U	54 U	54 U
SW-846 6010C	Manganese	mg/l	0.3	N		[4.43]	[4.24]	[5.35]	[2.67]	[2.06]	[1.39]	[1.43]	[8.33]	[2.04]
SW-846 8260C	Benzene	ug/l	1	N		[3]	[3]	[3]	0.9 J	[1]	[1]	0.6 J	0.8 J	0.9 J
SW-846 8260C	Chlorobenzene	ug/l	5	N		[260]	[220]	[290]	[150]	[130]	[56]	[93]	[180]	[54]
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	5	N		[110]	[96]	[100]	3 J	2	3	4	0.8 U	4
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	5	N		[270]	[230]	[260]	1 U	0.5 U	1	2	1 U	0.5 U
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	2	N		[6]	[5]	[7]	1 U	[3]	[5]	[3]	1 U	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	NS	N		46000	51000	62000	62000	66000	79000	80000	120000	81000

TABLE 2
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				Location Group	Building 58/83/36 Area	Building 58/83/36 Area ⁽¹⁾	Building 58/83/36 Area	Building 58/83/36 Area	Building 58/83/36 Area	Building 58/83/36 Area	Building 58/83/36 Area	Building 58/83/36 Area	Building 58/83/36 Area	Building 58/83/36 Area
				Location	ITMW-13	ITMW-13	ITMW-14	SWMW-123	SWMW-123	SWMW-123	SWMW-123	SWMW-123	SWMW-55	SWMW-55
				Field Sample ID	CVX-0034-02	CVX-0034-12	ITMW-14-060514	SWMW-123-032014	SWMW-123-060514	CVX-0031-05	CVX-0034-06	SWMW-55-032014	SWMW-55-060514	CVX-0030-09
				Sample Date	11/4/2014	11/4/2014	6/5/2014	3/20/2014	6/5/2014	9/17/2014	11/4/2014	3/20/2014	6/5/2014	9/16/2014
				Sample Delivery Group	1516213	1516213	1479931	1461101	1479931	1504322	1516213	1461101	1479931	1503937
				Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
				Sample Purpose	Regular sample	Field Duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
				Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
				NYSDEC ⁽¹⁾	NY_TOGS	Filtered								
EPA 300.0	Chloride	mg/l	250	N	[422]	[433]	29.5 J+	112	98.4 J+	108	106	26.5	89.5 J+	67.1
EPA 300.0	Nitrate as nitrogen	ug/l	NS	N	250 U	250 U	250 U	250 U	250 U	260 J	250 U	1700	470 J	250 U
EPA 300.0	Sulfate	mg/l	250	N	15.3	15.5	1.5 U	19.6	24.9	30.2	19.2	14.1	6.1	2.5 J
RSKSOP-175 modified	Ethane	ug/l	NS	N	1 U	1 U	3.2 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Ethene	ug/l	NS	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	NS	N	6.2 J	14 J	1500	74	3 U	3 U	70	3 U	1700	910
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	NS	N	178000	177000	124000	261000	283000	263000	287000	102000	230000	234000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	NS	N	1600	1800	3300	920	130	77	23 J	92 J	840	2400
SM 4500-S2 D-2000	Sulfide, Total	ug/l	NS	N	54 U		54 U	54 U	54 U	54 U	54 U	54 U	54 U	54 U
SW-846 6010C	Manganese	mg/l	0.3	N	[2.88]	[2.89]	[3.95]	0.263	0.0677	0.0192	0.218	[2.99]	[3.58]	[4.16]
SW-846 8260C	Benzene	ug/l	1	N	0.5 U	0.5 U	0.5 U	[1] J	0.5 U	0.5 U	0.6 J	0.5 J	[3]	0.5 U
SW-846 8260C	Chlorobenzene	ug/l	5	N	[36]	[38]	[59]	[96]	4	1 J	[69]	[460]	[1800]	[290]
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	5	N	0.5 U	0.5 U	1	0.8 U	0.5 U	0.5 U	0.5 U	0.8 U	1 U	0.5 U
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	5	N	0.5 U	0.5 U	2	1 U	0.5 U	0.5 U	0.5 U	1 U	1 U	0.5 U
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	2	N	0.5 U	0.5 U	0.9 J	1 U	0.5 U	0.5 U	0.5 U	1 U	1 U	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	NS	N	120000	120000	70000	28000	27000	21000	37000	41000	96000	110000

TABLE 2
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				Location Group	Building 58/83/36 Area	Building 58/83/36 Area	Building 58/83/36 Area	Building 58/83/36 Area	Building 58/83/36 Area	Building 58/83/36 Area	Building 58/83/36 Area	Building 45/55 Area	Building 45/55 Area ⁽¹⁾	Building 45/55 Area
				Location	Building 58/83/36 Area SWMW-55	Building 58/83/36 Area SWMW-45	Building 58/83/36 Area SWMW-45	Building 58/83/36 Area SWMW-45	Building 58/83/36 Area SWMW-45	Building 58/83/36 Area ITMW-30	Building 58/83/36 Area ITMW-31	Building 58/83/36 Area SWMW-65	Building 58/83/36 Area SWMW-65	Building 58/83/36 Area SWMW-65
				Field Sample ID	CVX-0034-04	SWMW-45-032014	SWMW-45-060514	CVX-0030-08	CVX-0034-03	ITMW-30-032014	ITMW-31-032014	SWMW-65-032514	SWMW-165-060414	SWMW-65-060414
				Sample Date	11/4/2014	3/20/2014	6/5/2014	9/16/2014	11/4/2014	3/20/2014	3/20/2014	3/25/2014	6/4/2014	6/4/2014
				Sample Delivery Group	1516213	1461101	1479931	1503937	1516213	1461101	1461101	1462188	1479522	1479522
				Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
				Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field Duplicate	Regular sample
				Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
				NYSDEC ⁽¹⁾										
Analytical Method	Parameter Name	Units	NY_TOGS	Filtered										
EPA 300.0	Chloride	mg/l	250	N	70.6	91.5	89.4 J+	[430]	[293]	19.2	3.2	[822]	[250]	[251]
EPA 300.0	Nitrate as nitrogen	ug/l	NS	N	450 J	320 J	420 J	250 U	250 U	250 U	250 U	250 UJ	320 J	250 U
EPA 300.0	Sulfate	mg/l	250	N	11	22.7	7	1.5 U	1.5 U	11.9	2.2 J	37.5 J+	43.6	44
RSKSOP-175 modified	Ethane	ug/l	NS	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Ethene	ug/l	NS	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	NS	N	730 J	17	220	950	680	290	2300	3 U	3 U	3 U
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	NS	N	287000	113000	121000	169000	361000	119000	111000	140000	188000	186000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	NS	N	960	410	2500	1100	4000	550	1800	67 J	270	89 J
SM 4500-S2 D-2000	Sulfide, Total	ug/l	NS	N	54 U	54 U	54 U	54 U	54 U	54 U	660	220 U	54 U	54 U
SW-846 6010C	Manganese	mg/l	0.3	N	[3.5]	[1.38]	[1.42]	[1.92]	[2.53]	[1.97]	[1.35]	[4.69]	[1.9]	[1.74]
SW-846 8260C	Benzene	ug/l	1	N	[2]	0.5 U	0.5 U	0.5 U	0.5 J	0.5 U	[2] J	0.5 U	0.5 U	0.5 U
SW-846 8260C	Chlorobenzene	ug/l	5	N	[1300]	[19]	[53]	[70]	[82]	4 J	0.8 U	0.8 U	1	0.9 J
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	5	N	0.5 U	0.8 U	0.5 U	0.5 U	0.5 U	0.8 U	0.8 U	0.8 U	0.5 U	0.5 U
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	5	N	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	2	N	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	NS	N	100000	20000	39000	74000	100000	56000	42000	20000	17000	18000

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				Location Group	Building 45/55 Area	Building 45/55 Area	Building 45/55 Area	Building 45/55 Area	Building 45/55 Area	Building 45/55 Area	Building 45/55 Area	Building 45/55 Area	Building 45/55 Area	Building 45/55 Area
				Location	SWMW-65	SWMW-65	SWMW-28	SWMW-28	SWMW-28	SWMW-28	SWMW-10	SWMW-10	SWMW-10	SWMW-10
				Field Sample ID	CVX-0033-02	CVX-0035-06	SWMW-28-032514	SWMW-28-060514	CVX-0033-01	CVX-0035-03	SWMW-10-032514	SWMW-10-032614	SWMW-10-060314	CVX-0031-03
				Sample Date	9/19/2014	11/5/2014	3/25/2014	6/5/2014	9/19/2014	11/5/2014	3/25/2014	3/26/2014	6/3/2014	9/17/2014
				Sample Delivery Group	1504922	1516585	1462188	1479931	1504922	1516585	1462188	1462877	1479164	1504322
				Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
				Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
				Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
				NYSDEC ⁽¹⁾										
Analytical Method	Parameter Name	Units	NY_TOGS	Filtered										
EPA 300.0	Chloride	mg/l	250	N	213	177	248	[268] J+	[273] J-	[269]	[255]	NA	158	181
EPA 300.0	Nitrate as nitrogen	ug/l	NS	N	300 J	510	250 UJ	250 U	250 U	250 U	250 UJ	NA	250 U	250 U
EPA 300.0	Sulfate	mg/l	250	N	33.2	26.9	5.9 J+	9.4	6.3	9.6	33.3 J+	NA	2.5 J	1.9 J
RSKSOP-175 modified	Ethane	ug/l	NS	N	1 U	1 U	2.2 J	1.4 J	3.9 J	2.1 J	1.8 J	NA	1 U	9
RSKSOP-175 modified	Ethene	ug/l	NS	N	1 U	1 U	1 U	1 U	1 U	1 U	1.6 J	NA	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	NS	N	3 U	3 U	2000	1400	1900	1900	330	NA	74	2400
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	NS	N	210000	240000	229000	209000	223000	230000	344000	NA	334000	462000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	NS	N	780	10 U	15500	18800	22200	30400	1700	NA	3300	18300
SM 4500-S2 D-2000	Sulfide, Total	ug/l	NS	N	54 U	54 U	57 J	270 U	190	380 J	NA	54 U	54 U	54 U
SW-846 6010C	Manganese	mg/l	0.3	N	[1.58]	[2.82]	[1.86]	[1.98]	[2.41]	[3.12]	[0.808]	NA	[0.621]	[1.85]
SW-846 8260C	Benzene	ug/l	1	N	0.5 U	0.5 U	[3] J	[3]	[3]	[3]	[1] J	NA	[1]	[1]
SW-846 8260C	Chlorobenzene	ug/l	5	N	0.5 U	3	[17]	[22]	[27]	[25]	[250]	NA	[190]	[270]
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	5	N	0.5 U	0.5 U	0.8 U	0.5 U	0.5 U	0.5 U	[16]	NA	2	0.5 U
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	5	N	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	[27]	NA	1	0.5 U
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	2	N	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	[5] J	NA	0.5 U	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	NS	N	30000	32000	40000	37000	36000	35000	49000	NA	37000	71000

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				Location Group	Building 45/55 Area	Building 45/55 Area	Building 45/55 Area	Building 45/55 Area	Building 45/55 Area	Building 45/55 Area	Building 45/55 Area	Building 45/55 Area	Building 45/55 Area
				Location	SWMW-10	SWMW-48	SWMW-48	SWMW-48	SWMW-48	SWMW-25	SWMW-25	ITMW-25	ITMW-25
				Field Sample ID	CVX-0035-02	SWMW-48-032514	SWMW-48-060414	CVX-0031-02	CVX-0035-04	SWMW-25-032514	SWMW-25-060314	ITMW-25-032514	ITMW-25-060514
				Sample Date	11/5/2014	3/25/2014	6/4/2014	9/17/2014	11/5/2014	3/25/2014	6/3/2014	3/25/2014	6/5/2014
				Sample Delivery Group	1516585	1462188	1479522	1504322	1516585	1462188	1479164	1462188	1479931
				Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
				Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
				Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
				NYSDEC ⁽¹⁾									
Analytical Method	Parameter Name	Units	NY_TOGS	Filtered									
EPA 300.0	Chloride	mg/l	250	N	160	[879]	221	190	179	125	NA	157	152 J+
EPA 300.0	Nitrate as nitrogen	ug/l	NS	N	250 U	250 UJ	250 U	250 U	250 U	1500 J	590	250 UJ	250 U
EPA 300.0	Sulfate	mg/l	250	N	3.5 J	37.8 J+	15.1	2.4 J	37.1	105 J+	NA	24 J+	22
RSKSOP-175 modified	Ethane	ug/l	NS	N	9.6	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
RSKSOP-175 modified	Ethene	ug/l	NS	N	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	NS	N	3900	3 U	3 U	29	88	3 U	NA	140	99
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	NS	N	493000	241000	227000	317000	296000	124000	NA	277000	284000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	NS	N	1900	1000	1800	1100	1800	33 J	NA	2800	4100
SM 4500-S2 D-2000	Sulfide, Total	ug/l	NS	N	100 J	54 U	140 J	54 U	54 U	54 U	NA	54 U	54 U
SW-846 6010C	Manganese	mg/l	0.3	N	[0.892]	[2.18]	[0.506]	[0.657]	[0.782]	[0.745]	NA	[4.37]	[3.67]
SW-846 8260C	Benzene	ug/l	1	N	[1]	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	[340]	[480]
SW-846 8260C	Chlorobenzene	ug/l	5	N	[280]	[15]	0.5 U	[12]	[21]	0.8 U	NA	[63]	[77]
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	5	N	0.5 U	0.8 U	0.5 U	0.5 U	0.5 U	0.8 U	NA	0.8 U	0.5 U
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	5	N	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	NA	1 U	0.5 U
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	2	N	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	NA	1 U	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	NS	N	59000	43000	24000	43000	46000	24000	NA	32000	32000

TABLE 2
2014 QUARTERLY GROUNDWATER SAMPLING EVENTS
ANALYTICAL SUMMARY TABLE
Former Texaco Research Center
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				Location Group Location Field Sample ID Sample Date Sample Delivery Group Matrix Sample Purpose	Building 45/55 Area ITMW-25 CVX-0035-01 11/5/2014 1516585 WATER Regular sample Groundwater Sample	Building 45/55 Area SWMW-44 SWMW-44-032514 3/25/2014 1462188 WATER Regular sample Groundwater Sample	Building 45/55 Area SWMW-44 SWMW-44-060314 6/3/2014 1479164 WATER Regular sample Groundwater Sample	Building 45/55 Area SWMW-44 CVX-0031-04 9/17/2014 1504322 WATER Regular sample Groundwater Sample	Building 45/55 Area SWMW-44 CVX-0035-05 11/5/2014 1516585 WATER Regular sample Groundwater Sample	Building 45/55 Area ITMW-24 ITMW-24-032514 3/25/2014 1462188 WATER Regular sample Groundwater Sample	Building 45/55 Area ITMW-24 ITMW-24-060314 6/3/2014 1479164 WATER Regular sample Groundwater Sample
Analytical Method	Parameter Name	Units	NYSDEC ⁽¹⁾ NY_TOGS	Sample Type Filtered							
EPA 300.0	Chloride	mg/l	250	N	146	220	156	151	156	190	NA
EPA 300.0	Nitrate as nitrogen	ug/l	NS	N	250 U	250 UJ	250 U	250 U	250 U	250 UJ	250 U
EPA 300.0	Sulfate	mg/l	250	N	21.6	48.8 J+	9.5	61.5	27.7	163 J+	NA
RSKSOP-175 modified	Ethane	ug/l	NS	N	1 U	3.3 J	5.3	7.4	7.8	1 U	NA
RSKSOP-175 modified	Ethene	ug/l	NS	N	1 U	4.2 J	12	10	8.3	1 U	NA
RSKSOP-175 modified	Methane	ug/l	NS	N	470	720	470	1000	1700	34	NA
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	NS	N	290000	295000	309000	416000	454000	134000	NA
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	NS	N	700	1100	480	450	490	5700	NA
SM 4500-S2 D-2000	Sulfide, Total	ug/l	NS	N	54 U	110 J	400	680	54 U	190	NA
SW-846 6010C	Manganese	mg/l	0.3	N	[3.64]	[1.87]	[0.957]	[0.788]	[0.951]	[0.478]	NA
SW-846 8260C	Benzene	ug/l	1	N	[850]	[1] J	[2]	[1]	[1]	0.5 U	NA
SW-846 8260C	Chlorobenzene	ug/l	5	N	[200]	[170]	[250]	[240]	[270]	[12]	NA
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	5	N	0.5 U	[36]	[39]	[24]	[35]	0.8 U	NA
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	5	N	0.5 U	[190]	[170]	[79]	[170]	1 U	NA
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	2	N	0.5 U	[13]	[15]	[7]	[11]	1 U	NA
SW8015D	CARBON DIOXIDE	ug/l	NS	N	34000	49000	36000	54000	54000	50000	NA

TABLE 2
2014 QUARTERLY GROUNDWATER SAMPLING EVENTS
ANALYTICAL SUMMARY TABLE
Former Texaco Research Center
Beacon, New York

				Location Group	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area
				Location	SWMW-67	SWMW-67	SWMW-67	SWMW-67	SWMW-15	SWMW-15	SWMW-15	SWMW-15	SWMW-58
				Field Sample ID	SWMW-67-032514	SWMW-67-061014	CVX-0031-06	CVX-0036-05	SWMW-15-032814	SWMW-15-061014	CVX-0032-02	CVX-0036-01	SWMW-58-032714
				Sample Date	3/25/2014	6/10/2014	9/17/2014	11/6/2014	3/28/2014	6/10/2014	9/18/2014	11/6/2014	3/27/2014
				Sample Delivery Group	1462188	1480953	1504322	1516918	1463182	1480953	1504703	1516918	1462877
				Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
				Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
				Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
				NYSDEC ⁽¹⁾									
Analytical Method	Parameter Name	Units	NY_TOGS	Filtered									
EPA 300.0	Chloride	mg/l	250	N	7.7	10.1	8.5	7.9 J-	81.9	54.7	26.9	41.1	209
EPA 300.0	Nitrate as nitrogen	ug/l	NS	N	5100 J	3800	2200	1100 J	250 U	250 U	250 U	250 U	8200
EPA 300.0	Sulfate	mg/l	250	N	232 J+	193	184	131	67	88.6	132	106	53.9
RSKSOP-175 modified	Ethane	ug/l	NS	N	1 U	1 U	1 U	1 U	3.8 J	3.6 J	5.6	1 U	1 U
RSKSOP-175 modified	Ethene	ug/l	NS	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	NS	N	3 U	3 U	3 U	3 U	2500 J	2800	2900	430	3 U
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	NS	N	297000	351000	378000	375000	283000	292000	700 U	338000	275000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	NS	N	10 U	10 U	81	10 U	14000	24000	67000	9600	10 UJ
SM 4500-S2 D-2000	Sulfide, Total	ug/l	NS	N	54 U	54 U	54 U	54 U	220 U	54 U	1000	54 U	110 U
SW-846 6010C	Manganese	mg/l	0.3	N	[0.444]	0.103	[1.42]	[0.464] J+	[5.91]	[5.75]	[12.1]	[4.29]	[1.05] J
SW-846 8260C	Benzene	ug/l	1	N	0.5 U	0.5 U	0.5 U	0.5 U	[37]	[46]	[27]	[9]	0.5 UJ
SW-846 8260C	Chlorobenzene	ug/l	5	N	0.8 U	0.5 U	0.5 U	0.5 U	[280]	[260]	[120]	[150]	0.5 UJ
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	5	N	0.8 U	0.5 U	0.5 U	0.5 U	4	4	[5]	[6]	[17] J
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	5	N	[39]	[100]	[39]	[61]	3	2	4	4	[14] J
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	2	N	1 U	0.5 U	0.5 U	0.5 U	0.9 J	[2]	[2]	0.5 U	0.5 UJ
SW8015D	CARBON DIOXIDE	ug/l	NS	N	48000	52000	62000	56000	95000	87000	82000	92000	52000

TABLE 2
2014 QUARTERLY GROUNDWATER SAMPLING EVENTS
ANALYTICAL SUMMARY TABLE
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Beacon, New York

				Location Group	Building 51 Area ^(*)	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area ^(*)	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area
				Location	SWMW-58	SWMW-58	SWMW-58	SWMW-58	SWMW-58	SWMW-113	SWMW-113	SWMW-113	SWMW-113
				Field Sample ID	SWMW-1058-032714	SWMW-58-061014	CVX-0032-04	CVX-0036-03	CVX-0036-08	SWMW-113-032714	SWMW-113-060614	CVX-0032-08	CVX-0037-05
				Sample Date	3/27/2014	6/10/2014	9/18/2014	11/6/2014	11/6/2014	3/27/2014	6/6/2014	9/18/2014	11/7/2014
				Sample Delivery Group	1462877	1480953	1504703	1516918	1516918	1462877	1480247	1504703	1517227
				Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
				Sample Purpose	Field Duplicate	Regular sample	Regular sample	Regular sample	Field Duplicate	Regular sample	Regular sample	Regular sample	Regular sample
				Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
				NYSDEC ⁽¹⁾									
Analytical Method	Parameter Name	Units	NY_TOGS	Filtered									
EPA 300.0	Chloride	mg/l	250	N	[259]	119	191	95.8	137	[271]	245	228	127
EPA 300.0	Nitrate as nitrogen	ug/l	NS	N	7000	8500	8000	7600	7500	250 U	250 U	250 U	250 U
EPA 300.0	Sulfate	mg/l	250	N	58.1	46.6	74.2	43.5	49.8	51.9	50.2 J+	48.5	43.4
RSKSOP-175 modified	Ethane	ug/l	NS	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Ethene	ug/l	NS	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	NS	N	3 U	3 U	3 U	3 U	3 U	14	11	3 U	39
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	NS	N	294000	265000	301000	309000	306000	289000	280000	286000	309000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	NS	N	10 UJ	10 U	73	10 U	10 U	10 UJ	10 U	10 U	64
SM 4500-S2 D-2000	Sulfide, Total	ug/l	NS	N	110 U	54 U	54 U	54 U	54 U	54 U	54 U	54 U	54 U
SW-846 6010C	Manganese	mg/l	0.3	N	[2.02] J	[1.57]	[1.14]	[0.711]	[0.838]	[0.37]	[0.356]	[0.422]	[0.35]
SW-846 8260C	Benzene	ug/l	1	N	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U
SW-846 8260C	Chlorobenzene	ug/l	5	N	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.8 J	1	1	2
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	5	N	[34] J	[40]	[37]	[43]	[42]	[25] J	[57]	[24]	[15]
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	5	N	[22] J	[28]	[26]	[28]	[27]	[13] J	[24]	[8]	[9]
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	2	N	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.9 J	0.5 U	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	NS	N	52000	50000	56000	50000	43000	23000	25000	28000	32000

TABLE 2
2014 QUARTERLY GROUNDWATER SAMPLING EVENTS
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				Location Group	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area
				Location	SWMW-62	SWMW-62	SWMW-62	SWMW-62	SWMW-62	ITMW-5	SWMW-13	SWMW-13	SWMW-68
				Field Sample ID	SWMW-62-032714	SWMW-62-032814	SWMW-62-060614	CVX-0032-12	CVX-0037-03	ITMW-5-032814	SWMW-13-032514	SWMW-13-061014	SWMW-68-032514
				Sample Date	3/27/2014	3/28/2014	6/6/2014	9/18/2014	11/7/2014	3/28/2014	3/25/2014	6/10/2014	3/25/2014
				Sample Delivery Group	1462877	1463182	1480247	1504703	1517227	1463182	1462188	1480953	1462188
				Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
				Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
				Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
				NYSDEC ⁽¹⁾									
Analytical Method	Parameter Name	Units	NY_TOGS	Filtered									
EPA 300.0	Chloride	mg/l	250	N	56.7	NA	54.2	45.9	40.2	24.1	[439]	NA	66.9
EPA 300.0	Nitrate as nitrogen	ug/l	NS	N	560	NA	520 J+	500	610	10300	6900 J	7100	1400 J
EPA 300.0	Sulfate	mg/l	250	N	39.4	NA	37.9 J+	40.3	33.6	76	199 J+	NA	128 J+
RSKSOP-175 modified	Ethane	ug/l	NS	N	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U
RSKSOP-175 modified	Ethene	ug/l	NS	N	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	1 U
RSKSOP-175 modified	Methane	ug/l	NS	N	3 U	NA	3 U	3 U	3 U	3 U	3 U	NA	3 U
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	NS	N	259000	NA	235000	242000	275000	226000	361000	NA	273000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	NS	N	28 J	NA	10 U	10 U	34 J	4000	17 J	NA	10 U
SM 4500-S2 D-2000	Sulfide, Total	ug/l	NS	N		54 U	54 U	54 U	54 U	540 U	54 U	NA	54 U
SW-846 6010C	Manganese	mg/l	0.3	N	[1.59]	NA	[1.22]	[1.56]	[2.59]	[1.09]	0.0362	NA	0.0956
SW-846 8260C	Benzene	ug/l	1	N	0.5 UJ	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 J
SW-846 8260C	Chlorobenzene	ug/l	5	N	0.5 UJ	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.8 U	NA	0.8 U
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	5	N	2 J	NA	4	2	1 J	0.5 U	4 J	NA	[56]
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	5	N	[6] J	NA	[7]	[6]	4	[6]	[19]	NA	[340]
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	2	N	0.5 UJ	NA	0.5 U	0.5 U	0.5 U	0.5 U	1 U	NA	[3] J
SW8015D	CARBON DIOXIDE	ug/l	NS	N	42000	NA	32000	49000	39000	40000	55000	NA	26000

TABLE 2
2014 QUARTERLY GROUNDWATER SAMPLING EVENTS
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				Location Group	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area
				Location	SWMW-68	SWMW-68	SWMW-68	SWMW-56	SWMW-56	SWMW-56	SWMW-56	SWMW-56	SWMW-66
				Field Sample ID	SWMW-68-061014	CVX-0032-06	CVX-0036-06	SWMW-56-032814	SWMW-56-061014	CVX-0032-03	CVX-0036-02	SWMW-66-032714	SWMW-66-061014
				Sample Date	6/10/2014	9/18/2014	11/6/2014	3/28/2014	6/10/2014	9/18/2014	11/6/2014	3/27/2014	6/10/2014
				Sample Delivery Group	1480953	1504703	1516918	1463182	1480953	1504703	1516918	1462877	1480953
				Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
				Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
				Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
				NYSDEC ⁽¹⁾									
Analytical Method	Parameter Name	Units	NY_ TOGS	Filtered									
EPA 300.0	Chloride	mg/l	250	N	74	98	83.5	95.3	73.9	85.9	83.4	[652]	[373]
EPA 300.0	Nitrate as nitrogen	ug/l	NS	N	1100	700	640	250 U	250 U	250 U	1500	680	
EPA 300.0	Sulfate	mg/l	250	N	124	119	110	67.7	66.3	77.5	73.5	67.9	52
RSKSOP-175 modified	Ethane	ug/l	NS	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 J	1 U
RSKSOP-175 modified	Ethene	ug/l	NS	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	NS	N	3 U	3 U	3 U	100	3 U	4.3 J	23	18	
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	NS	N	265000	237000	251000	293000	290000	274000	288000	242000	213000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	NS	N	10 U	10 U	10 U	380	28 J	45 J	180	140 J-	10 U
SM 4500-S2 D-2000	Sulfide, Total	ug/l	NS	N	54 U	54 U	54 U	54 U	54 U	54 U	54 U	54 U	54 U
SW-846 6010C	Manganese	mg/l	0.3	N	0.189	[0.791]	0.0692	0.193	0.0958	0.0752	0.0887	[0.358]	0.0702
SW-846 8260C	Benzene	ug/l	1	N	0.5 U	0.5 U	0.5 U	[1]	[1]	[1]	[1]	[1] J	[2]
SW-846 8260C	Chlorobenzene	ug/l	5	N	0.5 U	0.5 U	0.5 U	0.7 J	0.8 J	0.9 J	0.7 J	2 J	2
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	5	N	[65]	[82]	[76]	[130]	[130]	[140]	[170]	[620] J	[800]
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	5	N	[370]	[390]	[390]	[280]	[300]	[290]	[290]	[280] J	[250]
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	2	N	[3]	[2]	1	[4]	[4]	[3]	[4]	[46] J	[54]
SW8015D	CARBON DIOXIDE	ug/l	NS	N	22000	20000	16000	25000	27000	26000	22000	33000	23000

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				Location Group	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area
				Location	SWMW-66	SWMW-66	SWMW-112	SWMW-112	SWMW-112	SWMW-112	SWMW-126	SWMW-126	SWMW-126
				Field Sample ID	CVX-0032-05	CVX-0036-04	SWMW-112-032714	SWMW-112-060614	CVX-0032-11	CVX-0037-04	SWMW-126-032714	SWMW-126-060614	CVX-0032-09
				Sample Date	9/18/2014	11/6/2014	3/27/2014	6/6/2014	9/18/2014	11/7/2014	3/27/2014	6/6/2014	9/18/2014
				Sample Delivery Group	1504703	1516918	1462877	1480247	1504703	1517227	1462877	1480247	1504703
				Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
				Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
				Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
				NYSDEC ⁽¹⁾									
Analytical Method	Parameter Name	Units	NY_TOGS	Filtered									
EPA 300.0	Chloride	mg/l	250	N	[872]	[1020]	[330]	[275]	[336]	[292] J-	189	211	175
EPA 300.0	Nitrate as nitrogen	ug/l	NS	N	1700	2200	250 U	250 U	250 U	250 UJ	250 U	250 U	250 U
EPA 300.0	Sulfate	mg/l	250	N	74.4 J+	74.3	34.6	34.4 J+	38.9	29.6 J-	27.8	25.4 J+	29.2
RSKSOP-175 modified	Ethane	ug/l	NS	N	1 U	1 U	3.5 J	1 U	1 U	1 U	1.2 J	3.9 J	3.2 J
RSKSOP-175 modified	Ethene	ug/l	NS	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	NS	N	17	4.6 J	460	45	7.8	3 U	59	430	280
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	NS	N	231000 J-	256000	256000	253000	255000	272000	267000	267000	267000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	NS	N	63	13 J	150 J-	81 J	92	98	10 UJ	10 U	59
SM 4500-S2 D-2000	Sulfide, Total	ug/l	NS	N	54 U	54 U	54 U	54 U	54 U	54 U	54 U	54 U	54 U
SW-846 6010C	Manganese	mg/l	0.3	N	0.168	0.0829	[0.314]	0.192	0.21	0.189	0.201	0.169	0.137
SW-846 8260C	Benzene	ug/l	1	N	[1]	0.8 J	[2] J	[2]	[2]	[2]	[3] J	[3]	[3]
SW-846 8260C	Chlorobenzene	ug/l	5	N	2	1 J	3 J	3	3	3	3 J	[5]	3
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	5	N	[560]	[440]	[520] J	[630]	[560]	[500]	[210] J	[280]	[210]
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	5	N	[270]	[250]	[280] J	[290]	[240]	[230]	[300] J	[250]	[230]
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	2	N	[29]	[11]	[13] J	[12]	[10]	[7]	[4] J	[12]	[8]
SW8015D	CARBON DIOXIDE	ug/l	NS	N	28000	35000	25000	25000	25000	28000	27000	27000	25000

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				Location Group	Building 51 Area	Building 51 Area	Building 51 Area ^(*)	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area
				Location	SWMW-126	SWMW-41	SWMW-41	SWMW-41	SWMW-41	SWMW-41	SWMW-41	SWMW-14	SWMW-14
				Field Sample ID	CVX-0037-06	SWMW-41-032714	SWMW-141-060614	SWMW-41-060614	CVX-0032-13	CVX-0037-02	SWMW-14-032714	SWMW-14-060614	CVX-0032-14
				Sample Date	11/7/2014	3/27/2014	6/6/2014	6/6/2014	9/18/2014	11/7/2014	3/27/2014	6/6/2014	9/18/2014
				Sample Delivery Group	1517227	1462877	1480247	1480247	1504703	1517227	1462877	1480247	1504703
				Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
				Sample Purpose	Regular sample	Regular sample	Field Duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
				Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
				NYSDEC ⁽¹⁾									
Analytical Method	Parameter Name	Units	NY_TOGS	Filtered									
EPA 300.0	Chloride	mg/l	250	N	181	246	228	224	225	204	187	234	154
EPA 300.0	Nitrate as nitrogen	ug/l	NS	N	250 U	250 U	250 U	250 U	250 U	3900	4200 J+	4200	
EPA 300.0	Sulfate	mg/l	250	N	21.9	32	31.9 J+	31.5 J+	36.9	29.8	73.1	88.4 J+	96.6
RSKSOP-175 modified	Ethane	ug/l	NS	N	2.3 J	3.1 J	3.1 J	3 J	2.9 J	2.3 J	1 U	1 U	1 U
RSKSOP-175 modified	Ethene	ug/l	NS	N	1 U	1.2 J	1 J	1 U	1 J	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	NS	N	170	370	310	340	280	210	3 U	3 U	3 U
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	NS	N	288000	268000	267000	266000	262000	285000 J-	292000	277000	292000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	NS	N	70	110 J-	150	120	120	23 J	20 J	10 U	18 J
SM 4500-S2 D-2000	Sulfide, Total	ug/l	NS	N	54 U	54 U	54 U	54 U	54 U	54 U	54 U	54 U	54 U
SW-846 6010C	Manganese	mg/l	0.3	N	0.135	0.294	0.23	0.239	0.239	0.218	0.023	0.0067 J	0.0136
SW-846 8260C	Benzene	ug/l	1	N	[3]	[25] J	[27]	[27]	[14] J-	[18]	0.5 UJ	0.5 U	0.5 U
SW-846 8260C	Chlorobenzene	ug/l	5	N	3	2 J	5 U	4 J	2 J-	3 U	0.5 UJ	0.5 U	0.5 U
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	5	N	[200]	[270] J	[370]	[380]	[270] J-	[230]	0.5 UJ	2	2
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	5	N	[260]	[220] J	[210]	[210]	[190] J-	[180]	[17] J	[22]	[16]
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	2	N	[7]	[31] J	[32]	[30]	[20] J-	[20]	0.5 UJ	0.5 U	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	NS	N	25000	29000	28000	29000	27000	29000	27000	25000	27000

TABLE 2
2014 QUARTERLY GROUNDWATER SAMPLING EVENTS
ANALYTICAL SUMMARY TABLE
Former Texaco Research Center
Beacon, New York

				Location Group	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area ^(*)	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area
				Location	SWMW-14	SWMW-103	SWMW-103	SWMW-111	SWMW-111	SWMW-111	SWMW-111	SWMW-111	SWMW-111
				Field Sample ID	CVX-0037-01	SWMW-103-032514	SWMW-103-061014	SWMW-111-032514	SWMW-1111-032514	SWMW-111-061014	CVX-0031-07	SWMW-111-061014	SWMW-111
				Sample Date	11/7/2014	3/25/2014	6/10/2014	3/25/2014	3/25/2014	6/10/2014	9/17/2014	11/5/2014	ITMW-6
				Sample Delivery Group	1517227	1462188	1480953	1462188	1462188	1480953	1504322	1516585	ITMW-6-032714
				Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	1462877
				Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Field Duplicate	Regular sample	Regular sample	Regular sample	WATER
				Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Regular sample
				NYSDEC ⁽¹⁾									Groundwater Sample
Analytical Method	Parameter Name	Units	NY_TOGS	Filtered									
EPA 300.0	Chloride	mg/l	250	N	123	165	NA	105	85.2	38.9	39.6	156	98
EPA 300.0	Nitrate as nitrogen	ug/l	NS	N	3700	1200 J	1400	1500 J	1600 J	1200	1300	2700	250 U
EPA 300.0	Sulfate	mg/l	250	N	62.3	56.2 J+	NA	78.3 J+	65.7 J+	33.3	26.3	138	30.8
RSKSOP-175 modified	Ethane	ug/l	NS	N	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Ethene	ug/l	NS	N	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	NS	N	3 U	3 U	NA	21	17	24	5.4	3.1 J	55
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	NS	N	301000	383000	NA	261000	264000	164000	161000	324000	265000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	NS	N	10 U	10 U	NA	10 U	10 U	49 J	120	10 U	280 J-
SM 4500-S2 D-2000	Sulfide, Total	ug/l	NS	N	54 U	54 U	NA	54 U	54 U	54 U	54 U	54 U	54 U
SW-846 6010C	Manganese	mg/l	0.3	N	0.0983	0.0064 J	NA	[0.314] J	0.147 J	0.114	0.129	0.138	[0.497]
SW-846 8260C	Benzene	ug/l	1	N	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	[1] J
SW-846 8260C	Chlorobenzene	ug/l	5	N	0.5 U	0.8 U	NA	0.8 U	0.8 U	0.5 U	0.5 U	0.5 U	0.9 J
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	5	N	1	0.8 U	NA	[17]	[16]	[11]	[5]	[6]	[100] J
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	5	N	[14]	1 U	NA	[65]	[69]	[34]	[16]	[43]	[91] J
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	2	N	0.5 U	1 U	NA	1 U	1 U	0.5 U	0.5 U	0.5 U	1 J
SW8015D	CARBON DIOXIDE	ug/l	NS	N	24000	31000	NA	29000	30000	13000	14000	51000	24000

TABLE 2
2014 QUARTERLY GROUNDWATER SAMPLING EVENTS
ANALYTICAL SUMMARY TABLE
Former Texaco Research Center
Beacon, New York

				Location Group	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area	Building 51 Area ^(*)	WATF Area	WATF Area	WATF Area	WATF Area
				Location	ITMW-6	ITMW-6	ITMW-6	ITMW-6	ITMW-6	SWMW-21	SWMW-21	SWMW-21	SWMW-21
				Field Sample ID	ITMW-6-061014	CVX-0032-01	CVX-0032-07	CVX-0035-09	CVX-0035-10	SWMW-21-032814	SWMW-21-060414	CVX-0033-03	CVX-0038-01
				Sample Date	6/10/2014	9/18/2014	9/18/2014	11/5/2014	11/5/2014	3/28/2014	6/4/2014	9/19/2014	11/11/2014
				Sample Delivery Group	1480953	1504703	1504703	1516585	1516585	1463182	1479522	1504922	1517915
				Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
				Sample Purpose	Regular sample	Regular sample	Field Duplicate	Regular sample	Field Duplicate	Regular sample	Regular sample	Regular sample	Regular sample
				Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
				NYSDEC ⁽¹⁾									
Analytical Method	Parameter Name	Units	NY_TOGS	Filtered									
EPA 300.0	Chloride	mg/l	250	N	93	78.9	73.2	121	NA	59.8	76.8	30.3	39.8
EPA 300.0	Nitrate as nitrogen	ug/l	NS	N	250 U	250 U	250 U	250 U	NA	290 J	250 U	250 U	250 U
EPA 300.0	Sulfate	mg/l	250	N	33.7	47.3	45.3	45.7	NA	6.3	4.1 J	1.9 J	2.2 J
RSKSOP-175 modified	Ethane	ug/l	NS	N	1 U	1 U	1 U	1 U	NA	8.1	7.7	20	9.6
RSKSOP-175 modified	Ethene	ug/l	NS	N	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	NS	N	97	3 U	3 U	120	NA	10000 J	10000	12000	10000
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	NS	N	278000	254000	257000	271000	NA	335000	343000	319000	346000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	NS	N	270	360 J	150 J	680	NA	19600	20800	39000	33500
SM 4500-S2 D-2000	Sulfide, Total	ug/l	NS	N	54 U	54 U	54 U	54 U	54 U	54 U	54 U	220 U	54 U
SW-846 6010C	Manganese	mg/l	0.3	N	[0.382]	[1.39] J	[0.688] J	[0.78]	NA	[10.4]	[12.7]	[12.2]	[12.1]
SW-846 8260C	Benzene	ug/l	1	N	[1]	[2]	[2]	[1]	NA	[260]	[400]	[250]	[270]
SW-846 8260C	Chlorobenzene	ug/l	5	N	1	0.7 J	0.7 J	0.5 U	NA	3 U	1 U	0.6 J	0.5 U
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	5	N	[130]	[80]	[83]	[46]	NA	3 U	1 J	1	0.9 J
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	5	N	[140]	[19]	[21]	[20]	NA	3 U	1 U	0.5 U	0.5 U
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	2	N	[2]	0.6 J	0.7 J	1	NA	3 U	1 U	0.5 U	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	NS	N	27000	29000	27000	23000	NA	140000	120000	140000	140000

TABLE 2
2014 QUARTERLY GROUNDWATER SAMPLING EVENTS
ANALYTICAL SUMMARY TABLE
Former Texaco Research Center
Beacon, New York

				Location Group	WATF Area	WATF Area	WATF Area	WATF Area	WATF Area	WATF Area	WATF Area	WATF Area	WATF Area
				Location	SWMW-30	SWMW-30	SWMW-30	SWMW-30	SWMW-31	SWMW-31	SWMW-31	SWMW-31	SWMW-71
				Field Sample ID	SWMW-30-032814	SWMW-30-060414	CVX-0033-04	CVX-0038-02	SWMW-31-032814	SWMW-31-060414	CVX-0033-05	CVX-0038-03	SWMW-71-032814
				Sample Date	3/28/2014	6/4/2014	9/19/2014	11/11/2014	3/28/2014	6/4/2014	9/19/2014	11/11/2014	3/28/2014
				Sample Delivery Group	1463182	1479522	1504922	1517915	1463182	1479522	1504922	1517915	1463182
				Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
				Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
				Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
				NYSDEC ⁽¹⁾									
Analytical Method	Parameter Name	Units	NY_TOGS	Filtered									
EPA 300.0	Chloride	mg/l	250	N	164	[315]	239	225	130	148	[330]	228	82.3
EPA 300.0	Nitrate as nitrogen	ug/l	NS	N	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	1400
EPA 300.0	Sulfate	mg/l	250	N	2.5 J	3.3 J	1.5 U	1.5 U	3.6 J	1.6 J	1.5 U	1.5 U	22
RSKSOP-175 modified	Ethane	ug/l	NS	N	1.8 J	1.6 J	5.8	3.6 J	2.3 J	2.2 J	4.2 J	3.8 J	1.1 J
RSKSOP-175 modified	Ethene	ug/l	NS	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	NS	N	3900 J	4000	5300	6000	4700 J	4600	3700	4900	2100 J
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	NS	N	232000	312000	303000	339000	294000	259000	286000	318000	268000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	NS	N	13900	13900	28800	18300	17000	19400	19000	23100	14100
SM 4500-S2 D-2000	Sulfide, Total	ug/l	NS	N	82 J	70 J	54 U	54 U	54 U	54 U	54 U	54 U	54 U
SW-846 6010C	Manganese	mg/l	0.3	N	[2.61]	[2.53]	[2.91]	[3.15]	[3.19]	[3.33]	[4.27]	[3.76]	[2.96]
SW-846 8260C	Benzene	ug/l	1	N	[9]	[5]	[20]	[18]	[4]	[24]	[15]	[29]	[3]
SW-846 8260C	Chlorobenzene	ug/l	5	N	0.9 J	0.9 J	2	2	1 J	3	1	4	0.7 J
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	5	N	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	5	N	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	2	N	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	NS	N	78000	66000	83000	85000	75000	71000	80000	91000	93000

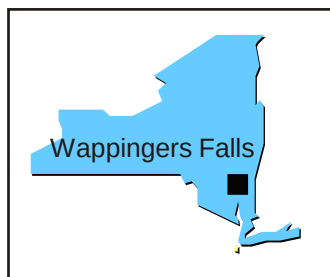
Notes for Table 2

[]	Concentration of parameter(s) exceeds regulatory groundwater screening criterion.
J	The analyte was positively identified, but the quantitation is an estimation.
J+	Estimate biased high at the value given.
J-	Estimated biased low at the value given.
U	The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit.
UJ	The analyte was detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.
ug/L	Micrograms per liter. (parts per billion)
ug CaCO ₃ /L	Micrograms of Calcium Carbonate per liter (parts per billion).
mg/L	Milligrams per liter. (parts per million)
NA	Not analyzed.
NS	Not specified.
*	Duplicate sample.
(1)	Groundwater criteria obtained from the NYSDEC document entitled, "Division of Water Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998"; Errata Sheet for June 1998 Edition and amendments.

FIGURES



FIGURE 1



New York Quadrangle



SOURCE: U.S.G.S.
WAPPINGERS FALLS
QUADRANGLE

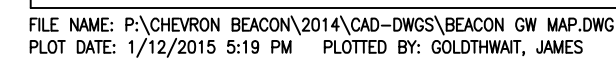


Chevron Environmental Management Company
(EMC)
Former Texaco Research Facility
Beacon, New York

SITE LOCATION MAP

PARSONS

301 PLAINFIELD ROAD * SUITE 350 * SYRACUSE, NY 13212 PHONE: (315) 451-9560



APPENDIX A

DATA USABILITY SUMMARY REPORTS
(MARCH, JUNE, SEPTEMBER, AND NOVEMBER 2014)
2014 QUARTERLY SAMPLING EVENTS

DATA USABILITY SUMMARY REPORT 2014 1ST QUARTER GROUNDWATER SAMPLING

**Former Chevron Texaco Research Center
Beacon, New York**

Prepared For:



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MAY 2014

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LIST OF ATTACHMENTS

ATTACHMENT A VALIDATED LABORATORY DATA

SECTION 1

DATA USABILITY SUMMARY

Groundwater samples were collected as part of the 2014 1st Quarter sampling event from the Chevron Beacon site from March 19, 2014 through March 28, 2014. Analytical results from these samples were validated and reviewed by Parsons for usability with respect to the following requirements:

- Work Plan
- QAPP,
- July 2005 NYSDEC Analytical Services Protocol (ASP), and
- USEPA Region II Standard Operating Procedures (SOPs) for organic and inorganic data review.

The analytical laboratory for this project was Eurofins Laboratories (Eurofins) in Lancaster, Pennsylvania. This laboratory is certified to conduct project analyses through the New York State Department of Health (NYSDOH) and the National Environmental Laboratory Accreditation Program (NELAP).

1.1 LABORATORY DATA PACKAGES

The laboratory data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons, was 30-36 days for the project samples.

The laboratory data packages received from Eurofins were paginated, complete, and overall were of good quality. Comments on specific quality control (QC) and other requirements are discussed in detail in the attached data validation report which is summarized in Section 2.

1.2 SAMPLING AND CHAIN-OF-CUSTODY

The samples were collected, properly preserved, shipped under a COC record, and received at Eurofins within one day of sampling. All samples were received intact and in good condition at Eurofins.

1.3 LABORATORY ANALYTICAL METHODS

The groundwater samples were collected from the site and analyzed for certain volatiles including methane, ethane, and ethene; manganese; ferrous iron; carbon dioxide; chloride; nitrate; sulfate; total alkalinity; and sulfide. Summaries of issues concerning these laboratory analyses are presented in Subsections 1.3.1 through 1.3.3. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, and comparability (PARCC) are discussed for each analytical

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method in Section 2 of this Data Usability Summary Report (DUSR). A USEPA Stage 4 data validation (i.e., full data validation) was conducted by Parsons on 10% of the project samples with the remaining 90% of the project samples undergoing a USEPA Stage 2B data validation which provides data defensibility. The laboratory data were reviewed and may be qualified with the following validation flags:

- "U" - not detected at the value given,
- "UJ" - estimated and not detected at the value given,
- "J" - estimated at the value given,
- "J+" - estimated biased high at the value given,
- "J-" - estimated biased low at the value given,
- "N" - presumptive evidence at the value given, and
- "R" - unusable value.

The validated laboratory data were tabulated and are presented in Attachment A.

1.3.1 Volatile Organic Analysis

Groundwater samples collected from the site were analyzed for certain volatiles using the USEPA SW-846 8260C analytical method; and the groundwater samples collected from the site were analyzed for methane, ethane, and ethene using the USEPA approved SOP RSK-175 analytical method. Certain results for these samples were qualified as estimated based upon sample holding times and field duplicate precision. The reported volatile analytical results were 100% complete (i.e., usable) for the data presented by Eurofins. PARCC requirements were met.

1.3.2 Metals Analysis

Groundwater samples collected from the site were analyzed for manganese and ferrous iron using the USEPA SW-846 6010C and SM3500 analytical methods, respectively. Certain reported results for these samples were qualified as estimated based upon matrix spike recoveries and field duplicate precision. The metals results were considered 100% complete (i.e., usable) for the data presented by Eurofins. PARCC requirements were met.

1.3.3 Wet Chemistry Analysis

Groundwater samples collected from the site were analyzed for carbon dioxide using the USEPA SW-846 8015D analytical method; nitrate, sulfate, and chloride using the USEPA 300.0 analytical method; total alkalinity using the SM2320 analytical method; and sulfide using the SM4500 analytical method. Certain reported results for these samples were qualified as estimated based upon sample holding times and matrix spike recoveries. The wet chemistry results were considered 100% complete (i.e., usable) for the data presented by Eurofins. PARCC requirements were met.

SECTION 2

DATA VALIDATION REPORT

2.1 1ST QUARTER GROUNDWATER SAMPLES

Data review has been completed for data packages generated by Eurofins containing groundwater samples collected from the site. These samples were contained within sample delivery groups (SDGs) CBC37, CBC38, CBC39, CBC41, and CBC42. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data were tabulated and are presented in Attachment A.

Data validation was performed for all samples in accordance with the project work plan, QAPP, NYSDEC ASP, and the USEPA Region II SOPs for organic and inorganic data review. This data validation and usability report is presented by analysis type.

2.1.1 Volatiles (Including Methane, Ethane, and Ethene)

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank and trip/equipment blank contamination
- GC/MS instrument performance
- Sample result verification and identification
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of holding times and field duplicate precision as discussed below.

Holding Times

All sample holding times for analysis were within the 7-day holding time for unpreserved volatile samples with the exception of the analytical holding time for samples contained in SDG CBC41 except the methane, ethane, and ethene samples; and the methane samples for SWMW-15, -71, -30, -31, and -21 which exceeded holding time requirements by four days. Therefore, the results for these samples were considered estimated with positive results qualified “J” and nondetected results qualified “UJ” for the affected samples.

Field Duplicate Precision

All field duplicate precision results were considered acceptable with the exception of the field duplicate precision for cis-1,2-dichloroethene (67%RPD) and trichloroethene (44%RPD) associated with sample SWMW-58 and its field duplicate sample SWMW-1058. Therefore, these results were considered estimated and qualified “J” for these samples.

Usability

All volatile results for the groundwater samples were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The volatile data presented by Eurofins were 100% complete (i.e., usable). The validated laboratory data are tabulated and presented in Attachment A.

2.1.2 Manganese and Ferrous Iron

The following items were reviewed for compliancy in the manganese and ferrous iron analysis:

- Custody documentation
- Holding times
- Initial and continuing calibration verifications
- Initial and continuing calibration blank, laboratory preparation blank, and equipment blank contamination
- Matrix spike/matrix spike duplicate (MS/MSD) recoveries
- Laboratory duplicate precision
- Laboratory control sample (LCS) recoveries
- Serial dilutions
- Interference check sample recoveries
- Field duplicate precision
- Sample result verification and identification

- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of matrix spike recoveries and field duplicate precision as discussed below.

Matrix Spike Recoveries

All matrix spike recoveries were considered acceptable and within QC limits with the exception of the low matrix spike recovery for ferrous iron (72%R; QC limit 81-112%R) associated with samples in SDG CBC41. Therefore, these ferrous iron results were considered estimated, possibly biased low, with positive results qualified “J-” and nondetected results qualified “UJ” for the affected samples.

Field Duplicate Precision

All field duplicate precision results were considered acceptable for all analytes with the exception of the precision for manganese (63%RPD) associated with sample SWMW-58 and its field duplicate sample SWMW-1058; and the precision for manganese (72%RPD) associated with sample SWMW-111 and its field duplicate sample SWMW-1111. Therefore, these manganese results in the associated field duplicate samples and parent samples were considered estimated and qualified “J”.

Usability

All metals results for the groundwater samples were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The metals data for the groundwater samples presented by Eurofins were 100% complete (i.e., usable). The validated laboratory data are tabulated and presented in Attachment A.

2.1.3 Wet Chemistry

The following items were reviewed for compliancy in the wet chemistry analysis:

- Custody documentation
- Holding times
- Initial and continuing calibration verifications
- Initial and continuing calibration blank, laboratory preparation blank, and equipment blank contamination
- Matrix spike/matrix spike duplicate (MS/MSD) recoveries

- Laboratory duplicate precision
- Laboratory control sample (LCS) recoveries
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of holding times and matrix spike recoveries as discussed below.

Holding Times

All analytical holding times were considered acceptable and within criteria with the exception of the nitrate analytical holding times for samples collected on 3/25/14 which exceeded the 48-hour holding time requirement by 2-3 days. Therefore, the nitrate results for these samples were considered estimated with positive results qualified “J” and nondetected results qualified “UJ”.

Matrix Spike Recoveries

All matrix spike recoveries were considered acceptable and within QC limits with the exception of the high matrix spike recoveries for nitrate (111%R, 126%R, 121%R; QC limit 90-110%R) and sulfate (113%R, 124%R; QC limit 90-110%R) associated with samples collected on 3/19/14 and 3/25/14. Therefore, positive nitrate and sulfate results for these samples were considered estimated, possibly biased high, and qualified “J+”.

Usability

All wet chemistry results for the groundwater samples were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The wet chemistry data for the groundwater samples presented by Eurofins were 100% complete (i.e., usable). The validated laboratory data are tabulated and presented in Attachment A.

ATTACHMENT A

VALIDATED LABORATORY DATA

		Location	GT-2	ITMW-5	ITMW-6	ITMW-13	ITMW-24	ITMW-25	ITMW-30
		Field Sample ID	GT-2-031914	ITMW-5-032814	ITMW-6-032714	ITMW-13-031914	ITMW-24-032514	ITMW-25-032514	ITMW-30-032014
		Sample Date	3/19/2014	3/28/2014	3/27/2014	3/19/2014	3/25/2014	3/25/2014	3/20/2014
		Sample Delivery Group	1460835	1463182	1462877	1460835	1462188	1462188	1461101
		Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Analytical Method	Parameter Name	Units							
EPA 300.0	Chloride	mg/l	109	24.1	98	1460	190	157	19.2
EPA 300.0	Nitrate as nitrogen	ug/l	250 U	10300	250 U	250 U	250 UJ	250 UJ	250 U
EPA 300.0	Sulfate	mg/l	2.5 J	76	30.8	16.1 J+	163 J+	24 J+	11.9
RSKSOP-175 modified	Ethane	ug/l	2.3 J	1 U	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Ethene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	4400	3 U	55	290	34	140	290
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	194000	226000	265000	78700	134000	277000	119000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	43100	4000	280 J-	8100	5700	2800	550
SM 4500-S2 D-2000	Sulfide, Total	ug/l	64 J	540 U	54 U	54 U	190	54 U	54 U
SW-846 6010C	Manganese	mg/l	2.51	1.09	0.497	8.33	0.478	4.37	1.97
SW-846 8260C	Benzene	ug/l	150	0.5 U	1 J	0.8 J	0.5 U	340	0.5 U
SW-846 8260C	Chlorobenzene	ug/l	260	0.5 U	0.9 J	180	12	63	4 J
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	0.8 U	0.5 U	100 J	0.8 U	0.8 U	0.8 U	0.8 U
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	1 U	6	91 J	1 U	1 U	1 U	1 U
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	1 U	0.5 U	1 J	1 U	1 U	1 U	1 U
SW8015D	CARBON DIOXIDE	ug/l	170000	40000	24000	120000	50000	32000	56000

		Location	ITMW-31	SWMW-10	SWMW-10	SWMW-13	SWMW-14	SWMW-15
		Field Sample ID	ITMW-31-032014	SWMW-10-032514	SWMW-10-032614	SWMW-13-032514	SWMW-14-032714	SWMW-15-032814
		Sample Date	3/20/2014	3/25/2014	3/26/2014	3/25/2014	3/27/2014	3/28/2014
		Sample Delivery Group	1461101	1462188	1462877	1462188	1462877	1463182
		Matrix	WATER	WATER	WATER	WATER	WATER	WATER
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Analytical Method	Parameter Name	Units						
EPA 300.0	Chloride	mg/l	3.2	255		439	187	81.9
EPA 300.0	Nitrate as nitrogen	ug/l	250 U	250 UJ		6900 J	3900	250 U
EPA 300.0	Sulfate	mg/l	2.2 J	33.3 J+		199 J+	73.1	67
RSKSOP-175 modified	Ethane	ug/l	1 U	1.8 J		1 U	1 U	3.8 J
RSKSOP-175 modified	Ethene	ug/l	1 U	1.6 J		1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	2300	330		3 U	3 U	2500 J
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	111000	344000		361000	292000	283000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	1800	1700		17 J	20 J	14000
SM 4500-S2 D-2000	Sulfide, Total	ug/l	660		54 U	54 U	54 U	220 U
SW-846 6010C	Manganese	mg/l	1.35	0.808		0.0362	0.023	5.91
SW-846 8260C	Benzene	ug/l	2 J	1 J		0.5 U	0.5 UJ	37
SW-846 8260C	Chlorobenzene	ug/l	0.8 U	250		0.8 U	0.5 UJ	280
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	0.8 U	16		4 J	0.5 UJ	4
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	1 U	27		19	17 J	3
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	1 U	5 J		1 U	0.5 UJ	0.9 J
SW8015D	CARBON DIOXIDE	ug/l	42000	49000		55000	27000	95000

		Location	SWMW-21	SWMW-2	SWMW-25	SWMW-28	SWMW-30	SWMW-31
		Field Sample ID	SWMW-21-032814	SWMW-2-031914	SWMW-25-032514	SWMW-28-032514	SWMW-30-032814	SWMW-31-032814
		Sample Date	3/28/2014	3/19/2014	3/25/2014	3/25/2014	3/28/2014	3/28/2014
		Sample Delivery Group	1463182	1460835	1462188	1462188	1463182	1463182
		Matrix	WATER	WATER	WATER	WATER	WATER	WATER
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Analytical Method	Parameter Name	Units						
EPA 300.0	Chloride	mg/l	59.8	926	125	248	164	130
EPA 300.0	Nitrate as nitrogen	ug/l	290 J	250 U	1500 J	250 UJ	250 U	250 U
EPA 300.0	Sulfate	mg/l	6.3	20.6 J+	105 J+	5.9 J+	2.5 J	3.6 J
RSKSOP-175 modified	Ethane	ug/l	8.1	1 U	1 U	2.2 J	1.8 J	2.3 J
RSKSOP-175 modified	Ethene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	10000 J	38	3 U	2000	3900 J	4700 J
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	335000	162000	124000	229000	232000	294000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	19600	5800	33 J	15500	13900	17000
SM 4500-S2 D-2000	Sulfide, Total	ug/l	54 U	54 U	54 U	57 J	82 J	54 U
SW-846 6010C	Manganese	mg/l	10.4	2.67	0.745	1.86	2.61	3.19
SW-846 8260C	Benzene	ug/l	260	0.9 J	0.5 U	3 J	9	4
SW-846 8260C	Chlorobenzene	ug/l	3 U	150	0.8 U	17	0.9 J	1 J
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	3 U	3 J	0.8 U	0.8 U	0.5 U	0.5 U
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	3 U	1 U	1 U	1 U	0.5 U	0.5 U
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	3 U	1 U	1 U	1 U	0.5 U	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	140000	62000	24000	40000	78000	75000

		Location	SWMW-41	SWMW-44	SWMW-45	SWMW-48	SWMW-55	SWMW-56
		Field Sample ID	SWMW-41-032714	SWMW-44-032514	SWMW-45-032014	SWMW-48-032514	SWMW-55-032014	SWMW-56-032814
		Sample Date	3/27/2014	3/25/2014	3/20/2014	3/25/2014	3/20/2014	3/28/2014
		Sample Delivery Group	1462877	1462188	1461101	1462188	1461101	1463182
		Matrix	WATER	WATER	WATER	WATER	WATER	WATER
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Analytical Method	Parameter Name	Units						
EPA 300.0	Chloride	mg/l	246	220	91.5	879	26.5	95.3
EPA 300.0	Nitrate as nitrogen	ug/l	250 U	250 UJ	320 J	250 UJ	1700	250 U
EPA 300.0	Sulfate	mg/l	32	48.8 J+	22.7	37.8 J+	14.1	67.7
RSKSOP-175 modified	Ethane	ug/l	3.1 J	3.3 J	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Ethene	ug/l	1.2 J	4.2 J	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	370	720	17	3 U	3 U	100
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	268000	295000	113000	241000	102000	293000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	110 J-	1100	410	1000	92 J	380
SM 4500-S2 D-2000	Sulfide, Total	ug/l	54 U	110 J	54 U	54 U	54 U	54 U
SW-846 6010C	Manganese	mg/l	0.294	1.87	1.38	2.18	2.99	0.193
SW-846 8260C	Benzene	ug/l	25 J	1 J	0.5 U	0.5 U	0.5 J	1
SW-846 8260C	Chlorobenzene	ug/l	2 J	170	19	15	460	0.7 J
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	270 J	36	0.8 U	0.8 U	0.8 U	130
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	220 J	190	1 U	1 U	1 U	280
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	31 J	13	1 U	1 U	1 U	4
SW8015D	CARBON DIOXIDE	ug/l	29000	49000	20000	43000	41000	25000

		Location	SWMW-58	SWMW-58	SWMW-62	SWMW-62	SWMW-65	SWMW-66
		Field Sample ID	SWMW-1058-032714	SWMW-58-032714	SWMW-62-032714	SWMW-62-032814	SWMW-65-032514	SWMW-66-032714
		Sample Date	3/27/2014	3/27/2014	3/27/2014	3/28/2014	3/25/2014	3/27/2014
		Sample Delivery Group	1462877	1462877	1462877	1463182	1462188	1462877
		Matrix	WATER	WATER	WATER	WATER	WATER	WATER
		Sample Purpose	Field Duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Analytical Method	Parameter Name	Units						
EPA 300.0	Chloride	mg/l	259	209	56.7		822	652
EPA 300.0	Nitrate as nitrogen	ug/l	7000	8200	560		250 UJ	1500
EPA 300.0	Sulfate	mg/l	58.1	53.9	39.4		37.5 J+	67.9
RSKSOP-175 modified	Ethane	ug/l	1 U	1 U	1 U		1 U	1 J
RSKSOP-175 modified	Ethene	ug/l	1 U	1 U	1 U		1 U	1 U
RSKSOP-175 modified	Methane	ug/l	3 U	3 U	3 U		3 U	23
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	294000	275000	259000		140000	242000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	10 UJ	10 UJ	28 J		67 J	140 J-
SM 4500-S2 D-2000	Sulfide, Total	ug/l	110 U	110 U		54 U	220 U	54 U
SW-846 6010C	Manganese	mg/l	2.02 J	1.05 J	1.59		4.69	0.358
SW-846 8260C	Benzene	ug/l	0.5 UJ	0.5 UJ	0.5 UJ		0.5 U	1 J
SW-846 8260C	Chlorobenzene	ug/l	0.5 UJ	0.5 UJ	0.5 UJ		0.8 U	2 J
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	34 J	17 J	2 J		0.8 U	620 J
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	22 J	14 J	6 J		1 U	280 J
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	0.5 UJ	0.5 UJ	0.5 UJ		1 U	46 J
SW8015D	CARBON DIOXIDE	ug/l	52000	52000	42000		20000	33000

		Location	SWMW-67	SWMW-68	SWMW-71	SWMW-103	SWMW-111	SWMW-111
		Field Sample ID	SWMW-67-032514	SWMW-68-032514	SWMW-71-032814	SWMW-103-032514	SWMW-111-032514	SWMW-111-032514
		Sample Date	3/25/2014	3/25/2014	3/28/2014	3/25/2014	3/25/2014	3/25/2014
		Sample Delivery Group	1462188	1462188	1463182	1462188	1462188	1462188
		Matrix	WATER	WATER	WATER	WATER	WATER	WATER
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field Duplicate
		Sample Type	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Analytical Method	Parameter Name	Units						
EPA 300.0	Chloride	mg/l	7.7	66.9	82.3	165	105	85.2
EPA 300.0	Nitrate as nitrogen	ug/l	5100 J	1400 J	1400	1200 J	1500 J	1600 J
EPA 300.0	Sulfate	mg/l	232 J+	128 J+	22	56.2 J+	78.3 J+	65.7 J+
RSKSOP-175 modified	Ethane	ug/l	1 U	1 U	1.1 J	1 U	1 U	1 U
RSKSOP-175 modified	Ethene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	3 U	3 U	2100 J	3 U	21	17
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	297000	273000	268000	383000	261000	264000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	10 U	10 U	14100	10 U	10 U	10 U
SM 4500-S2 D-2000	Sulfide, Total	ug/l	54 U	54 U	54 U	54 U	54 U	54 U
SW-846 6010C	Manganese	mg/l	0.444	0.0956	2.96	0.0064 J	0.314 J	0.147 J
SW-846 8260C	Benzene	ug/l	0.5 U	0.5 J	3	0.5 U	0.5 U	0.5 U
SW-846 8260C	Chlorobenzene	ug/l	0.8 U	0.8 U	0.7 J	0.8 U	0.8 U	0.8 U
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	0.8 U	56	0.5 U	0.8 U	17	16
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	39	340	0.5 U	1 U	65	69
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	1 U	3 J	0.5 U	1 U	1 U	1 U
SW8015D	CARBON DIOXIDE	ug/l	48000	26000	93000	31000	29000	30000

		Location	SWMW-112	SWMW-113	SWMW-114	SWMW-114	SWMW-123	SWMW-125
		Field Sample ID	SWMW-112-032714	SWMW-113-032714	SWMW-1114-031914	SWMW-114-031914	SWMW-123-032014	SWMW-125-031914
		Sample Date	3/27/2014	3/27/2014	3/19/2014	3/19/2014	3/20/2014	3/19/2014
		Sample Delivery Group	1462877	1462877	1460835	1460835	1461101	1460835
		Matrix	WATER	WATER	WATER	WATER	WATER	WATER
		Sample Purpose	Regular sample	Regular sample	Field Duplicate	Regular sample	Regular sample	Regular sample
		Sample Type	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Analytical Method	Parameter Name	Units						
EPA 300.0	Chloride	mg/l	330	271	45.3	44.8	112	89.8
EPA 300.0	Nitrate as nitrogen	ug/l	250 U	250 U	250 U	250 U	250 U	250 U
EPA 300.0	Sulfate	mg/l	34.6	51.9	16.2 J+	16.3 J+	19.6	5.9 J+
RSKSOP-175 modified	Ethane	ug/l	3.5 J	1 U	1 U	1 U	1 U	1 J
RSKSOP-175 modified	Ethene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	460	14	41	45	74	530
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	256000	289000	149000	147000	261000	135000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	150 J-	10 UJ	13 J	10 U	920	2100
SM 4500-S2 D-2000	Sulfide, Total	ug/l	54 U	54 U	54 U	54 U	54 U	54 U
SW-846 6010C	Manganese	mg/l	0.314	0.37	0.361	0.343	0.263	4.91
SW-846 8260C	Benzene	ug/l	2 J	0.5 UJ	0.5 U	0.5 U	1 J	3 J
SW-846 8260C	Chlorobenzene	ug/l	3 J	0.8 J	12	12	96	210
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	520 J	25 J	3 J	3 J	0.8 U	60
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	280 J	13 J	180	180	1 U	260
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	13 J	0.5 UJ	1 U	1 U	1 U	3 J
SW8015D	CARBON DIOXIDE	ug/l	25000	23000	18000	19000	28000	41000

		Location	SWMW-126	TB	TB	TB	TB	TB
		Field Sample ID	SWMW-126-032714	Trip Blank-031914	Trip Blank-032014	Trip Blank-032514	Trip Blank-032714	Trip Blank-032814
		Sample Date	3/27/2014	3/19/2014	3/20/2014	3/25/2014	3/27/2014	3/28/2014
		Sample Delivery Group	1462877	1460835	1461101	1462188	1462877	1463182
		Matrix	WATER	WATER	WATER	WATER	WATER	WATER
		Sample Purpose	Regular sample	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
		Sample Type	Groundwater	Blank	Blank	Blank	Blank	Blank
Analytical Method	Parameter Name	Units						
EPA 300.0	Chloride	mg/l	189					
EPA 300.0	Nitrate as nitrogen	ug/l	250 U					
EPA 300.0	Sulfate	mg/l	27.8					
RSKSOP-175 modified	Ethane	ug/l	1.2 J					
RSKSOP-175 modified	Ethene	ug/l	1 U					
RSKSOP-175 modified	Methane	ug/l	59					
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	267000					
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	10 UJ					
SM 4500-S2 D-2000	Sulfide, Total	ug/l	54 U					
SW-846 6010C	Manganese	mg/l	0.201					
SW-846 8260C	Benzene	ug/l	3 J	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U
SW-846 8260C	Chlorobenzene	ug/l	3 J	0.8 U	0.8 U	0.8 U	0.5 UJ	0.5 U
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	210 J	0.8 U	0.8 U	0.8 U	0.5 UJ	0.5 U
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	300 J	1 U	1 U	1 U	0.5 UJ	0.5 U
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	4 J	1 U	1 U	1 U	0.5 UJ	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	27000					

		Location	Unknown Well 1	Unknown Well 2	Unknown Well 3
		Field Sample ID	UNK-1-031914	UNK-2-031914	UNK-3-031914
		Sample Date	3/19/2014	3/19/2014	3/19/2014
		Sample Delivery Group	1460835	1460835	1460835
		Matrix	WATER	WATER	WATER
		Sample Purpose	Regular sample	Regular sample	Regular sample
		Sample Type	Groundwater	Groundwater	Groundwater
Analytical Method	Parameter Name	Units			
EPA 300.0	Chloride	mg/l	136	120	234
EPA 300.0	Nitrate as nitrogen	ug/l	250 U	250 U	250 U
EPA 300.0	Sulfate	mg/l	1.5 U	6.1 J+	9 J+
RSKSOP-175 modified	Ethane	ug/l	1 U	1 U	1 U
RSKSOP-175 modified	Ethene	ug/l	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	4.1 J	4.1 J	140
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	101000	84000	82300
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	22100	3700	9400
SM 4500-S2 D-2000	Sulfide, Total	ug/l	54 U	54 U	54 U
SW-846 6010C	Manganese	mg/l	6.16	2.99	2.28
SW-846 8260C	Benzene	ug/l	3 J	0.8 J	0.6 J
SW-846 8260C	Chlorobenzene	ug/l	820	150	55
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	0.8 U	0.8 U	0.9 J
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	1 U	1 U	1 U
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	1 U	1 U	1 U
SW8015D	CARBON DIOXIDE	ug/l	120000	130000	110000

**DATA USABILITY SUMMARY REPORT
2014 2ND QUARTER GROUNDWATER SAMPLING**

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LIST OF ATTACHMENTS

ATTACHMENT A VALIDATED LABORATORY DATA

SECTION 1

DATA USABILITY SUMMARY

Groundwater samples were collected as part of the 2014 2nd Quarter sampling event from the Chevron Beacon site from June 3, 2014 through June 10, 2014. Analytical results from these samples were validated and reviewed by Parsons for usability with respect to the following requirements:

- Work Plan
- QAPP
- July 2005 NYSDEC Analytical Services Protocol (ASP)
- USEPA Region II Standard Operating Procedures (SOPs) for organic and inorganic data review

The analytical laboratory for this project was Eurofins Laboratories (Eurofins) in Lancaster, Pennsylvania. This laboratory is certified to conduct project analyses through the New York State Department of Health (NYSDOH) and the National Environmental Laboratory Accreditation Program (NELAP).

1.1 LABORATORY DATA PACKAGES

The laboratory data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons, was 27-33 days for the project samples.

The laboratory data packages received from Eurofins were paginated, complete, and overall were of good quality. Comments on specific quality control (QC) and other requirements are discussed in detail in the attached data validation report which is summarized in Section 2.

1.2 SAMPLING AND CHAIN-OF-CUSTODY

The samples were collected, properly preserved, shipped under a COC record, and received at Eurofins within one day of sampling. All samples were received intact and in good condition at Eurofins.

1.3 LABORATORY ANALYTICAL METHODS

The groundwater samples were collected from the site and analyzed for certain volatiles including methane, ethane, and ethene; manganese; ferrous iron; carbon dioxide; chloride; nitrate; sulfate; total alkalinity; and sulfide. Summaries of issues concerning these laboratory analyses are presented in Subsections 1.3.1 through 1.3.3. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, and comparability (PARCC) are discussed for each analytical

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method in Section 2 of this Data Usability Summary Report (DUSR). A USEPA Stage 4 data validation (i.e., full data validation) was conducted by Parsons on 10% of the project samples with the remaining 90% of the project samples undergoing a USEPA Stage 2B data validation which provides data defensibility. The laboratory data were reviewed and may be qualified with the following validation flags:

- "U" - not detected at the value given,
- "UJ" - estimated and not detected at the value given,
- "J" - estimated at the value given,
- "J+" - estimated biased high at the value given,
- "J-" - estimated biased low at the value given,
- "N" - presumptive evidence at the value given, and
- "R" - unusable value.

The validated laboratory data were tabulated and are presented in Attachment A.

1.3.1 Volatile Organic Analysis

Groundwater samples collected from the site were analyzed for certain volatiles using the USEPA SW-846 8260C analytical method and for methane, ethane, and ethene using the USEPA approved SOP RSK-175 analytical method. The results for these samples did not require qualification resulting from data validation. The reported volatile analytical results were 100% complete (i.e., usable) for the data presented by Eurofins. PARCC requirements were met.

1.3.2 Metals Analysis

Groundwater samples collected from the site were analyzed for manganese and ferrous iron using the USEPA SW-846 6010C and SM3500 analytical methods, respectively. The reported results for these samples did not require qualification resulting from data validation. The metals results were considered 100% complete (i.e., usable) for the data presented by Eurofins. PARCC requirements were met.

1.3.3 Wet Chemistry Analysis

Groundwater samples collected from the site were analyzed for carbon dioxide using the USEPA SW-846 8015D analytical method; nitrate, sulfate, and chloride using the USEPA 300.0 analytical method; total alkalinity using the SM2320 analytical method; and sulfide using the SM4500 analytical method. Certain reported results for these samples were qualified as estimated based upon matrix spike recoveries. The wet chemistry results were considered 100% complete (i.e., usable) for the data presented by Eurofins. PARCC requirements were met.

SECTION 2

DATA VALIDATION REPORT

2.1 2ND QUARTER GROUNDWATER SAMPLES

Data review has been completed for data packages generated by Eurofins containing groundwater samples collected from the site. These samples were contained within sample delivery groups (SDGs) CBC43, CBC44, CBC45, CBC46, and CBC47. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data were tabulated and are presented in Attachment A.

Data validation was performed for all samples in accordance with the project work plan, QAPP, NYSDEC ASP, and the USEPA Region II SOPs for organic and inorganic data review. This data validation and usability report is presented by analysis type.

2.1.1 Volatiles (Including Methane, Ethane, and Ethene)

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank and trip/equipment blank contamination
- GC/MS instrument performance
- Sample result verification and identification
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of MS/MSD precision and accuracy as discussed below.

MS/MSD Precision and Accuracy

All precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements were considered acceptable and within QC limits for designated spiked project samples with the exception of the MS/MSD accuracy results for trichloroethene (49%R/163%R; QC limit 88-133%R) and chlorobenzene (63%R/210%R; QC limit 87-124%R) during the spiked analyses of sample SWMW-44. Validation qualification of the parent sample was not required.

Usability

All volatile results for the groundwater samples were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The volatile data presented by Eurofins were 100% complete (i.e., usable). The validated laboratory data are tabulated and presented in Attachment A.

2.1.2 Manganese and Ferrous Iron

The following items were reviewed for compliancy in the manganese and ferrous iron analysis:

- Custody documentation
- Holding times
- Initial and continuing calibration verifications
- Initial and continuing calibration blank, laboratory preparation blank, and equipment blank contamination
- Matrix spike/matrix spike duplicate (MS/MSD) recoveries
- Laboratory duplicate precision
- Laboratory control sample (LCS) recoveries
- Serial dilutions
- Interference check sample recoveries
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols.

Usability

All metals results for the groundwater samples were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The metals data for the groundwater samples presented by Eurofins were 100% complete (i.e., usable). The validated laboratory data are tabulated and presented in Attachment A.

2.1.3 Wet Chemistry

The following items were reviewed for compliancy in the wet chemistry analysis:

- Custody documentation
- Holding times
- Initial and continuing calibration verifications
- Initial and continuing calibration blank, laboratory preparation blank, and equipment blank contamination
- Matrix spike/matrix spike duplicate (MS/MSD) recoveries
- Laboratory duplicate precision
- Laboratory control sample (LCS) recoveries
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of blank contamination and matrix spike recoveries as discussed below.

Blank Contamination

The laboratory method blanks associated with samples collected on 6/4/14 and 6/10/14 contained total alkalinity below the reporting limit at concentrations of 0.91 and 1.3 mg/L, respectively. Validation qualification of the associated samples was not required.

Matrix Spike Recoveries

All matrix spike recoveries were considered acceptable and within QC limits with the exception of the high matrix spike recoveries for chloride (116%R; QC limit 90-110%R) associated with samples collected on 6/5/14; and nitrate (131%R; QC limit 90-110%R) and sulfate (134%R; QC limit 90-110%R) associated with samples collected on 6/6/14. Therefore,

positive results for these analytes were considered estimated, possibly biased high, and qualified “J+” for the affected samples.

Usability

All wet chemistry results for the groundwater samples were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The wet chemistry data for the groundwater samples presented by Eurofins were 100% complete (i.e., usable). The validated laboratory data are tabulated and presented in Attachment A.

ATTACHMENT A

VALIDATED LABORATORY DATA

Validated Laboratory Data
Chevron Beacon - 2nd Quarter 2014 Groundwater Sampling

			Location	GT-2	ITMW-6	ITMW-13	ITMW-14	ITMW-24
			Field Sample ID	GT-2-060414	ITMW-6-061014	ITMW-13-060514	ITMW-14-060514	ITMW-24-060314
			Sample Date	6/4/2014	6/10/2014	6/5/2014	6/5/2014	6/3/2014
			Sample Delivery Group	1479522	1480953	1479931	1479931	1479164
			Matrix	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Analytical Method	Parameter Name	Units	Filtered					
EPA 300.0	Chloride	mg/l	N	127	93	613 J+	29.5 J+	
EPA 300.0	Nitrate as nitrogen	ug/l	N	250 U	250 U	250 U	250 U	250 U
EPA 300.0	Sulfate	mg/l	N	1.5 U	33.7	2.4 J	1.5 U	
RSKSOP-175 modified	Ethane	ug/l	N	3.1 J	1 U	1 U	3.2 J	
RSKSOP-175 modified	Ethene	ug/l	N	1 U	1 U	1 U	1 U	
RSKSOP-175 modified	Methane	ug/l	N	5100	97	23	1500	
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	N	216000	278000	119000	124000	
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	N	57700	270	1000	3300	
SM 4500-S2 D-2000	Sulfide, Total	ug/l	N	77 J	54 U	54 U	54 U	
SW-846 6010C	Manganese	mg/l	N	2.45	0.382	2.04	3.95	
SW-846 8260C	Benzene	ug/l	N	220	1	0.9 J	0.5 U	
SW-846 8260C	Chlorobenzene	ug/l	N	340	1	54	59	
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	N	0.5 U	130	4	1	
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	N	0.5 U	140	0.5 U	2	
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	N	0.5 U	2	0.5 U	0.9 J	
SW8015D	CARBON DIOXIDE	ug/l	N	130000	27000	81000	70000	

Validated Laboratory Data
Chevron Beacon - 2nd Quarter 2014 Groundwater Sampling

			Location	ITMW-25	SWMW-2	SWMW-10	SWMW-13	SWMW-14
			Field Sample ID	ITMW-25-060514	SWMW-2-060614	SWMW-10-060314	SWMW-13-061014	SWMW-14-060614
			Sample Date	6/5/2014	6/6/2014	6/3/2014	6/10/2014	6/6/2014
			Sample Delivery Group	1479931	1480247	1479164	1480953	1480247
			Matrix	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Analytical Method	Parameter Name	Units	Filtered					
EPA 300.0	Chloride	mg/l	N	152 J+	700	158		234
EPA 300.0	Nitrate as nitrogen	ug/l	N	250 U	250 U	250 U	7100	4200 J+
EPA 300.0	Sulfate	mg/l	N	22	8.5 J+	2.5 J		88.4 J+
RSKSOP-175 modified	Ethane	ug/l	N	1 U	1 U	1 U		1 U
RSKSOP-175 modified	Ethene	ug/l	N	1 U	1 U	1 U		1 U
RSKSOP-175 modified	Methane	ug/l	N	99	110	74		3 U
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	N	284000	219000	334000		277000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	N	4100	4900	3300		10 U
SM 4500-S2 D-2000	Sulfide, Total	ug/l	N	54 U	54 U	54 U		54 U
SW-846 6010C	Manganese	mg/l	N	3.67	2.06	0.621		0.0067 J
SW-846 8260C	Benzene	ug/l	N	480	1	1		0.5 U
SW-846 8260C	Chlorobenzene	ug/l	N	77	130	190		0.5 U
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	N	0.5 U	2	2		2
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	N	0.5 U	0.5 U	1		22
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	N	0.5 U	3	0.5 U		0.5 U
SW8015D	CARBON DIOXIDE	ug/l	N	32000	66000	37000		25000

Validated Laboratory Data
Chevron Beacon - 2nd Quarter 2014 Groundwater Sampling

			Location	SWMW-15	SWMW-21	SWMW-25	SWMW-28	SWMW-30
			Field Sample ID	SWMW-15-061014	SWMW-21-060414	SWMW-25-060314	SWMW-28-060514	SWMW-30-060414
			Sample Date	6/10/2014	6/4/2014	6/3/2014	6/5/2014	6/4/2014
			Sample Delivery Group	1480953	1479522	1479164	1479931	1479522
			Matrix	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Analytical Method	Parameter Name	Units	Filtered					
EPA 300.0	Chloride	mg/l	N	54.7	76.8		268 J+	315
EPA 300.0	Nitrate as nitrogen	ug/l	N	250 U	250 U	590	250 U	250 U
EPA 300.0	Sulfate	mg/l	N	88.6	4.1 J		9.4	3.3 J
RSKSOP-175 modified	Ethane	ug/l	N	3.6 J	7.7		1.4 J	1.6 J
RSKSOP-175 modified	Ethene	ug/l	N	1 U	1 U		1 U	1 U
RSKSOP-175 modified	Methane	ug/l	N	2800	10000		1400	4000
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	N	292000	343000		209000	312000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	N	24000	20800		18800	13900
SM 4500-S2 D-2000	Sulfide, Total	ug/l	N	54 U	54 U		270 U	70 J
SW-846 6010C	Manganese	mg/l	N	5.75	12.7		1.98	2.53
SW-846 8260C	Benzene	ug/l	N	46	400		3	5
SW-846 8260C	Chlorobenzene	ug/l	N	260	1 U		22	0.9 J
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	N	4	1 J		0.5 U	0.5 U
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	N	2	1 U		0.5 U	0.5 U
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	N	2	1 U		0.5 U	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	N	87000	120000		37000	66000

Validated Laboratory Data
Chevron Beacon - 2nd Quarter 2014 Groundwater Sampling

			Location	SWMW-31	SWMW-41	SWMW-41	SWMW-44	SWMW-45
			Field Sample ID	SWMW-31-060414	SWMW-141-060614	SWMW-41-060614	SWMW-44-060314	SWMW-45-060514
			Sample Date	6/4/2014	6/6/2014	6/6/2014	6/3/2014	6/5/2014
			Sample Delivery Group	1479522	1480247	1480247	1479164	1479931
			Matrix	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Regular sample	Field Duplicate	Regular sample	Regular sample	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Analytical Method	Parameter Name	Units	Filtered					
EPA 300.0	Chloride	mg/l	N	148	228	224	156	89.4 J+
EPA 300.0	Nitrate as nitrogen	ug/l	N	250 U	250 U	250 U	250 U	420 J
EPA 300.0	Sulfate	mg/l	N	1.6 J	31.9 J+	31.5 J+	9.5	7
RSKSOP-175 modified	Ethane	ug/l	N	2.2 J	3.1 J	3 J	5.3	1 U
RSKSOP-175 modified	Ethene	ug/l	N	1 U	1 J	1 U	12	1 U
RSKSOP-175 modified	Methane	ug/l	N	4600	310	340	470	220
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	N	259000	267000	266000	309000	121000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	N	19400	150	120	480	2500
SM 4500-S2 D-2000	Sulfide, Total	ug/l	N	54 U	54 U	54 U	400	54 U
SW-846 6010C	Manganese	mg/l	N	3.33	0.23	0.239	0.957	1.42
SW-846 8260C	Benzene	ug/l	N	24	27	27	2	0.5 U
SW-846 8260C	Chlorobenzene	ug/l	N	3	5 U	4 J	250	53
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	N	0.5 U	370	380	39	0.5 U
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	N	0.5 U	210	210	170	0.5 U
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	N	0.5 U	32	30	15	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	N	71000	28000	29000	36000	39000

Validated Laboratory Data
Chevron Beacon - 2nd Quarter 2014 Groundwater Sampling

			Location	SWMW-48	SWMW-55	SWMW-56	SWMW-58	SWMW-62
			Field Sample ID	SWMW-48-060414	SWMW-55-060514	SWMW-56-061014	SWMW-58-061014	SWMW-62-060614
			Sample Date	6/4/2014	6/5/2014	6/10/2014	6/10/2014	6/6/2014
			Sample Delivery Group	1479522	1479931	1480953	1480953	1480247
			Matrix	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Analytical Method	Parameter Name	Units	Filtered					
EPA 300.0	Chloride	mg/l	N	221	89.5 J+	73.9	119	54.2
EPA 300.0	Nitrate as nitrogen	ug/l	N	250 U	470 J	250 U	8500	520 J+
EPA 300.0	Sulfate	mg/l	N	15.1	6.1	66.3	46.6	37.9 J+
RSKSOP-175 modified	Ethane	ug/l	N	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Ethene	ug/l	N	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	N	3 U	1700	3 U	3 U	3 U
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	N	227000	230000	290000	265000	235000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	N	1800	840	28 J	10 U	10 U
SM 4500-S2 D-2000	Sulfide, Total	ug/l	N	140 J	54 U	54 U	54 U	54 U
SW-846 6010C	Manganese	mg/l	N	0.506	3.58	0.0958	1.57	1.22
SW-846 8260C	Benzene	ug/l	N	0.5 U	3	1	0.5 U	0.5 U
SW-846 8260C	Chlorobenzene	ug/l	N	0.5 U	1800	0.8 J	0.5 U	0.5 U
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	N	0.5 U	1 U	130	40	4
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	N	0.5 U	1 U	300	28	7
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	N	0.5 U	1 U	4	0.5 U	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	N	24000	96000	27000	50000	32000

Validated Laboratory Data
Chevron Beacon - 2nd Quarter 2014 Groundwater Sampling

			Location	SWMW-65	SWMW-65	SWMW-66	SWMW-67	SWMW-68
			Field Sample ID	SWMW-165-060414	SWMW-65-060414	SWMW-66-061014	SWMW-67-061014	SWMW-68-061014
			Sample Date	6/4/2014	6/4/2014	6/10/2014	6/10/2014	6/10/2014
			Sample Delivery Group	1479522	1479522	1480953	1480953	1480953
			Matrix	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Field Duplicate	Regular sample	Regular sample	Regular sample	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Analytical Method	Parameter Name	Units	Filtered					
EPA 300.0	Chloride	mg/l	N	250	251	373	10.1	74
EPA 300.0	Nitrate as nitrogen	ug/l	N	320 J	250 U	680	3800	1100
EPA 300.0	Sulfate	mg/l	N	43.6	44	52	193	124
RSKSOP-175 modified	Ethane	ug/l	N	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Ethene	ug/l	N	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	N	3 U	3 U	18	3 U	3 U
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	N	188000	186000	213000	351000	265000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	N	270	89 J	10 U	10 U	10 U
SM 4500-S2 D-2000	Sulfide, Total	ug/l	N	54 U	54 U	54 U	54 U	54 U
SW-846 6010C	Manganese	mg/l	N	1.9	1.74	0.0702	0.103	0.189
SW-846 8260C	Benzene	ug/l	N	0.5 U	0.5 U	2	0.5 U	0.5 U
SW-846 8260C	Chlorobenzene	ug/l	N	1	0.9 J	2	0.5 U	0.5 U
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	N	0.5 U	0.5 U	800	0.5 U	65
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	N	0.5 U	0.5 U	250	100	370
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	N	0.5 U	0.5 U	54	0.5 U	3
SW8015D	CARBON DIOXIDE	ug/l	N	17000	18000	23000	52000	22000

Validated Laboratory Data
Chevron Beacon - 2nd Quarter 2014 Groundwater Sampling

			Location	SWMW-103	SWMW-111	SWMW-112	SWMW-113	SWMW-114
			Field Sample ID	SWMW-103-061014	SWMW-111-061014	SWMW-112-060614	SWMW-113-060614	SWMW-114-060514
			Sample Date	6/10/2014	6/10/2014	6/6/2014	6/6/2014	6/5/2014
			Sample Delivery Group	1480953	1480953	1480247	1480247	1479931
			Matrix	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Analytical Method	Parameter Name	Units	Filtered					
EPA 300.0	Chloride	mg/l	N		38.9	275	245	37 J+
EPA 300.0	Nitrate as nitrogen	ug/l	N	1400	1200	250 U	250 U	260 J
EPA 300.0	Sulfate	mg/l	N		33.3	34.4 J+	50.2 J+	15.7
RSKSOP-175 modified	Ethane	ug/l	N		1 U	1 U	1 U	1 U
RSKSOP-175 modified	Ethene	ug/l	N		1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	N		24	45	11	27
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	N		164000	253000	280000	146000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	N		49 J	81 J	10 U	87 J
SM 4500-S2 D-2000	Sulfide, Total	ug/l	N		54 U	54 U	54 U	54 U
SW-846 6010C	Manganese	mg/l	N		0.114	0.192	0.356	0.403
SW-846 8260C	Benzene	ug/l	N		0.5 U	2	0.5 U	0.5 U
SW-846 8260C	Chlorobenzene	ug/l	N		0.5 U	3	1	16
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	N		11	630	57	3
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	N		34	290	24	240
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	N		0.5 U	12	0.9 J	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	N		13000	25000	25000	18000

Validated Laboratory Data
Chevron Beacon - 2nd Quarter 2014 Groundwater Sampling

			Location	SWMW-123	SWMW-125	SWMW-126	Unknown Well 1	Unknown Well 2
			Field Sample ID	SWMW-123-060514	SWMW-125-060514	SWMW-126-060614	UNK-01-060414	UNK-02-060414
			Sample Date	6/5/2014	6/5/2014	6/6/2014	6/4/2014	6/4/2014
			Sample Delivery Group	1479931	1479931	1480247	1479522	1479522
			Matrix	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Analytical Method	Parameter Name	Units	Filtered					
EPA 300.0	Chloride	mg/l	N	98.4 J+	45.1 J+	211	79.8	74.9
EPA 300.0	Nitrate as nitrogen	ug/l	N	250 U	250 U	250 U	250 U	250 U
EPA 300.0	Sulfate	mg/l	N	24.9	4.7 J	25.4 J+	3.3 J	5.2
RSKSOP-175 modified	Ethane	ug/l	N	1 U	1.4 J	3.9 J	1 U	1 U
RSKSOP-175 modified	Ethene	ug/l	N	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	N	3 U	560	430	150	12
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	N	283000	149000	267000	110000	99200
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	N	130	1800	10 U	10600	10900
SM 4500-S2 D-2000	Sulfide, Total	ug/l	N	54 U	54 U	54 U	130 J	54 U
SW-846 6010C	Manganese	mg/l	N	0.0677	4.61	0.169	3.16	1.93
SW-846 8260C	Benzene	ug/l	N	0.5 U	5	3	0.5 U	0.5 U
SW-846 8260C	Chlorobenzene	ug/l	N	4	300	5	140	38
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	N	0.5 U	88	280	0.5 U	0.5 U
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	N	0.5 U	300	250	0.5 U	0.5 U
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	N	0.5 U	5	12	0.5 U	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	N	27000	43000	27000	76000	76000

Validated Laboratory Data
Chevron Beacon - 2nd Quarter 2014 Groundwater Sampling

			Location	Unknown Well 3	TB	TB	TB	TB	TB	TB
			Field Sample ID	UNK-03-060414	TB-060314	TB-060414-1	TB-060414-2	TB-060514	TB-060614	TB-061014
			Sample Date	6/4/2014	6/3/2014	6/4/2014	6/4/2014	6/5/2014	6/6/2014	6/10/2014
			Sample Delivery Group	1479522	1479164	1479522	1479522	1479931	1480247	1480953
			Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Regular sample	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
			Sample Type	Groundwater Sample	Blank Water	Blank Water	Blank Water	Blank Water	Blank Water	Blank Water
Analytical Method	Parameter Name	Units	Filtered							
EPA 300.0	Chloride	mg/l	N	87.8						
EPA 300.0	Nitrate as nitrogen	ug/l	N	250 U						
EPA 300.0	Sulfate	mg/l	N	3.8 J						
RSKSOP-175 modified	Ethane	ug/l	N	1 U						
RSKSOP-175 modified	Ethene	ug/l	N	1 U						
RSKSOP-175 modified	Methane	ug/l	N	85						
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	N	108000						
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	N	9100						
SM 4500-S2 D-2000	Sulfide, Total	ug/l	N	54 U						
SW-846 6010C	Manganese	mg/l	N	1.86						
SW-846 8260C	Benzene	ug/l	N	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
SW-846 8260C	Chlorobenzene	ug/l	N	4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	N	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	N	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	N	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	N	68000						

**DATA USABILITY SUMMARY REPORT
2014 3RD QUARTER GROUNDWATER SAMPLING**

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LIST OF ATTACHMENTS

ATTACHMENT A VALIDATED LABORATORY DATA

SECTION 1

DATA USABILITY SUMMARY

Groundwater samples were collected as part of the 2014 3rd Quarter sampling event from the Chevron Beacon site from September 16, 2014 through September 19, 2014. Analytical results from these samples were validated and reviewed by Parsons for usability with respect to the following requirements:

- Work Plan
- QAPP
- July 2005 NYSDEC Analytical Services Protocol (ASP)
- USEPA Region II Standard Operating Procedures (SOPs) for organic and inorganic data review

The analytical laboratory for this project was Eurofins Laboratories (Eurofins) in Lancaster, Pennsylvania. This laboratory is certified to conduct project analyses through the New York State Department of Health (NYSDOH) and the National Environmental Laboratory Accreditation Program (NELAP).

1.1 LABORATORY DATA PACKAGES

The laboratory data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons, was 25-28 days for the project samples.

The laboratory data packages received from Eurofins were paginated, complete, and overall were of good quality. Comments on specific quality control (QC) and other requirements are discussed in detail in the attached data validation report which is summarized in Section 2.

1.2 SAMPLING AND CHAIN-OF-CUSTODY

The samples were collected, properly preserved, shipped under a COC record, and received at Eurofins within one day of sampling. All samples were received intact and in good condition at Eurofins.

1.3 LABORATORY ANALYTICAL METHODS

The groundwater samples were collected from the site and analyzed for certain volatiles including methane, ethane, and ethene; manganese; ferrous iron; carbon dioxide; chloride; nitrate; sulfate; total alkalinity; and sulfide. Summaries of issues concerning these laboratory analyses are presented in Subsections 1.3.1 through 1.3.3. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, and comparability (PARCC) are discussed for each analytical

method in Section 2 of this Data Usability Summary Report (DUSR). A USEPA Stage 4 data validation (i.e., full data validation) was conducted by Parsons on 10% of the project samples with the remaining 90% of the project samples undergoing a USEPA Stage 2B data validation which provides data defensibility. The laboratory data were reviewed and may be qualified with the following validation flags:

- "U" - not detected at the value given,
- "UJ" - estimated and not detected at the value given,
- "J" - estimated at the value given,
- "J+" - estimated biased high at the value given,
- "J-" - estimated biased low at the value given,
- "N" - presumptive evidence at the value given, and
- "R" - unusable value.

The validated laboratory data were tabulated and are presented in Attachment A.

1.3.1 Volatile Organic Analysis

Groundwater samples collected from the site were analyzed for certain volatiles using the USEPA SW-846 8260C analytical method and for methane, ethane, and ethene using the USEPA approved SOP RSK-175 analytical method. Certain results for these samples were qualified as estimated based upon sample surrogate recoveries. The reported volatile analytical results were 100% complete (i.e., usable) for the data presented by Eurofins. PARCC requirements were met.

1.3.2 Metals Analysis

Groundwater samples collected from the site were analyzed for manganese and ferrous iron using the USEPA SW-846 6010C and SM3500 analytical methods, respectively. Certain reported results for these samples were qualified as estimated based upon field duplicate precision. The metals results were considered 100% complete (i.e., usable) for the data presented by Eurofins. PARCC requirements were met.

1.3.3 Wet Chemistry Analysis

Groundwater samples collected from the site were analyzed for carbon dioxide using the USEPA SW-846 8015D analytical method; nitrate, sulfate, and chloride using the USEPA 300.0 analytical method; total alkalinity using the SM2320B analytical method; and sulfide using the SM4500 analytical method. Certain reported results for these samples were qualified as estimated based upon matrix spike recoveries and laboratory duplicate precision. The wet chemistry results were considered 100% complete (i.e., usable) for the data presented by Eurofins. PARCC requirements were met.

SECTION 2

DATA VALIDATION REPORT

2.1 3RD QUARTER GROUNDWATER SAMPLES

Data review has been completed for data packages generated by Eurofins containing groundwater samples collected from the site. These samples were contained within sample delivery groups (SDGs) CBC66, CBC67, CBC68, and CBC69. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data were tabulated and are presented in Attachment A.

Data validation was performed for all samples in accordance with the project work plan, QAPP, NYSDEC ASP, and the USEPA Region II SOPs for organic and inorganic data review. This data validation and usability report is presented by analysis type.

2.1.1 Volatiles (Including Methane, Ethane, and Ethene)

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank and trip/equipment blank contamination
- GC/MS instrument performance
- Sample result verification and identification
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of surrogate recoveries and MS/MSD precision and accuracy as discussed below.

Surrogate Recoveries

All sample surrogate recoveries were considered acceptable and within QC limits with the exception of the low recovery for dibromofluoromethane (QC limit 80-116%R) in sample CVX-0032-13 (77%R). Therefore, the results for this sample were considered estimated, possibly biased low, with positive results qualified “J-” and nondetected results qualified “UJ”.

MS/MSD Precision and Accuracy

All precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements were considered acceptable and within QC limits for designated spiked project samples with the exception of the low MSD accuracy result for chlorobenzene (85%R; QC limit 87-124%R) during the spiked analyses of sample CVX-0032-05. Validation qualification of the parent sample was not required.

Usability

All volatile results for the groundwater samples were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The volatile data presented by Eurofins were 100% complete (i.e., usable). The validated laboratory data are tabulated and presented in Attachment A.

2.1.2 Manganese and Ferrous Iron

The following items were reviewed for compliancy in the manganese and ferrous iron analysis:

- Custody documentation
- Holding times
- Initial and continuing calibration verifications
- Initial and continuing calibration blank, laboratory preparation blank, and equipment blank contamination
- Matrix spike/matrix spike duplicate (MS/MSD) recoveries
- Laboratory duplicate precision
- Laboratory control sample (LCS) recoveries
- Serial dilutions
- Interference check sample recoveries
- Field duplicate precision

- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of field duplicate precision as discussed below.

Field Duplicate Precision

All field duplicate precision results were considered acceptable with the exception of the precision for manganese (68%RPD) and ferrous iron (82%RPD) associated with sample CVX-0032-01 and its field duplicate CVX-0032-07. Therefore, the manganese and ferrous iron results for these samples were considered estimated and qualified “J”.

Usability

All metals results for the groundwater samples were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The metals data for the groundwater samples presented by Eurofins were 100% complete (i.e., usable). The validated laboratory data are tabulated and presented in Attachment A.

2.1.3 Wet Chemistry

The following items were reviewed for compliancy in the wet chemistry analysis:

- Custody documentation
- Holding times
- Initial and continuing calibration verifications
- Initial and continuing calibration blank, laboratory preparation blank, and equipment blank contamination
- Matrix spike/matrix spike duplicate (MS/MSD) recoveries
- Laboratory duplicate precision
- Laboratory control sample (LCS) recoveries
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of matrix spike recoveries and laboratory duplicate precision as discussed below.

Matrix Spike Recoveries

All matrix spike recoveries were considered acceptable and within QC limits with the exception of the low matrix spike recovery for chloride (89%R; QC limit 90-110%R) associated with samples CVX-0030-03 and CVX-0033-01; and the high matrix spike recovery for chloride (121%R; QC limit 90-110%R) and the low matrix spike recovery for alkalinity (16%R; QC limit 17-146%R) associated with sample CVX-0032-05. Therefore, positive results for those analytes where matrix spike recoveries exceeded the QC limit were considered estimated, possibly biased high, and qualified “J+” for the affected samples. Results for those analytes where matrix spike recoveries fell below the QC limit were considered estimated, possibly biased low, with positive results qualified “J-” and nondetected results qualified “UJ” for the affected samples.

Laboratory Duplicate Precision

All laboratory duplicate precision results were considered acceptable and within QC limits with the exception of the laboratory duplicate precision for alkalinity associated with sample CVX-0032-05 (40%RPD; QC limit 0-20%RPD). Therefore, the alkalinity result for this sample was considered estimated and qualified “J”.

Usability

All wet chemistry results for the groundwater samples were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The wet chemistry data for the groundwater samples presented by Eurofins were 100% complete (i.e., usable). The validated laboratory data are tabulated and presented in Attachment A.

ATTACHMENT A

VALIDATED LABORATORY DATA

			Location	GT-2	ITMW-6	ITMW-6	ITMW-13	ITMW-25
			Field Sample ID	CVX-0030-02	CVX-0032-01	CVX-0032-07	CVX-0030-07	CVX-0031-01
			Sample Date	9/16/2014	9/18/2014	9/18/2014	9/16/2014	9/17/2014
			Sample Delivery Group	1503937	1504703	1504703	1503937	1504322
			Matrix	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Regular sample	Regular sample	Field Duplicate	Regular sample	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Analytical Method	Parameter Name	Units	Filtered					
EPA 300.0	Chloride	mg/l	N	91.8	78.9	73.2	446	149
EPA 300.0	Nitrate as nitrogen	ug/l	N	250 U	250 U	250 U	250 U	250 U
EPA 300.0	Sulfate	mg/l	N	2.6 J	47.3	45.3	3.5 J	13.8
RSKSOP-175 modified	Ethane	ug/l	N	5.5	1 U	1 U	1 J	1 U
RSKSOP-175 modified	Ethene	ug/l	N	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	N	3900	3 U	3 U	480	87
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	N	203000	254000	257000	222000	279000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	N	46800	360 J	150 J	6200	510
SM 4500-S2 D-2000	Sulfide, Total	ug/l	N	130 J	54 U	54 U	55 J	54 U
SW-846 6010C	Manganese	mg/l	N	1.77	1.39 J	0.688 J	3.72	3.3
SW-846 8260C	Benzene	ug/l	N	120	2	2	2	800
SW-846 8260C	Chlorobenzene	ug/l	N	300	0.7 J	0.7 J	240	110
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	N	0.5 U	80	83	0.5 U	0.5 U
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	N	0.5 U	19	21	0.5 U	0.5 U
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	N	0.5 U	0.6 J	0.7 J	0.5 U	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	N	120000	29000	27000	140000	33000

			Location	SWMW-2	SWMW-10	SWMW-14	SWMW-15	SWMW-21
			Field Sample ID	CVX-0030-06	CVX-0031-03	CVX-0032-14	CVX-0032-02	CVX-0033-03
			Sample Date	9/16/2014	9/17/2014	9/18/2014	9/18/2014	9/19/2014
			Sample Delivery Group	1503937	1504322	1504703	1504703	1504922
			Matrix	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Analytical Method	Parameter Name	Units	Filtered					
EPA 300.0	Chloride	mg/l	N	313	181	154	26.9	30.3
EPA 300.0	Nitrate as nitrogen	ug/l	N	250 U	250 U	4200	250 U	250 U
EPA 300.0	Sulfate	mg/l	N	4.8 J	1.9 J	96.6	132	1.9 J
RSKSOP-175 modified	Ethane	ug/l	N	2.3 J	9	1 U	5.6	20
RSKSOP-175 modified	Ethene	ug/l	N	1.1 J	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	N	520	2400	3 U	2900	12000
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	N	309000	462000	292000	700 U	319000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	N	3500	18300	18 J	67000	39000
SM 4500-S2 D-2000	Sulfide, Total	ug/l	N	57 J	54 U	54 U	1000	220 U
SW-846 6010C	Manganese	mg/l	N	1.39	1.85	0.0136	12.1	12.2
SW-846 8260C	Benzene	ug/l	N	1	1	0.5 U	27	250
SW-846 8260C	Chlorobenzene	ug/l	N	56	270	0.5 U	120	0.6 J
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	N	3	0.5 U	2	5	1
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	N	1	0.5 U	16	4	0.5 U
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	N	5	0.5 U	0.5 U	2	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	N	79000	71000	27000	82000	140000

			Location	SWMW-28	SWMW-30	SWMW-31	SWMW-41	SWMW-44
			Field Sample ID	CVX-0033-01	CVX-0033-04	CVX-0033-05	CVX-0032-13	CVX-0031-04
			Sample Date	9/19/2014	9/19/2014	9/19/2014	9/18/2014	9/17/2014
			Sample Delivery Group	1504922	1504922	1504922	1504703	1504322
			Matrix	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Analytical Method	Parameter Name	Units	Filtered					
EPA 300.0	Chloride	mg/l	N	273 J-	239	330	225	151
EPA 300.0	Nitrate as nitrogen	ug/l	N	250 U	250 U	250 U	250 U	250 U
EPA 300.0	Sulfate	mg/l	N	6.3	1.5 U	1.5 U	36.9	61.5
RSKSOP-175 modified	Ethane	ug/l	N	3.9 J	5.8	4.2 J	2.9 J	7.4
RSKSOP-175 modified	Ethene	ug/l	N	1 U	1 U	1 U	1 J	10
RSKSOP-175 modified	Methane	ug/l	N	1900	5300	3700	280	1000
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	N	223000	303000	286000	262000	416000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	N	22200	28800	19000	120	450
SM 4500-S2 D-2000	Sulfide, Total	ug/l	N	190	54 U	54 U	54 U	680
SW-846 6010C	Manganese	mg/l	N	2.41	2.91	4.27	0.239	0.788
SW-846 8260C	Benzene	ug/l	N	3	20	15	14 J-	1
SW-846 8260C	Chlorobenzene	ug/l	N	27	2	1	2 J-	240
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	N	0.5 U	0.5 U	0.5 U	270 J-	24
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	N	0.5 U	0.5 U	0.5 U	190 J-	79
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	N	0.5 U	0.5 U	0.5 U	20 J-	7
SW8015D	CARBON DIOXIDE	ug/l	N	36000	83000	80000	27000	54000

			Location	SWMW-45	SWMW-48	SWMW-55	SWMW-56	SWMW-58
			Field Sample ID	CVX-0030-08	CVX-0031-02	CVX-0030-09	CVX-0032-03	CVX-0032-04
			Sample Date	9/16/2014	9/17/2014	9/16/2014	9/18/2014	9/18/2014
			Sample Delivery Group	1503937	1504322	1503937	1504703	1504703
			Matrix	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Analytical Method	Parameter Name	Units	Filtered					
EPA 300.0	Chloride	mg/l	N	430	190	67.1	85.9	191
EPA 300.0	Nitrate as nitrogen	ug/l	N	250 U	250 U	250 U	250 U	8000
EPA 300.0	Sulfate	mg/l	N	1.5 U	2.4 J	2.5 J	77.5	74.2
RSKSOP-175 modified	Ethane	ug/l	N	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Ethene	ug/l	N	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	N	950	29	910	3 U	3 U
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	N	169000	317000	234000	274000	301000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	N	1100	1100	2400	45 J	73
SM 4500-S2 D-2000	Sulfide, Total	ug/l	N	54 U	54 U	54 U	54 U	54 U
SW-846 6010C	Manganese	mg/l	N	1.92	0.657	4.16	0.0752	1.14
SW-846 8260C	Benzene	ug/l	N	0.5 U	0.5 U	0.5 U	1	0.5 U
SW-846 8260C	Chlorobenzene	ug/l	N	70	12	290	0.9 J	0.5 U
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	N	0.5 U	0.5 U	0.5 U	140	37
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	N	0.5 U	0.5 U	0.5 U	290	26
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	N	0.5 U	0.5 U	0.5 U	3	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	N	74000	43000	110000	26000	56000

			Location	SWMW-62	SWMW-65	SWMW-66	SWMW-67	SWMW-68
			Field Sample ID	CVX-0032-12	CVX-0033-02	CVX-0032-05	CVX-0031-06	CVX-0032-06
			Sample Date	9/18/2014	9/19/2014	9/18/2014	9/17/2014	9/18/2014
			Sample Delivery Group	1504703	1504922	1504703	1504322	1504703
			Matrix	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Analytical Method	Parameter Name	Units	Filtered					
EPA 300.0	Chloride	mg/l	N	45.9	213	872	8.5	98
EPA 300.0	Nitrate as nitrogen	ug/l	N	500	300 J	1700	2200	700
EPA 300.0	Sulfate	mg/l	N	40.3	33.2	74.4 J+	184	119
RSKSOP-175 modified	Ethane	ug/l	N	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Ethene	ug/l	N	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	N	3 U	3 U	17	3 U	3 U
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	N	242000	210000	231000 J-	378000	237000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	N	10 U	780	63	81	10 U
SM 4500-S2 D-2000	Sulfide, Total	ug/l	N	54 U	54 U	54 U	54 U	54 U
SW-846 6010C	Manganese	mg/l	N	1.56	1.58	0.168	1.42	0.791
SW-846 8260C	Benzene	ug/l	N	0.5 U	0.5 U	1	0.5 U	0.5 U
SW-846 8260C	Chlorobenzene	ug/l	N	0.5 U	0.5 U	2	0.5 U	0.5 U
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	N	2	0.5 U	560	0.5 U	82
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	N	6	0.5 U	270	39	390
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	N	0.5 U	0.5 U	29	0.5 U	2
SW8015D	CARBON DIOXIDE	ug/l	N	49000	30000	28000	62000	20000

			Location	SWMW-111	SWMW-112	SWMW-113	SWMW-114	SWMW-123
			Field Sample ID	CVX-0031-07	CVX-0032-11	CVX-0032-08	CVX-0030-03	CVX-0031-05
			Sample Date	9/17/2014	9/18/2014	9/18/2014	9/16/2014	9/17/2014
			Sample Delivery Group	1504322	1504703	1504703	1503937	1504322
			Matrix	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Analytical Method	Parameter Name	Units	Filtered					
EPA 300.0	Chloride	mg/l	N	39.6	336	228	51.6 J-	108
EPA 300.0	Nitrate as nitrogen	ug/l	N	1300	250 U	250 U	340 J	260 J
EPA 300.0	Sulfate	mg/l	N	26.3	38.9	48.5	17.5	30.2
RSKSOP-175 modified	Ethane	ug/l	N	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Ethene	ug/l	N	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	N	5.4	7.8	3 U	24	3 U
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	N	161000	255000	286000	146000	263000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	N	120	92	10 U	10 U	77
SM 4500-S2 D-2000	Sulfide, Total	ug/l	N	54 U	54 U	54 U	54 U	54 U
SW-846 6010C	Manganese	mg/l	N	0.129	0.21	0.422	0.315	0.0192
SW-846 8260C	Benzene	ug/l	N	0.5 U	2	0.5 U	0.5 U	0.5 U
SW-846 8260C	Chlorobenzene	ug/l	N	0.5 U	3	1	10	1 J
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	N	5	560	24	3	0.5 U
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	N	16	240	8	240	0.5 U
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	N	0.5 U	10	0.5 U	0.5 U	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	N	14000	25000	28000	18000	21000

			Location	SWMW-125	SWMW-125	SWMW-126	Unknown Well 1	TB	TB
			Field Sample ID	CVX-0030-04	CVX-0030-05	CVX-0032-09	CVX-0030-01	CVX-0030-10	CVX-0031-08
			Sample Date	9/16/2014	9/16/2014	9/18/2014	9/16/2014	9/16/2014	9/17/2014
			Sample Delivery Group	1503937	1503937	1504703	1503937	1503937	1504322
			Matrix	WATER	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Regular sample	Field Duplicate	Regular sample	Regular sample	Trip Blank	Trip Blank
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Blank Water	Blank Water
Analytical Method	Parameter Name	Units	Filtered						
EPA 300.0	Chloride	mg/l	N	52.1	53.1	175	66.1		
EPA 300.0	Nitrate as nitrogen	ug/l	N	250	250 U	250 U	250 U		
EPA 300.0	Sulfate	mg/l	N	4.4 J	4.5 J	29.2	1.5 U		
RSKSOP-175 modified	Ethane	ug/l	N	1.4 J	1.3 J	3.2 J	1 U		
RSKSOP-175 modified	Ethene	ug/l	N	1.3 J	1.2 J	1 U	1 U		
RSKSOP-175 modified	Methane	ug/l	N	320	260	280	370		
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	N	166000	166000	267000	135000		
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	N	1600	1400	59	25900		
SM 4500-S2 D-2000	Sulfide, Total	ug/l	N	54 U	54 U	54 U	54 U		
SW-846 6010C	Manganese	mg/l	N	4.43	4.24	0.137	6.27		
SW-846 8260C	Benzene	ug/l	N	3	3	3	0.5 U	0.5 U	0.5
SW-846 8260C	Chlorobenzene	ug/l	N	260	220	3	160	0.5 U	0.5
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	N	110	96	210	0.5 U	0.5 U	0.5
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	N	270	230	230	0.5 U	0.5 U	0.5
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	N	6	5	8	0.5 U	0.5 U	0.5
SW8015D	CARBON DIOXIDE	ug/l	N	46000	51000	25000	140000		

			Location		TB	TB	TB
			Field Sample ID		CVX-0032-10	CVX-0032-15	CVX-0033-06
			Sample Date		9/18/2014	9/18/2014	9/19/2014
			Sample Delivery Group		1504703	1504703	1504922
			Matrix		WATER	WATER	WATER
			Sample Purpose		Trip Blank	Trip Blank	Trip Blank
			Sample Type		Blank Water	Blank Water	Blank Water
Analytical Method	Parameter Name	Units	Filtered				
EPA 300.0	Chloride	mg/l	N				
EPA 300.0	Nitrate as nitrogen	ug/l	N				
EPA 300.0	Sulfate	mg/l	N				
RSKSOP-175 modified	Ethane	ug/l	N				
RSKSOP-175 modified	Ethene	ug/l	N				
RSKSOP-175 modified	Methane	ug/l	N				
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	N				
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	N				
SM 4500-S2 D-2000	Sulfide, Total	ug/l	N				
SW-846 6010C	Manganese	mg/l	N				
SW-846 8260C	Benzene	ug/l	N	U	0.5 U	0.5 U	0.5 U
SW-846 8260C	Chlorobenzene	ug/l	N	U	0.5 U	0.5 U	0.5 U
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	N	U	0.5 U	0.5 U	0.5 U
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	N	U	0.5 U	0.5 U	0.5 U
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	N	U	0.5 U	0.5 U	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	N				

**DATA USABILITY SUMMARY REPORT
2014 4TH QUARTER GROUNDWATER SAMPLING**

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LIST OF ATTACHMENTS

ATTACHMENT A VALIDATED LABORATORY DATA

SECTION 1

DATA USABILITY SUMMARY

Groundwater samples were collected as part of the 2014 4th Quarter sampling event from the Chevron Beacon site from November 4, 2014 through November 11, 2014. Analytical results from these samples were validated and reviewed by Parsons for usability with respect to the following requirements:

- Work Plan
- QAPP
- July 2005 NYSDEC Analytical Services Protocol (ASP)
- USEPA Region II Standard Operating Procedures (SOPs) for organic and inorganic data review

The analytical laboratory for this project was Eurofins Laboratories (Eurofins) in Lancaster, Pennsylvania. This laboratory is certified to conduct project analyses through the New York State Department of Health (NYSDOH) and the National Environmental Laboratory Accreditation Program (NELAP).

1.1 LABORATORY DATA PACKAGES

The laboratory data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons, was 23-34 days for the project samples.

The laboratory data packages received from Eurofins were paginated, complete, and overall were of good quality. Comments on specific quality control (QC) and other requirements are discussed in detail in the attached data validation report which is summarized in Section 2.

1.2 SAMPLING AND CHAIN-OF-CUSTODY

The samples were collected, properly preserved, shipped under a COC record, and received at Eurofins within one day of sampling. All samples were received intact and in good condition at Eurofins.

1.3 LABORATORY ANALYTICAL METHODS

The groundwater samples were collected from the site and analyzed for certain volatiles including methane, ethane, and ethene; manganese; ferrous iron; carbon dioxide; chloride; nitrate; sulfate; total alkalinity; and sulfide. Summaries of issues concerning these laboratory analyses are presented in Subsections 1.3.1 through 1.3.3. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, and comparability (PARCC) are discussed for each analytical

method in Section 2 of this Data Usability Summary Report (DUSR). A USEPA Stage 4 data validation (i.e., full data validation) was conducted by Parsons on 10% of the project samples with the remaining 90% of the project samples undergoing a USEPA Stage 2B data validation which provides data defensibility. The laboratory data were reviewed and may be qualified with the following validation flags:

- "U" - not detected at the value given,
- "UJ" - estimated and not detected at the value given,
- "J" - estimated at the value given,
- "J+" - estimated biased high at the value given,
- "J-" - estimated biased low at the value given,
- "N" - presumptive evidence at the value given, and
- "R" - unusable value.

The validated laboratory data were tabulated and are presented in Attachment A.

1.3.1 Volatile Organic Analysis

Groundwater samples collected from the site were analyzed for certain volatiles using the USEPA SW-846 8260C analytical method and for methane, ethane, and ethene using the USEPA approved SOP RSK-175 analytical method. Certain results for these samples were qualified as estimated based upon sample holding times and field duplicate precision. The reported volatile analytical results were 100% complete (i.e., usable) for the data presented by Eurofins. PARCC requirements were met.

1.3.2 Metals Analysis

Groundwater samples collected from the site were analyzed for manganese and ferrous iron using the USEPA SW-846 6010C and SM3500 analytical methods, respectively. Certain reported results for these samples were qualified as estimated based upon matrix spike recoveries. The metals results were considered 100% complete (i.e., usable) for the data presented by Eurofins. PARCC requirements were met.

1.3.3 Wet Chemistry Analysis

Groundwater samples collected from the site were analyzed for carbon dioxide using the USEPA SW-846 8015D analytical method; nitrate, sulfate, and chloride using the USEPA 300.0 analytical method; total alkalinity using the SM2320B analytical method; and sulfide using the SM4500 analytical method. Certain reported results for these samples were qualified as estimated based upon matrix spike recoveries and laboratory duplicate precision. The wet chemistry results were considered 100% complete (i.e., usable) for the data presented by Eurofins. PARCC requirements were met.

SECTION 2

DATA VALIDATION REPORT

2.1 4TH QUARTER GROUNDWATER SAMPLES

Data review has been completed for data packages generated by Eurofins containing groundwater samples collected from the site. These samples were contained within sample delivery groups (SDGs) CBC71, CBC72, CBC73, CBC74, and CBC75. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data were tabulated and are presented in Attachment A.

Data validation was performed for all samples in accordance with the project work plan, QAPP, NYSDEC ASP, and the USEPA Region II SOPs for organic and inorganic data review. This data validation and usability report is presented by analysis type.

2.1.1 Volatiles (Including Methane, Ethane, and Ethene)

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank and trip blank contamination
- GC/MS instrument performance
- Sample result verification and identification
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of holding times, MS/MSD precision and accuracy, and field duplicate precision as discussed below.

Holding Times

All analytical holding times were within the 7-day holding time criteria for unpreserved samples with the exception of the holding time for the methane sample CVX-0034-04 which was exceeded by one day. Therefore, the positive methane result for this sample was considered estimated and qualified “J”.

MS/MSD Precision and Accuracy

All precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements were considered acceptable and within QC limits for designated spiked project samples with the exception of the high MS accuracy result for chlorobenzene (132%R; QC limit 87-124%R) during the spiked analyses of sample CVX-0034-01; and the low MS/MSD accuracy results for trichloroethene (77%R/77%R; QC limit 88-133%R) during the spiked analyses of sample CVX-0036-05. Validation qualification of the parent samples was not required.

Field Duplicate Precision

All field duplicate precision results were considered acceptable with the exception of the precision for methane (77%RPD) associated with sample CVX-0034-02 and its field duplicate CVX-0034-12. Therefore, the methane results for these samples were considered estimated and qualified “J”.

Usability

All volatile results for the groundwater samples were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The volatile data presented by Eurofins were 100% complete (i.e., usable). The validated laboratory data are tabulated and presented in Attachment A.

2.1.2 Manganese and Ferrous Iron

The following items were reviewed for compliancy in the manganese and ferrous iron analysis:

- Custody documentation
- Holding times
- Initial and continuing calibration verifications
- Initial and continuing calibration blank, and laboratory preparation blank contamination
- Matrix spike/matrix spike duplicate (MS/MSD) recoveries

- Laboratory duplicate precision
- Laboratory control sample (LCS) recoveries
- Serial dilutions
- Interference check sample recoveries
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of matrix spike recoveries as discussed below.

Matrix Spike Recoveries

All matrix spike recoveries were considered acceptable and within QC limits with the exception of the high MSD recovery for ferrous iron (112%R; QC limit 73-111%R) associated with sample CVX-0034-01; and the high MS/MSD recoveries for manganese (1087%R/828%R; QC limit 75-125%R) associated with sample CVX-0036-05. Therefore, the positive ferrous iron and manganese results for the associated parent sample were considered estimated, possibly biased high, and qualified “J+”.

Usability

All metals results for the groundwater samples were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The metals data for the groundwater samples presented by Eurofins were 100% complete (i.e., usable). The validated laboratory data are tabulated and presented in Attachment A.

2.1.3 Wet Chemistry

The following items were reviewed for compliancy in the wet chemistry analysis:

- Custody documentation
- Holding times
- Initial and continuing calibration verifications
- Initial and continuing calibration blank, and laboratory preparation blank contamination
- Matrix spike/matrix spike duplicate (MS/MSD) recoveries
- Laboratory duplicate precision

- Laboratory control sample (LCS) recoveries
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of blank contamination, matrix spike recoveries, and laboratory duplicate precision as discussed below.

Blank Contamination

The laboratory method blanks associated with samples in SDGs CBC73, CBC74, and CBC75 contained alkalinity below the reporting limit at concentrations of 0.85 and 0.94 mg/L. Validation qualification of the associated samples was not required.

Matrix Spike Recoveries

All matrix spike recoveries were considered acceptable and within QC limits with the exception of the low matrix spike recoveries for chloride (86%R; QC limit 90-110%R) and nitrate (85%R; QC limit 90-110%R) associated with sample CVX-0036-05; the low matrix spike recoveries for chloride (49%R; QC limit 90-110%R), nitrate (73%R; QC limit 90-110%R), and sulfate (68%R; QC limit 90-110%R) associated with sample CVX-0037-04; and the low matrix spike recovery for alkalinity (16%R; QC limit 17-148%R) associated with sample CVX-0037-02. Therefore, results for these analytes were considered estimated, possibly biased low, with positive results qualified “J-” and nondetected results qualified “UJ” for the affected samples.

Laboratory Duplicate Precision

All laboratory duplicate precision results were considered acceptable and within QC limits with the exception of the laboratory duplicate precision for nitrate (26%RPD; QC limit 0-20%RPD) associated with sample CVX-0036-05. Therefore, the nitrate result for this sample was considered estimated and qualified “J”.

Usability

All wet chemistry results for the groundwater samples were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The wet chemistry data for the groundwater samples presented by Eurofins were 100% complete (i.e., usable). The validated laboratory data are tabulated and presented in Attachment A.

ATTACHMENT A

VALIDATED LABORATORY DATA

			Location	GT-2	ITMW-6	ITMW-6	ITMW-13	ITMW-13
			Field Sample ID	CVX-0034-10	CVX-0035-09	CVX-0035-10	CVX-0034-02	CVX-0034-12
			Sample Date	11/4/2014	11/5/2014	11/5/2014	11/4/2014	11/4/2014
			Sample Delivery Group	1516213	1516585	1516585	1516213	1516213
			Sample Depth					
			Matrix	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Regular sample	Regular sample	Field Duplicate	Regular sample	Field Duplicate
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Analytical Method	Parameter Name	Units	Filtered					
EPA 300.0	Chloride	mg/l	N	81	121		422	433
EPA 300.0	Nitrate as nitrogen	ug/l	N	250 U	250 U		250 U	250 U
EPA 300.0	Sulfate	mg/l	N	2 J	45.7		15.3	15.5
RSKSOP-175 modified	Ethane	ug/l	N	3.2 J	1 U		1 U	1 U
RSKSOP-175 modified	Ethene	ug/l	N	1 U	1 U		1 U	1 U
RSKSOP-175 modified	Methane	ug/l	N	4300	120		6.2 J	14 J
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	N	214000	271000		178000	177000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	N	49400	680		1600	1800
SM 4500-S2 D-2000	Sulfide, Total	ug/l	N	54 U	54 U	54 U	54 U	
SW-846 6010C	Manganese	mg/l	N	2.12	0.78		2.88	2.89
SW-846 8260C	Benzene	ug/l	N	160	1		0.5 U	0.5 U
SW-846 8260C	Chlorobenzene	ug/l	N	330	0.5 U		36	38
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	N	0.5 U	46		0.5 U	0.5 U
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	N	0.5 U	20		0.5 U	0.5 U
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	N	0.5 U	1		0.5 U	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	N	120000	23000		120000	120000

			Location	ITMW-25	SWMW-2	SWMW-10	SWMW-14	SWMW-15
			Field Sample ID	CVX-0035-01	CVX-0034-01	CVX-0035-02	CVX-0037-01	CVX-0036-01
			Sample Date	11/5/2014	11/4/2014	11/5/2014	11/7/2014	11/6/2014
			Sample Delivery Group	1516585	1516213	1516585	1517227	1516918
			Sample Depth					
			Matrix	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Analytical Method	Parameter Name	Units	Filtered					
EPA 300.0	Chloride	mg/l	N	146	153	160	123	41.1
EPA 300.0	Nitrate as nitrogen	ug/l	N	250 U	250 U	250 U	3700	250 U
EPA 300.0	Sulfate	mg/l	N	21.6	15	3.5 J	62.3	106
RSKSOP-175 modified	Ethane	ug/l	N	1 U	1 U	9.6	1 U	1 U
RSKSOP-175 modified	Ethene	ug/l	N	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	N	470	86	3900	3 U	430
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	N	290000	318000	493000	301000	338000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	N	700	4300 J+	1900	10 U	9600
SM 4500-S2 D-2000	Sulfide, Total	ug/l	N	54 U	54 U	100 J	54 U	54 U
SW-846 6010C	Manganese	mg/l	N	3.64	1.43	0.892	0.0983	4.29
SW-846 8260C	Benzene	ug/l	N	850	0.6 J	1	0.5 U	9
SW-846 8260C	Chlorobenzene	ug/l	N	200	93	280	0.5 U	150
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	N	0.5 U	4	0.5 U	1	6
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	N	0.5 U	2	0.5 U	14	4
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	N	0.5 U	3	0.5 U	0.5 U	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	N	34000	80000	59000	24000	92000

			Location	SWMW-21	SWMW-28	SWMW-30	SWMW-31	SWMW-41
			Field Sample ID	CVX-0038-01	CVX-0035-03	CVX-0038-02	CVX-0038-03	CVX-0037-02
			Sample Date	11/11/2014	11/5/2014	11/11/2014	11/11/2014	11/7/2014
			Sample Delivery Group	1517915	1516585	1517915	1517915	1517227
			Sample Depth					
			Matrix	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Analytical Method	Parameter Name	Units	Filtered					
EPA 300.0	Chloride	mg/l	N	39.8	269	225	228	204
EPA 300.0	Nitrate as nitrogen	ug/l	N	250 U	250 U	250 U	250 U	250 U
EPA 300.0	Sulfate	mg/l	N	2.2 J	9.6	1.5 U	1.5 U	29.8
RSKSOP-175 modified	Ethane	ug/l	N	9.6	2.1 J	3.6 J	3.8 J	2.3 J
RSKSOP-175 modified	Ethene	ug/l	N	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	N	10000	1900	6000	4900	210
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	N	346000	230000	339000	318000	285000 J-
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	N	33500	30400	18300	23100	23 J
SM 4500-S2 D-2000	Sulfide, Total	ug/l	N	54 U	380 J	54 U	54 U	54 U
SW-846 6010C	Manganese	mg/l	N	12.1	3.12	3.15	3.76	0.218
SW-846 8260C	Benzene	ug/l	N	270	3	18	29	18
SW-846 8260C	Chlorobenzene	ug/l	N	0.5 U	25	2	4	3 U
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	N	0.9 J	0.5 U	0.5 U	0.5 U	230
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	N	0.5 U	0.5 U	0.5 U	0.5 U	180
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	N	0.5 U	0.5 U	0.5 U	0.5 U	20
SW8015D	CARBON DIOXIDE	ug/l	N	140000	35000	85000	91000	29000

			Location	SWMW-44	SWMW-45	SWMW-48	SWMW-55	SWMW-56
			Field Sample ID	CVX-0035-05	CVX-0034-03	CVX-0035-04	CVX-0034-04	CVX-0036-02
			Sample Date	11/5/2014	11/4/2014	11/5/2014	11/4/2014	11/6/2014
			Sample Delivery Group	1516585	1516213	1516585	1516213	1516918
			Sample Depth					
			Matrix	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Analytical Method	Parameter Name	Units	Filtered					
EPA 300.0	Chloride	mg/l	N	156	293	179	70.6	83.4
EPA 300.0	Nitrate as nitrogen	ug/l	N	250 U	250 U	250 U	450 J	250 U
EPA 300.0	Sulfate	mg/l	N	27.7	1.5 U	37.1	11	73.5
RSKSOP-175 modified	Ethane	ug/l	N	7.8	1 U	1	1 U	1 U
RSKSOP-175 modified	Ethene	ug/l	N	8.3	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	N	1700	680	88	730 J	4.3 J
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	N	454000	361000	296000	287000	288000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	N	490	4000	1800	960	180
SM 4500-S2 D-2000	Sulfide, Total	ug/l	N	54 U	54 U	54 U	54 U	54 U
SW-846 6010C	Manganese	mg/l	N	0.951	2.53	0.782	3.5	0.0887
SW-846 8260C	Benzene	ug/l	N	1	0.5 J	0.5 U	2	1
SW-846 8260C	Chlorobenzene	ug/l	N	270	82	21	1300	0.7 J
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	N	35	0.5 U	0.5 U	0.5 U	170
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	N	170	0.5 U	0.5 U	0.5 U	290
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	N	11	0.5 U	0.5 U	0.5 U	4
SW8015D	CARBON DIOXIDE	ug/l	N	54000	100000	46000	100000	22000

			Location	SWMW-58	SWMW-58	SWMW-62	SWMW-65	SWMW-66
			Field Sample ID	CVX-0036-03	CVX-0036-08	CVX-0037-03	CVX-0035-06	CVX-0036-04
			Sample Date	11/6/2014	11/6/2014	11/7/2014	11/5/2014	11/6/2014
			Sample Delivery Group	1516918	1516918	1517227	1516585	1516918
			Sample Depth					
			Matrix	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Regular sample	Field Duplicate	Regular sample	Regular sample	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Analytical Method	Parameter Name	Units	Filtered					
EPA 300.0	Chloride	mg/l	N	95.8	137	40.2	177	1020
EPA 300.0	Nitrate as nitrogen	ug/l	N	7600	7500	610	510	2200
EPA 300.0	Sulfate	mg/l	N	43.5	49.8	33.6	26.9	74.3
RSKSOP-175 modified	Ethane	ug/l	N	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Ethene	ug/l	N	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	N	3 U	3 U	3 U	3 U	4.6 J
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	N	309000	306000	275000	240000	256000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	N	10 U	10 U	34 J	10 U	13 J
SM 4500-S2 D-2000	Sulfide, Total	ug/l	N	54 U	54 U	54 U	54 U	54 U
SW-846 6010C	Manganese	mg/l	N	0.711	0.838	2.59	2.82	0.0829
SW-846 8260C	Benzene	ug/l	N	0.5 U	0.5 U	0.5 U	0.5 U	0.8 J
SW-846 8260C	Chlorobenzene	ug/l	N	0.5 U	0.5 U	0.5 U	3	1 J
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	N	43	42	1 J	0.5 U	440
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	N	28	27	4	0.5 U	250
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	N	0.5 U	0.5 U	0.5 U	0.5 U	11
SW8015D	CARBON DIOXIDE	ug/l	N	50000	43000	39000	32000	35000

			Location	SWMW-67	SWMW-68	SWMW-111	SWMW-112	SWMW-113
			Field Sample ID	CVX-0036-05	CVX-0036-06	CVX-0035-08	CVX-0037-04	CVX-0037-05
			Sample Date	11/6/2014	11/6/2014	11/5/2014	11/7/2014	11/7/2014
			Sample Delivery Group	1516918	1516918	1516585	1517227	1517227
			Sample Depth					
			Matrix	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Analytical Method	Parameter Name	Units	Filtered					
EPA 300.0	Chloride	mg/l	N	7.9 J-	83.5	156	292 J-	127
EPA 300.0	Nitrate as nitrogen	ug/l	N	1100 J	640	2700	250 UJ	250 U
EPA 300.0	Sulfate	mg/l	N	131	110	138	29.6 J-	43.4
RSKSOP-175 modified	Ethane	ug/l	N	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Ethene	ug/l	N	1 U	1 U	1 U	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	N	3 U	3 U	3.1 J	3 U	39
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	N	375000	251000	324000	272000	309000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	N	10 U	10 U	10 U	98	64
SM 4500-S2 D-2000	Sulfide, Total	ug/l	N	54 U	54 U	54 U	54 U	54 U
SW-846 6010C	Manganese	mg/l	N	0.464 J+	0.0692	0.138	0.189	0.35
SW-846 8260C	Benzene	ug/l	N	0.5 U	0.5 U	0.5 U	2	0.5 U
SW-846 8260C	Chlorobenzene	ug/l	N	0.5 U	0.5 U	0.5 U	3	2
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	N	0.5 U	76	6	500	15
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	N	61	390	43	230	9
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	N	0.5 U	1	0.5 U	7	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	N	56000	16000	51000	28000	32000

			Location	SWMW-114	SWMW-123	SWMW-125	SWMW-126	Unknown Well 1
			Field Sample ID	CVX-0034-05	CVX-0034-06	CVX-0034-07	CVX-0037-06	CVX-0034-08
			Sample Date	11/4/2014	11/4/2014	11/4/2014	11/7/2014	11/4/2014
			Sample Delivery Group	1516213	1516213	1516213	1517227	1516213
			Sample Depth					
			Matrix	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Analytical Method	Parameter Name	Units	Filtered					
EPA 300.0	Chloride	mg/l	N	62.5	106	67.7	181	62.4
EPA 300.0	Nitrate as nitrogen	ug/l	N	450 J	250 U	250 U	250 U	250 U
EPA 300.0	Sulfate	mg/l	N	17.7	19.2	5.6	21.9	1.5 U
RSKSOP-175 modified	Ethane	ug/l	N	1 U	1 U	1.9 J	2.3 J	1 U
RSKSOP-175 modified	Ethene	ug/l	N	1 U	1 U	1.5 J	1 U	1 U
RSKSOP-175 modified	Methane	ug/l	N	21	70	790	170	35
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	N	146000	287000	152000	288000	143000
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	N	10 U	23 J	1600	70	15700
SM 4500-S2 D-2000	Sulfide, Total	ug/l	N	54 U	54 U	54 U	54 U	54 U
SW-846 6010C	Manganese	mg/l	N	0.535	0.218	5.35	0.135	5.47
SW-846 8260C	Benzene	ug/l	N	0.5 U	0.6 J	3	3	0.5 U
SW-846 8260C	Chlorobenzene	ug/l	N	12	69	290	3	150
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	N	3	0.5 U	100	200	0.6 J
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	N	260	0.5 U	260	260	0.5 J
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	N	0.5 U	0.5 U	7	7	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	N	17000	37000	62000	25000	120000

			Location	Unknown Well 2	TB	TB	TB	TB	TB
			Field Sample ID	CVX-0034-09	CVX-0034-11	CVX-0035-07	CVX-0036-07	CVX-0037-07	CVX-0038-04
			Sample Date	11/4/2014	11/4/2014	11/5/2014	11/6/2014	11/7/2014	11/11/2014
			Sample Delivery Group	1516213	1516213	1516585	1516918	1517227	1517915
			Sample Depth						
			Matrix	WATER	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Regular sample	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
			Sample Type	Groundwater Sample	Blank Water	Blank Water	Blank Water	Blank Water	Blank Water
Analytical Method	Parameter Name	Units	Filtered						
EPA 300.0	Chloride	mg/l	N	166					
EPA 300.0	Nitrate as nitrogen	ug/l	N	370 J					
EPA 300.0	Sulfate	mg/l	N	7.2					
RSKSOP-175 modified	Ethane	ug/l	N	1 U					
RSKSOP-175 modified	Ethene	ug/l	N	1 U					
RSKSOP-175 modified	Methane	ug/l	N	3 U					
SM 2320 B-1997	Alkalinity (Total)	ugCaCO3/L	N						
SM 3500-Fe B modified-1997	Ferrous Iron	ug/l	N						
SM 4500-S2 D-2000	Sulfide, Total	ug/l	N						
SW-846 6010C	Manganese	mg/l	N						
SW-846 8260C	Benzene	ug/l	N	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
SW-846 8260C	Chlorobenzene	ug/l	N	22	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
SW-846 8260C	cis-1,2-Dichloroethene	ug/l	N	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
SW-846 8260C	Trichloroethene (Trichloroethylene)	ug/l	N	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
SW-846 8260C	Vinyl chloride (Chloroethene)	ug/l	N	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
SW8015D	CARBON DIOXIDE	ug/l	N	130000					

APPENDIX B

GROUNDWATER SAMPLING RECORDS
(MARCH, JUNE, SEPTEMBER, AND NOVEMBER 2014)
2014 QUARTERLY SAMPLING EVENTS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

A kowalczk

E paccia

Well ID:

GT-2

Email Submit

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

4.11

Depth to Well Bottom (ft):

8.22

Date:

2014-03-18



Time:

16:30

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
09:47	4.11	Na	Na	Na	12.00	Na	Na	Na	-11.8	Well head = 0.0 ppm
16:35	Na	Na	0.5	6.31	10.76	297	0.905	4.52	-6	
16:40	Na	Na	1.0	6.34	11.71	187	0.890	4.63	-27	
16:43	Na	Na	1.5	6.33	12.54	122	0.885	4.53	-40	
16:48	Na	Na	2.0	6.48	13.13	61.6	0.891	4.88	-47	
1412	Na	Na	Na	Na	3.11	Na	Na	Na	-84.7	Post sample data-3-19-14

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-19



Time:

13:45

Total Volume of Water Purged:

2

(gal)

HORIBA	
pH	5.93
DO (mg/L)	6.55
Turbidity (NTU)	40.6
Spec. Cond. (mS/cm)	0.860
Temp.(°C)	4.69
ORP (mv)	-50

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	300

SAMPLE SET				
Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

2 gal bailed on 3-18-14
Hach ferrous Fe = 2.4 mg/L
No HCL for VOCs and VHH

cDCE	☒	3- 40 mL vials	HCl	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

A kowalczk

E paccia

Well ID:

ITMW-5

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

12.38

Depth to Well Bottom (ft):

28.95

Date:

2014-03-27



Time:

07:55

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
08:05	12.38	Na	Na	Na	4.75	Na	Na	Na	173.3	Wellhead pid= 0.0 ppm
08:01	Na	Na	2	6.70	5.63	Na	0.560	8.97	145.0	
08:11	Na	Na	4	6.63	6.27	Na	0.569	10.67	153.3	
08:19	Na	Na	6	6.81	6.15	Na	0.568	12.08	136.6	
08:47	Na	Na	8	7.07	3.64	Na	0.627	11.04	-4.3	Well dry at 8 gallons purged
09:43	16.37	Na	Na	Na	6.37	Na	Na	Na	62.4	Wellhead pid= 0.0 ppm

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-28



Time:

09:00

Total Volume of Water Purged:

8

(gal)

HORIBA	
pH	6.81
DO (mg/L)	8.73
Turbidity (NTU)	0
Spec. Cond. (mS/cm)	0.702
Temp.(°C)	11.52
ORP (mv)	58.5

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	280

SAMPLE SET				
Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

Hach ferrous Fe = 0.2 mg/L

No HCl preservative in VOA vials.

cDCE	☒	3- 40 mL vials	HCl	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

A kowalczk

E paccia

Well ID:

ITMW-6

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

21.02

Depth to Well Bottom (ft):

48

Date:

2014-03-26



Time:

16:40

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
08:10	21.02	Na	Na	Na	0.48	Na	Na	Na	132.1	Wellhead pid = 0.0 ppm
16:51	Na	Na	3	7.24	5.41	800	0.780	10.99	27	
17:00	Na	Na	6	7.30	5.35	559	0.900	10.98	-10	
17:09	Na	Na	9	7.20	5.26	421	0.901	9.90	-9	
17:20	Na	Na	13	7.14	5.58	240	0.962	9.85	-33	
11:50	21.80	Na	Na	Na	2.09	Na	Na	Na	16.9	Wellhead pid= 0.0 ppm

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-27



Time:

11:45

Total Volume of Water Purged:

13

(gal)

HORIBA	
pH	7.36
DO (mg/L)	3.56
Turbidity (NTU)	0
Spec. Cond. (mS/cm)	0.858
Temp.(°C)	12.30
ORP (mv)	52.5

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	300

SAMPLE SET				
Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

Hach ferrous Fe = 0.2 mg/L

No HCl preservative in VOA vials.

cDCE	☒	3- 40 mL vials	HCl	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

E. Paccia

A. Kowalczyk

Well ID:

ITMW-13

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

7.6

Depth to Well Bottom (ft):

20

Date:

2014-03-18



Time:

14:30

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
1125	7.60	Na	Na	Na	1.27	Na	Na	Na	-24.9	Well head = 0.0 ppm
1432	Na	Na	1	6.20	23.61	18.8	5.32	7.19	32	
1438	Na	Na	2	6.26	11.46	26.1	35	7.46	36	
1458	Na	Na	5.5	6.50	11.78	85	4.81	6.50	40	Purged well dry
1453	Na	Na	Na	Na	1.54	Na	Na	Na	20.1	Post sample data - 3-19-14

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-19



Time:

10:45

Total Volume of Water Purged:

5.5

(gal)

HORIBA	
pH	5.76
DO (mg/L)	7.41
Turbidity (NTU)	1.4
Spec. Cond. (mS/cm)	4.93
Temp.(°C)	5.72
ORP (mv)	105

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	80

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

Hach ferrous Fe = 1.8 mg/L
No hcl in vocs and vhh

cDCE	☒	3- 40 mL vials	HCl	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

A. Kowalczyk

E. Paccia

Well ID:

ITMW-14

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

5.45

Depth to Well Bottom (ft):

6.55

Purging Data

Method:

Disposable bailer & rope

Date:

2014-03-18



Time:

1052

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
10:52	5.45	Na	Na	Na	Na	Na	Na	Na	Na	Well head = 45.9 ppm

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-18



Time:

Total Volume of Water Purged:

(gal)

HORIBA

pH	
DO (mg/L)	
Turbidity (NTU)	
Spec. Cond. (mS/cm)	
Temp.(°C)	
ORP (mv)	

HACH TEST KITS

Phenol alkalinity (mg/L)	
Methyl alkalinity (mg/L)	

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☐	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☐	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☐	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☐	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☐	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☐	2- 40 mL vials	N/A	EPA 300.0
Manganese	☐	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☐	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☐	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☐	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☐	250 mL poly or 2 40 mL vials	N/A	
Chloride	☐	2- 40 mL vials	N/A	EPA 300.0
cDCE	☐	3- 40 mL vials	HCl	SW-846 8260

Comments:

Napl present at 4.59 bgs. Dtw at 5.45 bgs. Napl thickness 0.86 feet. Well not sampled, but Napl sample collected for finger printing.

TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☐	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☐	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☐	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

Andrew Kowalczyk

Ellen Paccia

Well ID:

ITMW-24

Manual Entry:

Email Submit

Well Diameter: 4

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

6.74

Depth to Well Bottom (ft):

13.11

Date:

2014-03-21



Time:

09:10

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
08:15	6.74	Na	Na	Na	2.85	Na	Na	Na	-0.5	Wellhead pid = 0.0 ppm
09:20	Na	Na	4	6.38	7.77	800	1.29	4.97	34	
09:36	Na	Na	7	6.76	6.05	800	1.28	6.29	-12	
09:44	Na	Na	10	6.57	6.27	800	1.27	5.85	9	
09:51	Na	Na	13	6.45	8.71	800	1.30	5.69	18	
08:29	7.06	Na	Na	Na	2.31	Na	Na	Na	-68.7	Final readings, Wellhead pid = 0.9

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-25



Time:

08:20

Total Volume of Water Purged:

13

(gal)

HORIBA	
pH	6.29
DO (mg/L)	7.80
Turbidity (NTU)	258
Spec. Cond. (mS/cm)	1.23
Temp.(°C)	5.78
ORP (mv)	133

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	160

SAMPLE SET				
Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

Hach ferrous Fe = 1.2 mg/l
No hcl in vocs and vhh

cDCE	☒	3- 40 mL vials	HCl	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

Andrew Kowalczk

Ellen Paccia

Well ID:

ITMW-25

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

10.24

Depth to Well Bottom (ft):

24.8

Purging Data

Method:

Disposable bailer & rope

Date:

2014-03-21



Time:

09:15

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
08:10	10.24	Na	Na	Na	1.50	Na	Na	Na	-80.3	Wellhead pid = 4.1 ppm
09:25	Na	Na	2	6.61	5.77	0.0	1.19	7.11	0	
09:33	Na	Na	4	6.99	7.39	0.0	1.17	7.57	-34	
10:30	Na	Na	6	6.70	8.15	0.0	1.15	7.65	42	
10:45	Na	Na	7	6.96	7.23	0.0	1.18	8.04	-11	Well ran dry at 7 gallons purged
11:20	14.77	Na	Na	Na	4.52	Na	Na	Na	-27.0	Final well readings. Pid= 5.6 ppm

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-25



Time:

11:00

Total Volume of Water Purged:

7

(gal)

HORIBA	
pH	7.02
DO (mg/L)	9.41
Turbidity (NTU)	11.4
Spec. Cond. (mS/cm)	1.09
Temp.(°C)	7.96
ORP (mv)	71

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	320

SAMPLE SET				
Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

No hcl in vocs and vhh
Hach ferrous Fe = 0.2

cDCE	☒	3- 40 mL vials	HCl	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

A kowalczk

E paccia

Well ID:

ITMW-30

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

6.86

Depth to Well Bottom (ft):

40

Date:

2014-03-19



Time:

09:00

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
15:48	6.86	Na	Na	Na	0.82	Na	Na	Na	-48	Wellhead pid = 17.9 ppm
9:13	Na	Na	4.00	5.64	5.25	11.9	0.389	8.15	142	
9:32	Na	Na	8.00	6.48	7.17	0.0	0.357	9.62	61	
9:46	Na	Na	12.00	6.38	5.32	0.0	0.352	10.82	29	
10:08	Na	Na	17.00	6.35	5.42	21.1	0.356	11.70	26	
16:10	5.36	Na	Na	Na	3.83	Na	Na	Na	8.1	Final well reading-3-20-14

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-20



Time:

14:45

Total Volume of Water Purged:

17

(gal)

HORIBA	
pH	6.44
DO (mg/L)	6.73
Turbidity (NTU)	0
Spec. Cond. (mS/cm)	0.342
Temp.(°C)	10.25
ORP (mv)	76

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	160

SAMPLE SET				
Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

Hach ferrous Fe= 0.6 mg/L
No hcl in vocs and vhh

cDCE	☒	3- 40 mL vials	HCl	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

ITMW-31

Email Submit

Samplers:

A kowalczk

E paccia

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Purging Data

Method:

Disposable bailer & rope

Initial Depth to Water (ft):

6.02

Depth to Well Bottom (ft):

40

Date:

2014-03-19



Time:

10:15

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
15:50	6.02	Na	Na	Na	1.00	Na	Na	Na	-99.3	Wellhead pid = 40.1 ppm
10:24	Na	Na	4	6.33	6.53	67.1	0.230	10.34	14	
10:42	Na	Na	8	6.49	4.91	2.1	0.235	10.77	-19	
10:51	Na	Na	12	6.44	6.15	35.4	0.240	10.01	-12	
11:04	Na	Na	16	6.45	4.85	0.0	0.256	10.18	-21	
11:14	Na	Na	18	6.41	5.20	7.4	0.244	9.82	-24	
16:15	3.70	Na	Na	Na	1.74	Na	Na	Na	-82.6	Final well readings-3-20-14

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-20



Time:

15:10

Total Volume of Water Purged:

18

(gal)

HORIBA	
pH	6.45
DO (mg/L)	8.51
Turbidity (NTU)	2.2
Spec. Cond. (mS/cm)	0.249
Temp.(°C)	7.81
ORP (mv)	7

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	100

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	

Comments:

Hach ferrous Fe = 1.8 mg/L
No hcl in vocs and vhh

Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	HCl	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

A. Kowalczk

E. Paccia

Well ID:

SWMW-2

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

4.85

Depth to Well Bottom (ft):

23.6

Date:

2014-03-18



Time:

16:35

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
10:05	4.85	Na	Na	Na	2.08	Na	Na	Na	10.8	Well head =0.0 ppm
16:45	Na	Na	1.5	6.06	13.72	207	3.68	5.62	-15	
16:54	Na	Na	4.5	6.29	11.93	193	3.33	6.34	-33	
17:02	Na	Na	7.5	6.37	13.86	376	3.30	6.80	-5	
17:09	Na	Na	9.5	6.47	14.40	489	3.07	5.70	7	
1420	Na	Na	Na	Na	2.32	Na	Na	Na	-18.4	Post sample data- 3-19-14

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-19



Time:

13:15

Total Volume of Water Purged:

9.5

(gal)

HORIBA	
pH	5.77
DO (mg/L)	9.28
Turbidity (NTU)	2.5
Spec. Cond. (mS/cm)	3.20
Temp.(°C)	5.37
ORP (mv)	52

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	220

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

9.5 gal bailed 3-18-14
Hach ferrous Fe = 2.0 mg/L
No HCL for VOCs and VHH
Extra volume for metals collected

cDCE	☒	3- 40 mL vials	HCl	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

Andrew Kowalczyk

Ellen Paccia

Well ID:

SWMW-10

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

3.08

Depth to Well Bottom (ft):

9

Date:

2014-03-21



Time:

08:40

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
08:07	9	Na	Na	Na	2.13	Na	Na	Na	-67.4	Wellhead pid = 142.1 ppm
08:44	Na	Na	0.75	6.85	6.42	267	1.55	7.35	33	
08:51	Na	Na	1.5	6.90	6.46	135	1.57	7.15	-4	
08:57	Na	Na	2.25	6.94	6.57	204	1.59	7.35	-21	
09:03	Na	Na	3	6.94	5.88	426	1.60	7.22	-28	
10:32	3.36	Na	Na	Na	1.52	Na	Na	Na	-59.2	Final readings, Wellhead pid = 30.5

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-25



Time:

10:10

Total Volume of Water Purged:

3

(gal)

HORIBA	
pH	6.73
DO (mg/L)	5.91
Turbidity (NTU)	0
Spec. Cond. (mS/cm)	1.50
Temp.(°C)	6.16
ORP (mv)	41

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	340

SAMPLE SET				
Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

Hach Ferrous Fe = 1.2 mg/l
 No hcl in vocs and vhh
 Resampled for sulfide on 3-26-14 due to breakage

cDCE	☒	3- 40 mL vials	HCl	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

Andrew Kowalczyk

Ellen Paccia

Well ID:

SWMW-13

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

46.96

Depth to Well Bottom (ft):

73.5

Date:

2014-03-21



Time:

11:50

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
10:20	46.96	Na	Na	Na	4.80	Na	Na	Na	14.7	Wellhead pid = 0.0 ppm
11:58	Na	Na	3	6.76	7.01	161	2.19	10.71	2.19	
13:14	Na	Na	6	6.98	7.33	155	2.50	10.80	126	
13:17	Na	Na	9	7.0	7.53	47.7	2.54	11.85	114	
13:22	Na	Na	13	6.99	7.04	9.5	2.54	12.48	112	
14:57	46.82	Na	Na	Na	5.55	Na	Na	Na	17.8	Final well readings. Pid= 0.0 ppm

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-25



Time:

14:40

Total Volume of Water Purged:

13

(gal)

HORIBA	
pH	6.96
DO (mg/L)	7.72
Turbidity (NTU)	194
Spec. Cond. (mS/cm)	2.25
Temp.(°C)	11.06
ORP (mv)	94

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	400

SAMPLE SET				
Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

Hach ferrous Fe = 0 mg/l
No hcl in vocs and vhh

cDCE	☒	3- 40 mL vials	HCl	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-14

Email Submit

Samplers:

A kowalczk

E paccia

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

8.87

Depth to Well Bottom (ft):

40

Purging Data

Method:

Disposable bailer & rope

Date:

2014-03-26



Time:

15:00

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
10:00	8.87	Na	Na	Na	0.92	Na	Na	Na	98.7	wellhead pid = 1.8 ppm
15:16	Na	Na	4	7.29	8.77	630	1.24	11.18	42	
15:27	Na	Na	8	7.25	6.11	800	1.34	11.34	87	
15:48	Na	Na	11	7.11	6.29	800	1.36	10.30	132	Well ran dry at 11 gallons purged
16:05	12.56	Na	Na	Na	2.00	Na	Na	Na	106.0	Wellhead pid = 0.0 ppm

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-27



Time:

16:00

Total Volume of Water Purged:

11

(gal)

HORIBA	
pH	7.26
DO (mg/L)	4.94
Turbidity (NTU)	0
Spec. Cond. (mS/cm)	1.205
Temp.(°C)	9.95
ORP (mv)	102.5

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	320

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

Hach ferrous Fe = 0 mg/L

No HCl preservative in VOA vials.

cDCE



3- 40 mL vials

HCl

SW-846 8260

TAL Metals



500 mL poly

N/A

California
Oxygenates



3- 40 mL vials

HCl

Ethene



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Ethane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Methane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

A kowalczk

E paccia

Well ID:

SWMW-15

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

14.6

Depth to Well Bottom (ft):

25

Date:

2014-03-27



Time:

08:25

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
08:20	14.60	Na	Na	Na	0.76	Na	Na	Na	-85.7	Wellhead pid= 370.9 ppm
08:30	Na	Na	1.5	6.60	1.96	Na	0.929	9.49	-44.2	
08:35	Na	Na	3	6.78	1.88	Na	0.883	10.74	-58.4	
09:01	Na	Na	4.5	6.93	5.16	Na	0.882	10.15	-49.3	Well dry at 4.5 gallons purged
09:20	15.54	Na	Na	Na	0.43	Na	Na	Na	-24.4	Wellhead pid= 303.1 ppm

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-28



Time:

08:45

Total Volume of Water Purged:

4.5

(gal)

HORIBA	
pH	6.49
DO (mg/L)	0.96
Turbidity (NTU)	0
Spec. Cond. (mS/cm)	0.876
Temp.(°C)	10.15
ORP (mv)	15.1

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	320

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

Hach ferrous Fe = 1.4 mg/L

No HCl preservative in VOA vials.

cDCE



3- 40 mL vials

HCl

SW-846 8260

TAL Metals



500 mL poly

N/A

California
Oxygenates



3- 40 mL vials

HCl

Ethene



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Ethane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Methane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

E. Paccia

A. Kowalczk

Well ID:

SWMW-21

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

5.6

Depth to Well Bottom (ft):

12

Purging Data

Method:

Disposable bailer & rope

Date:

2014-03-25



Time:

1015

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
1015	5.6	Na	Na	Na	1.13	Na	Na	Na	-75.7	Wellhead pid = 381.1 ppm
17:23	Na	Na	1	6.49	1.62	Na	0.770	8.19	-69.1	
17:31	Na	Na	2	6.56	1.20	Na	0.905	8.77	-62.9	
17:39	Na	Na	3.5	6.64	2.42	Na	1.016	8.44	-62.7	
11:10	5.80	Na	Na	Na	0.41	Na	Na	Na	-73.3	Wellhead pid = 907.1 ppm

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-28



Time:

11:10

Total Volume of Water Purged:

3.5

(gal)

HORIBA	
pH	6.54
DO (mg/L)	3.02
Turbidity (NTU)	0
Spec. Cond. (mS/cm)	0.836
Temp.(°C)	7.25
ORP (mv)	-60.2

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	440

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

No hcl in Vocs and vhh

Hatch ferrous Fe= 1.2 mg/l

cDCE	☒	3- 40 mL vials	HCl	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

Andrew Kowalczyk

Ellen Paccia

Well ID:

SWMW-25

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

3.5

Depth to Well Bottom (ft):

10.5

Date:

2014-03-21



Time:

16:40

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
08:17	3.50	Na	Na	Na	1.99	Na	Na	Na	32.3	Wellhead pid = 0.0 ppm
16:45	Na	Na	1	6.96	5.58	150	0.862	6.86	132	
16:49	Na	Na	2	6.85	5.66	65.3	0.860	6.58	131	
16:51	Na	Na	3	6.82	5.51	28.4	0.856	6.72	130	
16:54	Na	Na	4	6.81	5.46	16.3	0.865	6.83	129	
10:12	4.03	Na	Na	Na	1.57	Na	Na	Na	86.3	Final readings, Wellhead pid = 0.0

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-25



Time:

08:50

Total Volume of Water Purged:

4

(gal)

HORIBA	
pH	5.96
DO (mg/L)	7.04
Turbidity (NTU)	4.2
Spec. Cond. (mS/cm)	0.871
Temp.(°C)	4.85
ORP (mv)	185

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	120

SAMPLE SET				
Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

Hach ferrous Fe = 0 mg/L

No hcl in vocs and vhh

MS/MSD sample taken

cDCE



3- 40 mL vials

HCl

SW-846 8260

TAL Metals



500 mL poly

N/A

California
Oxygenates



3- 40 mL vials

HCl

Ethene



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Ethane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Methane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

Andrew Kowalczk

Ellen Paccia

Well ID:

SWMW-28

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

9.14

Depth to Well Bottom (ft):

16.5

Date:

2014-03-21



Time:

11:00

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
09:58	9.14	Na	Na	Na	1.08	Na	Na	Na	-126.7	Wellhead pid = 0.0 ppm
11:03	Na	Na	1	6.85	5.44	674	1.41	6.60	-30	
11:06	Na	Na	2	6.95	5.61	564	1.34	6.87	-49	
11:10	Na	Na	3	7.04	5.25	800	1.42	7.33	-71	
11:13	Na	Na	4	7.06	5.99	796	1.31	7.33	-78	
14:15	10.06	Na	Na	Na	1.15	Na	Na	Na	-49.7	Final well readings. Pid= 10.0 ppm

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-25



Time:

14:10

Total Volume of Water Purged:

4

(gal)

HORIBA	
pH	7.07
DO (mg/L)	5.69
Turbidity (NTU)	201
Spec. Cond. (mS/cm)	1.26
Temp.(°C)	8.37
ORP (mv)	-80

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	260

SAMPLE SET				
Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

Hach ferrous Fe = 2 mg/l
No hcl in vocs and vhh

cDCE	☒	3- 40 mL vials	HCl	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

E. Paccia

A. Kowalczk

Well ID:

SWMW-30

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

8

Depth to Well Bottom (ft):

14.78

Date:

2014-03-25



Time:

1005

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
1005	8	Na	Na	Na	1.60	Na	Na	Na	-111.9	Wellhead paid = 0.0 ppm
14:54	Na	Na	1	6.79	4.41	Na	1.126	6.74	-75.5	
17:00	Na	Na	2	6.75	3.47	Na	0.896	6.55	-71.5	
17:13	Na	Na	3	6.70	2.22	Na	0.816	6.45	-73.0	
17:17	Na	Na	4	6.68	2.51	Na	0.797	6.31	-72.4	
10:40	8.21	Na	Na	Na	0.46	Na	Na	Na	-81.1	Wellhead pid = 0.0 ppm

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-28



Time:

10:40

Total Volume of Water Purged:

4

(gal)

HORIBA	
pH	6.74
DO (mg/L)	2.12
Turbidity (NTU)	0
Spec. Cond. (mS/cm)	0.764
Temp.(°C)	6.06
ORP (mv)	-69.5

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	280

SAMPLE SET				
Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

No hcl in vocs and vhh
Hatch ferrous Fe = 1.2 mg/L

cDCE	☒	3- 40 mL vials	HCl	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

E. Paccia

A kowalczk

Well ID:

SWMW-31

Manual Entry:

Email Submit

Well Diameter: 4

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

6.35

Depth to Well Bottom (ft):

11.2

Date:

2014-03-25



Time:

1000

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
1000	6.35	Na	Na	Na	1.69	Na	Na	Na	63.7	Wellhead paid = 0 ppm
16:52	Na	Na	2.5	6.94	3.87	Na	0.917	6.50	-78.6	
16:58	Na	Na	5	6.78	3.44	Na	0.958	6.69	-74.9	
17:04	Na	Na	7.5	6.75	2.84	Na	0.950	6.49	-73.7	
17:07	Na	Na	10	6.77	2.72	Na	0.962	6.60	-77.5	
10:55	6.55	Na	Na	Na	0.40	Na	Na	Na	-93.1	Wellhead pid = 0.0 ppm.

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-28



Time:

10:55

Total Volume of Water Purged:

10

(gal)

HORIBA	
pH	6.8
DO (mg/L)	3.54
Turbidity (NTU)	0
Spec. Cond. (mS/cm)	0.956
Temp.(°C)	6.62
ORP (mv)	-87.7

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	380

SAMPLE SET				
Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

No hcl in vocs and vhh

Hach ferrous Fe= 1.2 mg/l

cDCE



3- 40 mL vials

HCl

SW-846 8260

TAL Metals



500 mL poly

N/A

California
Oxygenates



3- 40 mL vials

HCl

Ethene



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Ethane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Methane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

A kowalczk

E paccia

Well ID:

SWMW-41

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

8.31

Depth to Well Bottom (ft):

45

Date:

2014-03-26



Time:

14:00

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
09:45	8.31	Na	Na	Na	0.81	Na	Na	Na	55.0	Wellhead pid = 25.0 ppm
14:16	Na	Na	4	6.93	5.67	165	1.32	10.19	178	
14:27	Na	Na	8	7.16	4.82	800	1.37	11.08	-1	
14:44	Na	Na	12	7.22	5.90	800	1.37	10.61	-1	
14:52	Na	Na	16	7.19	4.86	800	1.36	11.23	-9	
15:04	Na	Na	18	7.23	5.64	634	1.36	10.92	-12	
15:30	9.80	Na	Na	Na	0.72	Na	Na	Na	45.1	Wellhead pid= 1.8 ppm

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-27



Time:

15:00

Total Volume of Water Purged:

18

(gal)

HORIBA	
pH	7.09
DO (mg/L)	3.60
Turbidity (NTU)	0
Spec. Cond. (mS/cm)	1.207
Temp.(°C)	10.82
ORP (mv)	99.1

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	320

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	

Comments:

Hach ferrous Fe = 0 mg/L

No HCl preservative in VOA vials.

Chloride



2- 40 mL vials

N/A

EPA 300.0

cDCE



3- 40 mL vials

HCl

SW-846 8260

TAL Metals



500 mL poly

N/A

California
Oxygenates



3- 40 mL vials

HCl

Ethene



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Ethane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Methane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

Andrew Kowalczyk

Ellen Paccia

Well ID:

SWMW-44

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

3.25

Depth to Well Bottom (ft):

30

Date:

2014-03-21



Time:

08:15

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
08:00	3.25	Na	Na	Na	2.40	Na	Na	Na	-61.0	Wellhead pid = 31.0 ppm
08:36	Na	Na	3	6.76	6.02	0.0	1.44	7.99	60	
08:48	Na	Na	7	6.89	6.14	5.0	1.47	8.33	5	
08:54	Na	Na	10	6.84	6.29	7.1	1.49	8.17	-5	
09:00	Na	Na	13	6.84	5.88	6.2	1.50	8.10	-18	
10:43	3.52	Na	Na	Na	0.9	Na	Na	Na	-78.1	Final readings, Wellhead pid = 7.1

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-25



Time:

10:15

Total Volume of Water Purged:

13

(gal)

HORIBA	
pH	6.88
DO (mg/L)	5.53
Turbidity (NTU)	0
Spec. Cond. (mS/cm)	1.32
Temp.(°C)	8.57
ORP (mv)	-15

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	320

SAMPLE SET				
Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

Hach ferrous Fe = 1.4 mg/l

No hcl in vocs and vhh

Additional 500 ml metals volume collected

cDCE



3- 40 mL vials

HCl

SW-846 8260

TAL Metals



500 mL poly

N/A

California
Oxygenates



3- 40 mL vials

HCl

Ethene



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Ethane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Methane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-45

Email Submit

Samplers:

A kowalczk

E paccia

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Purging Data

Method:

Disposable bailer & rope

Initial Depth to Water (ft):

12.14

Depth to Well Bottom (ft):

31

Date:

2014-03-19



Time:

16:50

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
15:39	12.14	Na	Na	Na	1.60	Na	Na	Na	-16.7	Well head pid= 2.9 ppm
17:00	Na	Na	2.0	5.82	6.15	191	1.01	9.99	153	
17:08	Na	Na	4.0	5.74	5.80	177	1.41	11.07	31	
17:19	Na	Na	6.0	5.81	6.67	164	1.59	11.85	-1	
17:31	Na	Na	8.0	5.77	8.14	87.5	1.70	11.25	6	
17:46	Na	Na	10.0	5.98	6.44	34.8	1.66	11.60	-12	
16:38	11.10	Na	Na	Na	3.16	Na	Na	Na	-5.4	Final well reading -3-20-14

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-20



Time:

13:45

Total Volume of Water Purged:

10

(gal)

HORIBA	
pH	6.55
DO (mg/L)	8.90
Turbidity (NTU)	6.8
Spec. Cond. (mS/cm)	0.722
Temp.(°C)	9.80
ORP (mv)	143

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	120

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	

Comments:

Additional 500 ml volume collected for metals sample.
No hcl in vocs and vhh

Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	HCl	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

Andrew Kowalczk

Ellen Paccia

Well ID:

SWMW-48

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

6.07

Depth to Well Bottom (ft):

10

Purging Data

Method:

Disposable bailer & rope

Date:

2014-03-21



Time:

10:00

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
08:18	6.07	Na	Na	Na	1.88	Na	Na	Na	-79.6	Wellhead pid = 0.0 ppm
10:03	Na	Na	0.5	6.81	6.65	506	3.23	4.87	4	
10:40	Na	Na	1.25	6.85	6.51	568	3.39	5.14	6	Well ran dry after 1.5 gal purged
12:04	14.77	Na	Na	Na	3.68	Na	Na	Na	-45.2	Final well readings. Pid = 0.0 ppm

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-25



Time:

11:45

Total Volume of Water Purged:

1.5

(gal)

HORIBA	
pH	6.88
DO (mg/L)	8.02
Turbidity (NTU)	199
Spec. Cond. (mS/cm)	2.95
Temp.(°C)	6.10
ORP (mv)	106

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	280

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	HCl	SW-846 8260

Comments:

Hach ferrous Fe = 0.4 mg/L
No hcl in vocs and vhh

TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

A kowalczk

E paccia

Well ID:

SWMW-55

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

13.91

Depth to Well Bottom (ft):

20

Date:

2014-03-19



Time:

16:50

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
15:42	13.91	Na	Na	Na	6.07	Na	Na	Na	30.2	Wellhead pid= 0.0 ppm
16:58	Na	Na	0.75	5.80	8.81	116	0.847	8.34	173	
17:05	Na	Na	1.5	5.85	7.54	540	0.703	9.38	66	
17:25	Na	Na	2.25	5.96	8.75	126	0.669	10.14	2	
17:36	Na	Na	3.0	6.00	6.31	45.5	0.696	9.97	1	
16:00	13.69	Na	Na	Na	3.37	Na	Na	Na	-25.6	Final well readings on 3-20-14

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-20



Time:

14:15

Total Volume of Water Purged:

3

(gal)

HORIBA	
pH	6.58
DO (mg/L)	9.44
Turbidity (NTU)	13.8
Spec. Cond. (mS/cm)	0.309
Temp.(°C)	10.90
ORP (mv)	148

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	140

SAMPLE SET				
Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

Hach ferrous Fe= 0.0 mg/L
No hcl in vocs and vhh

cDCE	☒	3- 40 mL vials	HCl	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

A kowalczk

E paccia

Well ID:

SWMW-56

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

19.45

Depth to Well Bottom (ft):

55

Purging Data

Method:

Submersible pump w/ dedicated tubing

Date:

2014-03-27



Time:

08:05

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
08:15	19.45	Na	Na	Na	0.46	Na	Na	Na	-5.8	Wellhead pid= 3.4 ppm
08:15	Na	Na	5	7.09	4.20	Na	0.834	12.31	128.6	
08:51	Na	Na	10	7.28	3.02	Na	0.862	12.46	-13.3	Well dry at 11 gallons purged
09:00	23.75	Na	Na	Na	1.36	Na	Na	Na	51.1	Wellhead pid = 3.8 ppm

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-28



Time:

08:30

Total Volume of Water Purged:

10

(gal)

HORIBA	
pH	7.22
DO (mg/L)	3.16
Turbidity (NTU)	0
Spec. Cond. (mS/cm)	0.911
Temp.(°C)	12.20
ORP (mv)	146.3

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	360

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	HCl	SW-846 8260

Comments:

Hach ferrous Fe = 0 mg/L

No HCl preservative in VOA vials.

TAL Metals



500 mL poly

N/A

California
Oxygenates



3- 40 mL vials

HCl

Ethene



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Ethane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Methane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

A kowalczk

E paccia

Well ID:

SWMW-58

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

12.36

Depth to Well Bottom (ft):

30

Date:

2014-03-26



Time:

16:15

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
08:30	12.36	Na	Na	Na	1.90	Na	Na	Na	61.3	Wellhead pid= 14.5 ppm
16:23	Na	Na	2	6.77	5.65	242	1.73	9.76	136	
16:27	Na	Na	4	6.90	5.38	800	1.61	10.81	120	
16:34	Na	Na	6	6.94	5.34	800	1.58	11.35	113	
16:42	Na	Na	8.5	6.99	5.02	800	1.57	11.38	67	
10:41	19.89	Na	Na	Na	2.81	Na	Na	Na	168.6	Wellhead pid= 0 ppm

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-27



Time:

10:30

Total Volume of Water Purged:

8.5

(gal)

HORIBA	
pH	6.8
DO (mg/L)	6.89
Turbidity (NTU)	0
Spec. Cond. (mS/cm)	1.117
Temp.(°C)	10.07
ORP (mv)	169.1

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	260

SAMPLE SET				
Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

Hach ferrous Fe = 0 mg/L

No HCl preservative in VOA vials.

cDCE



3- 40 mL vials

HCl

SW-846 8260

TAL Metals



500 mL poly

N/A

California
Oxygenates



3- 40 mL vials

HCl

Ethene



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Ethane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Methane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-62

Email Submit

Samplers:

Ellen Paccia

Andrew Kowalczk

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Purging Data

Method:

Disposable bailer & rope

Initial Depth to Water (ft):

8.37

Depth to Well Bottom (ft):

19

Date:

2014-03-26



Time:

11:55

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
09:50	8.37	Na	Na	Na	1.05	Na	Na	Na	98.5	Wellhead pid= 0.8 ppm
12:08	Na	Na	1.5	7.01	5.82	800	0.823	8.55	61	
12:16	Na	Na	3.5	7.10	7.29	800	0.815	9.16	53	
12:37	Na	Na	4.5	7.23	7.47	800	0.835	9.16	50	Well dry at 4.5 gal
15:10	10.43	Na	Na	Na	3.45	Na	Na	Na	176.5	Wellhead pid = 0.0

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-27



Time:

14:45

Total Volume of Water Purged:

4.5 (gal)

HORIBA	
pH	6.97
DO (mg/L)	5.71
Turbidity (NTU)	0
Spec. Cond. (mS/cm)	0.719
Temp.(°C)	9.62
ORP (mv)	177.6

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	300

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

Hach ferrous Fe = 0 mg/L

No HCl preservative in VOA vials.

cDCE



3- 40 mL vials

HCl

SW-846 8260

TAL Metals



500 mL poly

N/A

California
Oxygenates



3- 40 mL vials

HCl

Ethene



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Ethane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Methane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

Andrew Kowalczyk

Ellen Paccia

Well ID:

SWMW-65

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

8.14

Depth to Well Bottom (ft):

16

Date:

2014-03-21



Time:

11:00

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
09:58	8.14	Na	Na	Na	1.20	Na	Na	Na	14.0	Wellhead pid = 0.0 ppm
11:08	Na	Na	1	6.91	5.67	0	8.81	7.52	-36	
11:15	Na	Na	2	6.98	5.48	0.0	9.32	7.76	-51	
11:20	Na	Na	3	6.93	5.62	0.0	10.1	7.65	-32	
11:24	Na	Na	4	6.90	5.45	0.0	7.10	7.92	-14	
13:45	9.35	Na	Na	Na	5.68	Na	Na	Na	66.9	Final well readings. Pid= 0.0 ppm

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-25



Time:

13:40

Total Volume of Water Purged:

4

(gal)

HORIBA	
pH	6.9
DO (mg/L)	9.16
Turbidity (NTU)	0
Spec. Cond. (mS/cm)	2.89
Temp.(°C)	7.68
ORP (mv)	158

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	200

SAMPLE SET				
Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

Hach ferrous Fe = 0 mg/l
No hcl in vocs and vhh

cDCE	☒	3- 40 mL vials	HCl	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

A kowalczk

E paccia

Well ID:

SWMW-66

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

18.6

Depth to Well Bottom (ft):

62

Date:

2014-03-26



Time:

16:15

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
08:35	18.60	Na	Na	Na	1.93	Na	Na	Na	71.3	Wellhead pid= 9.6 ppm
16:30	Na	Na	6	7.16	5.96	657	1.22	12.18	106	
16:39	Na	Na	11	7.11	6.37	800	2.85	11.66	52	
16:55	Na	Na	16	7.07	7.43	800	2.79	11.82	40	
17:13	Na	Na	21	7.01	5.47	407	2.76	11.88	20	Well purged dry at 22 gallons
11:09	22.70	Na	Na	Na	1.84	Na	Na	Na	182.2	Wellhead pid= 2.3 ppm

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-27



Time:

10:15

Total Volume of Water Purged:

22

(gal)

HORIBA	
pH	6.94
DO (mg/L)	4.07
Turbidity (NTU)	0
Spec. Cond. (mS/cm)	2.329
Temp.(°C)	12.33
ORP (mv)	179.5

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	280

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

Hach ferrous Fe = 0 mg/L

No HCl preservative in VOA vials.

cDCE



3- 40 mL vials

HCl

SW-846 8260

TAL Metals



500 mL poly

N/A

California
Oxygenates



3- 40 mL vials

HCl

Ethene



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Ethane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Methane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

Andrew Kowalczk

Ellen Paccia

Well ID:

SWMW-67

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

11.6

Depth to Well Bottom (ft):

28.64

Date:

2014-03-21



Time:

14:00

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
10:42	11.60	Na	Na	Na	8.72	Na	Na	Na	63.8	Wellhead pid= 0.0 ppm
14:04	Na	Na	2	6.95	7.92	800	1.10	8.40	139	
14:09	Na	Na	4	7.01	7.81	800	1.10	9.52	118	
14:15	Na	Na	6	6.97	7.02	800	1.14	10.69	107	Well went dry at 6.5 gal
15:41	16.74	Na	Na	Na	7.42	Na	Na	Na	74.8	Final well readings. Pid= 0.0 ppm

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-25



Time:

15:25

Total Volume of Water Purged:

6

(gal)

HORIBA	
pH	6.94
DO (mg/L)	9.42
Turbidity (NTU)	453
Spec. Cond. (mS/cm)	1.03
Temp.(°C)	8.37
ORP (mv)	147

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	320

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

Hach ferrous Fe = 0 mg/L
No hcl in vocs and vhh

cDCE	☒	3- 40 mL vials	HCl	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

A kowalczk

E paccia

Well ID:

SWMW-68

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

23.45

Depth to Well Bottom (ft):

53.62

Date:

2014-03-21



Time:

14:00

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
10:42	23.45	Na	Na	Na	0.96	Na	Na	Na	68.0	Wellhead pid= 0.2 ppm
14:06	Na	Na	4	7.23	4.46	250	0.980	11.63	106	
14:13	Na	Na	8	7.16	4.87	624	0.979	11.0	98	
14:22	Na	Na	12	7.22	5.00	660	1.04	12.44	70	
14:33	Na	Na	15	7.27	6.45	800	1.02	12.46	76	Well went dry at 15 gal
15:52	26.22	Na	Na	Na	5.27	Na	Na	Na	43.4	Final well readings. Pid= 1.7 ppm

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-25



Time:

15:35

Total Volume of Water Purged:

15

(gal)

HORIBA	
pH	7.17
DO (mg/L)	7.76
Turbidity (NTU)	24.1
Spec. Cond. (mS/cm)	0.944
Temp.(°C)	9.86
ORP (mv)	131

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	320

SAMPLE SET				
Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

Hach ferrous Fe = 0 mg/l

No hcl in vocs and vhh

Additional 500 ml volume for metals collected

cDCE



3- 40 mL vials

HCl

SW-846 8260

TAL Metals



500 mL poly

N/A

California
Oxygenates



3- 40 mL vials

HCl

Ethene



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Ethane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Methane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

E. Paccia

A. Kowalczk

Well ID:

SWMW-71

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

6.94

Depth to Well Bottom (ft):

15.9

Date:

2014-03-25



Time:

0955

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
0955	6.94	Na	Na	Na	1.36	Na	Na	Na	-77.9	Wellhead pid = 0.0 ppm
17:25	Na	Na	1	6.57	5.59	Na	0.899	5.67	-48.7	
17:36	Na	Na	2	6.59	2.71	Na	1.023	6.26	-65.6	
17:45	Na	Na	3	6.60	3.59	Na	1.039	6.24	-67.9	
17:49	Na	Na	4.5	6.55	3.26	Na	0.998	5.81	-67.7	
10:25	7.91	Na	Na	Na	1.16	Na	Na	Na	-59.3	Wellhead pid = 0.0 ppm

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-28



Time:

10:25

Total Volume of Water Purged:

4.5

(gal)

HORIBA	
pH	6.62
DO (mg/L)	3.13
Turbidity (NTU)	0
Spec. Cond. (mS/cm)	0.970
Temp.(°C)	5.49
ORP (mv)	-66.1

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	340

SAMPLE SET				
Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

No hcl in vocs and vhh

Hach ferrous Fe = 1.8 mg/L

cDCE	☒	3- 40 mL vials	HCl	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

A kowalczk

E paccia

Well ID:

SWMW-103

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

19.72

Depth to Well Bottom (ft):

64.8

Purging Data

Method:

Disposable bailer & rope

Date:

2014-03-21



Time:

16:00

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
10:53	19.72	Na	Na	Na	3.82	Na	Na	Na	27.8	Wellhead pid= 0.0 ppm
16:09	Na	Na	5	7.47	7.24	71.1	0.598	11.66	117	
16:30	Na	Na	10	7.13	6.04	298	1.42	11.56	109	Well dry at 10 gal
16:55	25.13	Na	Na	Na	2.55	Na	Na	Na	59.5	Final well readings. Pid= 0.1 ppm

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-25



Time:

16:50

Total Volume of Water Purged:

10

(gal)

HORIBA	
pH	7.22
DO (mg/L)	7.79
Turbidity (NTU)	0
Spec. Cond. (mS/cm)	1.33
Temp.(°C)	9.35
ORP (mv)	133

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	440

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	HCl	SW-846 8260

Comments:

Hach ferrous Fe = 0 mg/l
No hcl in vocs and vhh

TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

A kowalczk

E paccia

Well ID:

SWMW-111

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

18.8

Depth to Well Bottom (ft):

60.5

Date:

2014-03-21



Time:

14:50

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
10:53	18.80	Na	Na	Na	0.93	Na	Na	Na	-24.1	Wellhead pid= 0.0 ppm
14:58	Na	Na	5	7.27	5.73	670	0.584	11.67	97	
15:03	Na	Na	10	7.27	5.15	440	0.799	12.67	87	
15:09	Na	Na	15	7.22	4.76	402	0.969	12.52	74	
15:19	Na	Na	21	7.16	5.10	400	1.11	12.63	68	
16:48	20.37	Na	Na	Na	0.68	Na	Na	Na	42.7	Final well readings. Pid= 0.1 ppm

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-25



Time:

16:10

Total Volume of Water Purged:

21

(gal)

HORIBA	
pH	7.02
DO (mg/L)	7.26
Turbidity (NTU)	24.6
Spec. Cond. (mS/cm)	0.992
Temp.(°C)	9.36
ORP (mv)	155

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	320

SAMPLE SET				
Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

Hach ferrous Fe = 0 mg/l

No hcl in vocs and vhh

Duplicate sample SWMW-1111-032514 collected

cDCE



3- 40 mL vials

HCl

SW-846 8260

TAL Metals



500 mL poly

N/A

California
Oxygenates



3- 40 mL vials

HCl

Ethene



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Ethane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Methane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

A kowalczk

E paccia

Well ID:

SWMW-112

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

8.35

Depth to Well Bottom (ft):

64.4

Purging Data

Method:

Submersible pump w/ dedicated tubing

Date:

2014-03-26



Time:

14:05

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
10:10	8.35	Na	Na	Na	0.75	Na	Na	Na	109.2	Wellhead pid = 12.0 ppm
14:20	Na	Na	7	7.11	4.63	152	1.59	11.19	4	
14:30	Na	Na	14	7.11	4.75	100	1.59	11.58	-2	
14:50	Na	Na	21	7.16	4.92	74.4	1.60	11.64	5	
14:59	Na	Na	28	7.21	6.81	54.5	1.59	12.14	-2	
13:51	11.86	Na	Na	Na	1.20	Na	Na	Na	-1.0	Wellhead pid = 8.75 ppm

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-27



Time:

13:30

Total Volume of Water Purged:

28

(gal)

HORIBA	
pH	7.17
DO (mg/L)	3.17
Turbidity (NTU)	0
Spec. Cond. (mS/cm)	1.483
Temp.(°C)	11.57
ORP (mv)	123.7

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	220

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

Hach ferrous Fe = 0 mg/L

No HCl preservative in VOA vials.

cDCE



3- 40 mL vials

HCl

SW-846 8260

TAL Metals



500 mL poly

N/A

California
Oxygenates



3- 40 mL vials

HCl

Ethene



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Ethane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Methane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

Ellen Paccia

Andrew Kowalczyk

Well ID:

SWMW-113

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

9.01

Depth to Well Bottom (ft):

30.9

Date:

2014-03-26



Time:

11:20

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
10:05	9.01	Na	Na	Na	0.89	Na	Na	Na	104.5	Wellhead pid= 0.6 ppm
11:28	Na	Na	3	7.04	5.63	800	1.99	8.15	189	
11:37	Na	Na	6	7.20	5.65	380	1.69	9.00	158	
11:48	Na	Na	9	7.20	4.95	342	1.59	9.46	71	
11:53	Na	Na	11	7.20	5.22	353	1.56	9.69	81	
14:25	9.39	Na	Na	Na	0.90	Na	Na	Na	167.9	Wellhead pid = 0.0

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-27



Time:

14:15

Total Volume of Water Purged:

11

(gal)

HORIBA	
pH	7.28
DO (mg/L)	3.88
Turbidity (NTU)	0
Spec. Cond. (mS/cm)	1.391
Temp.(°C)	9.64
ORP (mv)	177.4

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	300

SAMPLE SET				
Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

Hach ferrous Fe = 0 mg/L

No HCl preservative in VOA vials.

cDCE	☒	3- 40 mL vials	HCl	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

A kowalczk

E. Paccia

Well ID:

SWMW-114

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

13.15

Depth to Well Bottom (ft):

40

Date:

2014-03-18



Time:

14:00

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
12:58	13.15	Na	Na	Na	1.76	Na	Na	Na	-9.0	Well head - 0.0 ppm
14:15	Na	Na	3.25	7.45	13.39	3.4	0.483	9.74	90	
14:38	Na	Na	6.25	7.23	10.44	1.8	0.572	9.65	-8	
14:51	Na	Na	9.25	7.30	9.61	0.0	0.496	10.44	3	
13:07	Na	Na	12.25	7.16	21.72	0.0	0.488	10.36	0	
13:22	Na	Na	15.5	7.11	9.60	0.0	0.494	10.25	24	
1455	Na	Na	Na	Na	1.03	Na	Na	Na	-25	Post sample data -3-19-14

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-19



Time:

09:30

Total Volume of Water Purged:

15.5

(gal)

HORIBA	
pH	6.3
DO (mg/L)	6.73
Turbidity (NTU)	0
Spec. Cond. (mS/cm)	0.499
Temp.(°C)	6.7
ORP (mv)	86

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	160

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	

Comments: Hach ferrous iron 0.4 mg/L No hcl in vocs and vhh Dup collected	Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
	cDCE	☒	3- 40 mL vials	HCl	SW-846 8260
	TAL Metals	☐	500 mL poly	N/A	
	California Oxygenates	☐	3- 40 mL vials	HCl	
	Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
	Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
	Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
PARSONS					

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

A kowalczk

E paccia

Well ID:

SWMW-123

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

15.88

Depth to Well Bottom (ft):

79.25

Purging Data

Method:

Submersible pump w/ dedicated tubing

Date:

2014-03-19



Time:

08:50

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
15:45	15.88	Na	Na	Na	1.49	Na	Na	Na	-2.4	Wellhead pid = 0.0 ppm
9:22	Na	Na	10.00	6.65	6.28	10.3	0.935	11.33	95	
11:00	Na	Na	20	6.68	7.15	30.3	0.987	12.14	-21	Well ran dry
16:02	Na	Na	Na	Na	5.02	Na	Na	Na	148.6	Final well readings-3-20-14

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-20



Time:

15:45

Total Volume of Water Purged:

20

(gal)

HORIBA	
pH	7.05
DO (mg/L)	7.77
Turbidity (NTU)	34.5
Spec. Cond. (mS/cm)	0.948
Temp.(°C)	12.74
ORP (mv)	37

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	260

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	HCl	SW-846 8260

Comments:

Well ran dry after 20 gallons purged.

No hcl in vocs and vhh

Hach ferrous Fe = 0.2 mg/L

TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-125

Email Submit

Samplers:

A kowalczk

E paccia

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Purging Data

Method:

Disposable bailer & rope

Initial Depth to Water (ft):

10.66

Depth to Well Bottom (ft):

41.8

Date:

2014-03-18



Time:

14:00

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
12:58	10.66	Na	Na	Na	0.86	Na	Na	Na	-66.6	Well head - 5.4 ppm
14:08	Na	Na	3.5	6.70	9.53	0.0	0.494	9.46	53	
14:25	Na	Na	7	6.65	10.07	91.7	0.532	9.21	2	
14:45	Na	Na	10	6.72	11.54	156	0.642	8.87	-5	
15:00	Na	Na	13	6.80	22.27	182	0.585	9.70	-9	
15:14	Na	Na	16.5	6.69	11.02	163	0.597	9.52	-1	
1455	Na	Na	Na	Na	1.13	Na	Na	Na	-48.2	Post sample data - 3-19-14

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-19



Time:

08:30

Total Volume of Water Purged:

16.5

(gal)

HORIBA	
pH	5.7
DO (mg/L)	6.64
Turbidity (NTU)	0
Spec. Cond. (mS/cm)	0.613
Temp.(°C)	6.10
ORP (mv)	87

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	120

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	

Comments:

16.5 gal bailed on 3-18-14
Hach kit ferrous iron 2 mg/L
No hcl in vocs and vhh

Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	HCl	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

Ellen Paccia

Andrew Kowalczyk

Well ID:

SWMW-126

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

8.29

Depth to Well Bottom (ft):

49.5

Date:

2014-03-26



Time:

11:30

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
10:20	8.29	Na	Na	Na	0.78	Na	Na	Na	104.6	Wellhead pid= 4.7 ppm
11:41	Na	Na	5	7.12	5.24	23.1	1.07	10.46	109	
12:01	Na	Na	10	7.18	4.34	23.7	1.18	10.92	30	
12:11	Na	Na	15	7.09	4.75	17.2	1.20	11.64	30	
12:25	Na	Na	20	7.19	4.55	47.1	1.19	11.93	11	
13:28	12.15	Na	Na	Na	3.18	Na	Na	Na	122.9	Wellhead pid = 4.0

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-27



Time:

13:15

Total Volume of Water Purged:

20

(gal)

HORIBA	
pH	7.8
DO (mg/L)	3.29
Turbidity (NTU)	0
Spec. Cond. (mS/cm)	1.052
Temp.(°C)	10.67
ORP (mv)	-68.6

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	260

SAMPLE SET				
Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

Hach ferrous Fe = 0 mg/L

No HCl preservative in VOA vials.

cDCE



3- 40 mL vials

HCl

SW-846 8260

TAL Metals



500 mL poly

N/A

California
Oxygenates



3- 40 mL vials

HCl

Ethene



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Ethane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

Methane



2- 40 ml vials

HCl

SW-846
8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

A. Kowalczk

E. Paccia

Well ID:

Unknown Well #1

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

4.03

Depth to Well Bottom (ft):

8.65

Purging Data

Method:

Disposable bailer & rope

Date:

2014-03-18



Time:

15:35

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
10:36	4.03	Na	Na	Na	1.87	Na	Na	Na	-10.4	Well head = 0.0
15:40	Na	Na	0.5	6.51	10.20	17.7	0.681	5.84	-32	
15:45	Na	Na	1.0	6.44	11.74	32.0	0.703	5.16	-21	
15:51	Na	Na	1.5	6.21	14.80	9.4	0.708	4.76	17	
15:56	Na	Na	2.0	6.15	12.91	29.5	0.695	4.75	28	
16:03	Na	Na	2.5	6.05	12.85	24.4	0.687	4.69	43	
1432	Na	Na	Na	Na	1.87	Na	Na	Na	-26.1	Post sampling data - 3-19-14

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-19



Time:

11:30

Total Volume of Water Purged:

2.5

(gal)

HORIBA	
pH	6.04
DO (mg/L)	6.56
Turbidity (NTU)	0
Spec. Cond. (mS/cm)	0.808
Temp.(°C)	4.17
ORP (mv)	-12

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	120

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	

Comments:

2.5 gal bailed on 3-18-14
Hach ferrous Fe = 1.6 mg/L
No hcl in vocs and vhh

Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	HCl	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

A. Kowalczyk

E. Paccia

Well ID:

Unknown Well #2

Manual Entry:

Email Submit

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

4.07

Depth to Well Bottom (ft):

8

Purging Data

Method:

Disposable bailer & rope

Date:

2014-03-18



Time:

15:45

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
10:36	4.07	Na	Na	Na	1.88	Na	Na	Na	54.8	Well head = 0.0
15:48	Na	Na	0.5	6.25	14.27	236	0.629	4.84	19	
15:54	Na	Na	1.0	6.08	19.29	67.3	0.615	4.68	45	
15:59	Na	Na	1.5	6.04	12.84	35.5	0.606	4.77	44	
16:07	Na	Na	2.0	5.97	12.03	77.6	0.614	4.69	49	
1432	Na	Na	Na	Na	3.91	Na	Na	Na	19.8	Post sample data -3-19-14

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-19



Time:

11:45

Total Volume of Water Purged:

2

(gal)

HORIBA	
pH	5.87
DO (mg/L)	8.90
Turbidity (NTU)	21.8
Spec. Cond. (mS/cm)	0.600
Temp.(°C)	3.74
ORP (mv)	64

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	120

SAMPLE SET				
Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

2.0 gal bailed on 3-18-14
Hach ferrous Fe = 1.6 mg/L
No hcl in vocs and vhh

cDCE	☒	3- 40 mL vials	HCl	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

Unknown Well #3

Email Submit

Samplers:

A. Kowalczk

E. Paccia

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Purging Data

Method:

Disposable bailer & rope

Initial Depth to Water (ft):

4.25

Depth to Well Bottom (ft):

7.35

Date:

2014-03-18



Time:

16:05

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
10:36	4.25	Na	Na	Na	4.20	Na	Na	Na	78.3	Well head = 0.0
16:12	Na	Na	0.5	5.93	13.09	44.1	1.03	4.33	72	
16:17	Na	Na	1.0	5.90	13.33	19.9	0.921	4.29	74	
16:21	Na	Na	1.5	5.85	13.28	0.0	0.917	4.26	77	
1432	Na	Na	Na	Na	3.26	Na	Na	Na	48.2	Post sampling data-3-19-14

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-03-19



Time:

12:00

Total Volume of Water Purged:

1.5

(gal)

HORIBA	
pH	5.73
DO (mg/L)	7.36
Turbidity (NTU)	0
Spec. Cond. (mS/cm)	0.884
Temp.(°C)	3.63
ORP (mv)	110

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	120

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	HCl	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Chloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Trichloro benzene	☒	3- 40 mL vials	HCl	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	HCl	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

1.5 gal bailed 3-18-14
Hach ferrous Fe = 1.6 mg/L
No hcl in vocs and vhh

cDCE	☒	3- 40 mL vials	HCl	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	HCl	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

WPS

CAH

JLL

Well ID:

GT-2

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

4.45

Depth to Well Bottom (ft):

6.75

Date:

2014-06-03



Time:

13:00

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
13:00	4.45	NA	NA	NA	.96	NA	NA	NA	66.9	Well head 0.0 ppm
13:06	NA	NA	.4	6.56	2.20	22.9	.924	23.72	-122	Dry at .75 gallons
10:58	NA	NA	NA	NA	.95	NA	NA	NA	-72	Post sample 6/4/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-04



Time:

10:25

Total Volume of Water Purged:

0.75

(gal)

HORIBA	
pH	6.53
DO (mg/L)	3.88
Turbidity (NTU)	39.9
Spec. Cond. (mS/cm)	.953
Temp.(°C)	15.74
ORP (mv)	-112

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	220
Ferrous Iron (mg/L)	1.6

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	

Comments:

1AL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

ITMW-6

Manual Entry:

Well Diameter: 2

inches

Samplers:

CAH

Purging Data

Method:

Disposable bailer & rope

Date:

2014-06-09



Time:

10:30

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

22.5

Depth to Well Bottom (ft):

46.5

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
10:30	22.5	NA	NA	NA	.86	NA	NA	NA	30.2	Well head 0.9 ppm
12:50	NA	NA	4	7.48	2.60	17	0.882	16.86	-72	
12:59	NA	NA	8	7.29	2.33	183	0.873	15.65	-75	
09:35	NA	NA	NA	NA	0.71	NA	NA	NA	-16.2	Post sample 6/10/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-10



Time:

09:35

Total Volume of Water Purged:

9

(gal)

HORIBA	
pH	7.25
DO (mg/L)	0.71
Turbidity (NTU)	2.49
Spec. Cond. (mS/cm)	0.892
Temp.(°C)	17.00
ORP (mv)	-42

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	280
Ferrous Iron (mg/L)	0.2

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

WPS

CAH

JLL

Well ID:

ITMW-13

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

10.38

Depth to Well Bottom (ft):

20.1

Date:

2014-06-04



Time:

10:40

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
10:40	10.38	NA	NA	NA	1.07	NA	NA	NA	14.9	Well head 0.0 ppm
10:55	NA	NA	1.6	6.47	4.98	2013	2.78	14.52	-34	Dry at 2 gallons
10:20	NA	NA	NA	NA	3.79	NA	NA	NA	160.1	Post sample

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-05



Time:

10:10

Total Volume of Water Purged:

2

(gal)

HORIBA	
pH	6.09
DO (mg/L)	2.57
Turbidity (NTU)	8.18
Spec. Cond. (mS/cm)	1.86
Temp.(°C)	13.13
ORP (mv)	44

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	100
Ferrous Iron (mg/L)	.8

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	

Comments:

1AL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

WPS

CAH

JLL

Well ID:

ITMW-14

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

7.21

Depth to Well Bottom (ft):

6.55

Purging Data

Method:

Disposable bailer & rope

Date:

2014-06-03



Time:

13:45

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-04



Time:

09:15

Total Volume of Water Purged:

3

(gal)

HORIBA	
pH	
DO (mg/L)	
Turbidity (NTU)	
Spec. Cond. (mS/cm)	
Temp.(°C)	
ORP (mv)	

HACH TEST KITS	
Phenol alkalinity (mg/L)	
Methyl alkalinity (mg/L)	
Ferrous Iron (mg/L)	

SAMPLE SET				
Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
	☒			SW-846

Comments:

DTP 7.20 ft

No horiba readings due to product

Ethene		2- 40 ml vials	N/A	8115B/RSK 175
Ethane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

WPS

CAH

JLL

Well ID:

ITMW-24

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

8.6

Depth to Well Bottom (ft):

29.5

Date:

2014-06-02



Time:

15:10

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
15:10	8.60	NA	0	NA	0.09	NA	NA	NA	233.2	Well head 0.0 ppm
15:51	NA	NA	3.3	7.08	11.16	13.1	.91	24.48	213	
16:02	NA	NA	3.3	7.63	8.01	12.4	1.04	19.33	100	
16:11	NA	NA	3.4	7.59	6.12	23.9	1.04	18.72	92	
08:42	NA	NA	NA	NA	1.15	NA	NA	NA	197	Post sample 6/3/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-03



Time:

08:15

Total Volume of Water Purged:

10

(gal)

HORIBA	
pH	6.62
DO (mg/L)	3.06
Turbidity (NTU)	5.5
Spec. Cond. (mS/cm)	1.13
Temp.(°C)	19.37
ORP (mv)	225

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	180
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☐	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☐	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☐	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☐	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☐	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☐	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☐	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☐	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☐	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☐	250 mL poly or 2 40 mL vials	N/A	

Comments:

Chloride	☐	2- 40 mL vials	N/A	EPA 300.0
cDCE	☐	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☐	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☐	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☐	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

WPS

CAH

JLL

Well ID:

ITMW-25

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

12.03

Depth to Well Bottom (ft):

25

Purging Data

Method:

Disposable bailer & rope

Date:

2014-06-02



Time:

16:15

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
16:15	12.03	NA	NA	NA	0.05	NA	NA	NA	-24	Well head 0.0 ppm
08:28	NA	NA	2.1	6.95	3.01	70.2	1.14	16.57@	-100	6/4/2015
08:37	NA	NA	3	7.03	2.78	1907	1.18	15.54	-116	Dry at 3 gallons
08:25	NA	NA	NA	NA	2.86	NA	NA	NA	170.7	Post sample 6/5/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-05



Time:

8:10

Total Volume of Water Purged:

3

(gal)

HORIBA	
pH	6.11
DO (mg/L)	5.3
Turbidity (NTU)	51.3
Spec. Cond. (mS/cm)	1.19
Temp.(°C)	14.8
ORP (mv)	57

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	240
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	

Comments:

Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

WPS

CAH

JLL

Well ID:

SWMW-2

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

6.01

Depth to Well Bottom (ft):

23.28

Date:

2014-06-05



Time:

10:25

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
10:25	6.01	NA	NA	NA	.92	NA	NA	NA	49	Well head 0.0 ppm
11:00	NA	NA	2.8	6.36	8.62	1609	2.94	13.40	-64	Dry at 4 gallons
08:25	NA	NA	NA	NA	1.01	NA	NA	NA	42	Post sample 6/6/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-06



Time:

08:20

Total Volume of Water Purged:

4

(gal)

HORIBA	
pH	6.48
DO (mg/L)	2.94
Turbidity (NTU)	21
Spec. Cond. (mS/cm)	2.72
Temp.(°C)	14.91
ORP (mv)	-49

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	200
Ferrous Iron (mg/L)	1.8

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	

Comments:

1AL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-10

Manual Entry:

Well Diameter: 2

inches

Samplers:

WPS

CAH

JLL

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

3.94

Depth to Well Bottom (ft):

7.6

Purging Data

Method:

Disposable bailer & rope

Date:

2014-06-02



Time:

15:40

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
15:40	3.95	NA	NA	NA	0.10	NA	NA	NA	-110	Well head 1.6 ppm
16:45	NA	NA	.6	7.49	3.83	116	1.14	20.58	-97	Dry at 1 gallon
10:12	NA	NA	NA	NA	.39	NA	NA	NA	-42	Post sampling 6/3/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-03



Time:

10:00

Total Volume of Water Purged:

1

(gal)

HORIBA	
pH	7.01
DO (mg/L)	2.26
Turbidity (NTU)	91.6
Spec. Cond. (mS/cm)	1.22
Temp.(°C)	21.48
ORP (mv)	-103

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	320
Ferrous Iron (mg/L)	.8

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	

Comments:

1AL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-13

Manual Entry:

Well Diameter: 2

inches

Samplers:

CAH

Purging Data

Method:

Submersible pump w/ dedicated tubing

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

48.19

Depth to Well Bottom (ft):

73.28

Date:

2014-06-09



Time:

13:40

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
13:40	48.19	NA	NA	NA	6.02	NA	NA	NA	204.0	Well head 0.0 ppm
13:53	NA	800	4	6.99	3.75	781	2.43	15.99	127	Dry at 4 gallons
13:15	NA	NA	NA	NA	6.83	NA	NA	NA	155.0	Post sample 6/10/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-10



Time:

13:15

Total Volume of Water Purged:

4

(gal)

HORIBA	
pH	7.14
DO (mg/L)	6.83
Turbidity (NTU)	4.68
Spec. Cond. (mS/cm)	2.41
Temp.(°C)	18.78
ORP (mv)	161

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	400
Ferrous Iron (mg/L)	0

SAMPLE SET				
Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☐	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☐	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☐	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☐	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☐	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☐	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☐	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☐	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☐	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☐	250 mL poly or 2 40 mL vials	N/A	
Chloride	☐	2- 40 mL vials	N/A	EPA 300.0

Comments:

cDCE	☐	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☐	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☐	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☐	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-14

Manual Entry:

Well Diameter: 2

inches

Samplers:

WPS

CAH

JLL

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

9.37

Depth to Well Bottom (ft):

39.18

Purging Data

Method:

Disposable bailer & rope

Date:

2014-06-05



Time:

16:20

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
16:20	9.37	NA	NA	NA	2.13	NA	NA	NA	314.8	Well head 0.4 ppm
16:29	NA	NA	4.8	6.97	8.23	130	1.59	16.12	40	Dry at 6 gallons
10:22	NA	NA	NA	NA	2.57	NA	NA	NA	203.6	Post sample 6/6/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-06



Time:

10:05

Total Volume of Water Purged:

6

(gal)

HORIBA	
pH	7.23
DO (mg/L)	2.47
Turbidity (NTU)	7.19
Spec. Cond. (mS/cm)	1.53
Temp.(°C)	14.31
ORP (mv)	101

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	220
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	

Comments:

1AL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-15

Manual Entry:

Well Diameter: 2

inches

Samplers:

CAH

Purging Data

Method:

Disposable bailer & rope

Date:

2014-06-09



Time:

14:45

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

15.55

Depth to Well Bottom (ft):

23.82

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
14:45	15.55	NA	NA	NA	0.92	NA	NA	NA	-71.2	Well head 301.4 ppm
14:48	NA	NA	1.4	6.92	4.65	>4000	1.903	15.50	-108	Dry at 1.6 gallons
11:00	NA	NA	NA	NA	0.71	NA	NA	NA	-69.0	Post sample 6/10/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-10



Time:

11:00

Total Volume of Water Purged:

1.6

(gal)

HORIBA

pH	6.76
DO (mg/L)	0.71
Turbidity (NTU)	11.8
Spec. Cond. (mS/cm)	0.901
Temp.(°C)	17.13
ORP (mv)	-101

HACH TEST KITS

Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	340
Ferrous Iron (mg/L)	2.0

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

WPS

CAH

JLL

Well ID:

SWMW-21

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

6.18

Depth to Well Bottom (ft):

12

Purging Data

Method:

Disposable bailer & rope

Date:

2014-06-03



Time:

14:15

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-04



Time:

13:20

Total Volume of Water Purged:

3

(gal)

HORIBA	
pH	
DO (mg/L)	
Turbidity (NTU)	
Spec. Cond. (mS/cm)	
Temp.(°C)	
ORP (mv)	

HACH TEST KITS	
Phenol alkalinity (mg/L)	
Methyl alkalinity (mg/L)	
Ferrous Iron (mg/L)	

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
	☒			SW-846

Comments:

Well head 245.3 ppm - DTP 6.16 ft
No horiba readings due to product

Ethene		2- 40 ml vials	N/A	8115B/RSK 175
Ethane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

WPS

CAH

JLL

Well ID:

SWMW-25

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

5.06

Depth to Well Bottom (ft):

10.45

Date:

2014-06-02



Time:

15:25

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
15:25	5.06	NA	0	NA	0.07	NA	NA	NA	233.4	Well head 0.0
16:20	NA	NA	.9	7.5	4.74	115	.816	20.88	143	Dry at 1.5 gallons
08:53	NA	NA	NA	NA	.07	NA	NA	NA	263	Post sampling 6/3/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-03



Time:

8:34

Total Volume of Water Purged:

1.5

(gal)

HORIBA	
pH	6.92
DO (mg/L)	2.10
Turbidity (NTU)	1.4
Spec. Cond. (mS/cm)	.855
Temp.(°C)	17.86
ORP (mv)	187

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	140
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☐	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☐	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☐	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☐	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☐	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☐	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☐	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☐	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☐	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☐	250 mL poly or 2 40 mL vials	N/A	
Chloride	☐	2- 40 mL vials	N/A	EPA 300.0
cDCE	☐	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	

Comments:

IAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☐	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☐	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☐	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

WPS

CAH

JLL

Well ID:

SWMW-28

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

9.88

Depth to Well Bottom (ft):

15.6

Date:

2014-06-03



Time:

12:20

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
12:23	9.88	NA	NA	NA	.85	NA	NA	NA	-101	Well head 0.0 ppm
09:14	NA	NA	1	7.05	7.62	83	1.39	17.17	-155	
09:20	NA	NA	2	7.03	4.20	1455	1.37	15.83	-138	
09:24	NA	NA	3	7.00	5.21	878	1.31	14.91	-126	
08:52	NA	NA	NA	NA	1.0	NA	NA	NA	50.1	Post sample 6/5/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-05



Time:

08:40

Total Volume of Water Purged:

3

(gal)

HORIBA	
pH	6.39
DO (mg/L)	8.49
Turbidity (NTU)	27.8
Spec. Cond. (mS/cm)	1.4
Temp.(°C)	13.97
ORP (mv)	-15

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	160
Ferrous Iron (mg/L)	2.0

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	

Comments:

Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

WPS

CAH

JLL

Well ID:

SWMW-30

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

8.63

Depth to Well Bottom (ft):

14.5

Date:

2014-06-03



Time:

14:37

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
14:37	8.63	NA	NA	NA	.89	NA	NA	NA	-61.9	Well head 0.1 ppm
15:14	NA	NA	1	6.84	2.96	684	1.21	21.05	-118	Dry at 1.5 gallons
13:20	NA	NA	NA	NA	.94	NA	NA	NA	-34	Post sample 6/4/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-04



Time:

13:05

Total Volume of Water Purged:

1.5

(gal)

HORIBA	
pH	6.9
DO (mg/L)	6.95
Turbidity (NTU)	24.1
Spec. Cond. (mS/cm)	1.56
Temp.(°C)	20.73
ORP (mv)	-133

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	300
Ferrous Iron (mg/L)	2.0

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	

Comments:

1AL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

WPS

CAH

JLL

Well ID:

SWMW-31

Manual Entry:

Well Diameter: 4

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

6.98

Depth to Well Bottom (ft):

10.9

Date:

2014-06-03



Time:

14:40

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
14:40	6.98	NA	NA	NA	.95	NA	NA	NA	-89.7	Well head 0.0 ppm
15:05	NA	NA	2.6	6.81	2.93	992	.978	24.79	-136	Dry at 3 gallons
13:20	NA	NA	NA	NA	.8	NA	NA	NA	-57	Post sample 6/4/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-04



Time:

13:00

Total Volume of Water Purged:

3

(gal)

HORIBA	
pH	6.81
DO (mg/L)	7.68
Turbidity (NTU)	67
Spec. Cond. (mS/cm)	1.15
Temp.(°C)	21.6
ORP (mv)	-123

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	220
Ferrous Iron (mg/L)	2.0

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	

Comments:

1AL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

WPS

CAH

JLL

Well ID:

SWMW-41

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

10.02

Depth to Well Bottom (ft):

43.72

Date:

2014-06-05



Time:

15:50

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
15:50	10.02	NA	NA	NA	1.27	NA	NA	NA	339.7	Well head 3.4 ppm
16:00	NA	700	6	6.79	1.58	1047	1.32	16.87	-74	
16:08	NA	700	12	6.84	1.43	802	1.37	16.25	-98	
16:18	NA	700	18	6.83	7.69	90	1.37	16.24	-64	
09:55	NA	NA	NA	NA	0.94	NA	NA	NA	198.6	Post sample 6/6/2014
08:50	NA	NA	NA	NA	NA	NA	NA	NA	53.5	Pre-sample ORP 73mV on 2nd unit...

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-06



Time:

09:25

Total Volume of Water Purged:

18

(gal)

HORIBA	
pH	7.15
DO (mg/L)	7.80
Turbidity (NTU)	82.1
Spec. Cond. (mS/cm)	1.36
Temp.(°C)	13.92
ORP (mv)	-2

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	220
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000

Comments:

Pre-purge ORP higher than March 2014
Dup collected SWMW-141@1201

Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

WPS

CAH

JLL

Well ID:

SWMW-44

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

4.02

Depth to Well Bottom (ft):

29.4

Date:

2014-06-02



Time:

15:50

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
15:50	4.02	NA	NA	NA	0.1	NA	NA	NA	-172.5	Well head 0.0 ppm
16:51	NA	NA	4.1	7.55	11.6	0.0	1.12	17.8	-98	
16:55	NA	NA	8.2	7.52	10.65	0.0	1.14	16.48	-104	
17:00	NA	NA	12.3	7.51	3.52	0.0	1.14	16.4	-113	
09:56	NA	NA	NA	NA	1.5	NA	NA	NA	-14	Post sample 6/3/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-03



Time:

09:30

Total Volume of Water Purged:

12.5 (gal)

HORIBA	
pH	6.98
DO (mg/L)	2.52
Turbidity (NTU)	1.1
Spec. Cond. (mS/cm)	1.2
Temp.(°C)	20.12
ORP (mv)	-105

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	320
Ferrous Iron (mg/L)	.3

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	

Comments:

Strong odor
MS/MSD

Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

WPS

CAH

JLL

Well ID:

SWMW-45

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

13.72

Depth to Well Bottom (ft):

30.25

Date:

2014-06-04



Time:

16:00

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
16:00	13.72	NA	NA	NA	.93	NA	NA	NA	5.6	Well head
16:20	NA	NA	2.5	6.75	3.82	35	1.96	19.73	-12	Dry at 4 gallons
13:32	NA	NA	NA	NA	3.01	NA	NA	NA	267	Post sample 6/5/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-05



Time:

11:35

Total Volume of Water Purged:

4

(gal)

HORIBA	
pH	6.17
DO (mg/L)	7.96
Turbidity (NTU)	17.6
Spec. Cond. (mS/cm)	2.02
Temp.(°C)	14.16
ORP (mv)	-34

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	240
Ferrous Iron (mg/L)	1.2

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	

Comments:

1AL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

WPS

CAH

JLL

Well ID:

SWMW-48

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

6.31

Depth to Well Bottom (ft):

9.25

Date:

2014-06-02



Time:

16:25

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
16:25	6.31	NA	NA	NA	0.21	NA	NA	NA	64.7	Well head 0.0 ppm
09:10	NA	NA	.5	7.08	2.74	278	1.23	18.80	-141	6/3/2014
09:13	NA	NA	1	7.10	2.6	41	1.22	18.73	-141	Dry at 1 gallon
08:43	NA	NA	NA	NA	2.15	NA	NA	NA	35	Post sample 6/4/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-04



Time:

08:20

Total Volume of Water Purged:

1

(gal)

HORIBA	
pH	6.82
DO (mg/L)	3.06
Turbidity (NTU)	75.4
Spec. Cond. (mS/cm)	1.39
Temp.(°C)	17.95
ORP (mv)	-64

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	200
Ferrous Iron (mg/L)	0

SAMPLE SET				
Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	

Comments:

Odor

Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

WPS

CAH

JLL

Well ID:

SWMW-55

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

15.75

Depth to Well Bottom (ft):

19.22

Purging Data

Method:

Disposable bailer & rope

Date:

2014-06-04



Time:

15:35

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
15:35	15.75	NA	NA	NA	3.2	NA	NA	NA	427	Well head 0.0 ppm
15:40	NA	NA	.5	6.81	3.37	100	.859	20.96	23	Dry at .5 gallons
13:30	NA	NA	NA	NA	2.25	NA	NA	NA	122	Post sample 6/5/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-05



Time:

1120

Total Volume of Water Purged:

0.5

(gal)

HORIBA	
pH	6.24
DO (mg/L)	8.24
Turbidity (NTU)	11.2
Spec. Cond. (mS/cm)	.842
Temp.(°C)	13.94
ORP (mv)	-6

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	180
Ferrous Iron (mg/L)	1.0

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	

Comments:

1AL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-56

Manual Entry:

Well Diameter: 2

inches

Samplers:

CAH

Purging Data

Method:

Submersible pump w/ dedicated tubing

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

21.22

Depth to Well Bottom (ft):

54.8

Date:

2014-06-09



Time:

14:05

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
14:05	21.22	NA	NA	NA	0.92	NA	NA	NA	115.0	Well head 2.9 ppm, pre-sample OR...
14:56	NA	800	5.5	7.28	1.85	111	0.994	15.47	-79	Dry at 6 gallons
10:45	NA	NA	NA	NA	1.49	NA	NA	NA	158.4	Post sample 6/10/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-10



Time:

10:45

Total Volume of Water Purged:

6

(gal)

HORIBA

pH	7.28
DO (mg/L)	1.49
Turbidity (NTU)	8.13
Spec. Cond. (mS/cm)	0.991
Temp.(°C)	7.28
ORP (mv)	156

HACH TEST KITS

Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	320
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-58

Manual Entry:

Well Diameter: 2

inches

Samplers:

CAH

Purging Data

Method:

Disposable bailer & rope

Date:

2014-06-09



Time:

12:58

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

13.13

Depth to Well Bottom (ft):

29

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
12:58	13.13	NA	NA	NA	3.22	NA	NA	NA	179.8	Well head 0.8 ppm
13:02	NA	NA	2.5	6.98	2.73	816	1.47	15.06	73	
13:06	NA	NA	5	6.95	3.67	>4000	1.61	14.50	114	
13:12	NA	NA	7.5	7.10	2.95	>4000	1.61	14.47	138	
10:00	NA	NA	NA	NA	2.57	NA	NA	NA	115	Post sample 6/10/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-10



Time:

10:00

Total Volume of Water Purged:

7.5

(gal)

HORIBA	
pH	6.95
DO (mg/L)	2.57
Turbidity (NTU)	2.78
Spec. Cond. (mS/cm)	1.04
Temp.(°C)	18.02
ORP (mv)	168

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	300
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	

Comments:

Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

WPS

CAH

JLL

Well ID:

SWMW-62

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

8.99

Depth to Well Bottom (ft):

18.35

Date:

2014-06-05



Time:

15:35

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
15:35	8.99	NA	NA	NA	.85	NA	NA	NA	403.7	Well head 0.0 ppm
15:45	NA	NA	1.5	6.76	3.48	1725	.851	17.39	99	Dry at 1.5 gallons
09:50	NA	NA	NA	NA	2.45	NA	NA	NA	205.2	Post sample 6/6/2014
09:00	NA	NA	NA	NA	NA	NA	NA	NA	62.4	Pre-sample 6/6/14 ORP 2nd unit-1...

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-06



Time:

09:10

Total Volume of Water Purged:

1.5

(gal)

HORIBA	
pH	7.03
DO (mg/L)	3.55
Turbidity (NTU)	26
Spec. Cond. (mS/cm)	.841
Temp.(°C)	13.97
ORP (mv)	131

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	200
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	

Comments:

Pre-purge ORP higher than March 2014

Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

WPS

CAH

JLL

Well ID:

SWMW-65

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

8.92

Depth to Well Bottom (ft):

15.58

Date:

2014-06-03



Time:

12:23

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
12:30	8.92	NA	NA	NA	1.04	NA	NA	NA	335.6	Well head 0.0 ppm
12:40	NA	NA	1.25	7.19	2.42	746	1.38	26.12	4	Dry at 2 gallons
11:13	NA	NA	NA	NA	3.16	NA	NA	NA	175.3	Post sample 6/4/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-04



Time:

09:00

Total Volume of Water Purged:

2

(gal)

HORIBA	
pH	7.16
DO (mg/L)	4.08
Turbidity (NTU)	70.8
Spec. Cond. (mS/cm)	1.29
Temp.(°C)	16.8
ORP (mv)	107

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	160
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	

Comments:

Dup Collected SWMW 165

1AL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-66

Manual Entry:

Well Diameter: 2

inches

Samplers:

CAH

Purging Data

Method:

Submersible pump w/ dedicated tubing

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

19.8

Depth to Well Bottom (ft):

59.9

Date:

2014-06-09



Time:

12:50

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
12:50	19.8	NA	NA	NA	8.49	NA	NA	NA	153.1	Well head 1.6 ppm
12:54	NA	700	6.5	7.49	3.55	1495	0.714	16.03	72	Dry at 8 gallons
10:20	NA	NA	NA	NA	2.39	NA	NA	NA	134.6	Post sample 6/10/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-10



Time:

10:20

Total Volume of Water Purged:

8

(gal)

HORIBA

pH	7.15
DO (mg/L)	2.39
Turbidity (NTU)	4.36
Spec. Cond. (mS/cm)	1.65
Temp.(°C)	18.03
ORP (mv)	171

HACH TEST KITS

Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	240
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-67

Manual Entry:

Well Diameter: 2

inches

Samplers:

CAH

Purging Data

Method:

Disposable bailer & rope

Date:

2014-06-09



Time:

10:10

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

15.53

Depth to Well Bottom (ft):

29.45

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
10:10	15.53	NA	NA	NA	3.43	NA	NA	NA	220.8	Well head 0.1 ppm
10:16	NA	NA	2.3	6.98	5.54	>4000	1.05	15.55	174	
09:00	NA	NA	NA	NA	7.64	NA	NA	NA	203.5	Post sample 6/10/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-10



Time:

09:00

Total Volume of Water Purged:

3

(gal)

HORIBA

pH	6.97
DO (mg/L)	7.64
Turbidity (NTU)	24
Spec. Cond. (mS/cm)	1.01
Temp.(°C)	16.61
ORP (mv)	220

HACH TEST KITS

Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	340
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-68

Manual Entry:

Well Diameter: 2

inches

Samplers:

CAH

Purging Data

Method:

Submersible pump w/ dedicated tubing

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

27.72

Depth to Well Bottom (ft):

54.4

Date:

2014-06-09



Time:

10:12

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
10:12	27.72	NA	NA	NA	1.06	NA	NA	NA	218.7	Well head 2.9 ppm
10:14	NA	800	4.5	7.21	2.58	786	.957	17.07	157	
10:19	NA	800	9	7.0	4.02	802	1.03	15.78	165	Dry at 11 gallons
09:15	NA	NA	NA	NA	6.36	NA	NA	NA	200.8	Post sample 6/10/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-10



Time:

09:15

Total Volume of Water Purged:

11

(gal)

HORIBA	
pH	7.29
DO (mg/L)	6.36
Turbidity (NTU)	6.28
Spec. Cond. (mS/cm)	0.979
Temp.(°C)	16.66
ORP (mv)	206

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	280
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0

Comments:

cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-103

Manual Entry:

Well Diameter: 2

inches

Samplers:

CAH

Purging Data

Method:

Submersible pump w/ dedicated tubing

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

20.19

Depth to Well Bottom (ft):

64.7

Date:

2014-06-09



Time:

08:40

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
08:40	20.19	NA	NA	NA	9.09	NA	NA	NA	207.5	Well head 0.0 ppm
09:12	NA	700	7.2	6.6	3.76	22.7	.806	18.42	205	Dry at 10 gallons
08:20	NA	NA	NA	NA	6.20	NA	NA	NA	185.5	Post sample 6/10/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-10



Time:

08:20

Total Volume of Water Purged:

10

(gal)

HORIBA	
pH	7.05
DO (mg/L)	6.20
Turbidity (NTU)	30.4
Spec. Cond. (mS/cm)	1.38
Temp.(°C)	17.47
ORP (mv)	253

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	280
Ferrous Iron (mg/L)	0

SAMPLE SET				
Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☐	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☐	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☐	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☐	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☐	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☐	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☐	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☐	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☐	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☐	250 mL poly or 2 40 mL vials	N/A	
Chloride	☐	2- 40 mL vials	N/A	EPA 300.0

Comments:

cDCE	☐	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☐	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☐	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☐	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-111

Manual Entry:

Well Diameter: 2

inches

Samplers:

CAB

Purging Data

Method:

Submersible pump w/ dedicated tubing

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

20.88

Depth to Well Bottom (ft):

60.3

Date:

2014-06-09



Time:

08:55

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
08:55	20.88	NA	NA	NA	3.67	NA	NA	NA	203.5	Well head 0.1 ppm
09:38	NA	700	3.8	7.16	7.25	1001	.7	17.07	160	
09:42	NA	700	7	7.20	7.29	719	.685	16.47	158	
09:47	NA	700	11	7.22	1.90	56	.814	16.46	156	
08:30	NA	NA	NA	NA	1.39	NA	NA	NA	180.0	Post sample 6/10/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-10



Time:

08:30

Total Volume of Water Purged:

11 (gal)

HORIBA	
pH	7.32
DO (mg/L)	1.39
Turbidity (NTU)	16.4
Spec. Cond. (mS/cm)	0.515
Temp.(°C)	16.31
ORP (mv)	221

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	120
Ferrous Iron (mg/L)	0

SAMPLE SET				
Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D- 2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	

Comments:

Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

WPS

CAH

JLL

Well ID:

SWMW-112

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

9

Depth to Well Bottom (ft):

64.75

Date:

2014-06-05



Time:

13:55

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
13:55	9.00	NA	NA	NA	.7	NA	NA	NA	189.5	Well head 6.9 ppm
15:06	NA	700	10	6.83	1.71	53.5	1.49	18.93	-86	
15:24	NA	700	19	6.92	1.74	16	1.53	18.75	-62	Dry at 26 gallons
10:12	NA	NA	NA	NA	0.82	NA	NA	NA	196.7	Post sample 6/6/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-06



Time:

09:15

Total Volume of Water Purged:

26

(gal)

HORIBA	
pH	7.14
DO (mg/L)	6.35
Turbidity (NTU)	16.4
Spec. Cond. (mS/cm)	1.46
Temp.(°C)	15.02
ORP (mv)	91

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	220
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	

Comments:

Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

WPS

CAH

JLL

Well ID:

SWMW-113

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

9.5

Depth to Well Bottom (ft):

30.4

Purging Data

Method:

Disposable bailer & rope

Date:

2014-06-05



Time:

14:22

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
14:22	9.5	NA	NA	NA	1.02	NA	NA	NA	164.9	Well head 0.0 ppm
14:35	NA	NA	3.5	6.89	3.42	85.9	1.42	17.11	-31	
14:39	NA	NA	7	6.85	2.26	133	1.49	15.92	-5	
14:44	NA	NA	11	6.92	3.47	683	1.51	15.77	683	
10:05	NA	NA	NA	NA	1.25	NA	NA	NA	199.1	Post sample 6/6/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-06



Time:

08:50

Total Volume of Water Purged:

11

(gal)

HORIBA	
pH	7.15
DO (mg/L)	5.50
Turbidity (NTU)	14.4
Spec. Cond. (mS/cm)	1.51
Temp.(°C)	14.36
ORP (mv)	97

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	240
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	

Comments:

MS/MSD collected

Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

WPS

CAH

JLL

Well ID:

SWMW-114

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

15.54

Depth to Well Bottom (ft):

48

Date:

2014-06-04



Time:

14:10

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
14:10	15.54	NA	NA	NA	1.64	NA	NA	NA	277	Well head 0.0 ppm
14:33	NA	700	5.2	7.17	1.87	7.78	.482	18.6	-77	
14:39	NA	700	10.4	6.97	1.86	7.05	.485	16.2	-64	
14:42	NA	700	15.6	7.03	5.85	5.24	.483	16.01	-42	
10:10	NA	NA	NA	NA	0.97	NA	NA	NA	59	Post sample 6/5/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-05



Time:

10:00

Total Volume of Water Purged:

15.6 (gal)

HORIBA	
pH	6.64
DO (mg/L)	3.46
Turbidity (NTU)	16.8
Spec. Cond. (mS/cm)	.494
Temp.(°C)	13.37
ORP (mv)	25

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	120
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	

Comments:

Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

WPS

CAH

JLL

Well ID:

SWMW-123

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

17.05

Depth to Well Bottom (ft):

59.27

Date:

2014-06-04



Time:

15:30

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
15:30	17.05	NA	NA	NA	7.35	NA	NA	NA	412	Well head 0.5 ppm
15:43	NA	700	7	7.03	4.18	34.3	.970	19.67	16	Dry at 7 gallons
11:15	NA	NA	NA	NA	7.25	NA	NA	NA	144	Post sample 6/5/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-05



Time:

10:55

Total Volume of Water Purged:

7

(gal)

HORIBA	
pH	6.74
DO (mg/L)	7.71
Turbidity (NTU)	54.7
Spec. Cond. (mS/cm)	1.11
Temp.(°C)	14.01
ORP (mv)	13

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	220
Ferrous Iron (mg/L)	.1

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	

Comments:

1AL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

WPS

CAH

JLL

Well ID:

SWMW-125

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

13.52

Depth to Well Bottom (ft):

41.53

Date:

2014-06-04



Time:

14:00

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
14:00	13.52	NA	NA	NA	1.54	NA	NA	NA	222	Well head 0.0 ppm
14:25	NA	NA	4.5	6.76	2.95	32.4	.483	21.05	-64	
14:36	NA	NA	9	6.8	2.3	12.9	.416	16.11	-43	
14:50	NA	NA	13.5	6.75	7.42	723	.475	15.37	-47	
09:50	NA	NA	NA	NA	1.24	NA	NA	NA	1.18	Post sample 6/5/2025

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-05



Time:

0940

Total Volume of Water Purged:

13.5 (gal)

HORIBA	
pH	6.33
DO (mg/L)	2.04
Turbidity (NTU)	21.1
Spec. Cond. (mS/cm)	.531
Temp.(°C)	13.78
ORP (mv)	-42

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	100
Ferrous Iron (mg/L)	1.8

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	

Comments:

Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

WPS

CAH

JLL

Well ID:

SWMW-126

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

6.72

Depth to Well Bottom (ft):

49.7

Date:

2014-06-05



Time:

13:50

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
13:50	6.72	NA	NA	NA	1.12	NA	NA	NA	173	Well head 1.6 ppm
14:19	NA	700	8	6.8	7.27	-80	1.21	18.52	-80	
14:31	NA	700	15	6.82	1.62	-68	1.18	18.57	-68	Dry at 22 gallons
10:15	NA	NA	NA	NA	1.00	NA	NA	NA	196	Post sample 6/6/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-06



Time:

09:55

Total Volume of Water Purged:

23

(gal)

HORIBA	
pH	7.22
DO (mg/L)	2.50
Turbidity (NTU)	14.4
Spec. Cond. (mS/cm)	1.30
Temp.(°C)	14.58
ORP (mv)	24

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	200
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	

Comments:

Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

WPS

CAH

JLL

Well ID:

Unknown Well 1

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

5.92

Depth to Well Bottom (ft):

7.4

Date:

2014-06-03



Time:

13:30

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
13:30	5.92	NA	NA	NA	1.43	NA	NA	NA	6.7	Well head 0.0 ppm
13:34	NA	NA	.25	6.35	2.7	16.4	.54	17.66	-53	Dry at 0.3 gallons
10:39	NA	NA	NA	NA	1.5	NA	NA	NA	13	Post sample 6/4/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-04



Time:

10:15

Total Volume of Water Purged:

0.3

(gal)

HORIBA	
pH	6.31
DO (mg/L)	8.0
Turbidity (NTU)	53.2
Spec. Cond. (mS/cm)	.532
Temp.(°C)	14.86
ORP (mv)	-22

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	80
Ferrous Iron (mg/L)	1.8

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	

Comments:

1AL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

WPS

CAH

JLL

Well ID:

Unknown Well 2

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

5.79

Depth to Well Bottom (ft):

7.76

Date:

2014-06-03



Time:

13:25

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
13:25	5.79	NA	NA	NA	1.28	NA	NA	NA	37.6	Well head 0.0 ppm
13:30	NA	NA	.3	6.37	2.73	65.6	.54	18.87	-32	Dry at .4 gallons
10:25	NA	NA	NA	NA	1.74	NA	NA	NA	33	Post sample 6/4/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-04



Time:

10:00

Total Volume of Water Purged:

0.4

(gal)

HORIBA	
pH	6.34
DO (mg/L)	2.23
Turbidity (NTU)	56.8
Spec. Cond. (mS/cm)	.541
Temp.(°C)	15.59
ORP (mv)	-10

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	100
Ferrous Iron (mg/L)	1.8

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	

Comments:

1AL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

WPS

CAH

JLL

Well ID:

Unknown Well 3

Manual Entry:

Well Diameter: 2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

5.84

Depth to Well Bottom (ft):

7.16

Date:

2014-06-03



Time:

13:20

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
13:20	5.84	NA	NA	NA	1.5	NA	NA	NA	25.9	Well head 0.0 ppm
13:26	NA	NA	.2	6.45	2.86	55.9	.58	21.04	-43	Dry at .3 gallons
10:30	NA	NA	NA	NA	1.5	NA	NA	NA	21	Post sample 6/4/2014

Sampling Data

Method:

Disposable bailer & rope

Date:

2014-06-04



Time:

09:50

Total Volume of Water Purged:

0.3

(gal)

HORIBA	
pH	6.62
DO (mg/L)	7.86
Turbidity (NTU)	56.5
Spec. Cond. (mS/cm)	.607
Temp.(°C)	16.36
ORP (mv)	-30

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	120
Ferrous Iron (mg/L)	1.8

SAMPLE SET

Parameter		Bottle	Pres.	Method
VOCs	☐	3- 40 mL vials	N/A	
SVOCs	☐	2 - 250 mL amber glass	N/A	
Total Lead	☐	1- 250 mL poly	N/A	
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	NA	SW-846 8260
TAL Metals	☐	500 mL poly	N/A	

Comments:

1AL Metals	☐	500 mL poly	N/A	
California Oxygenates	☐	3- 40 mL vials	HCl	
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

GT-2

Manual Entry:

Well Diameter: 2

inches

Samplers:

Bill Simons

Purging Data

Method:

Disposable bailer & rope

Date:

09/15/2014



Time:

15:20

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

5.54

Depth to Well Bottom (ft):

8.22

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
15:15	5.54	NA	NA	NA	.34	NA	NA	NA	-113	PID 2.1
15:20	NA		.5	6.89	5.62	67.2	.83	20.76	-118	
15:26	NA		1	6.83	10.03	212	.763	19.88	-108	Dry at 1.25 gallons
11:10	NA		NA	NA	.32	NA	NA	NA	-102	Post sample 9/16/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/16/2014



Time:

10:45

Total Volume of Water Purged:

1

(gal)

HORIBA	
pH	6.28
DO (mg/L)	4.66
Turbidity (NTU)	84
Spec. Cond. (mS/cm)	.893
Temp.(°C)	16.15
ORP (mv)	-96

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	220
Ferrous Iron (mg/L)	1.2

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
				SW-846

Comments:

	Ethene		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Ethane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Methane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

ITMW-6

Manual Entry:

Well Diameter: 2

inches

Samplers:

Cheryl Huey

Purging Data

Method:

Disposable bailer & rope

Date:

09/17/2014



Time:

11:55

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

23.57

Depth to Well Bottom (ft):

48

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
11:20	23.57	NA	NA	NA	.19	NA	NA	NA	-122.3	PID 0.9
11:55	NA	NA	4	7.39	5.09	191	.874	17.92	-53	Dry at 4 gallons
08:15	NA		NA	NA	.88	NA	NA	NA	-1.8	Post sample 9/18/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/18/2014



Time:

0805

Total Volume of Water Purged:

4

(gal)

HORIBA

pH	7.18
DO (mg/L)	3.08
Turbidity (NTU)	27.8
Spec. Cond. (mS/cm)	.915
Temp.(°C)	14.75
ORP (mv)	-8

HACH TEST KITS

Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	200
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☐	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

DUP ITMW 106 9/17/14 08:20

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

ITMW-13

Manual Entry:

Well Diameter: 2

inches

Samplers:

Bill Simons

Purging Data

Method:

Disposable bailer & rope

Date:

09/15/2014



Time:

14:26

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

12.6

Depth to Well Bottom (ft):

20

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
13:36	12.6	NA	NA	NA	.15	NA	NA	NA	144.9	PID 0.0
14:26	NA		1.5	6.62	3.5	1589	1.38	18.48	-67	Dry at 1.5 gallons
10:30	NA		NA	NA	1.65	NA	NA	NA	-7.3	Post sample 9/16/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/16/2014



Time:

10:25

Total Volume of Water Purged:

1.5

(gal)

HORIBA

pH	6.06
DO (mg/L)	3.34
Turbidity (NTU)	63.1
Spec. Cond. (mS/cm)	1.5
Temp.(°C)	14.33
ORP (mv)	7

HACH TEST KITS

Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	180
Ferrous Iron (mg/L)	1.6

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

ITMW-25

Manual Entry:

Well Diameter: 2

inches

Samplers:

Bill Simons

Purging Data

Method:

Disposable bailer & rope

Date:

09/16/2014



Time:

14:45

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

13.04

Depth to Well Bottom (ft):

24.8

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
14:15	13.04	NA	NA	NA	.33	NA	NA	NA	-58.7	
14:45	NA		2	7.33	3.79	552	1.13	17.31	-107	Dry at 2.25 gallons
09:05	NA		NA	NA	1.70	NA	NA	NA	-28	Post sample 9/17/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/17/2014



Time:

08:40

Total Volume of Water Purged:

2

(gal)

HORIBA

pH	7.2
DO (mg/L)	2.48
Turbidity (NTU)	14.5
Spec. Cond. (mS/cm)	1.16
Temp.(°C)	16.34
ORP (mv)	-18.4

HACH TEST KITS

Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	100
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

ITMW-30

Manual Entry:

Well Diameter: 2

inches

Samplers:

Bill Simons

Purging Data

Method:

Disposable bailer & rope

Date:

09/18/2014



Time:

13:35

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

9.52

Depth to Well Bottom (ft):

14.78

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
13:30	9.52	NA	NA	NA	0.3	NA	NA	NA	-164.2	PID 0.2
13:35	NA		1	6.87	2.55	495	1.49	19.74	-121	
13:45	NA		2	6.8	3.17	>1000	1.45	19.4	-112	
13:50	NA		3	6.75	2.49	942	1.39	18.90	-108	
08:35	NA		NA	NA	0.49	NA	NA	NA	-63.7	Post sample 9/19/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/19/2014



Time:

08:20

Total Volume of Water Purged:

3

(gal)

HORIBA	
pH	6.56
DO (mg/L)	2.38
Turbidity (NTU)	142
Spec. Cond. (mS/cm)	1.53
Temp.(°C)	16.58
ORP (mv)	-107

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	300
Ferrous Iron (mg/L)	1.2

Comments:

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260

SW-846

	Ethene		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Ethane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Methane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
PARSONS					

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-2

Manual Entry:

Well Diameter:

inches

Samplers:

Cheryl Huey

Purging Data

Method:

Disposable bailer & rope

Date:

09/15/2014



Time:

14:39

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

7.22

Depth to Well Bottom (ft):

23.6

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
13:48	7.22	NA	NA	NA	.22	NA	NA	NA	-8.9	PID 0.0
14:39	NA		2.75	6.81	9.88	245	1.49	17.89	-65	
14:56	NA		5.5	6.95	3.51	335	1.51	16.96	-56	
15:02	NA		8.25	6.93	2.93	894	1.51	17.2	-57	
11:05	NA		NA	NA	.33	NA	NA	NA	-33.9	Post sample 9/16/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/16/2014



Time:

1040

Total Volume of Water Purged:

8.25 (gal)

HORIBA	
pH	6.42
DO (mg/L)	8.8
Turbidity (NTU)	430
Spec. Cond. (mS/cm)	1.56
Temp.(°C)	15.23
ORP (mv)	-52

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	260
Ferrous Iron (mg/L)	.6

Comments:

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260

SW-846

	Ethene		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Ethane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Methane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
PARSONS					

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-10

Manual Entry:

Well Diameter: 2

inches

Samplers:

Cheryl Huey

Purging Data

Method:

Disposable bailer & rope

Date:

09/16/2014



Time:

14:52

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

5.56

Depth to Well Bottom (ft):

9

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
14:35	5.56	NA	NA	NA	.26	NA	NA	NA	-81	PID 1.0
14:52	NA	NA	.5	6.90	3.12	685	1.47	20.91	-106	
14:56	NA	NA	1	6.91	2.04	>1000	1.47	20.81	-130	Dry at 1.25 gallons
08:50	NA		NA	NA	.78	NA	NA	NA	-89.9	Post sample 9/17/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/17/2014



Time:

08:25

Total Volume of Water Purged:

1.25 (gal)

HORIBA	
pH	6.72
DO (mg/L)	1.7
Turbidity (NTU)	1,000
Spec. Cond. (mS/cm)	1.6
Temp.(°C)	19.25
ORP (mv)	-95

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	380
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
				SW-846

Comments:

	Ethene		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Ethane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Methane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-14

Manual Entry:

Well Diameter: 2

inches

Samplers:

Bill Simons

Purging Data

Method:

Disposable bailer & rope

Date:

09/17/2014



Time:

16:05

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

9.77

Depth to Well Bottom (ft):

40

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
14:55	9.77	NA	NA	NA	1.74	NA	NA	NA	-11.7	PID 0.0
16:05	NA		5	7.52	8.66	375	1.28	15.13	61	Dry at 6 gallons
11:25	NA		NA	NA	1.8	NA	NA	NA	136.3	Post sample 9/18/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/18/2014



Time:

11:15

Total Volume of Water Purged:

6

(gal)

HORIBA

pH	7.29
DO (mg/L)	3.96
Turbidity (NTU)	28.7
Spec. Cond. (mS/cm)	1.26
Temp.(°C)	15.95
ORP (mv)	126

HACH TEST KITS

Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	240
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-15

Manual Entry:

Well Diameter: 2

inches

Samplers:

Bill Simons

Purging Data

Method:

Disposable bailer & rope

Date:

09/17/2014



Time:

12:00

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

19.67

Depth to Well Bottom (ft):

25

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
11:30	19.67	NA	NA	NA	.29	NA	NA	NA	-110.7	PID 161
12:00	NA		1	6.79	4.23	>1000	1.02	17.43	-100	Dry at 1 gallon
08:55	NA		NA	NA	.35	NA	NA	NA	-86.7	Post sample 9/18/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/18/2014



Time:

0830

Total Volume of Water Purged:

1 (gal)

HORIBA

pH	6.69
DO (mg/L)	2.54
Turbidity (NTU)	1,000
Spec. Cond. (mS/cm)	.994
Temp.(°C)	14.56
ORP (mv)	-66

HACH TEST KITS

Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	280
Ferrous Iron (mg/L)	1.8

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-21

Manual Entry:

Well Diameter: 2

inches

Samplers:

Bill Simons

Purging Data

Method:

Disposable bailer & rope

Date:

09/18/2014



Time:

13:20

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

8.31

Depth to Well Bottom (ft):

12

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments

Sampling Data

Method:

Disposable bailer & rope

Date:

09/19/2014



Time:

08:10

Total Volume of Water Purged:

2.5

(gal)

HORIBA	
pH	
DO (mg/L)	
Turbidity (NTU)	
Spec. Cond. (mS/cm)	
Temp.(°C)	
ORP (mv)	

HACH TEST KITS	
Phenol alkalinity (mg/L)	
Methyl alkalinity (mg/L)	
Ferrous Iron (mg/L)	

Comments:

DTP 8.21
PID 411

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS



WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-28

Manual Entry:

Well Diameter:

inches

Samplers:

Bill Simons

Purging Data

Method:

Disposable bailer & rope

Date:

09/18/2014



Time:

14:50

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

10

Depth to Well Bottom (ft):

16.5

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
14:40	10.00	NA	NA	NA	.41	NA	NA	NA	-141	PID 0.2
14:50	NA		1.25	7.19	2.34	>1000	1.32	17.36	-143	Dry at 1.75 gallons
09:55	NA		NA	NA	0.21	NA	NA	NA	-118	Post sample 9/18/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/19/2014



Time:

09:30

Total Volume of Water Purged:

1.75 (gal)

HORIBA

pH	6.95
DO (mg/L)	2.39
Turbidity (NTU)	577
Spec. Cond. (mS/cm)	1.43
Temp.(°C)	17.62
ORP (mv)	-136

HACH TEST KITS

Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	240
Ferrous Iron (mg/L)	1.2

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-31

Manual Entry:

Well Diameter: 4

inches

Samplers:

Bill Simons

Purging Data

Method:

Disposable bailer & rope

Date:

09/18/2014



Time:

13:35

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

7.46

Depth to Well Bottom (ft):

11.2

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
13:32	7.46	NA	NA	NA	0.28	NA	NA	NA	-118.5	PID
13:40	NA	NA	2.4	7.00	4.15	697	1.62	20.10	-126	Dry at 3.25 gallons
08:35	NA		NA	NA	.53	NA	NA	NA	-92	Post sample 9/19/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/19/2014



Time:

08:30

Total Volume of Water Purged:

3.25 (gal)

HORIBA	
pH	6.38
DO (mg/L)	7.91
Turbidity (NTU)	435
Spec. Cond. (mS/cm)	1.78
Temp.(°C)	15.99
ORP (mv)	-99

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	280
Ferrous Iron (mg/L)	1.2

Comments:

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-41

Manual Entry:

Well Diameter: 2

inches

Samplers:

Cheryl Huey

Purging Data

Method:

Disposable bailer & rope

Date:

09/17/2014



Time:

16:10

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

9.78

Depth to Well Bottom (ft):

45

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
14:55	9.78	NA	NA	NA	.28	NA	NA	NA	-95.8	PID 0.0
14:10	NA		6	7.22	7.39	752	1.35	14.69	-39	Dry at 6 gallons
10:30	NA		NA	NA	0.7	NA	NA	NA	36.8	Post sample 9/18/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/18/2014



Time:

11:00

Total Volume of Water Purged:

6

(gal)

HORIBA

pH	7.28
DO (mg/L)	1.65
Turbidity (NTU)	24.4
Spec. Cond. (mS/cm)	1.36
Temp.(°C)	17.54
ORP (mv)	43

HACH TEST KITS

Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	240
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-44

Manual Entry:

Well Diameter: 2

inches

Samplers:

Cheryl Huey

Purging Data

Method:

Disposable bailer & rope

Date:

09/16/2014



Time:

14:42

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

5.68

Depth to Well Bottom (ft):

30

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
14:20	5.68	NA	NA	NA	.6	NA	NA	NA	-103.6	PID 1.9
14:42	NA		4	7.08	6.11	33	1.39	18.19	-117	
14:48	NA		8	7.06	10.09	13.7	1.43	18.35	-27	
15:54	NA		12	7.00	10.11	24.8	1.4	19.24	-121	
08:45	NA		NA	NA	.38	NA	NA	NA	-77.8	Post sample 9/17/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/17/2014



Time:

08:35

Total Volume of Water Purged:

12 (gal)

HORIBA	
pH	6.97
DO (mg/L)	2.24
Turbidity (NTU)	23.1
Spec. Cond. (mS/cm)	1.52
Temp.(°C)	20.86
ORP (mv)	-111

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	100
Ferrous Iron (mg/L)	.3

Comments:

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260

SW-846

	Ethene		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Ethane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Methane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
PARSONS					

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-45

Manual Entry:

Well Diameter: 2

inches

Samplers:

Cheryl Huey

Purging Data

Method:

Disposable bailer & rope

Date:

09/15/2014



Time:

16:08

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

15.79

Depth to Well Bottom (ft):

31

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
15:52	15.79	NA	NA	NA	.24	NA	NA	NA	1.9	PID 119
16:08	NA		4	6.94	2.75	266	1.65	20.37	-73	Dry at 6 gallons
11:45	NA		NA	NA	3.47	NA	NA	NA	69.7	Post sample 9/16/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/16/2014



Time:

11:30

Total Volume of Water Purged:

4

(gal)

HORIBA

pH	6.55
DO (mg/L)	10.32
Turbidity (NTU)	38
Spec. Cond. (mS/cm)	1.46
Temp.(°C)	16.86
ORP (mv)	-7

HACH TEST KITS

Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	260
Ferrous Iron (mg/L)	1.1

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

Sheen observed while sampling

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-48

Manual Entry:

Well Diameter: 2

inches

Samplers:

Bill Simons

Purging Data

Method:

Disposable bailer & rope

Date:

09/16/2014



Time:

15:10

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

6.7

Depth to Well Bottom (ft):

10

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
14:25	6.7	NA	NA	NA	.22	NA	NA	NA	-75.1	PID 0.0
15:10	NA		.5	7.25	2.10	117	1.29	21.21	-112	Dry at .75 gallons
08:55	NA		NA	NA	.8	NA	NA	NA	-67.4	Post sample 9/17/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/17/2014



Time:

08:20

Total Volume of Water Purged:

0.75 (gal)

HORIBA	
pH	7.04
DO (mg/L)	5.99
Turbidity (NTU)	302
Spec. Cond. (mS/cm)	1.39
Temp.(°C)	18.08
ORP (mv)	-54

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	260
Ferrous Iron (mg/L)	0

Comments:

SAMPLE SET				
Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-55

Manual Entry:

Well Diameter: 2

inches

Samplers:

Bill Simons

Purging Data

Method:

Disposable bailer & rope

Date:

09/15/2014



Time:

15:50

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

17.22

Depth to Well Bottom (ft):

20

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
15:42	17.22	NA	NA	NA	2.35	NA	NA	NA	66.9	PID 0.0
15:50	NA		.5	6.9	6.71	147	.735	21.59	59	Dry at 0.5 gallons
11:55	NA		NA	NA	1.56	NA	NA	NA	6.5	Post sample 9/16/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/16/2014



Time:

11:40

Total Volume of Water Purged:

0.5 (gal)

HORIBA

pH	6.58
DO (mg/L)	2.92
Turbidity (NTU)	53.8
Spec. Cond. (mS/cm)	.764
Temp.(°C)	16.85
ORP (mv)	7

HACH TEST KITS

Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	160
Ferrous Iron (mg/L)	1.3

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-56

Manual Entry:

Well Diameter: 2

inches

Samplers:

Bill Simons

Purging Data

Method:

Submersible pump w/ dedicated tubing

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

24.11

Depth to Well Bottom (ft):

55

Date:

09/17/2014



Time:

11:55

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
11:25	24.11	NA	NA	NA	.92	NA	NA	NA	-89.5	PID 0.5
12:05	NA	NA	5	7.14	4.07	0	1.01	17.05	-79	Dry at 9 gallons
09:00	NA		NA	NA	2.08	NA	NA	NA	150	Post sample 9/18/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/18/2014



Time:

08:25

Total Volume of Water Purged:

9

(gal)

HORIBA

pH	7.29
DO (mg/L)	3.78
Turbidity (NTU)	579
Spec. Cond. (mS/cm)	1.02
Temp.(°C)	14.36
ORP (mv)	45

HACH TEST KITS

Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	260
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-58

Manual Entry:

Well Diameter: 2

inches

Samplers:

Bill Simons

Purging Data

Method:

Disposable bailer & rope

Date:

09/17/2014



Time:

13:50

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

15.09

Depth to Well Bottom (ft):

30

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
11:40	14.09	NA	NA	NA	2.18	NA	NA	NA	30.1	PID 0.0
13:50	NA		3	7.09	4.65	>1000	1.44	22.09	95	
13:58	NA		6	6.9	3.15	>1000	1.46	17.31	119	Dry at 6.5 gallons
09:35	NA		NA	NA	1.56	NA	NA	NA	172.4	Post sample 9/18/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/18/2014



Time:

09:00

Total Volume of Water Purged:

6.5 (gal)

HORIBA	
pH	7.01
DO (mg/L)	5.67
Turbidity (NTU)	164
Spec. Cond. (mS/cm)	1.35
Temp.(°C)	15.66
ORP (mv)	109

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	280
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
				SW-846

Comments:

	Ethene		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Ethane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Methane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-62

Manual Entry:

Well Diameter: 2

inches

Samplers:

Cheryl Huey

Purging Data

Method:

Disposable bailer & rope

Date:

09/17/2014



Time:

15:50

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

9.69

Depth to Well Bottom (ft):

19

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
14:50	9.69	NA	NA	NA	.16	NA	NA	NA	15.5	PID 0.0
15:50	NA		1.2	7.00	2.79	>1000	.815	16.29	103	Dry at 2 gallons
11:10	NA		NA	NA	1.4	NA	NA	NA	120.6	Post sample 9/18/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/18/2014



Time:

10:50

Total Volume of Water Purged:

2

(gal)

HORIBA

pH	6.99
DO (mg/L)	2.33
Turbidity (NTU)	41.1
Spec. Cond. (mS/cm)	.823
Temp.(°C)	16.08
ORP (mv)	113

HACH TEST KITS

Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	200
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-65

Manual Entry:

Well Diameter: 2

inches

Samplers:

Cheryl Huey

Purging Data

Method:

Disposable bailer & rope

Date:

09/18/2014



Time:

14:40

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

9.61

Depth to Well Bottom (ft):

16

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
14:30	9.61	NA	NA	NA	.53	NA	NA	NA	-75.1	PID 0.0
14:45	NA		1.25	7.47	6.43	>1000	1.25	20.47	-11	
14:50	NA		2.3	7.33	4.72	>1000	1.24	18.52	-53	Dry at 2.3 gallons
09:55	NA		NA	NA	1.99	NA	NA	NA	13.9	Post sample 9/18/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/19/2014



Time:

09:20

Total Volume of Water Purged:

2.3 (gal)

HORIBA	
pH	7.06
DO (mg/L)	4.06
Turbidity (NTU)	264
Spec. Cond. (mS/cm)	1.32
Temp.(°C)	17.63
ORP (mv)	91

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	180
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
				SW-846

Comments:

	Ethene		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Ethane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Methane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-66

Manual Entry:

Well Diameter: 2

inches

Samplers:

Cheryl Huey

Purging Data

Method:

Submersible pump w/ dedicated tubing

Date:

09/17/2014



Time:

13:55

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

21.91

Depth to Well Bottom (ft):

62

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
11:45	NA	NA	NA	NA	4.26	NA	NA	NA	-51.3	PID 0.0
13:55	NA	1500	6.5	7.2	7.59	782	2.27	18.28	113	
14:20	NA	1500	13	7.31	6.71	>1000	3.27	19.08	105	
14:40	NA		19.5	6.98	3.5	410	3.39	19.53	106	
09:25	NA		NA	NA	3.57	NA	NA	NA	179.8	Post sample 9/18/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/18/2014



Time:

08:45

Total Volume of Water Purged:

19.5 (gal)

HORIBA	
pH	6.99
DO (mg/L)	3.27
Turbidity (NTU)	110
Spec. Cond. (mS/cm)	3.04
Temp.(°C)	14.5
ORP (mv)	80

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	200
Ferrous Iron (mg/L)	0

Comments:

MS/MSD

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260

SW-846

	Ethene		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Ethane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Methane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
PARSONS					

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-67

Manual Entry:

Well Diameter: 2

inches

Samplers:

Cheryl Huey

Purging Data

Method:

Disposable bailer & rope

Date:

09/16/2014



Time:

16:00

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

17.52

Depth to Well Bottom (ft):

29.64

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
13:45	17.52	NA	NA	NA	2.43	NA	NA	NA	73.3	PID 0.0
16:00	NA		2	6.85	3.68	<1000	1.12	15.42	96	Dry at 2.25 gallons
10:00	NA		NA	NA	5.52	NA	NA	NA	88.7	Post sample 9/17/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/17/2014



Time:

09:40

Total Volume of Water Purged:

2.25 (gal)

HORIBA

pH	6.89
DO (mg/L)	5.22
Turbidity (NTU)	1,000
Spec. Cond. (mS/cm)	1.15
Temp.(°C)	13.3
ORP (mv)	131

HACH TEST KITS

Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	300
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-68

Manual Entry:

Well Diameter: 2

inches

Samplers:

Bill Simons

Purging Data

Method:

Submersible pump w/ dedicated tubing

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

28.2

Depth to Well Bottom (ft):

53.62

Date:

09/17/2014



Time:

10:55

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
15:50	28.2	NA	NA	NA	1.55	NA	NA	NA	50	PID 2.4
11:05	NA	1500	5	7.42	1.71	365	.992	17.32	100	
11:20	NA	1500	10	7.52	8.42	367	.976	18.88	103	
11:40	NA	1700	15	7.49	2.56	171	.973	19.35	97	
08:15	NA		NA	NA	4.45	NA	NA	NA	200	Post sample 9/18/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/18/2014



Time:

0800

Total Volume of Water Purged:

15 (gal)

HORIBA	
pH	7.09
DO (mg/L)	7.63
Turbidity (NTU)	54
Spec. Cond. (mS/cm)	1.05
Temp.(°C)	14.49
ORP (mv)	160

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	200
Ferrous Iron (mg/L)	0

Comments:

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260

SW-846

	Ethene		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Ethane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Methane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
PARSONS					

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-111

Manual Entry:

Well Diameter: 2

inches

Samplers:

Bill Simons

Purging Data

Method:

Submersible pump w/ dedicated tubing

Date:

09/16/2014



Time:

15:50

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

21.82

Depth to Well Bottom (ft):

60.5

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
15:25	21.82	NA	NA	NA	.05	NA	NA	NA	3.6	PID 0.0
15:50	NA	1500	6.5	7.31	3.36	183	1.36	17.25	59	
16:10	NA	1500	13	6.99	2.92	52.3	1.38	17.11	84	
16:30	NA	1600	20	7.07	2.92	241	1.25	15.65	104	
09:40	NA		NA	NA	2.29	NA	NA	NA	60.7	Post sample 9/17/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/17/2014



Time:

09:30

Total Volume of Water Purged:

20 (gal)

HORIBA	
pH	7.19
DO (mg/L)	4.62
Turbidity (NTU)	36.2
Spec. Cond. (mS/cm)	.601
Temp.(°C)	14.15
ORP (mv)	95

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	120
Ferrous Iron (mg/L)	0

Comments:

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260

SW-846

	Ethene		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Ethane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Methane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
PARSONS					

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-112

Manual Entry:

Well Diameter: 2

inches

Samplers:

Bill Simons

Purging Data

Method:

Submersible pump w/ dedicated tubing

Date:

09/17/2014



Time:

15:55

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

10.8

Depth to Well Bottom (ft):

64.4

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
14:40	10.8	NA	NA	NA	.35	NA	NA	NA	-119.3	PID 2.9
15:55	NA		9	7.06	2.55	601	1.51	15.54	-43	
16:05	NA		18	7.2	3.85	311	1.59	15.01	-39	Dry at 23 gallons
10:55	NA		NA	NA	.61	NA	NA	NA	111	Post sample 9/18/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/18/2014



Time:

10:25

Total Volume of Water Purged:

23

(gal)

HORIBA	
pH	7.07
DO (mg/L)	3.15
Turbidity (NTU)	48.1
Spec. Cond. (mS/cm)	1.58
Temp.(°C)	16.07
ORP (mv)	114

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	240
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
				SW-846

Comments:

	Ethene		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Ethane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Methane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-113

Manual Entry:

Well Diameter: 2

inches

Samplers:

Cheryl Huey

Purging Data

Method:

Disposable bailer & rope

Date:

09/17/2006



Time:

15:20

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

10.17

Depth to Well Bottom (ft):

30.9

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
14:50	10.17	NA	NA	NA	1.05	NA	NA	NA	-67.1	PID 0.0
15:20	NA		3.5	7.47	3.72	61.1	1.23	15.18	43	
15:25	NA		7	7.25	3.56	316	1.22	15.06	83	
15:30	NA		10.5	7.08	6.85	453	1.26	14.31	87	
11:00	NA		NA	NA	.54	NA	NA	NA	102.6	Post sample 9/18/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/18/2014



Time:

10:40

Total Volume of Water Purged:

10.5 (gal)

HORIBA	
pH	7.27
DO (mg/L)	2.45
Turbidity (NTU)	106
Spec. Cond. (mS/cm)	1.21
Temp. (°C)	16.26
ORP (mv)	105

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	240
Ferrous Iron (mg/L)	0

Comments:

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260

SW-846

	Ethene		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Ethane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Methane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
PARSONS					

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-114

Manual Entry:

Well Diameter: 2

inches

Samplers:

Cheryl Huey

Purging Data

Method:

Disposable bailer & rope

Date:

09/15/2014



Time:

13:59

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

16.72

Depth to Well Bottom (ft):

40

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
13:34	16.72	NA	NA	NA	.33	NA	NA	NA	186.3	PID 0.2
13:59	NA		4	6.95	8.88	0	.511	16.46	156	
14:04	NA		8	7.17	10.21	0	.498	15.09	124	
14:14	NA		12	6.95	12.46	0	.494	15.01	-9	Bubble is horiba sensor
10:25	NA		NA	NA	.3	NA	NA	NA	19.9	Post sample 9/16/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/16/2014



Time:

1020

Total Volume of Water Purged:

12 (gal)

HORIBA	
pH	6.36
DO (mg/L)	3.15
Turbidity (NTU)	11.4
Spec. Cond. (mS/cm)	.522
Temp.(°C)	14.68
ORP (mv)	37

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	140
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260

Comments:

MS/MSD

	Ethene		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Ethane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Methane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
PARSONS					

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-123

Manual Entry:

Well Diameter: 2

inches

Samplers:

Cheryl Huey

Purging Data

Method:

Submersible pump w/ dedicated tubing

Date:

09/16/2014



Time:

13:50

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

18.61

Depth to Well Bottom (ft):

79.25

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
15:42	18.61	NA	NA	NA	4.16	NA	NA	NA	72.8	PID 0.0
14:05	NA	1000	10	7.11	5.25	57.9	.988	18.88	116	Sheen and odor, dry at 11 gallons
08:10	NA		NA	NA	5.44	NA	NA	NA	145.7	Post sample 9/17/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/17/2014



Time:

08:00

Total Volume of Water Purged:

11 (gal)

HORIBA

pH	6.54
DO (mg/L)	4.40
Turbidity (NTU)	2.4
Spec. Cond. (mS/cm)	1.01
Temp.(°C)	13.32
ORP (mv)	156

HACH TEST KITS

Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	220
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-125

Manual Entry:

Well Diameter: 2

inches

Samplers:

Bill Simons

Purging Data

Method:

Disposable bailer & rope

Date:

09/15/2014



Time:

14:08

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

14.72

Depth to Well Bottom (ft):

41.8

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
13:32	14.72	NA	NA	NA	1.12	NA	NA	NA	144.2	PID 4.4
14:08	NA		4.5	6.95	8.99	.6	.452	15.64	-8	
14:13	NA		9	6.81	9.84	29.2	.439	15.8	-8	Bubble in horiba sensor
14:25	NA		13.5	23	19.67	142	.508	15.23	-14	
10:10	NA		NA	NA	.26	NA	NA	NA	-36	Post sample 6/16/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/16/2014



Time:

0945

Total Volume of Water Purged:

13.5 (gal)

HORIBA	
pH	5.95
DO (mg/L)	6.35
Turbidity (NTU)	60
Spec. Cond. (mS/cm)	.577
Temp.(°C)	16.35
ORP (mv)	-11

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	160
Ferrous Iron (mg/L)	.8

Comments:

DUP SWMW 1125 at 10:15

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260

SW-846

	Ethene		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Ethane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
	Methane		2- 40 ml vials	N/A	SW-846 8115B/RSK 175
PARSONS					

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

SWMW-126

Manual Entry:

Well Diameter: 2

inches

Samplers:

Bill Simons

Purging Data

Method:

Submersible pump w/ dedicated tubing

Date:

09/17/2014



Time:

15:00

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

9.72

Depth to Well Bottom (ft):

49.5

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
14:30	9.72	NA	NA	NA	.43	NA	NA	NA	-114.4	PID 0.6
15:15	NA	1500	7	7.45	1.95	86.8	1.26	17.82	-63	Dry at 12 gallons
10:40	NA		NA	NA	0.84	NA	NA	NA	45	Post sample 9/18/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/18/2014



Time:

10:20

Total Volume of Water Purged:

12

(gal)

HORIBA

pH	7.33
DO (mg/L)	3.29
Turbidity (NTU)	43.6
Spec. Cond. (mS/cm)	1.21
Temp.(°C)	16.51
ORP (mv)	70

HACH TEST KITS

Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	240
Ferrous Iron (mg/L)	0

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

Unknown Well 2

Manual Entry:

Well Diameter: 2

inches

Samplers:

Select...

Purging Data

Method:

Select...

Date:

Time:

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

7.95

Depth to Well Bottom (ft):

8

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments

Sampling Data

Method:

Disposable bailer & rope

Date:

Time:

Total Volume of Water Purged:

(gal)

HORIBA	
pH	
DO (mg/L)	
Turbidity (NTU)	
Spec. Cond. (mS/cm)	
Temp.(°C)	
ORP (mv)	

HACH TEST KITS	
Phenol alkalinity (mg/L)	
Methyl alkalinity (mg/L)	
Ferrous Iron (mg/L)	

Comments:

Not enough water to sample

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS



WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

Unknown Well 3

Manual Entry:

Well Diameter: 2

inches

Samplers:

Select...

Purging Data

Method:

Select...

Date:

Time:

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

7.36

Depth to Well Bottom (ft):

7.35

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments

Sampling Data

Method:

Disposable bailer & rope

Date:

Time:

Total Volume of Water Purged:

(gal)

HORIBA	
pH	
DO (mg/L)	
Turbidity (NTU)	
Spec. Cond. (mS/cm)	
Temp.(°C)	
ORP (mv)	

HACH TEST KITS	
Phenol alkalinity (mg/L)	
Methyl alkalinity (mg/L)	
Ferrous Iron (mg/L)	

Comments:

Not enough water to sample

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS



WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Well ID:

Unknown Well 1

Manual Entry:

Well Diameter: 2

inches

Samplers:

Cheryl Huey

Purging Data

Method:

Disposable bailer & rope

Date:

09/15/2014



Time:

14:47

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

7.41

Depth to Well Bottom (ft):

8.65

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
13:41	7.41	NA	NA	NA	.23	NA	NA	NA	-36	PID 0.0
14:47	NA		.25	6.48	3.28	59.6	.572	18.41	-70	Dry at .25 gallons
13:15	NA		NA	NA	.68	NA	NA	NA	-10.1	Post sample 9/16/14

Sampling Data

Method:

Disposable bailer & rope

Date:

09/16/2014



Time:

10:30

Total Volume of Water Purged:

0.25 (gal)

HORIBA	
pH	6.04
DO (mg/L)	2.36
Turbidity (NTU)	133
Spec. Cond. (mS/cm)	.628
Temp.(°C)	15.43
ORP (mv)	-28

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	160
Ferrous Iron (mg/L)	1.5

Comments:

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

WELL SAMPLING RECORD

Site Name:

Chevron TRC Beacon

Samplers:

Bill Simons

Purging Data

Method:

Disposable bailer & rope

Date:

11/03/2014

Time:

14:35

Well ID:

GT-2

Manual Entry:

Well Diameter:

2

inches

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):

5.4

Depth to Well Bottom (ft):

7.9

1-inch=0.041

1.5-inch=0.092

2-inch=0.16

3-inch=0.36

4-inch=0.64

6-inch=1.4

8-inch=2.5

10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
11:29	5.4	NA	NA	NA	.23	NA	NA	NA	-75	PID 0.0 ppm
14:35	NA	NA	.5	6.47	6.24	48.1	.770	15.10	-72	
14:40	NA	NA	1	6.77	14.92	61.7	.811	15.03	-76	
14:43	NA	NA	1.5	6.76	11.29	130	.796	14.9	-79	
10:20	NA	NA	NA	NA	1.21	NA	NA	NA	-92.4	Post sample 11/4/14 using YSI

Sampling Data

Method:

Disposable bailer & rope

Date:

11/04/2014

Time:

0955

Total Volume of Water Purged:

1.5

(gal)

HORIBA

pH	5.95	
DO (mg/L)	3.37	
Turbidity (NTU)	70	
Spec. Cond. (mS/cm)	.906	
Temp.(°C)	14.94	
ORP (mv)	-99	

HACH TEST KITS

Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	280
Ferrous Iron (mg/L)	2.0

Comments:

SAMPLE SET

Parameter		Bottle	Pres.	Method
Benzene	☑	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☑	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☑	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☑	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☑	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☑	2- 40 mL vials	N/A	EPA 300.0
Manganese	☑	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☑	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☑	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☑	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☑	250 mL poly or 2 40 mL vials	N/A	
Chloride	☑	2- 40 mL vials	N/A	EPA 300.0
cDCE	☑	3- 40 mL vials	N/A	SW-846 8260
Ethene	☑	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☑	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☑	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

PARSONS

WELL SAMPLING RECORD

Site Name: <u>Chevron TRC Beacon</u>							Well ID: <u>ITMW-6</u>					
Samplers: <u>Bill Simons</u>							Manual Entry: 		Well Diameter: <u>2</u> inches			
Purging Data							WATER VOLUME CALCULATION					
Method: Disposable bailer & rope							= (Total Depth of Well - Depth To Water) x Casing Volume per Foot					
Date: 11/05/2014							Time: 11:20		Initial Depth to Water (ft): 23.21		Depth to Well Bottom (ft): 48	
							1-inch=0.041		1.5-inch=0.092		2-inch=0.16	
							4-inch=0.64		6-inch=1.4		8-inch=2.5	
							10-inch=4					
Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments		
11:20	23.21	NA	NA	NA	0.23	NA	NA	NA	-74.6	PID 0.0 ppm		
11:35	NA	NA	4	7.02	8.77	70.2	.936	14.45	-47			
11:45	NA	NA	8	7.01	8.70	56.3	.890	14.11	-72			
11:55	NA	NA	12	6.98	3.85	76.8	.972	13.95	-80			
14:45	NA	NA	NA	NA	0.40	NA	NA	NA	65.5	Post sample 11/5/14		

Sampling Data		Date: 11/05/2014		Time: 14:15		Total Volume of Water Purged: 12 (gal)	
Method: Disposable bailer & rope							

HORIBA	
pH	6.92
DO (mg/L)	4.46
Turbidity (NTU)	48.1
Spec. Cond. (mS/cm)	1.01
Temp.(°C)	14.14
ORP (mv)	-16

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	240
Ferrous Iron (mg/L)	.8

SAMPLE SET				
Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

Dup collected at 14:25 ITMW 106 for sulfate (bottle breakage at ITMW 13 (Dup ITMW 113))

WELL SAMPLING RECORD

Site Name: Chevron TRC Beacon Samplers: Bill Simons							Well ID: ITMW-13 Manual Entry:		Well Diameter: <u>2</u> inches	
							WATER VOLUME CALCULATION = (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Method: Disposable bailer & rope							Initial Depth to Water (ft): 8.92		Depth to Well Bottom (ft): 19.6	
Date: 11/03/2014			Time: 14:00		1-inch=0.041 1.5-inch=0.092 2-inch=0.16 3-inch=0.36 4-inch=0.64 6-inch=1.4 8-inch=2.5 10-inch=4					
Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
10:48	8.92	NA	NA	NA	0	NA	NA	NA	-21.5	PID 0.0 ppm
14:05	NA	NA	2	6.34	6.02	878	1.31	14.26	57	Dry at 2 gallons
09:10	NA	NA	NA	NA	1.15	NA	NA	NA	70.1	Post sample 11/4/14 using YSI

Method: Disposable bailer & rope		Date: 11/04/2014	Time: 0840	Total Volume of Water Purged: 2 (gal)

HORIBA	
pH	5.41
DO (mg/L)	6.47
Turbidity (NTU)	15.2
Spec. Cond. (mS/cm)	1.64
Temp. (°C)	13.66
ORP (mv)	107

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	160
Ferrous Iron (mg/L)	1.2

SAMPLE SET				
Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

Dup ITMW 113 at 0900

WELL SAMPLING RECORD

Site Name: Chevron TRC Beacon Samplers: Bill Simons							Well ID: ITMW-25 Manual Entry: 		Well Diameter: <u>2</u> inches																																																																																																																	
							WATER VOLUME CALCULATION																																																																																																																			
							= (Total Depth of Well - Depth To Water) x Casing Volume per Foot																																																																																																																			
Purging Data Method: Disposable bailer & rope							Initial Depth to Water (ft): 11.9		Depth to Well Bottom (ft): 24.8																																																																																																																	
Date: 11/04/2014			Time: 14:50		1-inch=0.041 1.5-inch=0.092 2-inch=0.16 3-inch=0.36 4-inch=0.64 6-inch=1.4 8-inch=2.5 10-inch=4																																																																																																																					
Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments																																																																																																																
14:50	11.9	NA	NA	NA	.18	NA	NA	NA	-40	PID 0.0 ppm																																																																																																																
15:30	NA	NA	2	6.67	5.55	705	1.21	16.15	-90	Dry at 3.5 gallons																																																																																																																
10:05	NA	NA	NA	NA	2.43	NA	NA	NA	115	Post sample 11/5/14																																																																																																																
Sampling Data Method: Disposable bailer & rope Date: 11/05/2014 Time: 10:00 Total Volume of Water Purged: 3.5 (gal)																																																																																																																										
<table border="1" style="width:100%; border-collapse: collapse;"> <tr><th colspan="2">HORIBA</th></tr> <tr><td>pH</td><td>6.68</td></tr> <tr><td>DO (mg/L)</td><td>8.77</td></tr> <tr><td>Turbidity (NTU)</td><td>14.4</td></tr> <tr><td>Spec. Cond. (mS/cm)</td><td>1.06</td></tr> <tr><td>Temp. (°C)</td><td>15.74</td></tr> <tr><td>ORP (mv)</td><td>-20</td></tr> </table>			HORIBA		pH	6.68	DO (mg/L)	8.77	Turbidity (NTU)	14.4	Spec. Cond. (mS/cm)	1.06	Temp. (°C)	15.74	ORP (mv)	-20	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><th colspan="2">HACH TEST KITS</th></tr> <tr><td>Phenol alkalinity (mg/L)</td><td>0</td></tr> <tr><td>Methyl alkalinity (mg/L)</td><td>240</td></tr> <tr><td>Ferrous Iron (mg/L)</td><td>0</td></tr> </table>			HACH TEST KITS		Phenol alkalinity (mg/L)	0	Methyl alkalinity (mg/L)	240	Ferrous Iron (mg/L)	0	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><th colspan="5">SAMPLE SET</th></tr> <tr> <th>Parameter</th><th></th><th>Bottle</th><th>Pres.</th><th>Method</th></tr> <tr><td>Benzene</td><td>☒</td><td>3- 40 mL vials</td><td>N/A</td><td>SW-846 8260</td></tr> <tr><td>Chlorobenzene</td><td>☒</td><td>3- 40 mL vials</td><td>N/A</td><td>SW-846 8260</td></tr> <tr><td>Trichloroethene</td><td>☒</td><td>3- 40 mL vials</td><td>N/A</td><td>SW-846 8260</td></tr> <tr><td>Vinyl chloride</td><td>☒</td><td>3- 40 mL vials</td><td>N/A</td><td>SW-846 8260</td></tr> <tr><td>Alkalinity</td><td>☒</td><td>250 mL poly</td><td>N/A</td><td>SM 2320 B-1997</td></tr> <tr><td>Nitrate</td><td>☒</td><td>2- 40 mL vials</td><td>N/A</td><td>EPA 300.0</td></tr> <tr><td>Manganese</td><td>☒</td><td>250 mL</td><td>HNO3</td><td>SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8</td></tr> <tr><td>Iron (II)</td><td>☒</td><td>250 mL amber glass</td><td>HCl</td><td>SM 3500-Fe B</td></tr> <tr><td>Sulfate</td><td>☒</td><td>2- 40 mL vials</td><td>N/A</td><td>EPA 300.0</td></tr> <tr><td>Sulfide</td><td>☒</td><td>250 mL poly</td><td>NaOH/Zinc Acetate</td><td>SM 4500-S2 D-2000</td></tr> <tr><td>Carbon dioxide</td><td>☒</td><td>250 mL poly or 2 40 mL vials</td><td>N/A</td><td></td></tr> <tr><td>Chloride</td><td>☒</td><td>2- 40 mL vials</td><td>N/A</td><td>EPA 300.0</td></tr> <tr><td>cDCE</td><td>☒</td><td>3- 40 mL vials</td><td>N/A</td><td>SW-846 8260</td></tr> <tr><td>Ethene</td><td>☒</td><td>2- 40 ml vials</td><td>N/A</td><td>SW-846 8115B/RSK 175</td></tr> <tr><td>Ethane</td><td>☒</td><td>2- 40 ml vials</td><td>N/A</td><td>SW-846 8115B/RSK 175</td></tr> <tr><td>Methane</td><td>☒</td><td>2- 40 ml vials</td><td>N/A</td><td>SW-846 8115B/RSK 175</td></tr> </table>					SAMPLE SET					Parameter		Bottle	Pres.	Method	Benzene	☒	3- 40 mL vials	N/A	SW-846 8260	Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260	Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260	Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260	Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997	Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0	Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8	Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B	Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0	Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000	Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A		Chloride	☒	2- 40 mL vials	N/A	EPA 300.0	cDCE	☒	3- 40 mL vials	N/A	SW-846 8260	Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175	Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175	Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
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PARSONS

WELL SAMPLING RECORD

Site Name: <u>Chevron TRC Beacon</u>				Well ID: <u>SWMW-2</u>		Well Diameter: <u>2</u> inches				
				Manual Entry: 						
Samplers: <u>Bill Simons</u>				WATER VOLUME CALCULATION						
Purging Data				= (Total Depth of Well - Depth To Water) x Casing Volume per Foot						
Method: Disposable bailer & rope				Initial Depth to Water (ft): 6.55		Depth to Well Bottom (ft): 22				
Date: 11/03/2014		Time: 14:30		1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36			
				4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4			
Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
11:25	6.55	NA	NA	NA	2.48	NA	NA	NA	230	PID 0.0 ppm
14:30	NA	NA	2.5	6.68	13.21	168	1.03	15.03	-60	
14:40	NA	NA	5	6.73	13.17	145	1.01	15.05	-61	
14:45	NA	NA	7.5	6.81	8.85	133	1.01	14.95	-53	
10:25	NA	NA	NA	NA	0.39	NA	NA	NA	-34	Post sample using YSI

Method: Disposable bailer & rope		Date: 11/04/2014	Time: 0950	Total Volume of Water Purged: 7.5 (gal)

<table border="1" style="width:100%; border-collapse: collapse;"> <tr><th colspan="2">HORIBA</th></tr> <tr><td>pH</td><td>5.85</td></tr> <tr><td>DO (mg/L)</td><td>3.52</td></tr> <tr><td>Turbidity (NTU)</td><td>5.62</td></tr> <tr><td>Spec. Cond. (mS/cm)</td><td>1.12</td></tr> <tr><td>Temp. (°C)</td><td>15.10</td></tr> <tr><td>ORP (mv)</td><td>-18</td></tr> </table>	HORIBA		pH	5.85	DO (mg/L)	3.52	Turbidity (NTU)	5.62	Spec. Cond. (mS/cm)	1.12	Temp. (°C)	15.10	ORP (mv)	-18	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><th colspan="2">HACH TEST KITS</th></tr> <tr><td>Phenol alkalinity (mg/L)</td><td>0</td></tr> <tr><td>Methyl alkalinity (mg/L)</td><td>280</td></tr> <tr><td>Ferrous Iron (mg/L)</td><td>.6</td></tr> </table>	HACH TEST KITS		Phenol alkalinity (mg/L)	0	Methyl alkalinity (mg/L)	280	Ferrous Iron (mg/L)	.6	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><th colspan="5">SAMPLE SET</th></tr> <tr><th>Parameter</th><th></th><th>Bottle</th><th>Pres.</th><th>Method</th></tr> <tr><td>Benzene</td><td>☒</td><td>3- 40 mL vials</td><td>N/A</td><td>SW-846 8260</td></tr> <tr><td>Chlorobenzene</td><td>☒</td><td>3- 40 mL vials</td><td>N/A</td><td>SW-846 8260</td></tr> <tr><td>Trichloroethene</td><td>☒</td><td>3- 40 mL vials</td><td>N/A</td><td>SW-846 8260</td></tr> <tr><td>Vinyl chloride</td><td>☒</td><td>3- 40 mL vials</td><td>N/A</td><td>SW-846 8260</td></tr> <tr><td>Alkalinity</td><td>☒</td><td>250 mL poly</td><td>N/A</td><td>SM 2320 B-1997</td></tr> <tr><td>Nitrate</td><td>☒</td><td>2- 40 mL vials</td><td>N/A</td><td>EPA 300.0</td></tr> <tr><td>Manganese</td><td>☒</td><td>250 mL</td><td>HNO3</td><td>SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8</td></tr> <tr><td>Iron (II)</td><td>☒</td><td>250 mL amber glass</td><td>HCl</td><td>SM 3500-Fe B</td></tr> <tr><td>Sulfate</td><td>☒</td><td>2- 40 mL vials</td><td>N/A</td><td>EPA 300.0</td></tr> <tr><td>Sulfide</td><td>☒</td><td>250 mL poly</td><td>NaOH/Zinc Acetate</td><td>SM 4500-S2 D-2000</td></tr> <tr><td>Carbon dioxide</td><td>☒</td><td>250 mL poly or 2 40 mL vials</td><td>N/A</td><td></td></tr> <tr><td>Chloride</td><td>☒</td><td>2- 40 mL vials</td><td>N/A</td><td>EPA 300.0</td></tr> <tr><td>cDCE</td><td>☒</td><td>3- 40 mL vials</td><td>N/A</td><td>SW-846 8260</td></tr> <tr><td>Ethene</td><td>☒</td><td>2- 40 ml vials</td><td>N/A</td><td>SW-846 8115B/RSK 175</td></tr> <tr><td>Ethane</td><td>☒</td><td>2- 40 ml vials</td><td>N/A</td><td>SW-846 8115B/RSK 175</td></tr> <tr><td>Methane</td><td>☒</td><td>2- 40 ml vials</td><td>N/A</td><td>SW-846 8115B/RSK 175</td></tr> </table>	SAMPLE SET					Parameter		Bottle	Pres.	Method	Benzene	☒	3- 40 mL vials	N/A	SW-846 8260	Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260	Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260	Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260	Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997	Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0	Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8	Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B	Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0	Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000	Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A		Chloride	☒	2- 40 mL vials	N/A	EPA 300.0	cDCE	☒	3- 40 mL vials	N/A	SW-846 8260	Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175	Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175	Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
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WELL SAMPLING RECORD

Site Name: <u>Chevron TRC Beacon</u>							Well ID: <u>SWMW-10</u>					
Samplers: <u>Bill Simons</u>							Manual Entry: 		Well Diameter: <u>2</u> inches			
Purging Data							WATER VOLUME CALCULATION					
Method: Disposable bailer & rope							= (Total Depth of Well - Depth To Water) x Casing Volume per Foot					
Date: 11/04/2014							Time: 14:45		Initial Depth to Water (ft): 4.46		Depth to Well Bottom (ft): 9	
							1-inch=0.041		1.5-inch=0.092		2-inch=0.16	
							4-inch=0.64		6-inch=1.4		8-inch=2.5	
							10-inch=4					
Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments		
14:45	4.46	NA	NA	NA	.47	NA	NA	NA	238	PID 0.6 ppm		
15:15	NA	NA	.75	6.52	3.35	99.4	1.51	18.83	-79			
15:20	NA	NA	1.5	6.46	5.50	647	1.42	18.88	-86	Dry at 2 gallons		
10:05	NA	NA	NA	NA	0.19	NA	NA	NA	-64	Post sample 11/5/14		

Sampling Data

Method: Disposable bailer & rope	Date: 11/05/2014	Time: 09:40	Total Volume of Water Purged: 2 (gal)

HORIBA	
pH	6.58
DO (mg/L)	4.06
Turbidity (NTU)	15.2
Spec. Cond. (mS/cm)	1.4
Temp. (°C)	16.98
ORP (mv)	-80

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	400
Ferrous Iron (mg/L)	1

SAMPLE SET				
Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

PARSONS

WELL SAMPLING RECORD

Site Name: <u>Chevron TRC Beacon</u>							Well ID: <u>SWMW-14</u>				
Samplers: <u>Bill Simons</u>							Manual Entry: 		Well Diameter: <u>2</u> inches		
Purging Data							WATER VOLUME CALCULATION				
Method: Disposable bailer & rope							= (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
Date: 11/06/2014							Time: 15:20				
Initial Depth to Water (ft): 9.91							Depth to Well Bottom (ft): 40				
1-inch=0.041 1.5-inch=0.092 2-inch=0.16 3-inch=0.36											
4-inch=0.64 6-inch=1.4 8-inch=2.5 10-inch=4											

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
15:20	9.91	NA	NA	NA	4.29	NA	NA	NA	127.8	PID 0.0 ppm
15:40	NA	NA	5	7.28	9.10	279	.834	11.95	-14	
15:50	NA	NA	10	7.23	5.32	>1000	1.19	11.61	47	Dry at 11.5 gallons
09:50	NA	NA	NA	NA	1.90	NA	NA	NA	224	Post sampling

Sampling Data

Method: Disposable bailer & rope	Date: 11/07/2014	Time: 09:50	Total Volume of Water Purged: 11.5 (gal)

HORIBA		HACH TEST KITS		SAMPLE SET				
pH	7.09	Phenol alkalinity (mg/L)	0	Parameter		Bottle	Pres.	Method
DO (mg/L)	7.28	Methyl alkalinity (mg/L)	280	Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Turbidity (NTU)	1	Ferrous Iron (mg/L)	0	Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Spec. Cond. (mS/cm)	1.20			Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Temp.(°C)	13.61			Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
ORP (mv)	187			Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Comments: 				Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
				Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
				Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
				Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
				Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
				Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
				Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
				cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
				Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
				Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175				

PARSONS

WELL SAMPLING RECORD

Site Name: Chevron TRC Beacon							Well ID: SWMW-15		Well Diameter: <u>2</u> inches																																																																																																								
							Manual Entry: 																																																																																																										
Samplers: Bill Simons							WATER VOLUME CALCULATION																																																																																																										
Purging Data Method: Disposable bailer & rope Date: 11/05/2014 Time: 15:00							Initial Depth to Water (ft): 18.1		Depth to Well Bottom (ft): 25																																																																																																								
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15:00	18.1	NA	NA	NA	0.27	NA	NA	NA	22.9	PID 43.2 ppm																																																																																																							
15:15	NA	NA	1.2	6.53	3.72	Over	1.08	15.13	-72	Dry at 1.5 gallons																																																																																																							
09:00	NA	NA	NA	NA	0.71	NA	NA	NA	8.2	Post sample 11/6/14																																																																																																							
Sampling Data Method: Disposable bailer & rope Date: 11/06/2014 Time: 08:30 Total Volume of Water Purged: 1.5 (gal)																																																																																																																	
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PARSONS

WELL SAMPLING RECORD

Site Name: <u>Chevron TRC Beacon</u>							Well ID: <u>SWMW-21</u>		Well Diameter: <u>2</u> inches		
							Manual Entry: 				
Samplers: <u>Bill Simons</u>							WATER VOLUME CALCULATION = (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
Purging Data Method: <u>Disposable bailer & rope</u>							Initial Depth to Water (ft): 		Depth to Well Bottom (ft): 12		
Date: 11/10/2014				Time: 10:00			1-inch=0.041		1.5-inch=0.092		
							4-inch=0.64		6-inch=1.4		
Time (24hrs)		DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments

Sampling Data

Method: <u>Disposable bailer & rope</u>	Date: 11/11/2014	Time: 09:15	Total Volume of Water Purged: 5 (gal)

HORIBA	
pH	
DO (mg/L)	
Turbidity (NTU)	
Spec. Cond. (mS/cm)	
Temp.(°C)	
ORP (mv)	

HACH TEST KITS	
Phenol alkalinity (mg/L)	
Methyl alkalinity (mg/L)	
Ferrous Iron (mg/L)	

SAMPLE SET				
Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

PARSONS

WELL SAMPLING RECORD

Site Name: <u>Chevron TRC Beacon</u>							Well ID: <u>SWMW-28</u>				
Samplers: <u>Bill Simons</u>							Manual Entry: 		Well Diameter: <u>2</u> inches		
Purging Data							WATER VOLUME CALCULATION = (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
Method: Disposable bailer & rope							Initial Depth to Water (ft): 9.81		Depth to Well Bottom (ft): 16.5		
Date: 11/04/2014				Time: 13:45			1-inch=0.041		1.5-inch=0.092		
							2-inch=0.16		3-inch=0.36		
							4-inch=0.64		6-inch=1.4		
							8-inch=2.5		10-inch=4		
Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments	
13:45	9.81	NA	NA	NA	.35	NA	NA	NA	-119	PID 0.0 ppm	
13:50	NA	NA	1.1	6.38	7.42	1275	1.38	18.82	-124		
14:00	NA	NA	2.2	6.37	7.51	1624	1.42	17.50	-134		
14:10	NA	NA	3.5	6.36	3.56	1593	1.43	16.84	-133		
08:45	NA	NA	NA	NA	0.12	NA	NA	NA	-111	Post sample 11/5/14	

Sampling Data		Date: 11/05/2014		Time: 08:25		Total Volume of Water Purged: 3.5 (gal)	
Method: Disposable bailer & rope							

HORIBA		HACH TEST KITS		SAMPLE SET			
pH	6.13	Phenol alkalinity (mg/L)	0	Parameter	Bottle	Pres.	Method
DO (mg/L)	5.20	Methyl alkalinity (mg/L)	200	Benzene	☒ 3- 40 mL vials	N/A	SW-846 8260
Turbidity (NTU)	52.6	Ferrous Iron (mg/L)	.8	Chlorobenzene	☒ 3- 40 mL vials	N/A	SW-846 8260
Spec. Cond. (mS/cm)	1.35			Trichloroethene	☒ 3- 40 mL vials	N/A	SW-846 8260
Temp.(°C)	15.85			Vinyl chloride	☒ 3- 40 mL vials	N/A	SW-846 8260
ORP (mv)	-124			Alkalinity	☒ 250 mL poly	N/A	SM 2320 B-1997
				Nitrate	☒ 2- 40 mL vials	N/A	EPA 300.0
				Manganese	☒ 250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
				Iron (II)	☒ 250 mL amber glass	HCl	SM 3500-Fe B
				Sulfate	☒ 2- 40 mL vials	N/A	EPA 300.0
				Sulfide	☒ 250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
				Carbon dioxide	☒ 250 mL poly or 2 40 mL vials	N/A	
				Chloride	☒ 2- 40 mL vials	N/A	EPA 300.0
				cDCE	☒ 3- 40 mL vials	N/A	SW-846 8260
				Ethene	☒ 2- 40 ml vials	N/A	SW-846 8115B/RSK 175
				Ethane	☒ 2- 40 ml vials	N/A	SW-846 8115B/RSK 175
				Methane	☒ 2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Comments: 							

WELL SAMPLING RECORD

Site Name: <u>Chevron TRC Beacon</u>							Well ID: <u>SWMW-30</u>				
Samplers: <u>Bill Simons</u>							Manual Entry: 		Well Diameter: <u>2</u> inches		
Purging Data							WATER VOLUME CALCULATION = (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
Method: Disposable bailer & rope							Initial Depth to Water (ft): 9.04		Depth to Well Bottom (ft): 14.78		
Date: 11/10/2014				Time: 09:45			1-inch=0.041		1.5-inch=0.092		
							2-inch=0.16		3-inch=0.36		
							4-inch=0.64		6-inch=1.4		
							8-inch=2.5		10-inch=4		
Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments	
09:45	9.04	NA	NA	NA	0.21	NA	NA	NA	-142		
10:00	NA	NA	1	6.12	5.05	111	1.42	17.32	-78		
10:10	NA	NA	2	6.31	5.35	879	1.61	16.30	-105		
10:15	NA	NA	3	6.32	5.29	962	1.36	15.87	-95		
09:45	NA	NA	NA	NA	0.3	NA	NA	NA	-105.6	Post sample 11/11/14	

Sampling Data		Date: 11/11/2014		Time: 09:20		Total Volume of Water Purged: 3 (gal)	
Method: Disposable bailer & rope							

HORIBA	
pH	6.09
DO (mg/L)	5.09
Turbidity (NTU)	9.02
Spec. Cond. (mS/cm)	1.46
Temp. (°C)	13.53
ORP (mv)	-71

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	280
Ferrous Iron (mg/L)	1.4

SAMPLE SET				
Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

PARSONS

WELL SAMPLING RECORD

Site Name: <u>Chevron TRC Beacon</u>							Well ID: <u>SWMW-31</u>				
Samplers: <u>Bill Simons</u>							Manual Entry: 		Well Diameter: <u>4</u> inches		
Purging Data							WATER VOLUME CALCULATION = (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
Method: Disposable bailer & rope							Initial Depth to Water (ft): 7.34		Depth to Well Bottom (ft): 11.2		
Date: 11/10/2014				Time: 09:50			1-inch=0.041 4-inch=0.64		1.5-inch=0.092 6-inch=1.4		
								2-inch=0.16 8-inch=2.5		3-inch=0.36 10-inch=4	
Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments	
09:50	7.34	NA	NA	NA	0.12	NA	NA	NA	-114		
10:10	NA	NA	2.5	6.33	3.09	2441	1.64	15.63	-105		
10:15	NA	NA	5	6.37	4.50	1436	1.74	15.25	-108		
10:20	NA	NA	7.5	6.39	3.75	1901	1.74	15.21	-110		
09:50	NA	NA	NA	NA	0.3	NA	NA	NA	-95	Post sample 11/11/14	

Sampling Data		Date: 11/11/2014		Time: 09:35		Total Volume of Water Purged: 7.5 (gal)	
Method: Disposable bailer & rope							

HORIBA	
pH	6.27
DO (mg/L)	4.62
Turbidity (NTU)	16.9
Spec. Cond. (mS/cm)	1.73
Temp. (°C)	13.63
ORP (mv)	-95

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	400
Ferrous Iron (mg/L)	.8

SAMPLE SET				
Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

PARSONS

WELL SAMPLING RECORD

Site Name: <u>Chevron TRC Beacon</u>							Well ID: <u>SWMW-41</u>				
Samplers: <u>Bill Simons</u>							Manual Entry: 		Well Diameter: <u>2</u> inches		
Purging Data							WATER VOLUME CALCULATION = (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
Method: Submersible pump w/ dedicated tubing							Initial Depth to Water (ft): 11.96		Depth to Well Bottom (ft): 45		
Date: 11/06/2014				Time: 15:10			1-inch=0.041 1.5-inch=0.092		2-inch=0.16 3-inch=0.36		
							4-inch=0.64 6-inch=1.4		8-inch=2.5 10-inch=4		
Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments	
15:10	11.96	NA	NA	NA	0.56	NA	NA	NA	4.2	PID 0.0 ppm	
15:25	NA	NA	5.5	7.18	8.55	>1000	1.38	12.92	-20		
15:35	NA	NA	11	7.09	7.92	555	1.38	12.55	-25	Dry at 15 gallons	
08:55	NA	NA	NA	NA	0.46	NA	NA	NA	114.6	Post sampling	

Sampling Data

Method: <u>Disposable bailer & rope</u>	Date: 11/07/2014	Time: 08:55	Total Volume of Water Purged: 15 (gal)

HORIBA	
pH	6.87
DO (mg/L)	3.34
Turbidity (NTU)	10.12
Spec. Cond. (mS/cm)	1.36
Temp. (°C)	12.35
ORP (mv)	181

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	240
Ferrous Iron (mg/L)	0

SAMPLE SET				
Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

PARSONS

WELL SAMPLING RECORD

Site Name: <u>Chevron TRC Beacon</u>							Well ID: <u>SWMW-44</u>				
Samplers: <u>Bill Simons</u>							Manual Entry: 		Well Diameter: <u>2</u> inches		
Purging Data							WATER VOLUME CALCULATION = (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
Method: Disposable bailer & rope							Initial Depth to Water (ft): 4.5		Depth to Well Bottom (ft): 30		
Date: 11/04/2014				Time: 14:40			1-inch=0.041 4-inch=0.64		1.5-inch=0.092 6-inch=1.4		
								2-inch=0.16 8-inch=2.5		3-inch=0.36 10-inch=4	
Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments	
14:40	4,5	NA	NA	NA	.82	NA	NA	NA	270	PID 6.9 ppm	
14:50	NA	NA	4.1	6.51	4.13	3.23	1.5	20.13	-48		
15:00	NA	NA	8.2	6.51	7.22	3.79	1.51	18.79	-73		
15:05	NA	NA	12.5	6.63	7.56	4.03	1.50	18.47	-50		
10:00	NA	NA	NA	NA	1.32	NA	NA	NA	-25.8	Post sample 11/5/14	

Sampling Data		Date: 11/05/2014		Time: 09:35		Total Volume of Water Purged: 12.5 (gal)	
Method: Disposable bailer & rope							

HORIBA	
pH	6.53
DO (mg/L)	6.94
Turbidity (NTU)	16.8
Spec. Cond. (mS/cm)	1.38
Temp. (°C)	17.29
ORP (mv)	-35

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	360
Ferrous Iron (mg/L)	.8

SAMPLE SET				
Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

PARSONS

WELL SAMPLING RECORD

Site Name: <u>Chevron TRC Beacon</u>							Well ID: <u>SWMW-45</u>					
Samplers: <u>Bill Simons</u>							Manual Entry: 		Well Diameter: <u>2</u> inches			
Purging Data							WATER VOLUME CALCULATION					
Method: Disposable bailer & rope							= (Total Depth of Well - Depth To Water) x Casing Volume per Foot					
Date: 11/03/2014							Time: 15:05		Initial Depth to Water (ft): 15		Depth to Well Bottom (ft): 30.3	
1-inch=0.041							1.5-inch=0.092		2-inch=0.16		3-inch=0.36	
4-inch=0.64							6-inch=1.4		8-inch=2.5		10-inch=4	
Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments		
11:45	15	NA	NA	NA	.36	NA	NA	NA	-9.1	PID 398 ppm		
15:05	NA	NA	2.5	6.85	10.05	722	1.53	15.98	-32			
15:15	NA	NA	5	6.86	7.69	1097	1.65	15.41	-50	Dry at 5.5 gallons		
11:30	NA	NA	NA	NA	0.29	NA	NA	NA	-2.9	Post sample 11/4/14 using YSI		

Sampling Data			Method: Disposable bailer & rope			Date: 11/04/2014			Time: 10:25			Total Volume of Water Purged: 5.5 (gal)		

HORIBA	
pH	6.03
DO (mg/L)	2.78
Turbidity (NTU)	27
Spec. Cond. (mS/cm)	1.53
Temp. (°C)	19.45
ORP (mv)	-41

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	320
Ferrous Iron (mg/L)	.8

SAMPLE SET				
Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

PARSONS

WELL SAMPLING RECORD

Site Name: Chevron TRC Beacon							Well ID: SWMW-48																																																																																																										
							Manual Entry: 																																																																																																										
							Samplers: Bill Simons							Well Diameter: <u>2</u> inches																																																																																																			
Purging Data Method: Disposable bailer & rope Date: 11/04/2014 Time: 14:55							WATER VOLUME CALCULATION																																																																																																										
							= (Total Depth of Well - Depth To Water) x Casing Volume per Foot																																																																																																										
							Initial Depth to Water (ft): 6.3		Depth to Well Bottom (ft): 10																																																																																																								
1-inch=0.041		1.5-inch=0.092		2-inch=0.16		3-inch=0.36																																																																																																											
4-inch=0.64		6-inch=1.4		8-inch=2.5		10-inch=4																																																																																																											
Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments																																																																																																							
14:55	6.3	NA	NA	NA	0.21	NA	NA	NA	-52	PID 0.0 ppm																																																																																																							
15:15	NA	NA	.6	6.51	7.65	108	1.26	18.23	-81	Dry at 0.75 gallon																																																																																																							
10:15	NA	NA	NA	NA	0.6	NA	NA	NA	-44	Post sample 11/5/14																																																																																																							
Sampling Data Method: Disposable bailer & rope Date: 11/05/2014 Time: 10:05 Total Volume of Water Purged: 0.75 (gal)																																																																																																																	
HORIBA <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>pH</td><td>6.65</td></tr> <tr><td>DO (mg/L)</td><td>3.03</td></tr> <tr><td>Turbidity (NTU)</td><td>11.09</td></tr> <tr><td>Spec. Cond. (mS/cm)</td><td>1.23</td></tr> <tr><td>Temp. (°C)</td><td>16.54</td></tr> <tr><td>ORP (mv)</td><td>-60</td></tr> </table>			pH	6.65	DO (mg/L)	3.03	Turbidity (NTU)	11.09	Spec. Cond. (mS/cm)	1.23	Temp. (°C)	16.54	ORP (mv)	-60	HACH TEST KITS <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>Phenol alkalinity (mg/L)</td><td>0</td></tr> <tr><td>Methyl alkalinity (mg/L)</td><td>200</td></tr> <tr><td>Ferrous Iron (mg/L)</td><td>0</td></tr> </table>			Phenol alkalinity (mg/L)	0	Methyl alkalinity (mg/L)	200	Ferrous Iron (mg/L)	0	SAMPLE SET <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Parameter</th> <th></th> <th>Bottle</th> <th>Pres.</th> <th>Method</th> </tr> </thead> <tbody> <tr><td>Benzene</td><td>☒</td><td>3- 40 mL vials</td><td>N/A</td><td>SW-846 8260</td></tr> <tr><td>Chlorobenzene</td><td>☒</td><td>3- 40 mL vials</td><td>N/A</td><td>SW-846 8260</td></tr> <tr><td>Trichloroethene</td><td>☒</td><td>3- 40 mL vials</td><td>N/A</td><td>SW-846 8260</td></tr> <tr><td>Vinyl chloride</td><td>☒</td><td>3- 40 mL vials</td><td>N/A</td><td>SW-846 8260</td></tr> <tr><td>Alkalinity</td><td>☒</td><td>250 mL poly</td><td>N/A</td><td>SM 2320 B-1997</td></tr> <tr><td>Nitrate</td><td>☒</td><td>2- 40 mL vials</td><td>N/A</td><td>EPA 300.0</td></tr> <tr><td>Manganese</td><td>☒</td><td>250 mL</td><td>HNO3</td><td>SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8</td></tr> <tr><td>Iron (II)</td><td>☒</td><td>250 mL amber glass</td><td>HCl</td><td>SM 3500-Fe B</td></tr> <tr><td>Sulfate</td><td>☒</td><td>2- 40 mL vials</td><td>N/A</td><td>EPA 300.0</td></tr> <tr><td>Sulfide</td><td>☒</td><td>250 mL poly</td><td>NaOH/Zinc Acetate</td><td>SM 4500-S2 D-2000</td></tr> <tr><td>Carbon dioxide</td><td>☒</td><td>250 mL poly or 2 40 mL vials</td><td>N/A</td><td></td></tr> <tr><td>Chloride</td><td>☒</td><td>2- 40 mL vials</td><td>N/A</td><td>EPA 300.0</td></tr> <tr><td>cDCE</td><td>☒</td><td>3- 40 mL vials</td><td>N/A</td><td>SW-846 8260</td></tr> <tr><td>Ethene</td><td>☒</td><td>2- 40 ml vials</td><td>N/A</td><td>SW-846 8115B/RSK 175</td></tr> <tr><td>Ethane</td><td>☒</td><td>2- 40 ml vials</td><td>N/A</td><td>SW-846 8115B/RSK 175</td></tr> <tr><td>Methane</td><td>☒</td><td>2- 40 ml vials</td><td>N/A</td><td>SW-846 8115B/RSK 175</td></tr> </tbody> </table>					Parameter		Bottle	Pres.	Method	Benzene	☒	3- 40 mL vials	N/A	SW-846 8260	Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260	Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260	Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260	Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997	Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0	Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8	Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B	Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0	Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000	Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A		Chloride	☒	2- 40 mL vials	N/A	EPA 300.0	cDCE	☒	3- 40 mL vials	N/A	SW-846 8260	Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175	Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175	Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
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Comments: 																																																																																																																	

PARSONS

WELL SAMPLING RECORD

Site Name: Chevron TRC Beacon Samplers: Bill Simons							Well ID: SWMW-55																																																																																																										
							Manual Entry: 		Well Diameter: 2 inches																																																																																																								
							WATER VOLUME CALCULATION																																																																																																										
Purging Data							= (Total Depth of Well - Depth To Water) x Casing Volume per Foot																																																																																																										
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11:50	16.22	NA	NA	NA	5.65	NA	NA	NA	68.1	PID 0.0 ppm																																																																																																							
15:25	NA	NA	.5	7.15	7.27	57	.816	15.9	-19	Dry at 0.6 gallons																																																																																																							
11:20	NA	NA	NA	NA	1.39	NA	NA	NA	10.6	Post sample 11/4/14 using YSI																																																																																																							
Sampling Data																																																																																																																	
Method: Disposable bailer & rope			Date: 11/04/2014		Time: 10:35		Total Volume of Water Purged: 0.6 (gal)																																																																																																										
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Comments: 																																																																																																																	

PARSONS

WELL SAMPLING RECORD

Site Name: Chevron TRC Beacon Samplers: Bill Simons							Well ID: SWMW-56																																																																																																																			
							Manual Entry: 		Well Diameter: 2 inches																																																																																																																	
							WATER VOLUME CALCULATION																																																																																																																			
Purging Data							= (Total Depth of Well - Depth To Water) x Casing Volume per Foot																																																																																																																			
Method: Submersible pump w/ dedicated tubing							Initial Depth to Water (ft): 23.45		Depth to Well Bottom (ft): 55																																																																																																																	
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08:55	NA	NA	NA	NA	0.87	NA	NA	NA	114.7	Post sample 11/6/14																																																																																																																
Sampling Data																																																																																																																										
Method: Disposable bailer & rope			Date: 11/06/2014		Time: 08:40		Total Volume of Water Purged: 5.5 (gal)																																																																																																																			
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PARSONS

WELL SAMPLING RECORD

Site Name: <u>Chevron TRC Beacon</u>							Well ID: <u>SWMW-58</u>				
Samplers: <u>Bill Simons</u>							Manual Entry: 		Well Diameter: <u>2</u> inches		
Purging Data							WATER VOLUME CALCULATION = (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
Method: Disposable bailer & rope							Initial Depth to Water (ft): 13.4		Depth to Well Bottom (ft): 30		
Date: 11/05/2014				Time: 13:45			1-inch=0.041 4-inch=0.64		1.5-inch=0.092 6-inch=1.4		
								2-inch=0.16 8-inch=2.5		3-inch=0.36 10-inch=4	
Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments	
13:45	13.4	NA	NA	NA	1.12	NA	NA	NA	302	PID 0.0 ppm	
14:00	NA	NA	3	6.73	7.88	150	1.35	16.15	161		
14:10	NA	NA	6	6.73	6.09	Over	1.55	15.64	161		
14:20	NA	NA	9	6.76	4.03	Over	1.46	14.99	159		
09:20	NA	NA	NA	NA	0.29	NA	NA	NA	177.8	Post sample 11/6/14	

Sampling Data		Date: 11/06/2014		Time: 08:55		Total Volume of Water Purged: 9 (gal)	
Method: Disposable bailer & rope							

HORIBA	
pH	6.87
DO (mg/L)	5.65
Turbidity (NTU)	35.9
Spec. Cond. (mS/cm)	1.32
Temp.(°C)	14.23
ORP (mv)	179

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	180
Ferrous Iron (mg/L)	0

SAMPLE SET				
Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

PARSONS

WELL SAMPLING RECORD

Site Name: Chevron TRC Beacon Samplers: Bill Simons							Well ID: SWMW-62			
							Manual Entry: 		Well Diameter: 2 inches	
							WATER VOLUME CALCULATION			
Purging Data							= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Method: Disposable bailer & rope							Initial Depth to Water (ft): 9.46		Depth to Well Bottom (ft): 19	
Date: 11/06/2014			Time: 14:20				1-inch=0.041 1.5-inch=0.092 2-inch=0.16 3-inch=0.36 4-inch=0.64 6-inch=1.4 8-inch=2.5 10-inch=4			
Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
14:20	9.46	NA	NA	NA	2.46	NA	NA	NA	224.8	PID 0.0 ppm
14:25	NA	NA	1.5	6.99	4.74	0	.874	12.75	24	Dry at 2.5 gallons
08:10	Na	NA	NA	NA	1.21	NA	NA	NA	180.3	Post readings
Sampling Data										
Method: Disposable bailer & rope			Date: 11/07/2014		Time: 08:10		Total Volume of Water Purged: 2.5 (gal)			

HORIBA	
pH	7.06
DO (mg/L)	4.49
Turbidity (NTU)	819
Spec. Cond. (mS/cm)	0.794
Temp. (°C)	11.87
ORP (mv)	249

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	280
Ferrous Iron (mg/L)	0

SAMPLE SET				
Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

WELL SAMPLING RECORD

Site Name: Chevron TRC Beacon Samplers: Bill Simons							Well ID: SWMW-65			
							Manual Entry: 		Well Diameter: 2 inches	
							WATER VOLUME CALCULATION = (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Method: Disposable bailer & rope							Initial Depth to Water (ft): 8.86		Depth to Well Bottom (ft): 16	
Date: 11/04/2014			Time: 13:30		1-inch=0.041 1.5-inch=0.092 2-inch=0.16 3-inch=0.36 4-inch=0.64 6-inch=1.4 8-inch=2.5 10-inch=4					
Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
13:30	8.86	NA	NA	NA	.2	NA	NA	NA	-4.5	PID 0.0
13:45	NA	NA	1.2	6.48	4.92	1934	1.18	20.66	103	Dry at 1.75 gallons
08:45	NA	NA	NA	NA	1.48	NA	NA	NA	53.3	Post sample 11/5/14

Sampling Data
 Method: Disposable bailer & rope Date: 11/05/2014 Time: 08:20 Total Volume of Water Purged: 1.75 (gal)

HORIBA	
pH	6.34
DO (mg/L)	6.64
Turbidity (NTU)	94
Spec. Cond. (mS/cm)	1.13
Temp. (°C)	16.08
ORP (mv)	-71

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	200
Ferrous Iron (mg/L)	0

SAMPLE SET				
Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

WELL SAMPLING RECORD

Site Name: Chevron TRC Beacon Samplers: Bill Simons							Well ID: SWMW-66		Well Diameter: <u>2</u> inches		
							Manual Entry: 				
							WATER VOLUME CALCULATION				
Method: Submersible pump w/ dedicated tubing							Initial Depth to Water (ft): 21.41		Depth to Well Bottom (ft): 62		
							Date: 11/05/2014		Time: 13:40		1-inch=0.041
				4-inch=0.64		6-inch=1.4		8-inch=2.5		10-inch=4	

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
13:40	21.41	NA	NA	NA	1.16	NA	NA	NA	311	PID 0.4 ppm
14:10	NA	1800	6.5	6.57	3.42	Over	3.79	15.21	-24	Dry at 7.5 gallons
09:30	NA	NA	NA	NA	2.69	NA	NA	NA	160	Post sample 11/6/14

Method: Disposable bailer & rope		Date: 11/06/2014	Time: 09:10	Total Volume of Water Purged: 7.5 (gal)

HORIBA	
pH	6.59
DO (mg/L)	9.89
Turbidity (NTU)	1
Spec. Cond. (mS/cm)	3.52
Temp. (°C)	13.64
ORP (mv)	194

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	180
Ferrous Iron (mg/L)	0

SAMPLE SET				
Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

WELL SAMPLING RECORD

Site Name: Chevron TRC Beacon Samplers: Bill Simons							Well ID: SWMW-67																																																																																																																			
							Manual Entry: 		Well Diameter: 2 inches																																																																																																																	
							WATER VOLUME CALCULATION																																																																																																																			
Purging Data							= (Total Depth of Well - Depth To Water) x Casing Volume per Foot																																																																																																																			
Method: Disposable bailer & rope							Initial Depth to Water (ft): 16.23		Depth to Well Bottom (ft): 29.64																																																																																																																	
Date: 11/05/2014			Time: 15:45				1-inch=0.041 1.5-inch=0.092 2-inch=0.16 3-inch=0.36 4-inch=0.64 6-inch=1.4 8-inch=2.5 10-inch=4																																																																																																																			
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16:25	NA	NA	2.5	6.86	8.98	3637	1.07	13.09	100	Dry at 3 gallons																																																																																																																
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Method: Disposable bailer & rope			Date: 11/06/2014		Time: 09:45		Total Volume of Water Purged: 3 (gal)																																																																																																																			
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Comments: No pre ORP reading due to YSI failure																																																																																																																										

PARSONS

WELL SAMPLING RECORD

Site Name: <u>Chevron TRC Beacon</u>		Well ID: <u>SWMW-68</u>		Well Diameter: <u>2</u> inches	
		Manual Entry: 			
Samplers: <u>Bill Simons</u>		WATER VOLUME CALCULATION = (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Method: Submersible pump w/ dedicated tubing		Initial Depth to Water (ft): 27.96		Depth to Well Bottom (ft): 53.62	
Date: 11/05/2014		Time: 15:50		1-inch=0.041 1.5-inch=0.092 2-inch=0.16 3-inch=0.36 4-inch=0.64 6-inch=1.4 8-inch=2.5 10-inch=4	

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
15:50	27.96	NA	NA	NA	0.57	NA	NA	NA	NA	PID 2.1 ppm
16:10	NA	2000	4	7.07	8.27	820	.935	13.04	93	
16:15	NA	NA	8	6.85	3.45	2356	1.00	12.99	93	Dry at 8.5 gallons
10:15	NA	NA	NA	NA	4.6	NA	NA	NA	260	Post sample 11/6/14

Method: <u>Disposable bailer & rope</u>		Date: 11/06/2014	Time: 09:50	Total Volume of Water Purged: 8.5 (gal)

HORIBA	
pH	7.29
DO (mg/L)	5.51
Turbidity (NTU)	6.2
Spec. Cond. (mS/cm)	1.07
Temp. (°C)	11.14
ORP (mv)	207

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	160
Ferrous Iron (mg/L)	0

SAMPLE SET				
Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

WELL SAMPLING RECORD

Site Name: <u>Chevron TRC Beacon</u>				Well ID: <u>SWMW-111</u>		Well Diameter: <u>2</u> inches	
				Manual Entry: 			
Samplers: <u>Bill Simons</u>				WATER VOLUME CALCULATION			
Purging Data				= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Method: Submersible pump w/ dedicated tubing				Initial Depth to Water (ft): 21.67		Depth to Well Bottom (ft): 60.5	
Date: 11/04/2014		Time: 15:45		1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36
				4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4

Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
15:45	21.67	NA	NA	NA	3.33	NA	NA	NA	281	PID 0.0 ppm
16:05	NA	2000	6.5	6.91	5.33	868	.833	15.75	20	
16:15	NA	2000	13	6.59	8.13	652	1.29	15.10	38	
16:25	NA	2000	19.5	6.55	7.83	95	1.37	14.73	43	
10:50	NA	2000	NA	NA	2.17	NA	NA	NA	149.9	Post sample 11/5/14

Method: Disposable bailer & rope		Date: 11/05/2014	Time: 10:45	Total Volume of Water Purged: 19.5 (gal)

HORIBA	
pH	6.71
DO (mg/L)	8.59
Turbidity (NTU)	10.2
Spec. Cond. (mS/cm)	1.34
Temp. (°C)	15.25
ORP (mv)	55

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	240
Ferrous Iron (mg/L)	0

SAMPLE SET				
Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

WELL SAMPLING RECORD

Site Name: <u>Chevron TRC Beacon</u>							Well ID: <u>SMMW-112</u>					
Samplers: <u>Bill Simons</u>							Manual Entry: 		Well Diameter: <u>2</u> inches			
Purging Data Method: Submersible pump w/ dedicated tubing							WATER VOLUME CALCULATION = (Total Depth of Well - Depth To Water) x Casing Volume per Foot					
Date: 11/06/2014							Time: 13:25		Initial Depth to Water (ft): 10.38		Depth to Well Bottom (ft): 64.4	
Date: 11/06/2014							Time: 13:25		1-inch=0.041 1.5-inch=0.092 2-inch=0.16 3-inch=0.36 4-inch=0.64 6-inch=1.4 8-inch=2.5 10-inch=4			
Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments		
13:25	10.38	NA	NA	NA	4.28	NA	NA	NA	215.4	PID 0.0 ppm		
14:00	NA	2000	9	7.08	3.72	154	1.63	12.14	-20			
14:25	NA	2000	18	7.15	4.15	105	1.71	11.51	-28			
14:50	NA	2000	26	7.12	3.50	114	1.62	11.87	32			
08:45	NA	NA	NA	NA	0.2	NA	NA	NA	102.9			

Method: Disposable bailer & rope		Date: 11/07/2014	Time: 08:45	Total Volume of Water Purged: 26 (gal)

HORIBA		HACH TEST KITS		SAMPLE SET				
pH	6.71	Phenol alkalinity (mg/L)	0	Parameter		Bottle	Pres.	Method
DO (mg/L)	8	Methyl alkalinity (mg/L)	260	Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Turbidity (NTU)	13.8	Ferrous Iron (mg/L)	0	Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Spec. Cond. (mS/cm)	1.54			Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Temp.(°C)	12.26			Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
ORP (mv)	231			Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
				Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
				Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
				Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
				Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
				Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
				Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
				Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
				cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
				Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
				Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
				Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

WELL SAMPLING RECORD

Site Name: <u>Chevron TRC Beacon</u>							Well ID: <u>SWMW-113</u>				
Samplers: <u>Bill Simons</u>							Manual Entry: 		Well Diameter: <u>2</u> inches		
Purging Data							WATER VOLUME CALCULATION = (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
Method: Disposable bailer & rope							Initial Depth to Water (ft): 10		Depth to Well Bottom (ft): 30.9		
Date: 11/06/2014				Time: 13:30			1-inch=0.041		1.5-inch=0.092		
							2-inch=0.16		3-inch=0.36		
							4-inch=0.64		6-inch=1.4		
							8-inch=2.5		10-inch=4		
Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments	
13:30	10.0	NA	NA	NA	2.88	NA	NA	NA	65.9	PID 0.0 ppm	
13:40	NA	NA	3.5	7.10	5.88	10.5	1.14	11.89	-2		
13:50	NA	NA	7	7.22	10.01	56.2	1.31	11.43	90		
13:55	NA	NA	10.5	7.15	4.62	59.6	1.35	11.92	97		
09:20	NA	NA	NA	NA	0.93	NA	NA	NA	175.4	Post sampling	

Sampling Data		Date: 11/07/2014		Time: 09:20		Total Volume of Water Purged: 10.5 (gal)	
Method: Disposable bailer & rope							

HORIBA	
pH	6.86
DO (mg/L)	3.36
Turbidity (NTU)	1.6
Spec. Cond. (mS/cm)	1.21
Temp.(°C)	12.42
ORP (mv)	174

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	280
Ferrous Iron (mg/L)	0

SAMPLE SET				
Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

WELL SAMPLING RECORD

Site Name: <u>Chevron TRC Beacon</u>							Well ID: <u>SWMW-114</u>				
Samplers: <u>Bill Simons</u>							Manual Entry: 		Well Diameter: <u>2</u> inches		
Purging Data							WATER VOLUME CALCULATION = (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
Method: Disposable bailer & rope							Initial Depth to Water (ft): 16.44		Depth to Well Bottom (ft): 48		
Date: 11/03/2014				Time: 13:30			1-inch=0.041 4-inch=0.64		1.5-inch=0.092 6-inch=1.4		
								2-inch=0.16 8-inch=2.5		3-inch=0.36 10-inch=4	
Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments	
10:40	16.44	NA	NA	NA	0.10	NA	NA	NA	34.2	PID 42 ppm	
13:40	NA	NA	4	7.36	7.86	2.72	.475	17.63	256		
13:50	NA	NA	8	7.45	6.52	11.1	.499	13.79	72		
13:55	NA	NA	12	7.21	6.39	17.2	.497	12.97	74		
08:55	NA	NA	NA	NA	0.53	NA	NA	NA	183	Post sample 11/4/14 using YSI	

Method: Disposable bailer & rope		Date: 11/04/2014	Time: 08:20	Total Volume of Water Purged: 12 (gal)

HORIBA	
pH	6.04
DO (mg/L)	4.85
Turbidity (NTU)	12.3
Spec. Cond. (mS/cm)	.588
Temp.(°C)	13.85
ORP (mv)	243

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	160
Ferrous Iron (mg/L)	0

SAMPLE SET				
Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

WELL SAMPLING RECORD

Site Name: Chevron TRC Beacon Samplers: Bill Simons							Well ID: SWMW-123		Well Diameter: <u>2</u> inches																																																																																																																	
							Manual Entry: 																																																																																																																			
							Purging Data							WATER VOLUME CALCULATION = (Total Depth of Well - Depth To Water) x Casing Volume per Foot																																																																																																												
Method: Submersible pump w/ dedicated tubing							Initial Depth to Water (ft): 18.3		Depth to Well Bottom (ft): 78																																																																																																																	
Date: 11/03/2014			Time: 14:55				1-inch=0.041 1.5-inch=0.092 2-inch=0.16 3-inch=0.36 4-inch=0.64 6-inch=1.4 8-inch=2.5 10-inch=4																																																																																																																			
Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments																																																																																																																
11:55	18.3	NA	NA	NA	2.71	NA	NA	NA	68.3	PID 0.0 ppm																																																																																																																
15:25	NA	1800	9.5	7.23	14.32	20.7	.941	15.04	-75	Dry at 12 gallons																																																																																																																
11:15	NA	NA	NA	NA	3.35	NA	NA	NA	45	Post sample 11/4/14 using YSI																																																																																																																
Sampling Data																																																																																																																										
Method: Disposable bailer & rope			Date: 11/04/2014		Time: 10:45		Total Volume of Water Purged: 12 (gal)																																																																																																																			
<table border="1" style="width:100%; border-collapse: collapse;"> <tr><th colspan="2">HORIBA</th></tr> <tr><td>pH</td><td>6.2</td></tr> <tr><td>DO (mg/L)</td><td>7.75</td></tr> <tr><td>Turbidity (NTU)</td><td>7.34</td></tr> <tr><td>Spec. Cond. (mS/cm)</td><td>.952</td></tr> <tr><td>Temp. (°C)</td><td>15.26</td></tr> <tr><td>ORP (mv)</td><td>10</td></tr> </table>			HORIBA		pH	6.2	DO (mg/L)	7.75	Turbidity (NTU)	7.34	Spec. Cond. (mS/cm)	.952	Temp. (°C)	15.26	ORP (mv)	10	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><th colspan="2">HACH TEST KITS</th></tr> <tr><td>Phenol alkalinity (mg/L)</td><td>0</td></tr> <tr><td>Methyl alkalinity (mg/L)</td><td>260</td></tr> <tr><td>Ferrous Iron (mg/L)</td><td>0</td></tr> </table>			HACH TEST KITS		Phenol alkalinity (mg/L)	0	Methyl alkalinity (mg/L)	260	Ferrous Iron (mg/L)	0	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><th colspan="5">SAMPLE SET</th></tr> <tr> <th>Parameter</th><th></th><th>Bottle</th><th>Pres.</th><th>Method</th></tr> <tr><td>Benzene</td><td>☒</td><td>3- 40 mL vials</td><td>N/A</td><td>SW-846 8260</td></tr> <tr><td>Chlorobenzene</td><td>☒</td><td>3- 40 mL vials</td><td>N/A</td><td>SW-846 8260</td></tr> <tr><td>Trichloroethene</td><td>☒</td><td>3- 40 mL vials</td><td>N/A</td><td>SW-846 8260</td></tr> <tr><td>Vinyl chloride</td><td>☒</td><td>3- 40 mL vials</td><td>N/A</td><td>SW-846 8260</td></tr> <tr><td>Alkalinity</td><td>☒</td><td>250 mL poly</td><td>N/A</td><td>SM 2320 B-1997</td></tr> <tr><td>Nitrate</td><td>☒</td><td>2- 40 mL vials</td><td>N/A</td><td>EPA 300.0</td></tr> <tr><td>Manganese</td><td>☒</td><td>250 mL</td><td>HNO3</td><td>SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8</td></tr> <tr><td>Iron (II)</td><td>☒</td><td>250 mL amber glass</td><td>HCl</td><td>SM 3500-Fe B</td></tr> <tr><td>Sulfate</td><td>☒</td><td>2- 40 mL vials</td><td>N/A</td><td>EPA 300.0</td></tr> <tr><td>Sulfide</td><td>☒</td><td>250 mL poly</td><td>NaOH/Zinc Acetate</td><td>SM 4500-S2 D-2000</td></tr> <tr><td>Carbon dioxide</td><td>☒</td><td>250 mL poly or 2 40 mL vials</td><td>N/A</td><td></td></tr> <tr><td>Chloride</td><td>☒</td><td>2- 40 mL vials</td><td>N/A</td><td>EPA 300.0</td></tr> <tr><td>cDCE</td><td>☒</td><td>3- 40 mL vials</td><td>N/A</td><td>SW-846 8260</td></tr> <tr><td>Ethene</td><td>☒</td><td>2- 40 ml vials</td><td>N/A</td><td>SW-846 8115B/RSK 175</td></tr> <tr><td>Ethane</td><td>☒</td><td>2- 40 ml vials</td><td>N/A</td><td>SW-846 8115B/RSK 175</td></tr> <tr><td>Methane</td><td>☒</td><td>2- 40 ml vials</td><td>N/A</td><td>SW-846 8115B/RSK 175</td></tr> </table>					SAMPLE SET					Parameter		Bottle	Pres.	Method	Benzene	☒	3- 40 mL vials	N/A	SW-846 8260	Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260	Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260	Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260	Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997	Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0	Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8	Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B	Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0	Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000	Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A		Chloride	☒	2- 40 mL vials	N/A	EPA 300.0	cDCE	☒	3- 40 mL vials	N/A	SW-846 8260	Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175	Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175	Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
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Comments: 																																																																																																																										

PARSONS

WELL SAMPLING RECORD

Site Name: <u>Chevron TRC Beacon</u>							Well ID: <u>SWMW-125</u>				
Samplers: <u>Bill Simons</u>							Manual Entry: 		Well Diameter: <u>2</u> inches		
Purging Data							WATER VOLUME CALCULATION = (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
Method: Disposable bailer & rope							Initial Depth to Water (ft): 14.21		Depth to Well Bottom (ft): 41.5		
Date: 11/03/2014				Time: 13:35			1-inch=0.041		1.5-inch=0.092		
							2-inch=0.16		3-inch=0.36		
							4-inch=0.64		6-inch=1.4		
							8-inch=2.5		10-inch=4		
Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments	
10:45	14.21	NA	NA	NA	0.21	NA	NA	NA	-4	PID 11 ppm	
13:47	NA	NA	4.5	7.29	7.15	87.3	.433	15.85	62		
13:52	NA	NA	9	7.11	6.95	74.5	.476	14.12	62		
14:00	NA	NA	13.5	6.86	8.45	48.7	.488	14.10	69		
08:55	NA	NA	NA	NA	0.8	NA	NA	NA	8.0	Post sample 11/4/14 using YSI	

Sampling Data		Date: 11/04/2014		Time: 08:25		Total Volume of Water Purged: 13.5 (gal)	
Method: Disposable bailer & rope							

HORIBA	
pH	5.9
DO (mg/L)	9.53
Turbidity (NTU)	19.6
Spec. Cond. (mS/cm)	.590
Temp. (°C)	13.91
ORP (mv)	119

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	160
Ferrous Iron (mg/L)	1.4

SAMPLE SET				
Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

WELL SAMPLING RECORD

Site Name: Chevron TRC Beacon Samplers: Bill Simons							Well ID: SWMW-126			
							Manual Entry: 		Well Diameter: 2 inches	
							WATER VOLUME CALCULATION = (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Method: Submersible pump w/ dedicated tubing							Initial Depth to Water (ft): 10.4		Depth to Well Bottom (ft): 49.5	
Date: 11/06/2014			Time: 13:20		1-inch=0.041 1.5-inch=0.092 2-inch=0.16 3-inch=0.36 4-inch=0.64 6-inch=1.4 8-inch=2.5 10-inch=4					
Time (24hrs)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments
13:20	10.4	NA	NA	NA	0.65	NA	NA	NA	-59.5	PID 0.0 ppm
13:35	NA	1800	6.5	7.19	5.22	35	1.23	11.92	44	Dry at 7.5 gallons
08:15	NA	NA	NA	NA	0.86	NA	NA	NA	128.5	Post sample 11/7/14

Method: Disposable bailer & rope		Date: 11/07/2014	Time: 0815	Total Volume of Water Purged: 7.5 (gal)

HORIBA	
pH	6.67
DO (mg/L)	7.53
Turbidity (NTU)	12
Spec. Cond. (mS/cm)	1.17
Temp. (°C)	13.07
ORP (mv)	258

HACH TEST KITS	
Phenol alkalinity (mg/L)	0
Methyl alkalinity (mg/L)	300
Ferrous Iron (mg/L)	0

SAMPLE SET				
Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

WELL SAMPLING RECORD

Site Name: <u>Chevron TRC Beacon</u>							Well ID: <u>Unknown Well 3</u>		Well Diameter: _____ inches		
							Manual Entry: 				
Samplers: 							WATER VOLUME CALCULATION				
Purging Data							= (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
Method: Select...							Initial Depth to Water (ft): 6.77		Depth to Well Bottom (ft): 6.8		
Date:				Time:			1-inch=0.041		1.5-inch=0.092		
							4-inch=0.64		6-inch=1.4		
Time (24hrs)		DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	ORP (mV)	Comments

Sampling Data

Method: <u>Disposable bailer & rope</u>	Date:	Time:	Total Volume of Water Purged: (gal)

HORIBA	
pH	
DO (mg/L)	
Turbidity (NTU)	
Spec. Cond. (mS/cm)	
Temp.(°C)	
ORP (mv)	

HACH TEST KITS	
Phenol alkalinity (mg/L)	
Methyl alkalinity (mg/L)	
Ferrous Iron (mg/L)	

SAMPLE SET				
Parameter		Bottle	Pres.	Method
Benzene	☒	3- 40 mL vials	N/A	SW-846 8260
Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260
Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260
Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260
Alkalinity	☒	250 mL poly	N/A	SM 2320 B-1997
Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0
Manganese	☒	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8
Iron (II)	☒	250 mL amber glass	HCl	SM 3500-Fe B
Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0
Sulfide	☒	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000
Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A	
Chloride	☒	2- 40 mL vials	N/A	EPA 300.0
cDCE	☒	3- 40 mL vials	N/A	SW-846 8260
Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175

Comments:

PID 0.0 ppm

PARSONS

WELL SAMPLING RECORD

Site Name: Chevron TRC Beacon							Well ID: <u>Unknown Well 2</u>																																																																																																																			
							Manual Entry: 																																																																																																																			
							Samplers: Bill Simons							Well Diameter: <u>2</u> inches																																																																																																												
Purging Data Method: Disposable bailer & rope Date: 11/03/2014 Time: 14:15							WATER VOLUME CALCULATION																																																																																																																			
							= (Total Depth of Well - Depth To Water) x Casing Volume per Foot																																																																																																																			
							Initial Depth to Water (ft): 6.82		Depth to Well Bottom (ft): 7.45																																																																																																																	
							1-inch=0.041		1.5-inch=0.092		2-inch=0.16		3-inch=0.36																																																																																																													
		4-inch=0.64		6-inch=1.4		8-inch=2.5		10-inch=4																																																																																																																		
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10:37	6.82	NA	NA	NA	0.89	NA	NA	NA	53	PID 0.0 ppm																																																																																																																
14:15	NA	NA	.1	6.05	6.55	68.5	.743	14.8	61	Dry at 0.15 gallons																																																																																																																
Sampling Data																																																																																																																										
Method: Disposable bailer & rope				Date: 11/04/2014		Time: 0915		Total Volume of Water Purged: 0.15 (gal)																																																																																																																		
<table border="1" style="width:100%; border-collapse: collapse;"> <tr><th colspan="2">HORIBA</th></tr> <tr><td>pH</td><td> </td></tr> <tr><td>DO (mg/L)</td><td> </td></tr> <tr><td>Turbidity (NTU)</td><td> </td></tr> <tr><td>Spec. Cond. (mS/cm)</td><td> </td></tr> <tr><td>Temp. (°C)</td><td> </td></tr> <tr><td>ORP (mv)</td><td> </td></tr> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><th colspan="2">HACH TEST KITS</th></tr> <tr><td>Phenol alkalinity (mg/L)</td><td> </td></tr> <tr><td>Methyl alkalinity (mg/L)</td><td> </td></tr> <tr><td>Ferrous Iron (mg/L)</td><td> </td></tr> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><th colspan="5">SAMPLE SET</th></tr> <tr> <th>Parameter</th> <th></th> <th>Bottle</th> <th>Pres.</th> <th>Method</th> </tr> <tr><td>Benzene</td><td>☒</td><td>3- 40 mL vials</td><td>N/A</td><td>SW-846 8260</td></tr> <tr><td>Chlorobenzene</td><td>☒</td><td>3- 40 mL vials</td><td>N/A</td><td>SW-846 8260</td></tr> <tr><td>Trichloroethene</td><td>☒</td><td>3- 40 mL vials</td><td>N/A</td><td>SW-846 8260</td></tr> <tr><td>Vinyl chloride</td><td>☒</td><td>3- 40 mL vials</td><td>N/A</td><td>SW-846 8260</td></tr> <tr><td>Alkalinity</td><td>☐</td><td>250 mL poly</td><td>N/A</td><td>SM 2320 B-1997</td></tr> <tr><td>Nitrate</td><td>☒</td><td>2- 40 mL vials</td><td>N/A</td><td>EPA 300.0</td></tr> <tr><td>Manganese</td><td>☐</td><td>250 mL</td><td>HNO3</td><td>SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8</td></tr> <tr><td>Iron (II)</td><td>☐</td><td>250 mL amber glass</td><td>HCl</td><td>SM 3500-Fe B</td></tr> <tr><td>Sulfate</td><td>☒</td><td>2- 40 mL vials</td><td>N/A</td><td>EPA 300.0</td></tr> <tr><td>Sulfide</td><td>☐</td><td>250 mL poly</td><td>NaOH/Zinc Acetate</td><td>SM 4500-S2 D-2000</td></tr> <tr><td>Carbon dioxide</td><td>☒</td><td>250 mL poly or 2 40 mL vials</td><td>N/A</td><td></td></tr> <tr><td>Chloride</td><td>☒</td><td>2- 40 mL vials</td><td>N/A</td><td>EPA 300.0</td></tr> <tr><td>cDCE</td><td>☒</td><td>3- 40 mL vials</td><td>N/A</td><td>SW-846 8260</td></tr> <tr><td>Ethene</td><td>☒</td><td>2- 40 ml vials</td><td>N/A</td><td>SW-846 8115B/RSK 175</td></tr> <tr><td>Ethane</td><td>☒</td><td>2- 40 ml vials</td><td>N/A</td><td>SW-846 8115B/RSK 175</td></tr> <tr><td>Methane</td><td>☒</td><td>2- 40 ml vials</td><td>N/A</td><td>SW-846 8115B/RSK 175</td></tr> </table> Comments: No post readings or parameters indicated to the right due to lack of water volume in well and recharge rate.											HORIBA		pH		DO (mg/L)		Turbidity (NTU)		Spec. Cond. (mS/cm)		Temp. (°C)		ORP (mv)		HACH TEST KITS		Phenol alkalinity (mg/L)		Methyl alkalinity (mg/L)		Ferrous Iron (mg/L)		SAMPLE SET					Parameter		Bottle	Pres.	Method	Benzene	☒	3- 40 mL vials	N/A	SW-846 8260	Chlorobenzene	☒	3- 40 mL vials	N/A	SW-846 8260	Trichloroethene	☒	3- 40 mL vials	N/A	SW-846 8260	Vinyl chloride	☒	3- 40 mL vials	N/A	SW-846 8260	Alkalinity	☐	250 mL poly	N/A	SM 2320 B-1997	Nitrate	☒	2- 40 mL vials	N/A	EPA 300.0	Manganese	☐	250 mL	HNO3	SW-846 6010/SW-846 6020/EPA 200.7/EPA 200.8	Iron (II)	☐	250 mL amber glass	HCl	SM 3500-Fe B	Sulfate	☒	2- 40 mL vials	N/A	EPA 300.0	Sulfide	☐	250 mL poly	NaOH/Zinc Acetate	SM 4500-S2 D-2000	Carbon dioxide	☒	250 mL poly or 2 40 mL vials	N/A		Chloride	☒	2- 40 mL vials	N/A	EPA 300.0	cDCE	☒	3- 40 mL vials	N/A	SW-846 8260	Ethene	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175	Ethane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175	Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175
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Methane	☒	2- 40 ml vials	N/A	SW-846 8115B/RSK 175																																																																																																																						

PARSONS

APPENDIX C

ANALYTICAL DATA PACKAGES

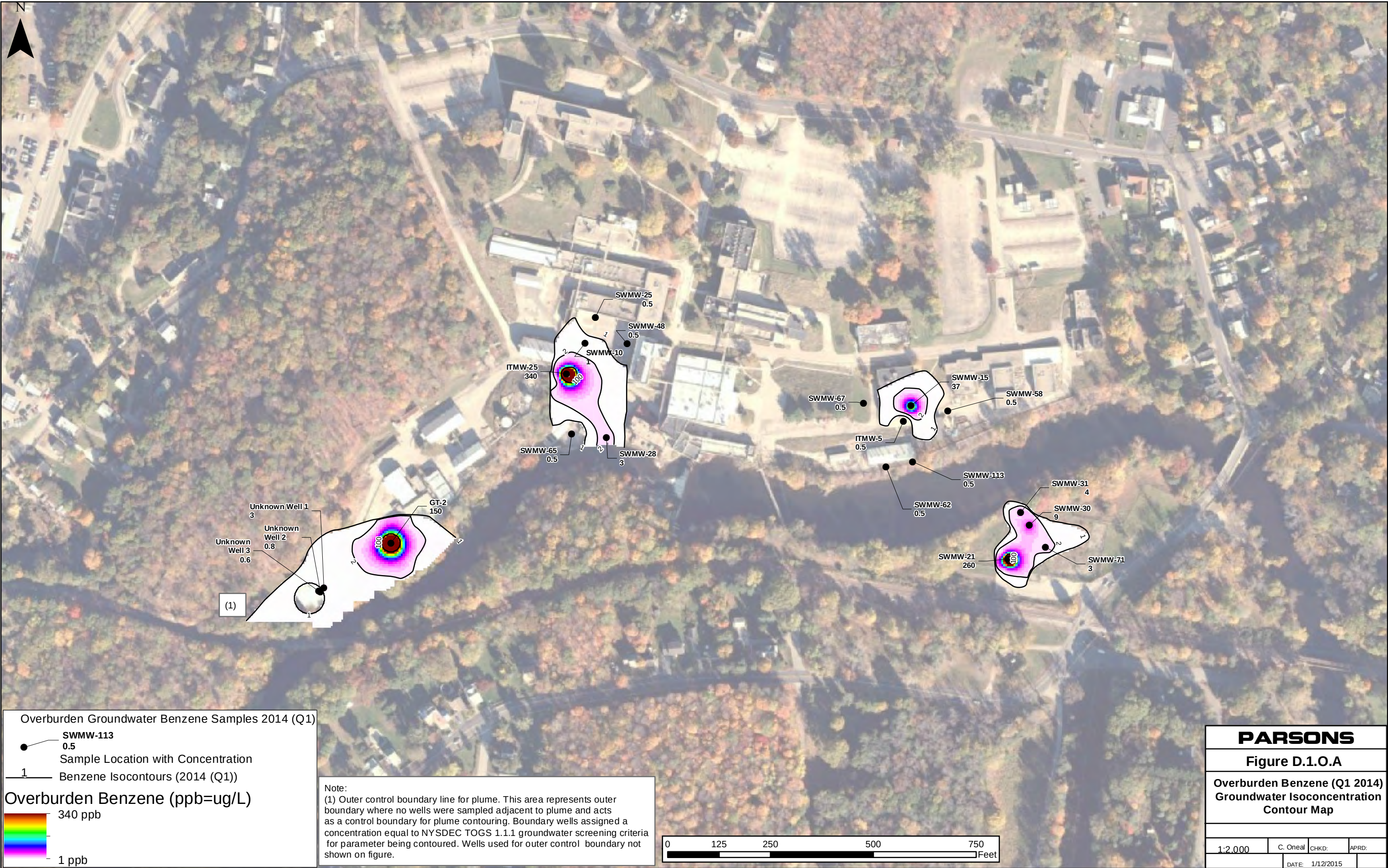
(Data Provided on Disk)

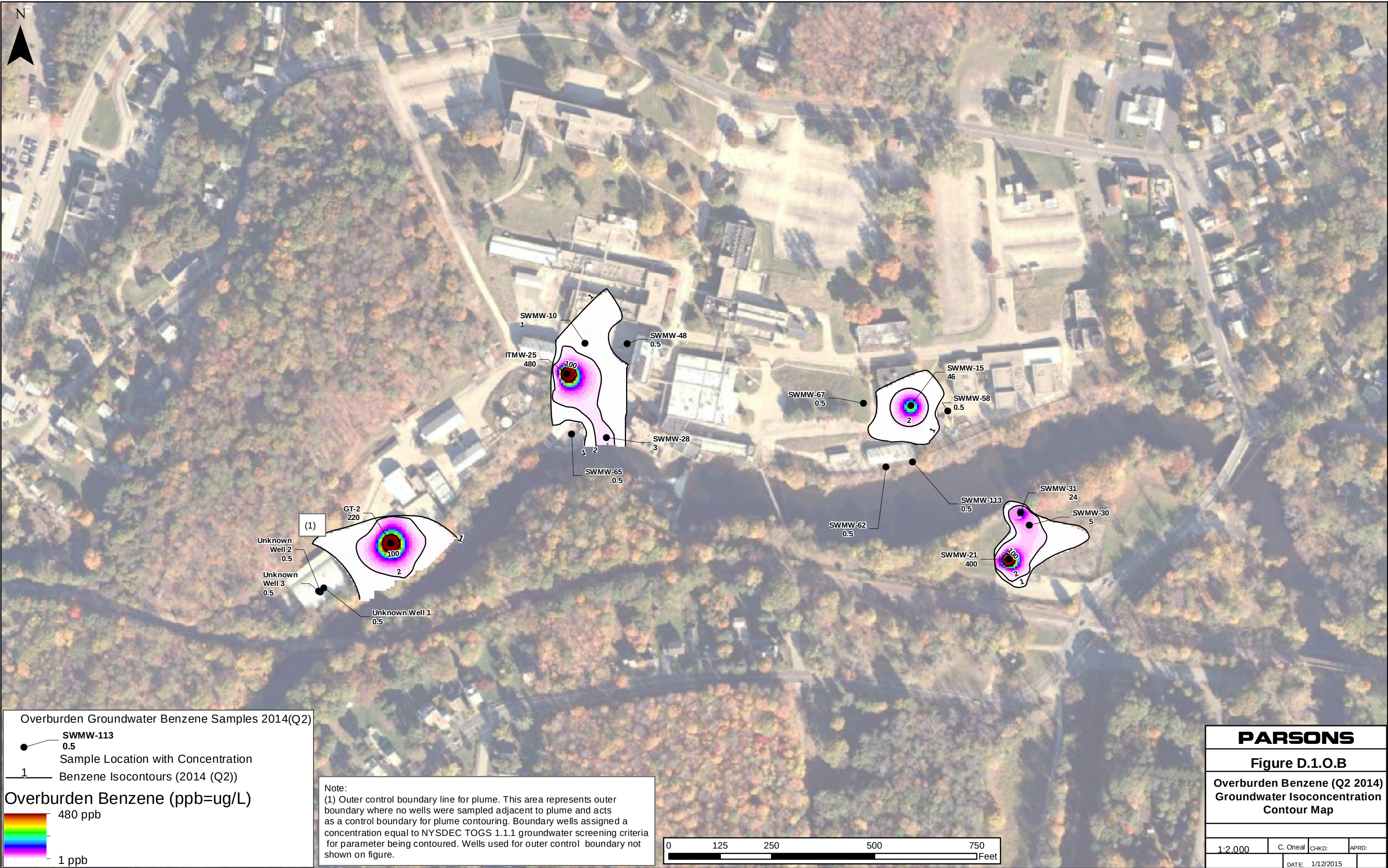
APPENDIX D

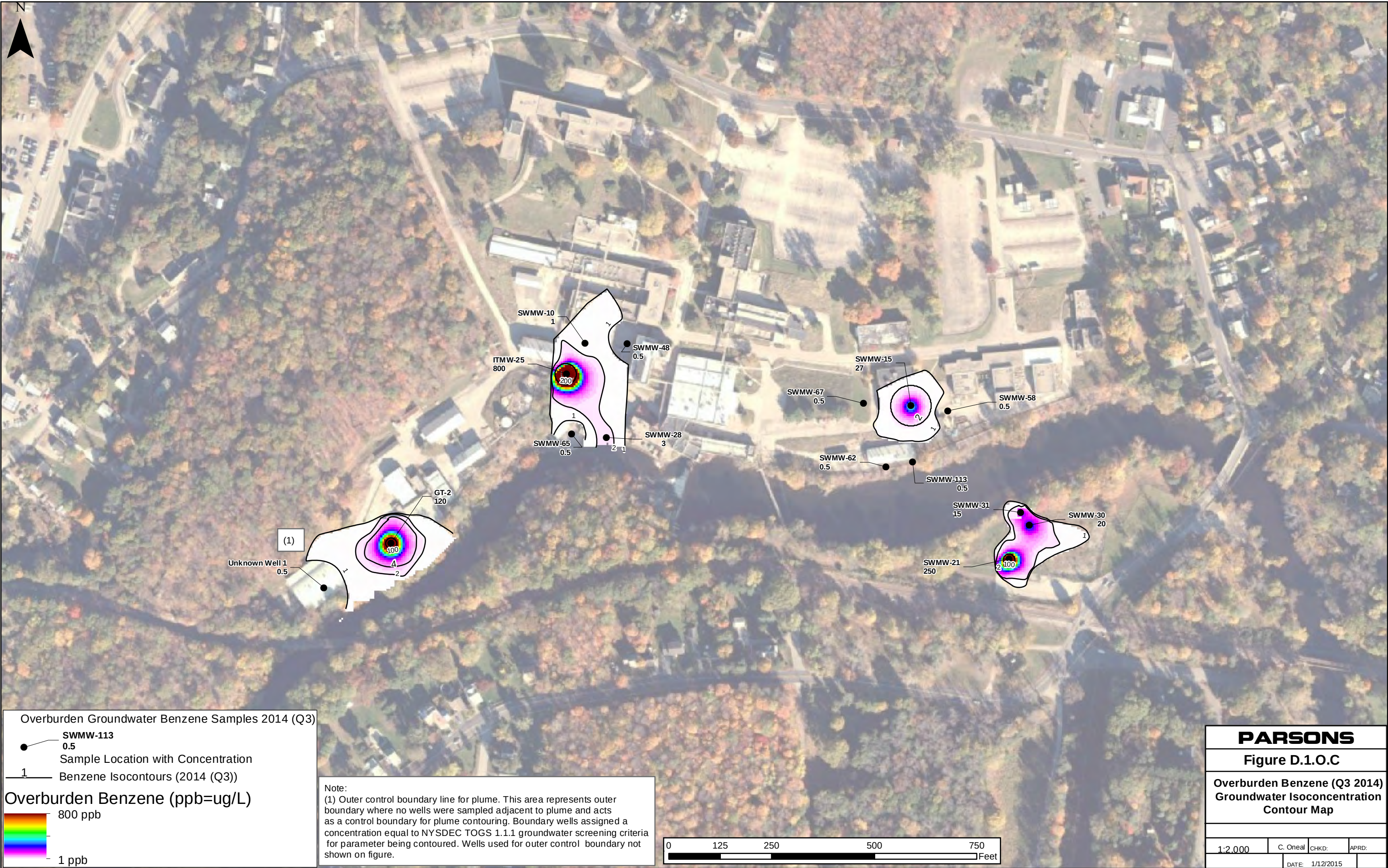
GIS ISO-CONCENTRATION FIGURES

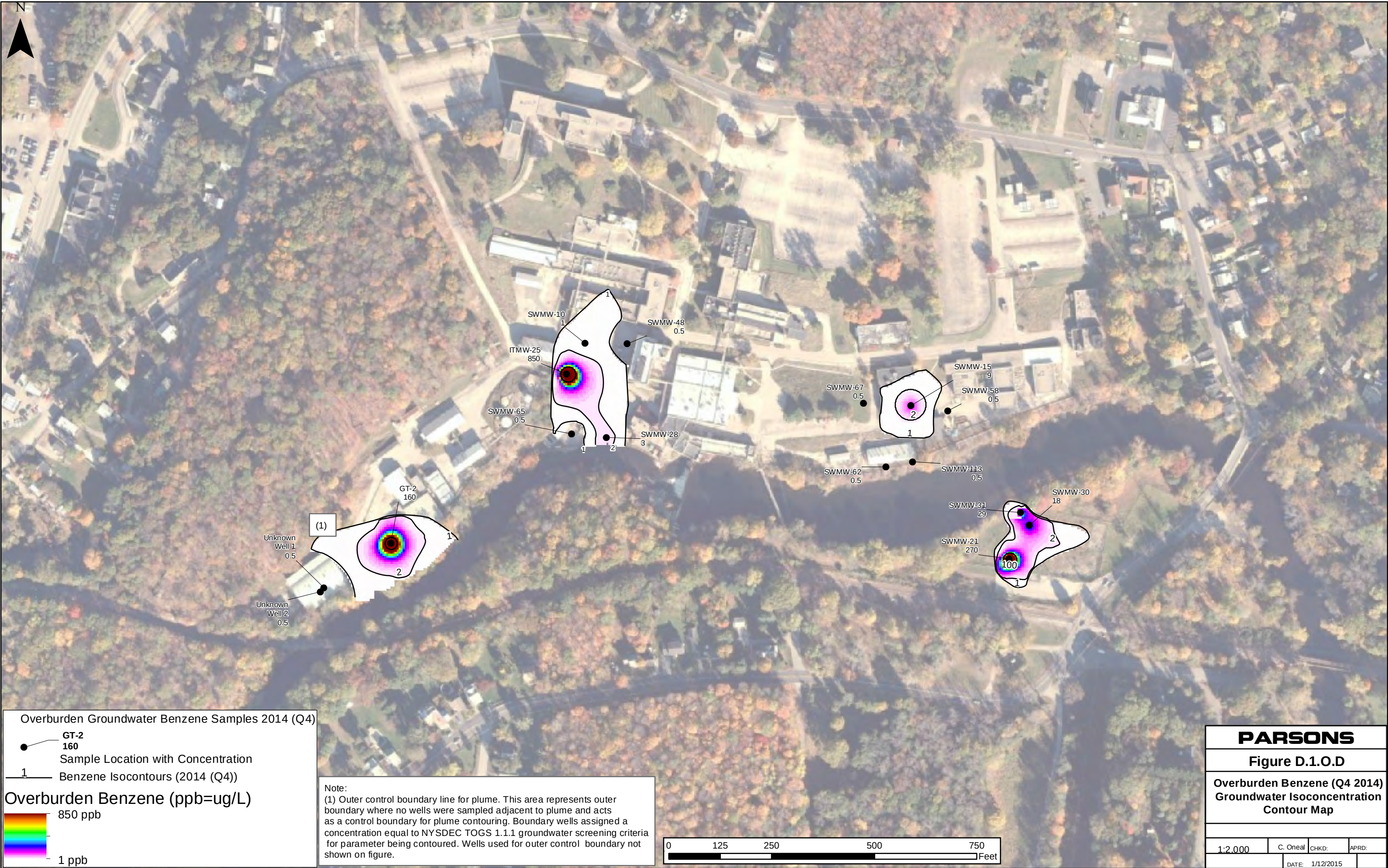
(MARCH, JUNE, SEPTEMBER, AND NOVEMBER 2014)

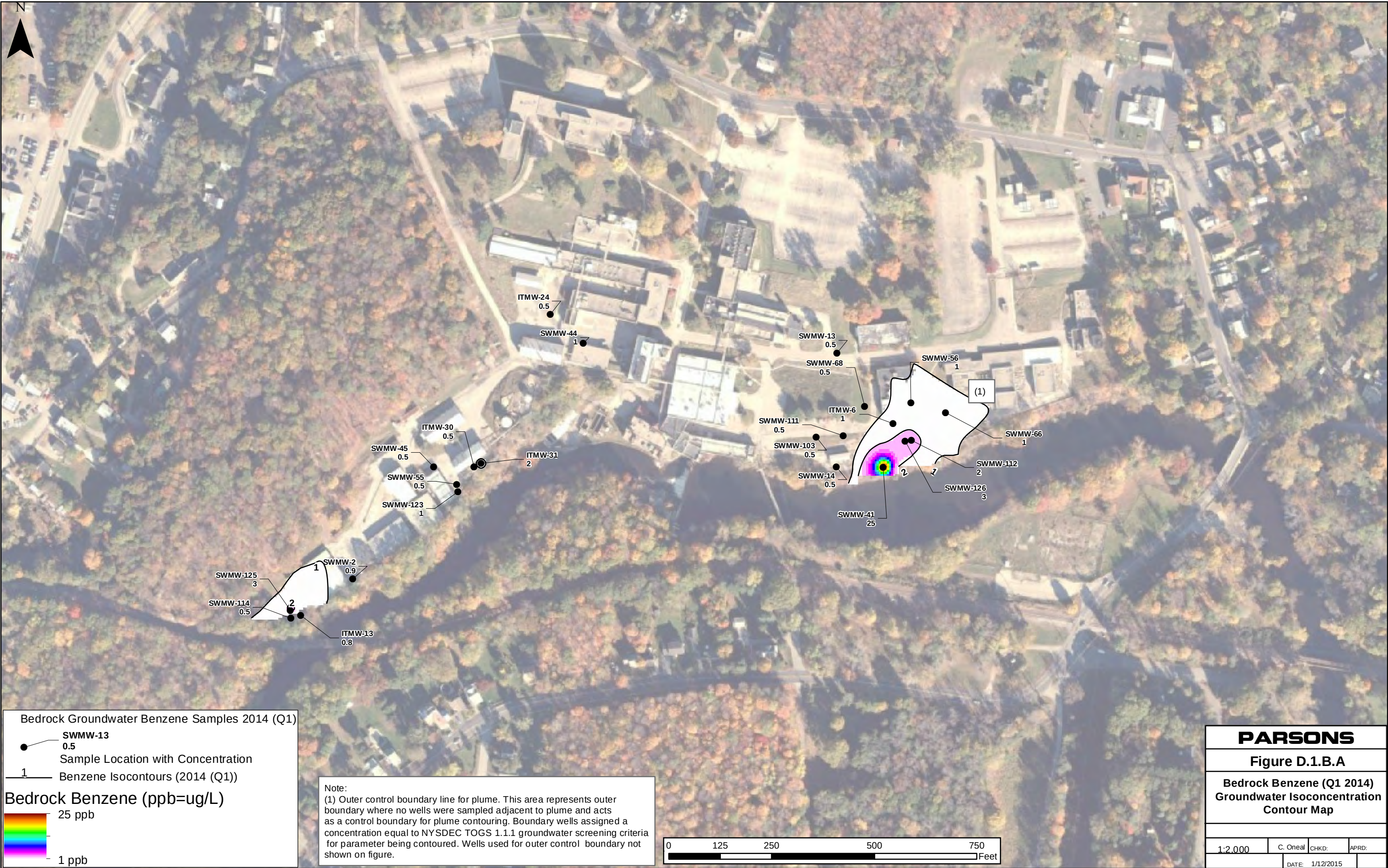
2014 QUARTERLY SAMPLING EVENTS

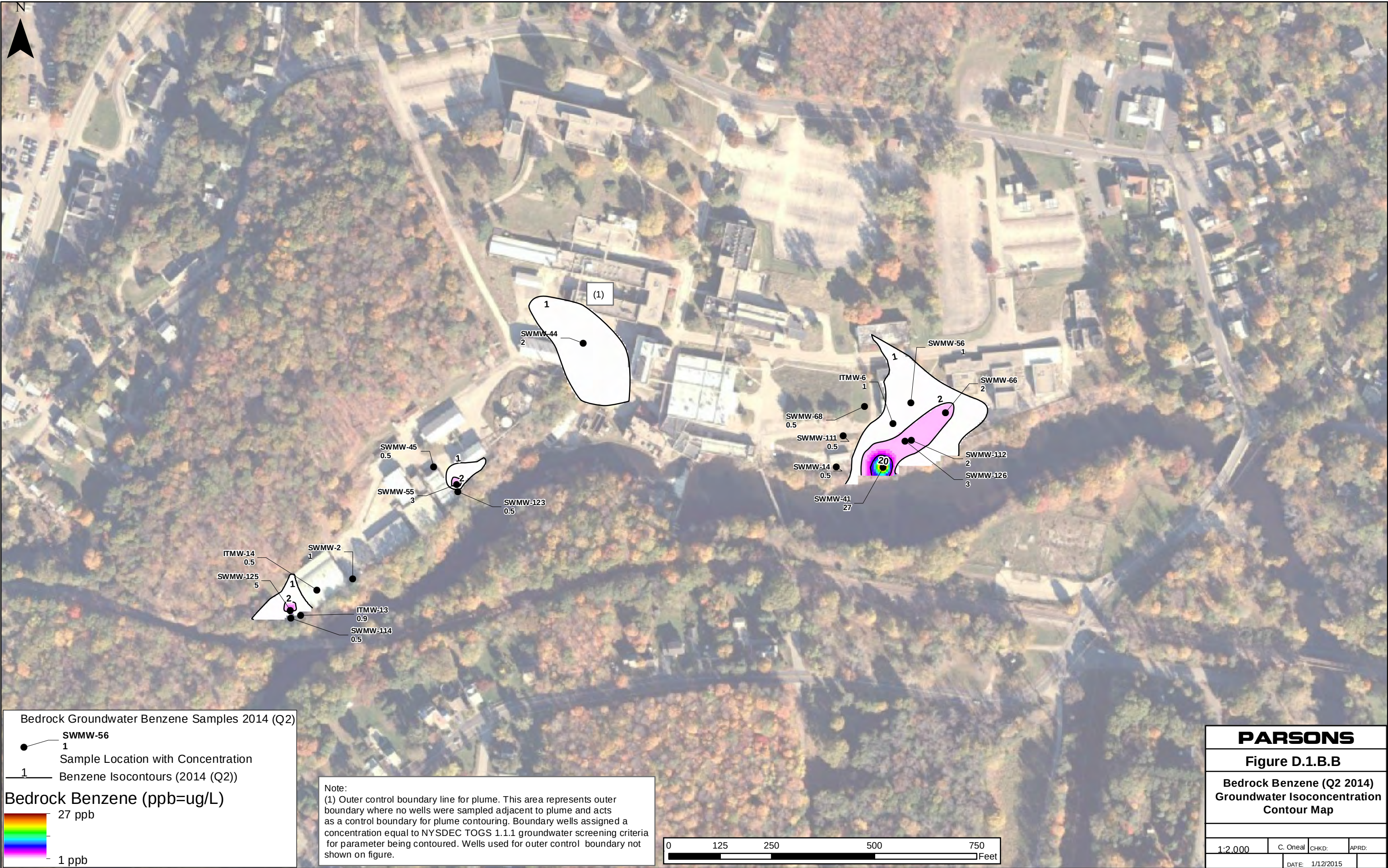


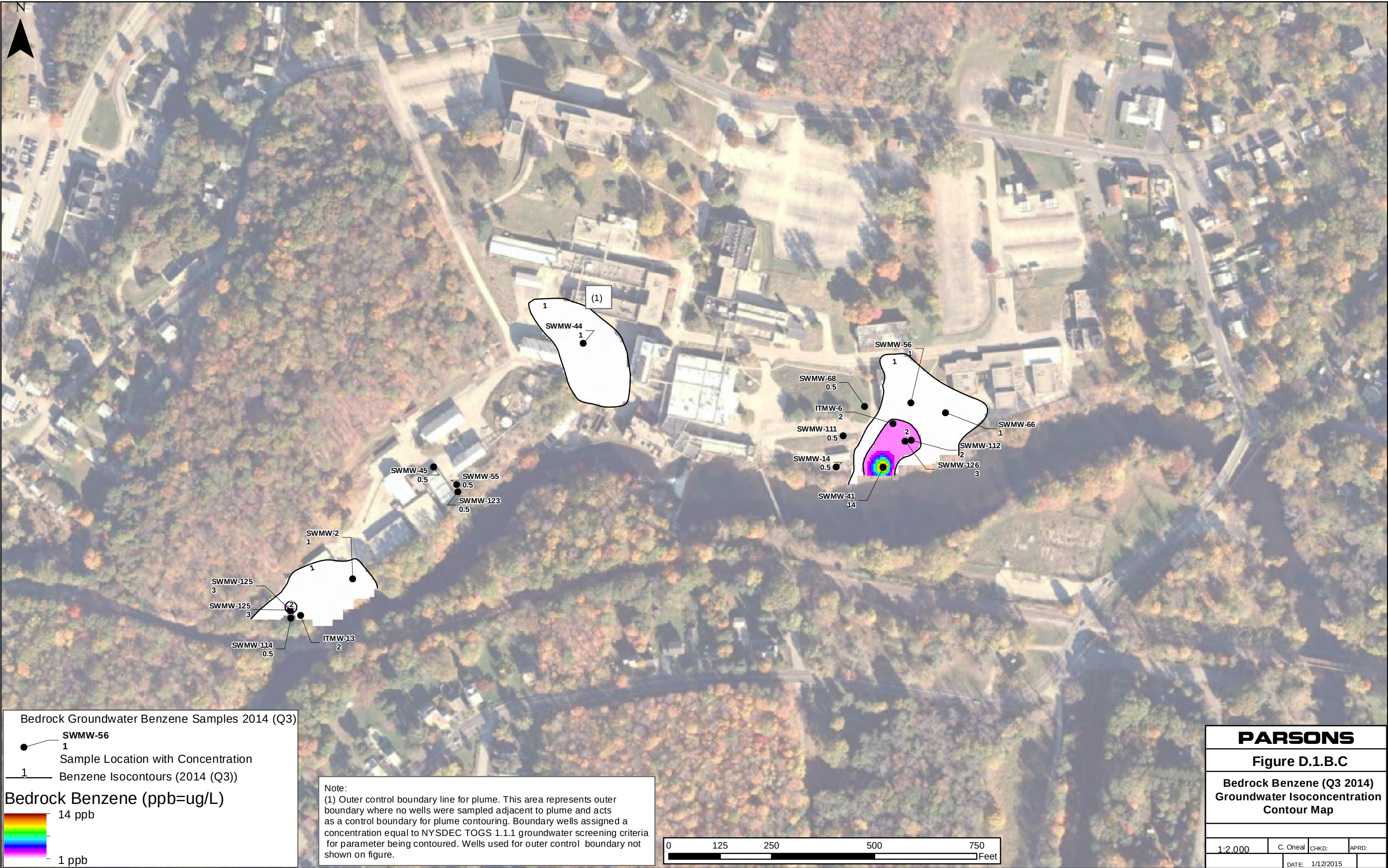


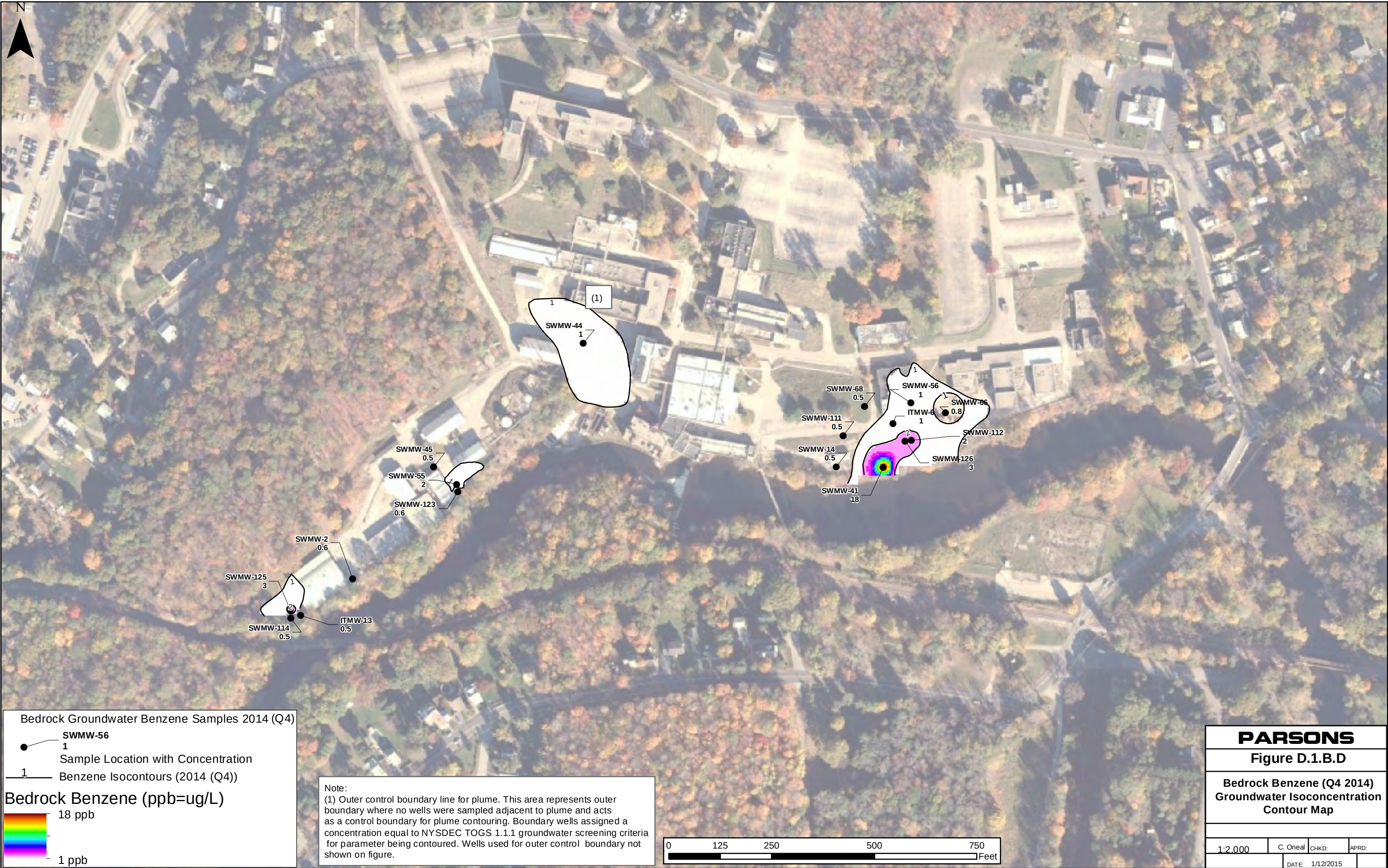


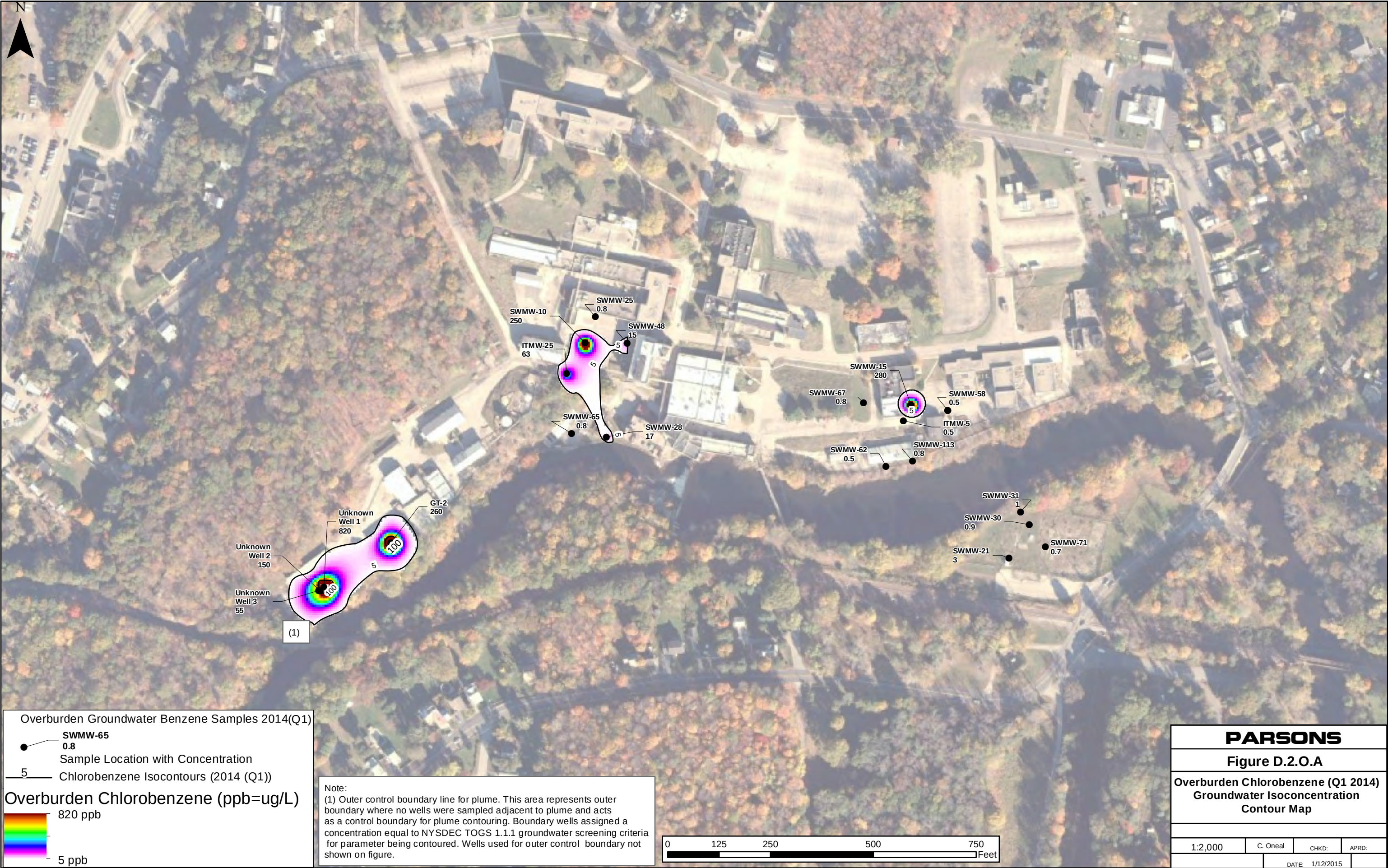


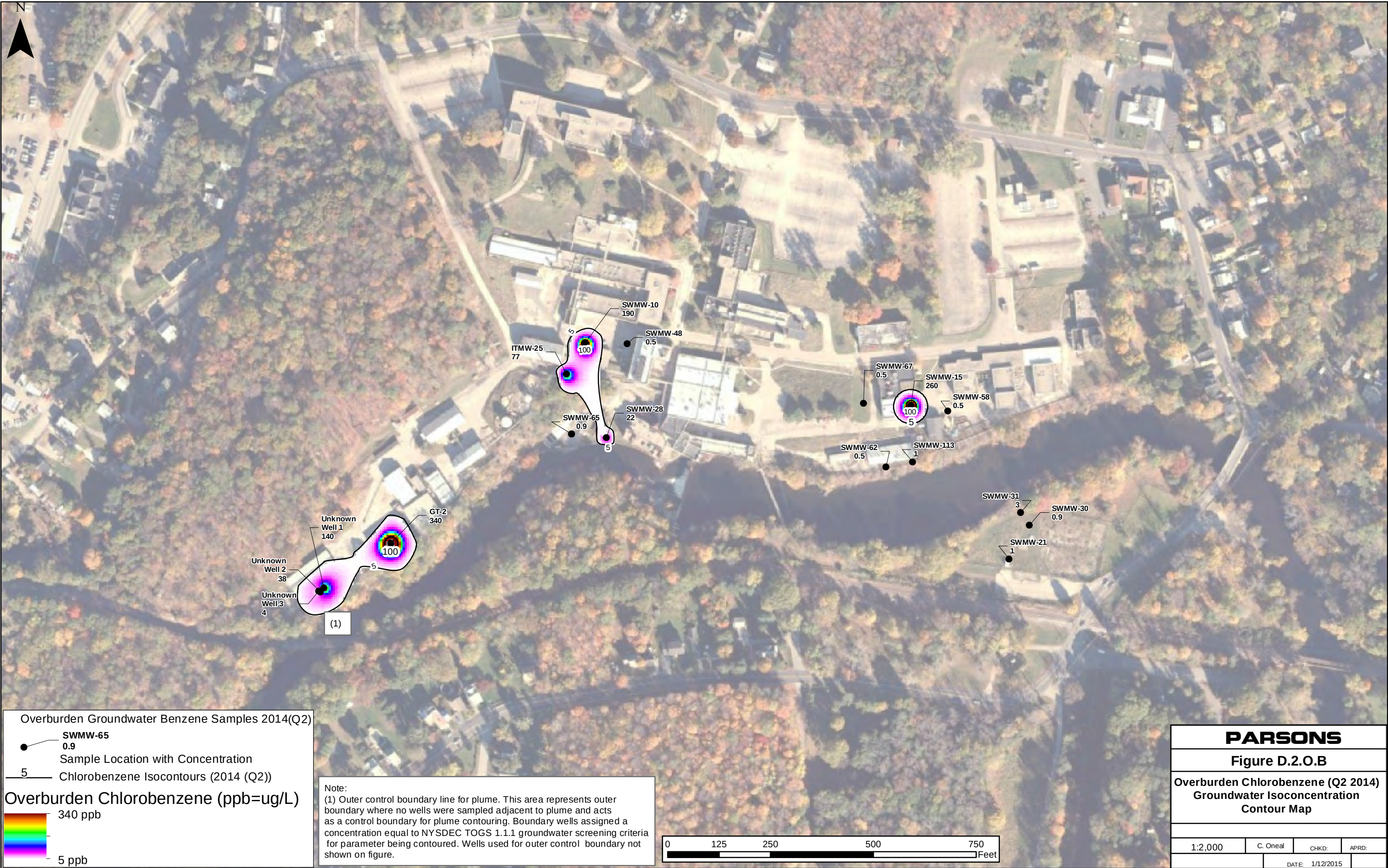


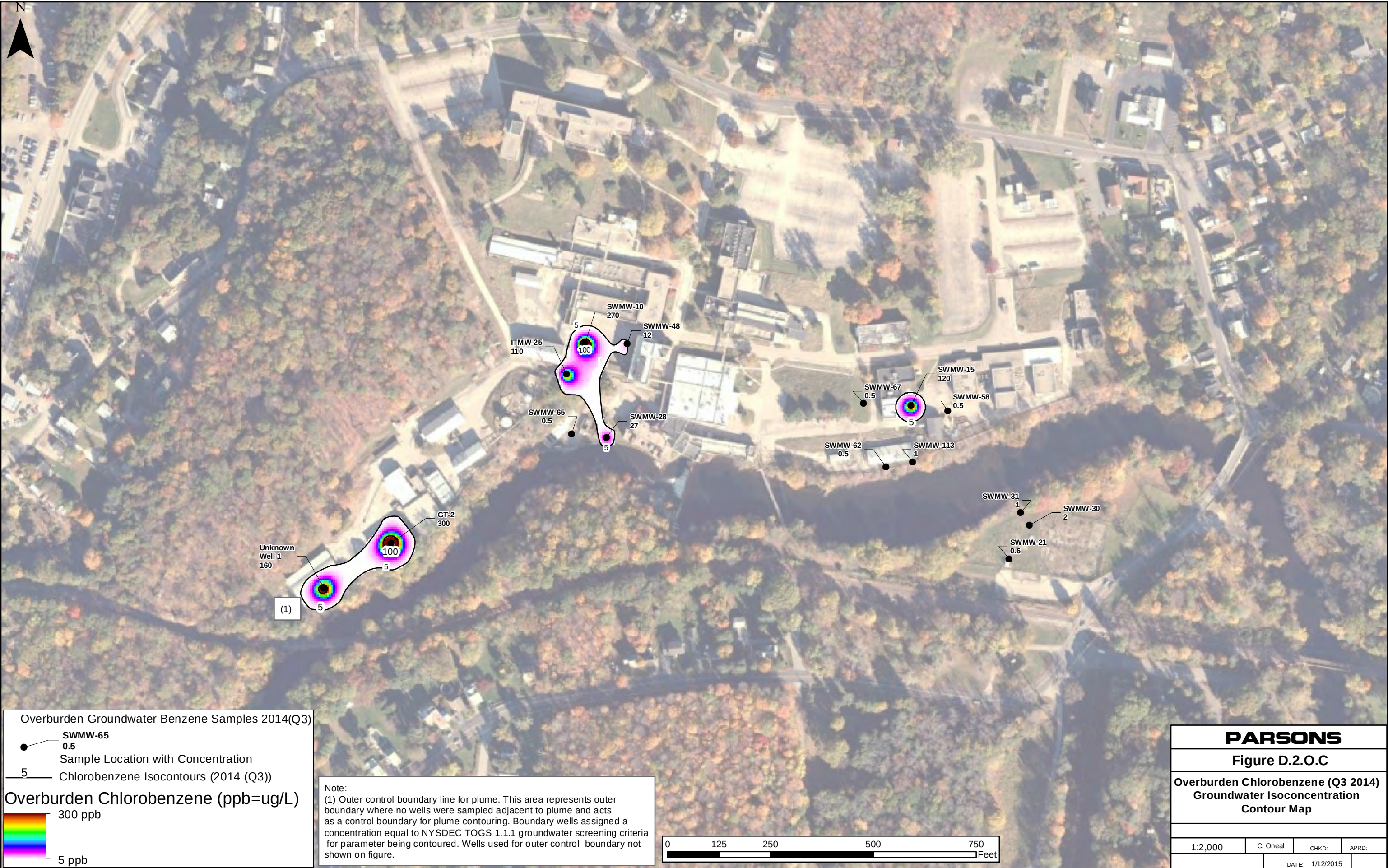


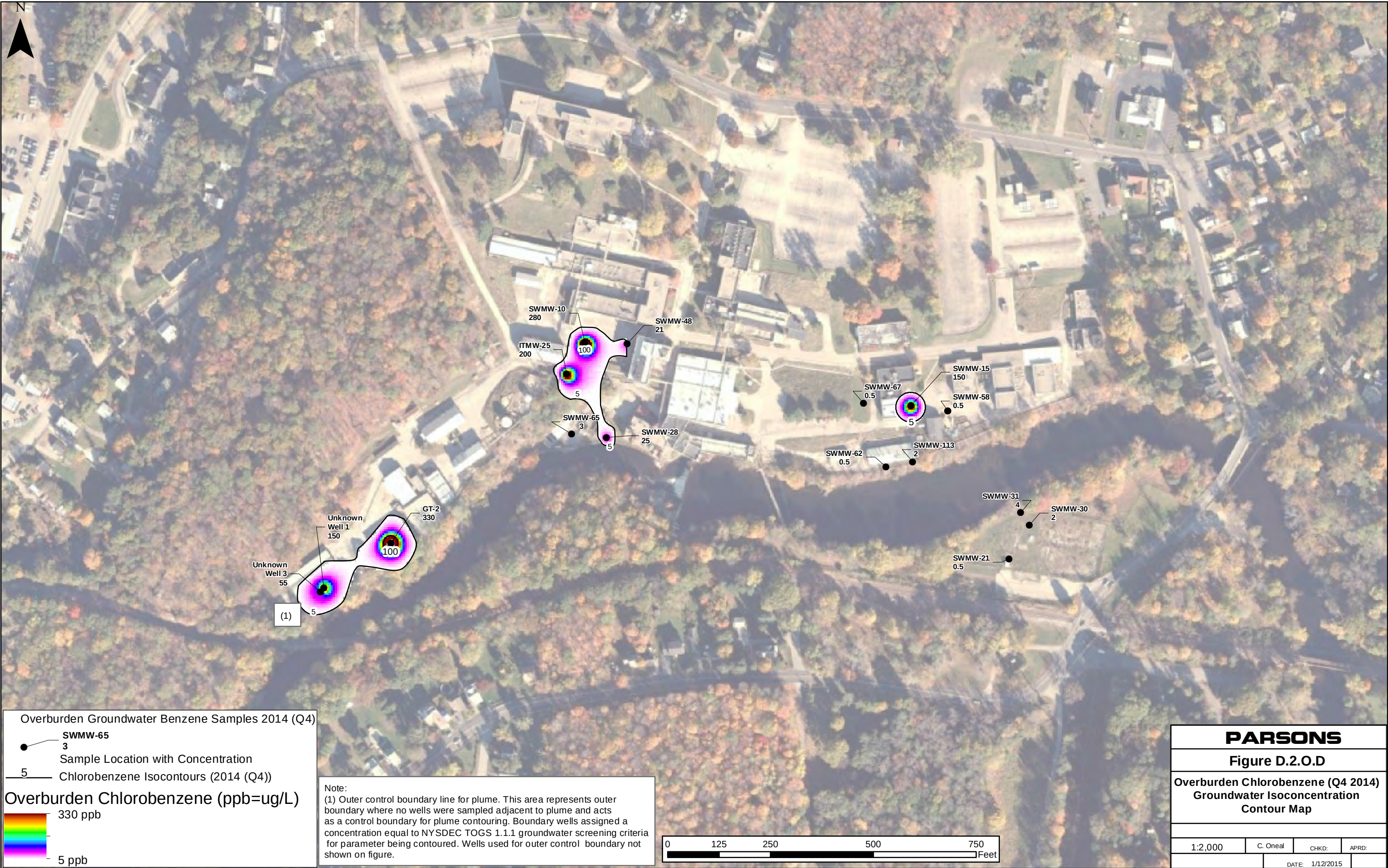


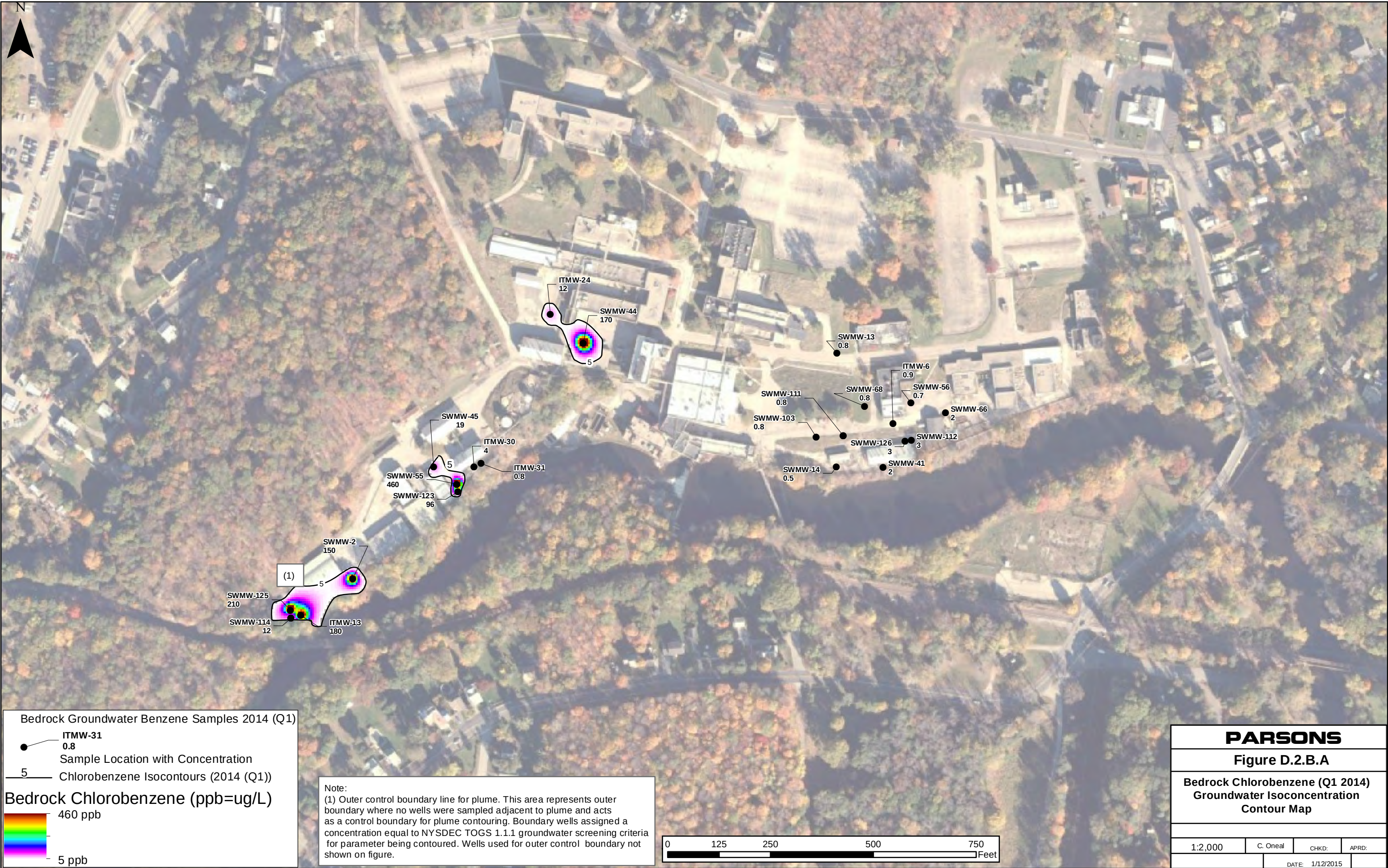


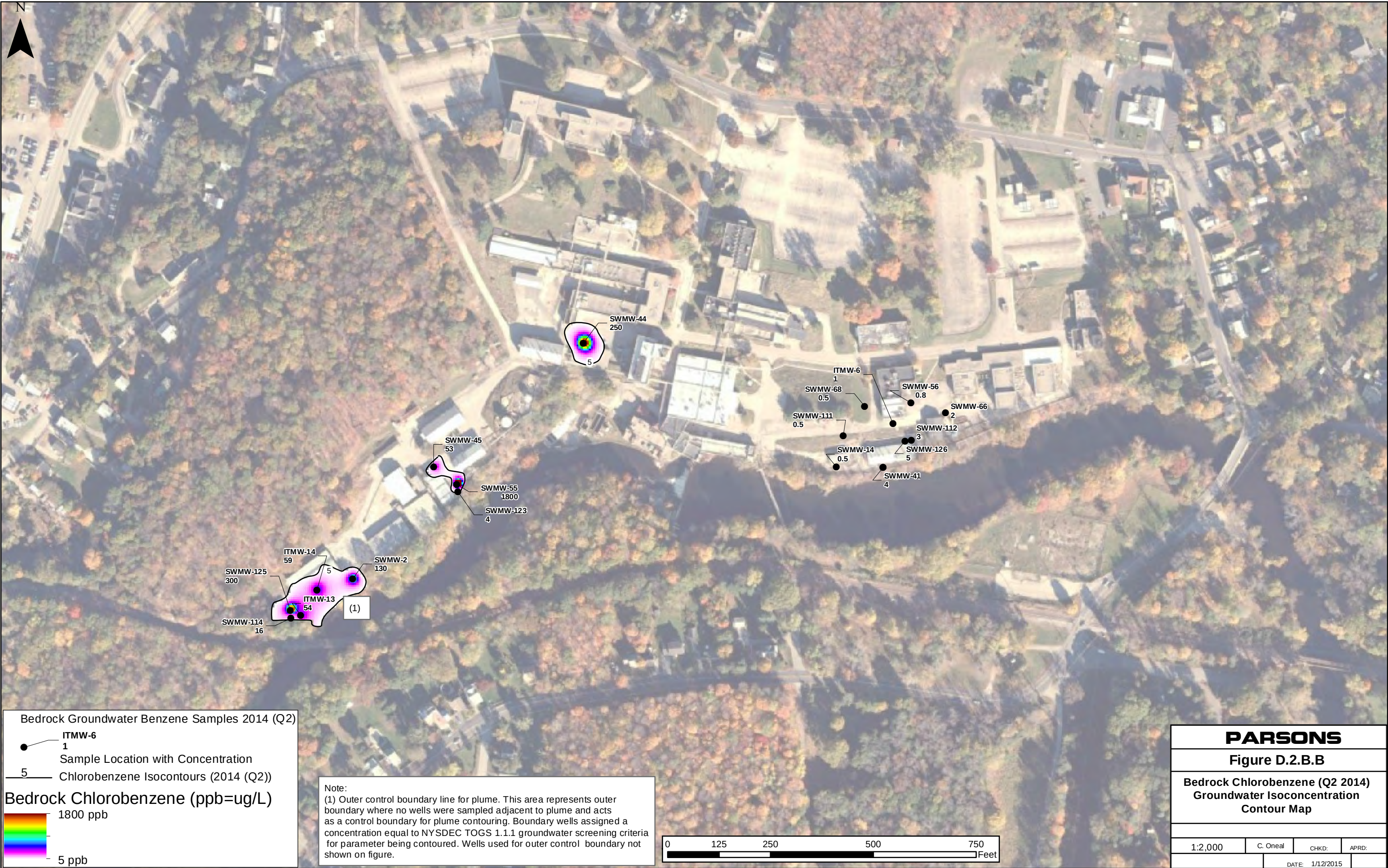


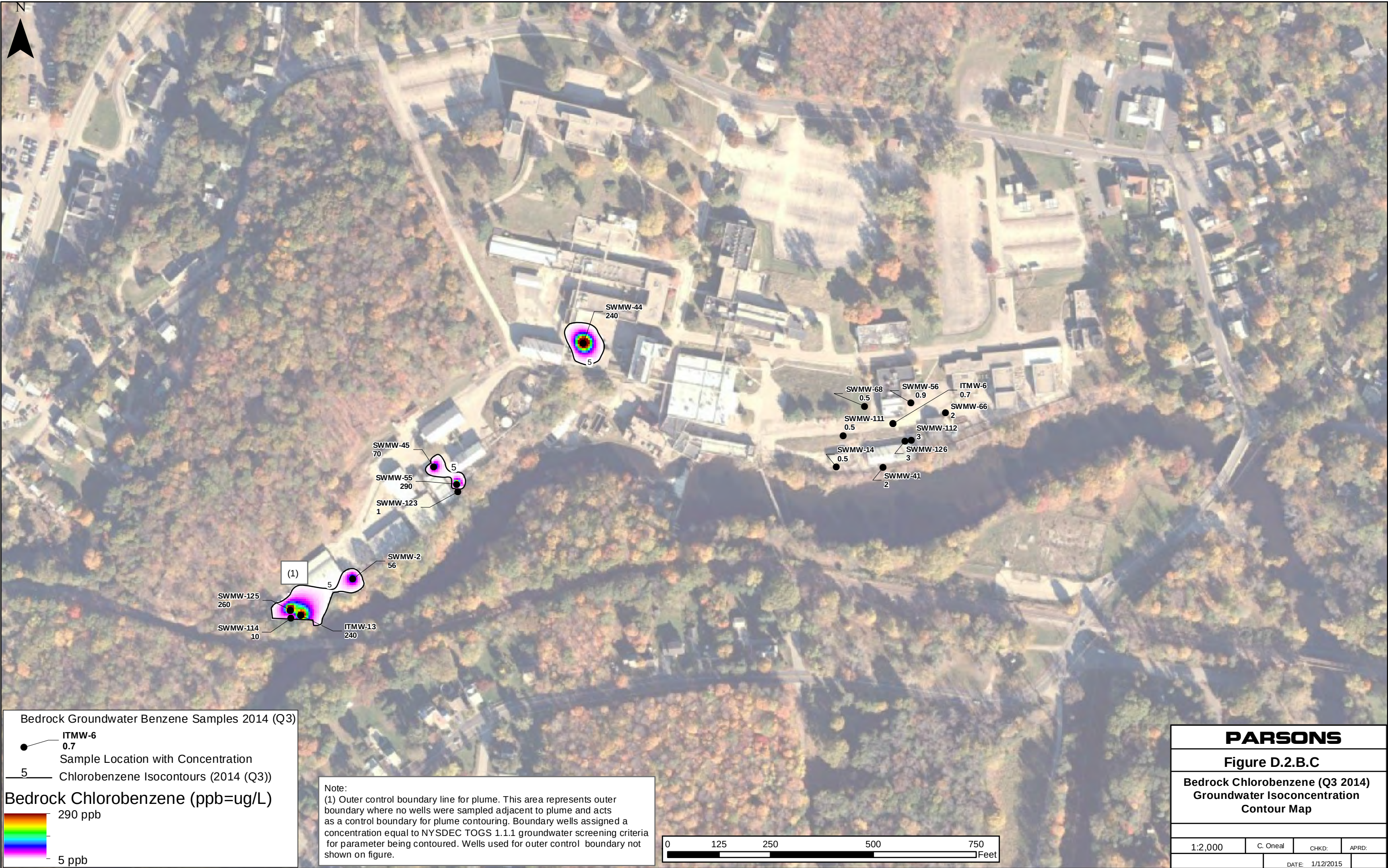


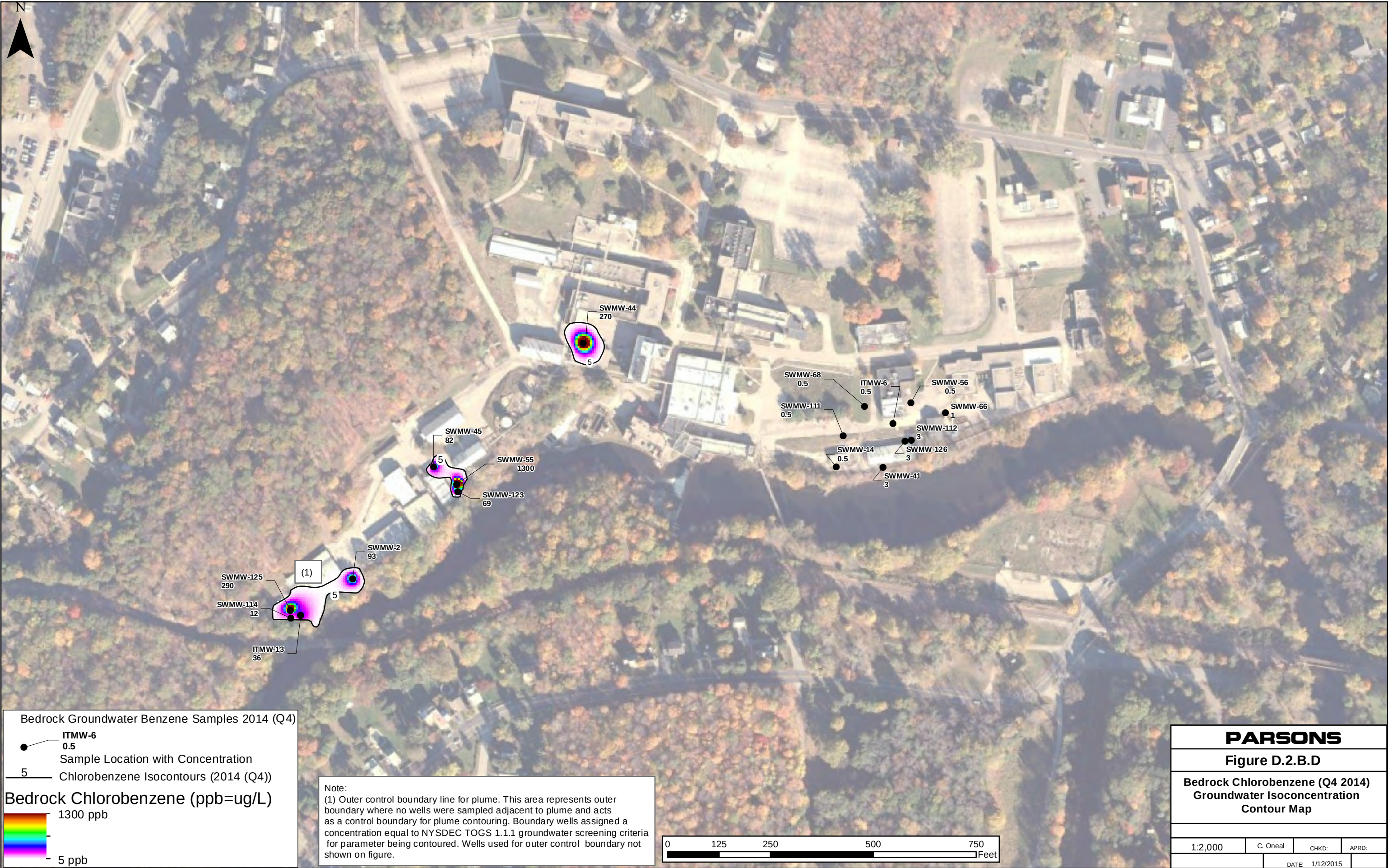














Overburden Groundwater TCE Samples 2014 (Q1)

● SWMW-65
1
Sample Location with Concentration

5 TCE Isocontours (2014(Q1))

Overburden TCE (ppb=ug/L)

39 ppb

5 ppb

Note:
(1) Outer control boundary line for plume. This area represents outer boundary where no wells were sampled adjacent to plume and acts as a control boundary for plume contouring. Boundary wells assigned a concentration equal to NYSDEC TOGS 1.1.1 groundwater screening criteria for parameter being contoured. Wells used for outer control boundary not shown on figure.



PARSONS			
Figure D.3.O.A			
Overburden TCE (Q1 2014) Groundwater Isoconcentration Contour Map			
1:2,000	C. Oneal	CHKD:	APRD:
		DATE: 1/12/2015	



Overburden Groundwater TCE Samples 2014 (Q2)

●

SWMW-65
0.5

Sample Location with Concentration

5

TCE Isocontours (2014(Q2))

Overburden TCE (ppb=ug/L)

100 ppb

5 ppb

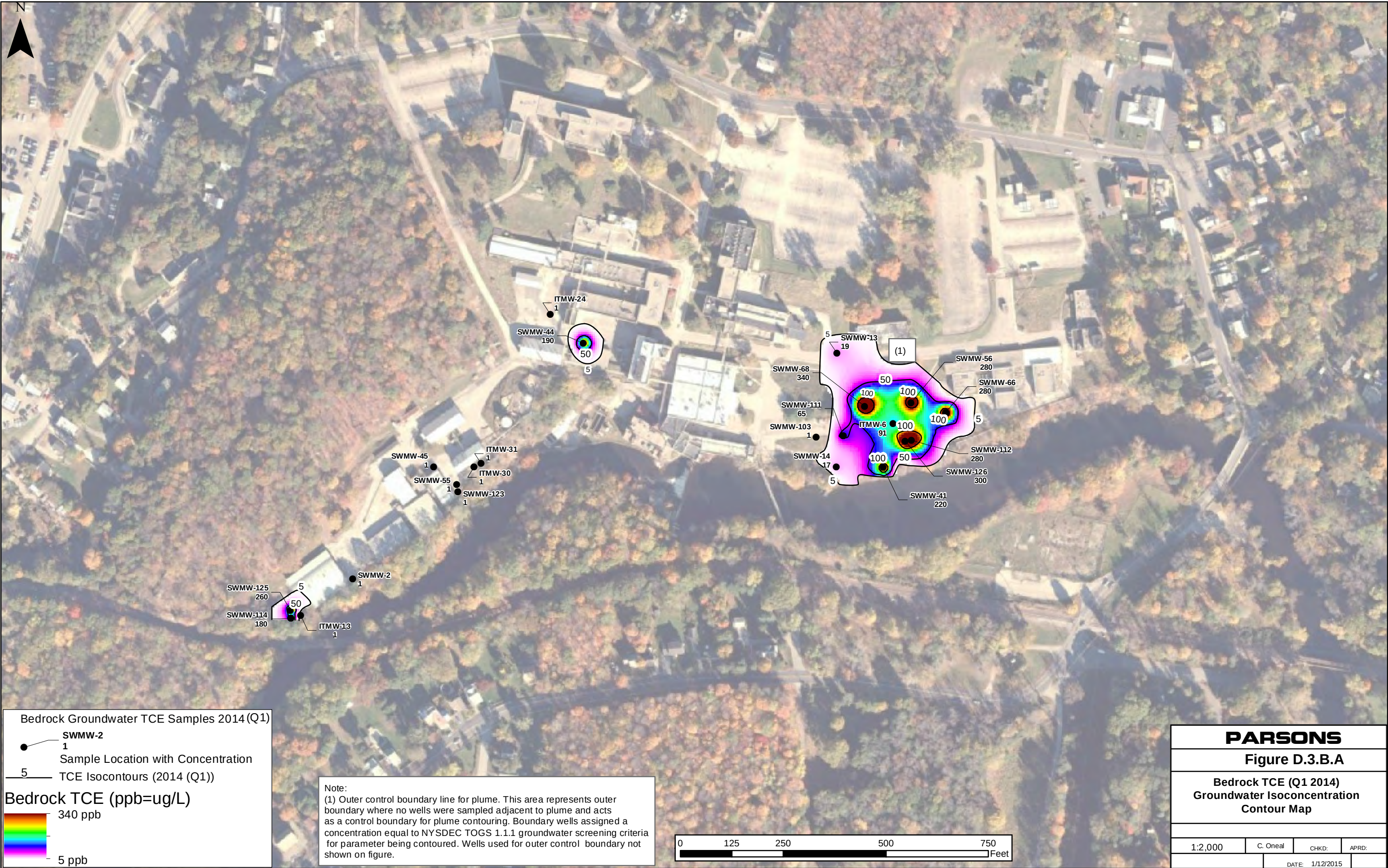
Note:
(1) Outer control boundary line for plume. This area represents outer boundary where no wells were sampled adjacent to plume and acts as a control boundary for plume contouring. Boundary wells assigned a concentration equal to NYSDEC TOGS 1.1.1 groundwater screening criteria for parameter being contoured. Wells used for outer control boundary not shown on figure.



PARSONS			
Figure D.3.O.B			
Overburden TCE (Q2 2014) Groundwater Isoconcentration Contour Map			
1:2,000	C. Oneal	CHKD:	APRD:
		DATE: 1/12/2015	







Bedrock Groundwater TCE Samples 2014 (Q1)

● SWMW-2
1
Sample Location with Concentration

5 TCE Isocontours (2014 (Q1))

Bedrock TCE (ppb=ug/L)

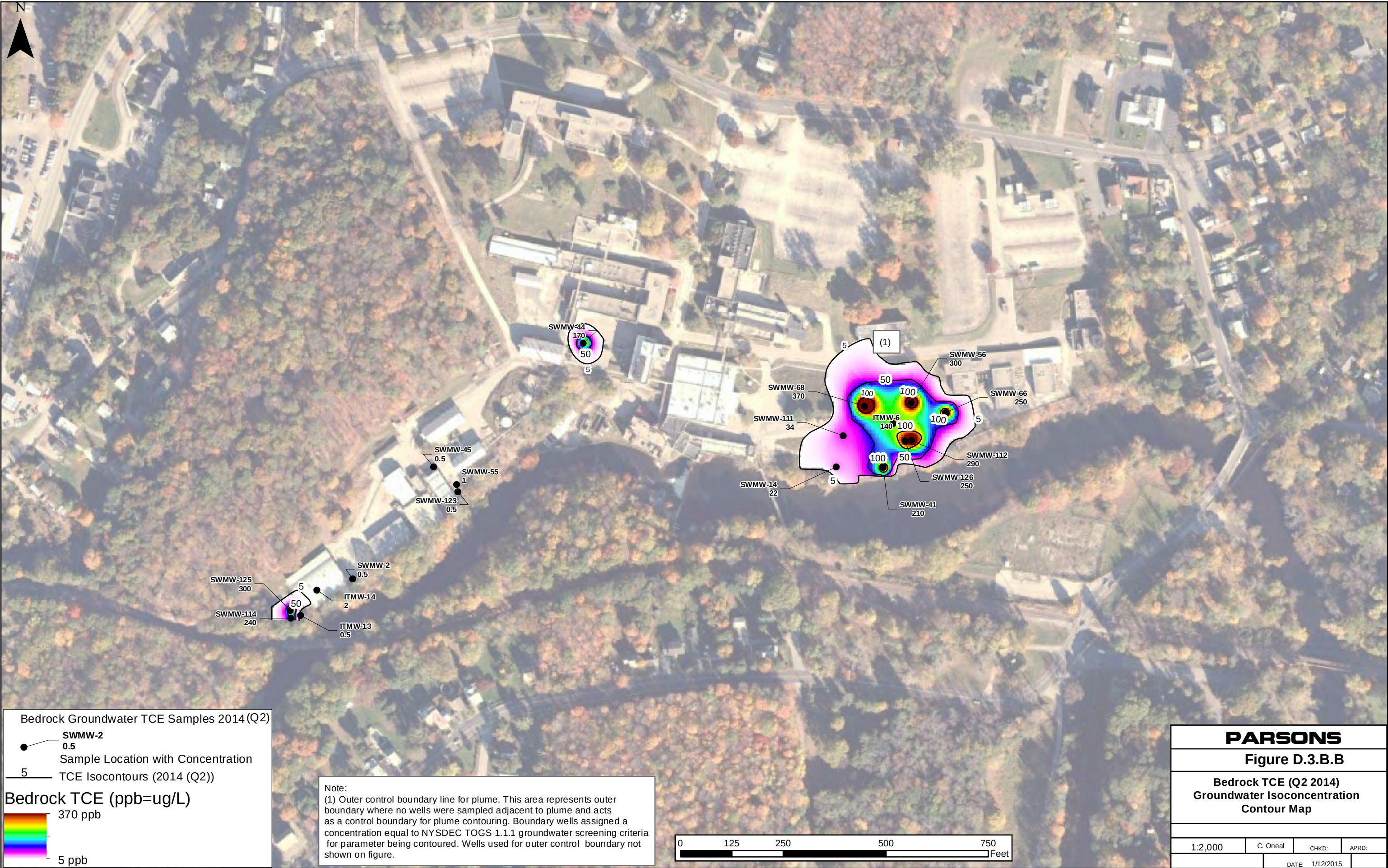
340 ppb

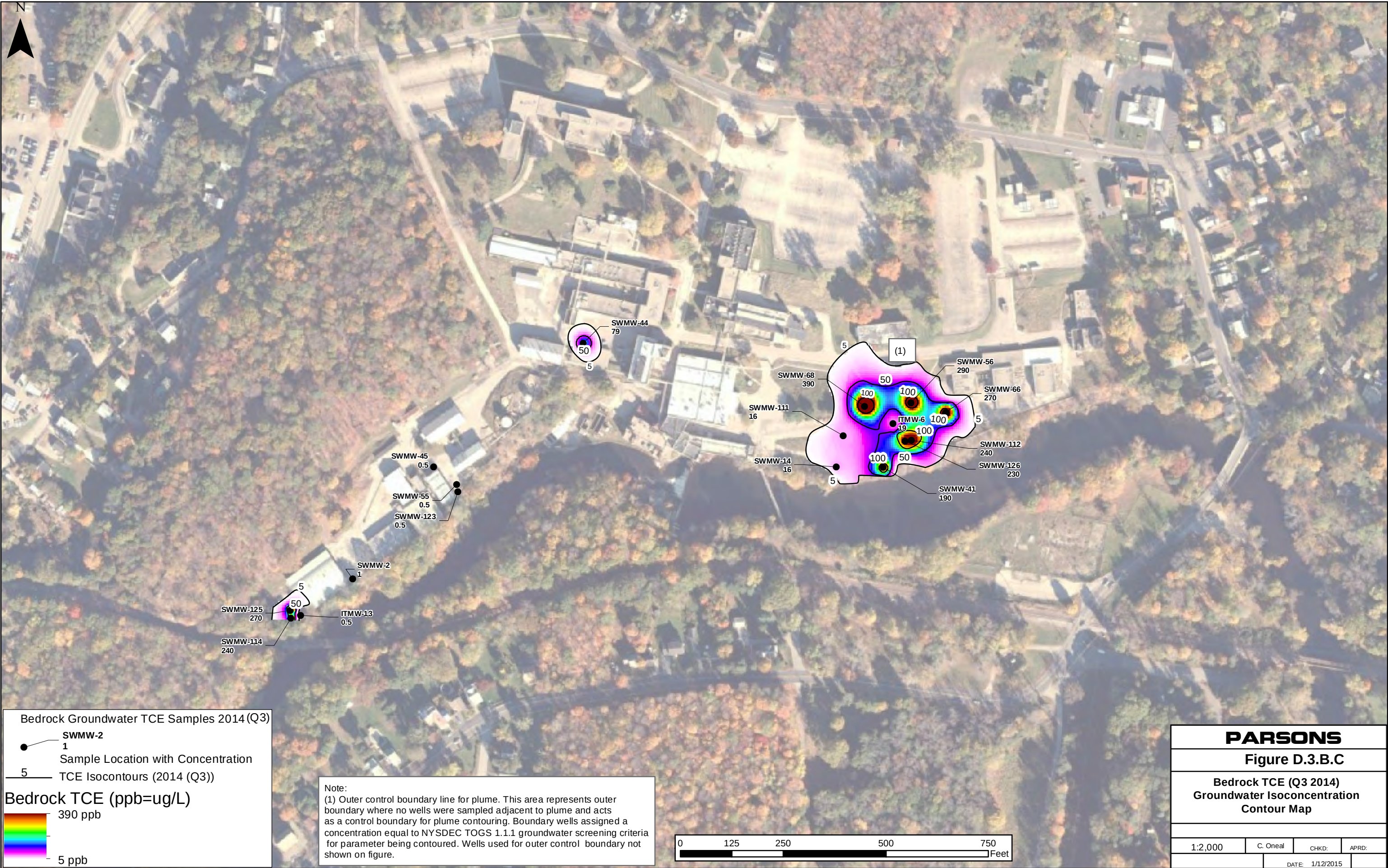
5 ppb

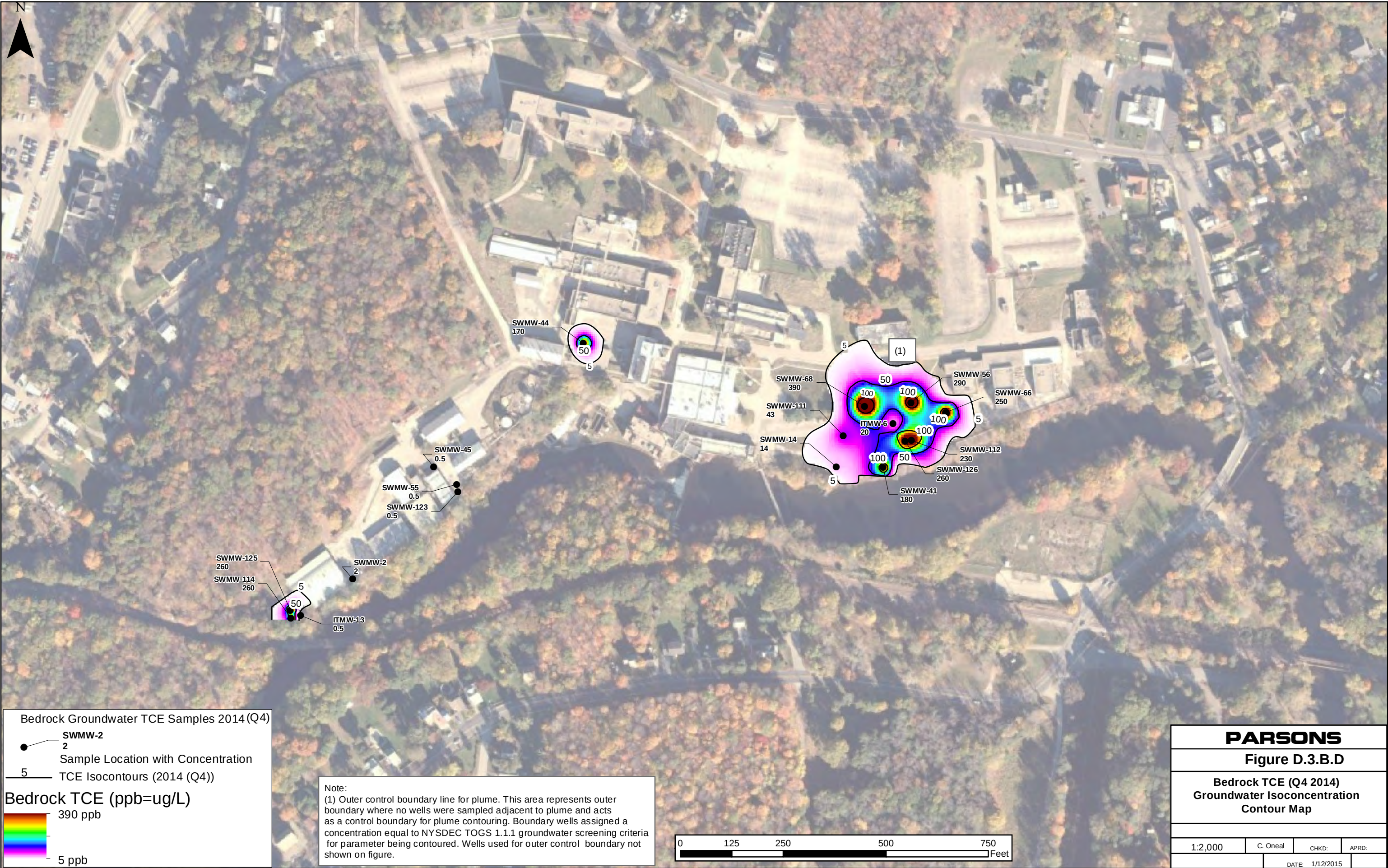
Note:
(1) Outer control boundary line for plume. This area represents outer boundary where no wells were sampled adjacent to plume and acts as a control boundary for plume contouring. Boundary wells assigned a concentration equal to NYSDEC TOGS 1.1.1 groundwater screening criteria for parameter being contoured. Wells used for outer control boundary not shown on figure.



PARSONS			
Figure D.3.B.A			
Bedrock TCE (Q1 2014) Groundwater Isoconcentration Contour Map			
1:2,000	C. Oneal	CHKD:	APRD:
		DATE: 1/12/2015	





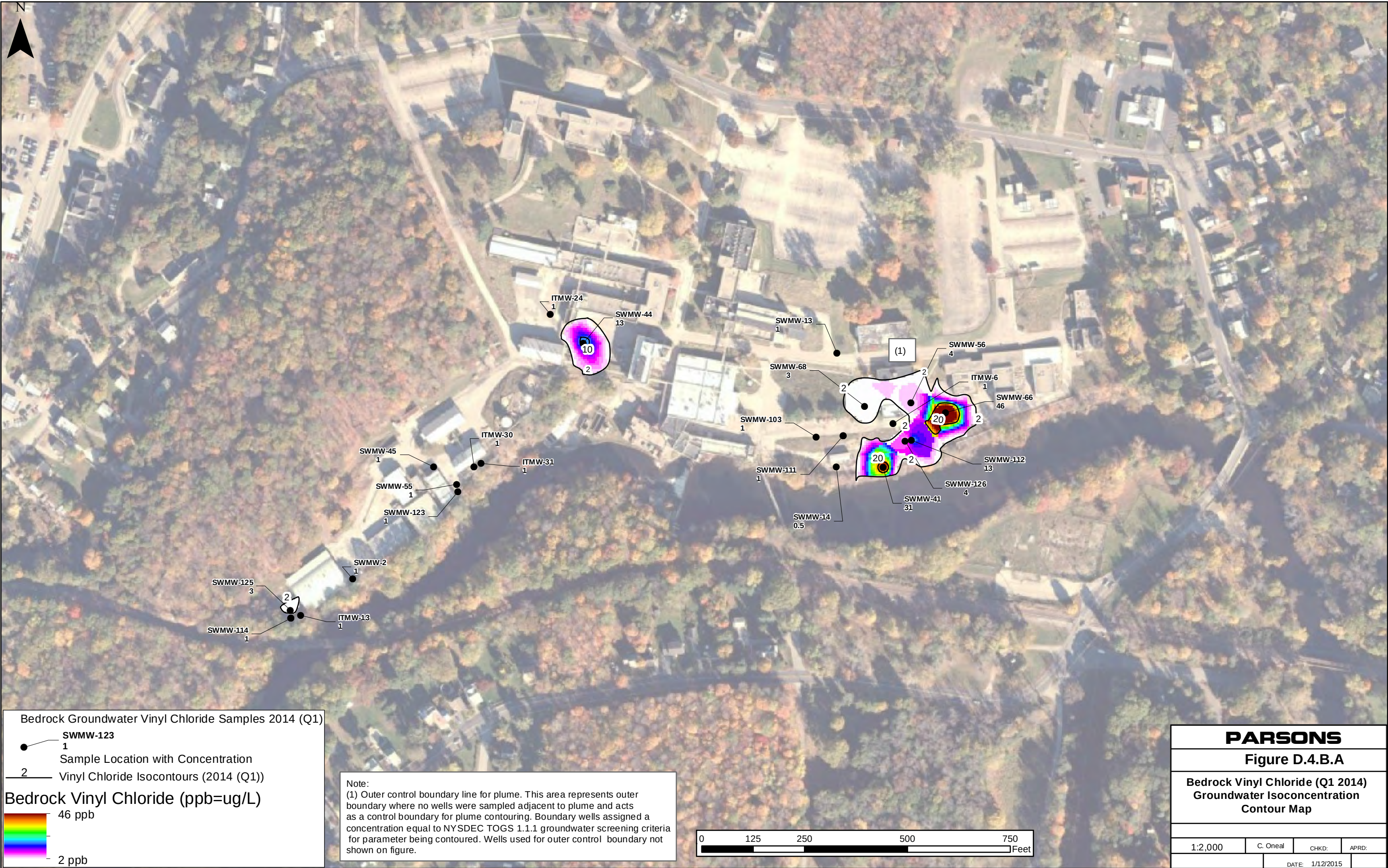


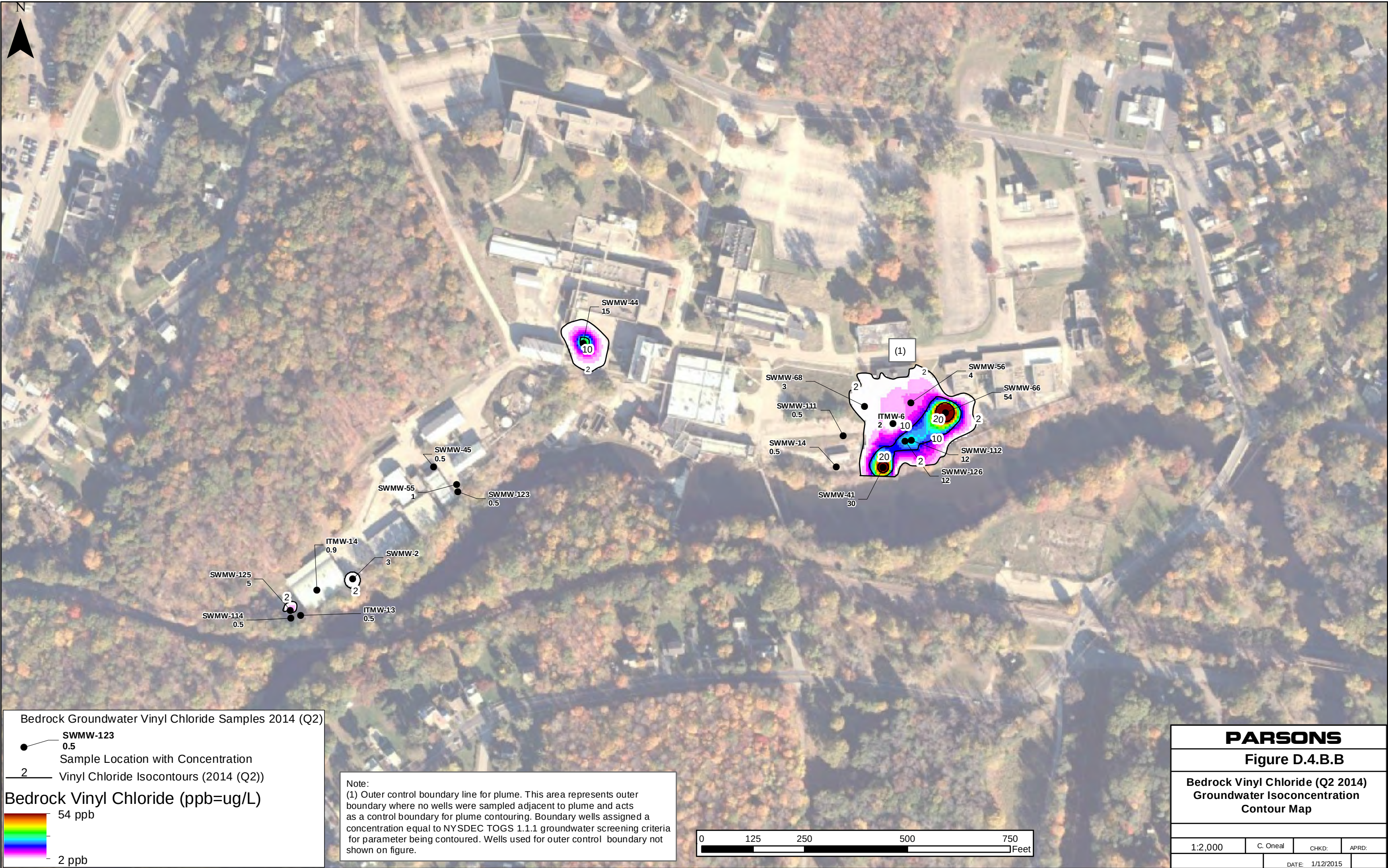


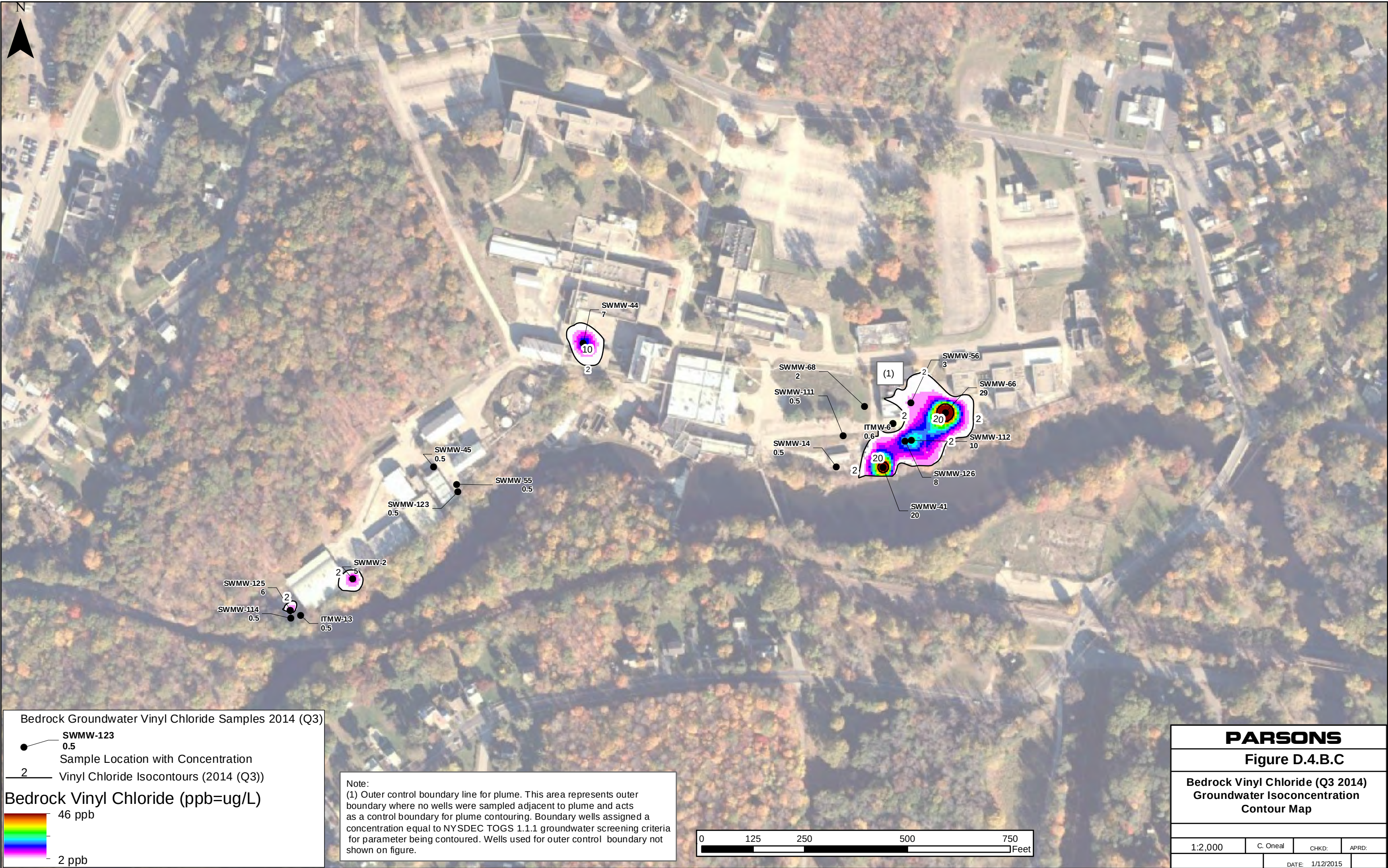












Bedrock Groundwater Vinyl Chloride Samples 2014 (Q3)

●

SWMW-123

0.5

Sample Location with Concentration

2

Vinyl Chloride Isocontours (2014 (Q3))

Bedrock Vinyl Chloride (ppb=ug/L)

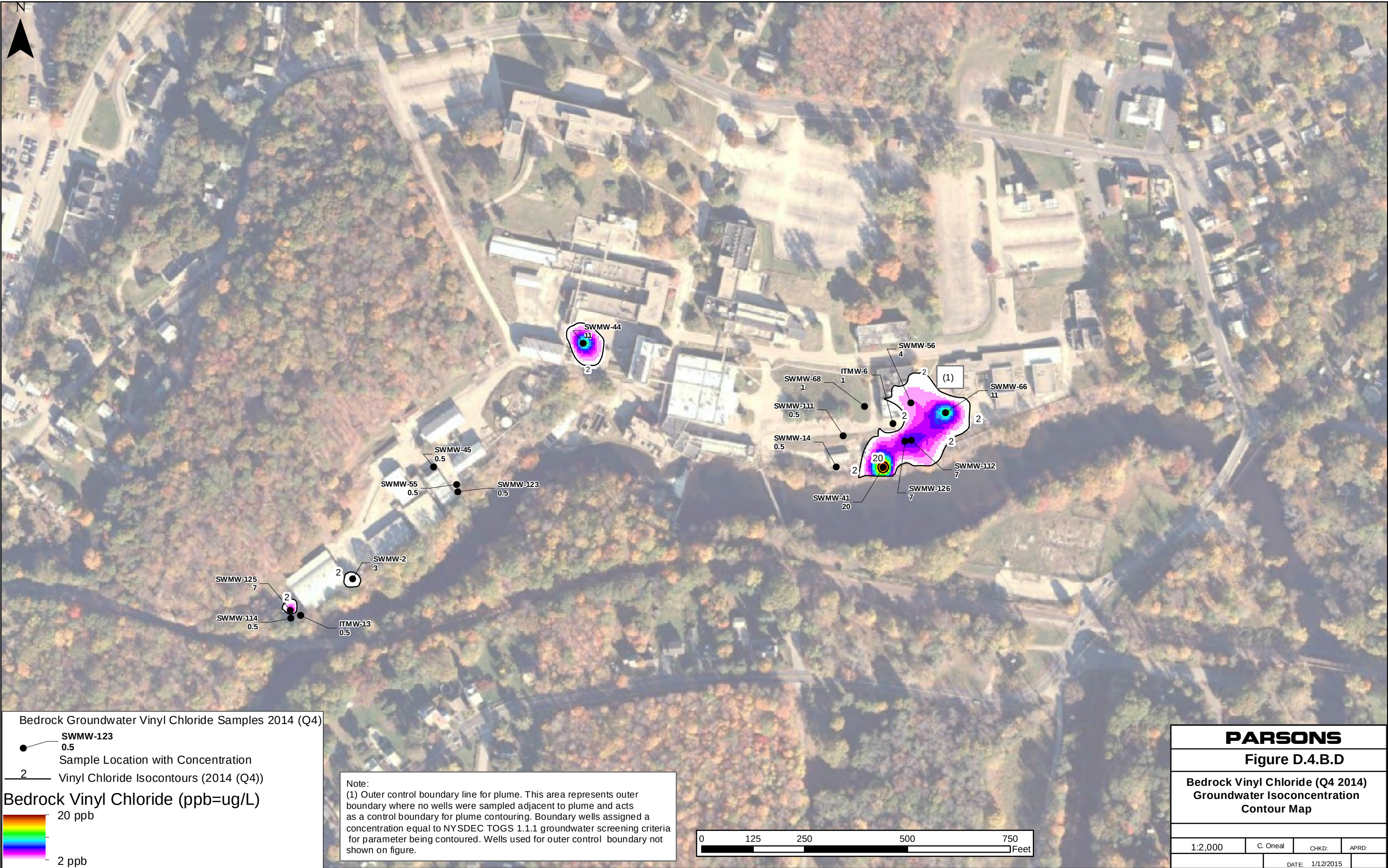
46 ppb

2 ppb

Note:
(1) Outer control boundary line for plume. This area represents outer boundary where no wells were sampled adjacent to plume and acts as a control boundary for plume contouring. Boundary wells assigned a concentration equal to NYSDEC TOGS 1.1.1 groundwater screening criteria for parameter being contoured. Wells used for outer control boundary not shown on figure.



PARSONS			
Figure D.4.B.C			
Bedrock Vinyl Chloride (Q3 2014) Groundwater Isoconcentration Contour Map			
1:2,000	C. Oneal	CHKD:	APRD:
		DATE: 1/12/2015	



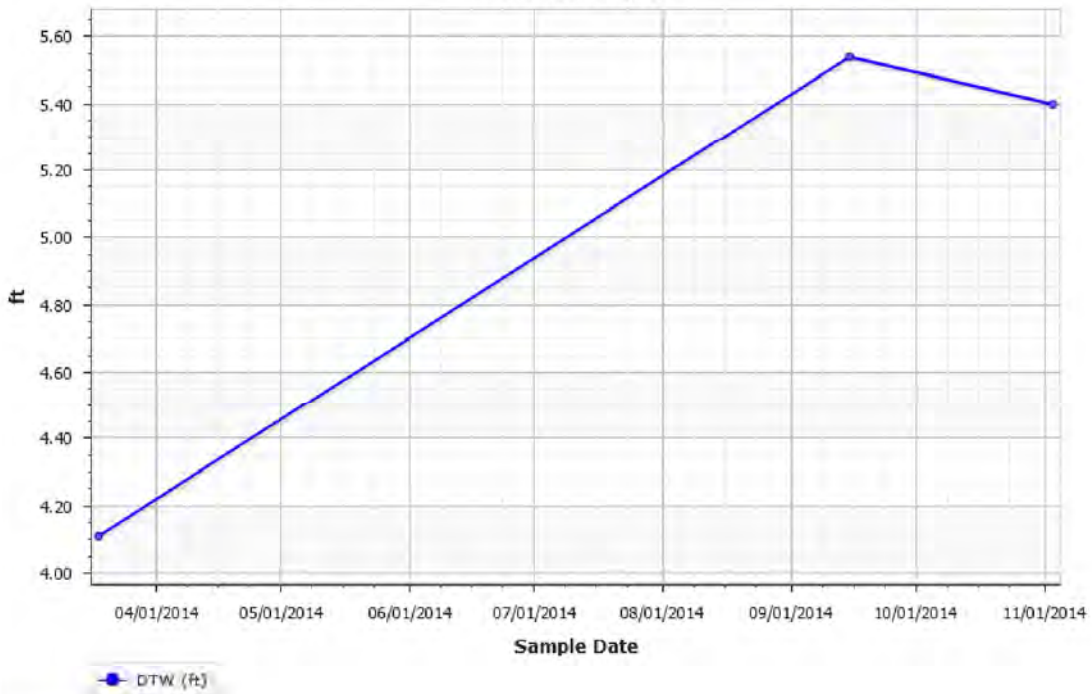
APPENDIX E

GRAPHS

**(DEPTH TO WATER, PRE/POST SAMPLING DISSOLVED AND REDOX
POTENTIAL, VOC CONCENTRATIONS, AND NATURAL
ATTENUATION PARAMETERS)**

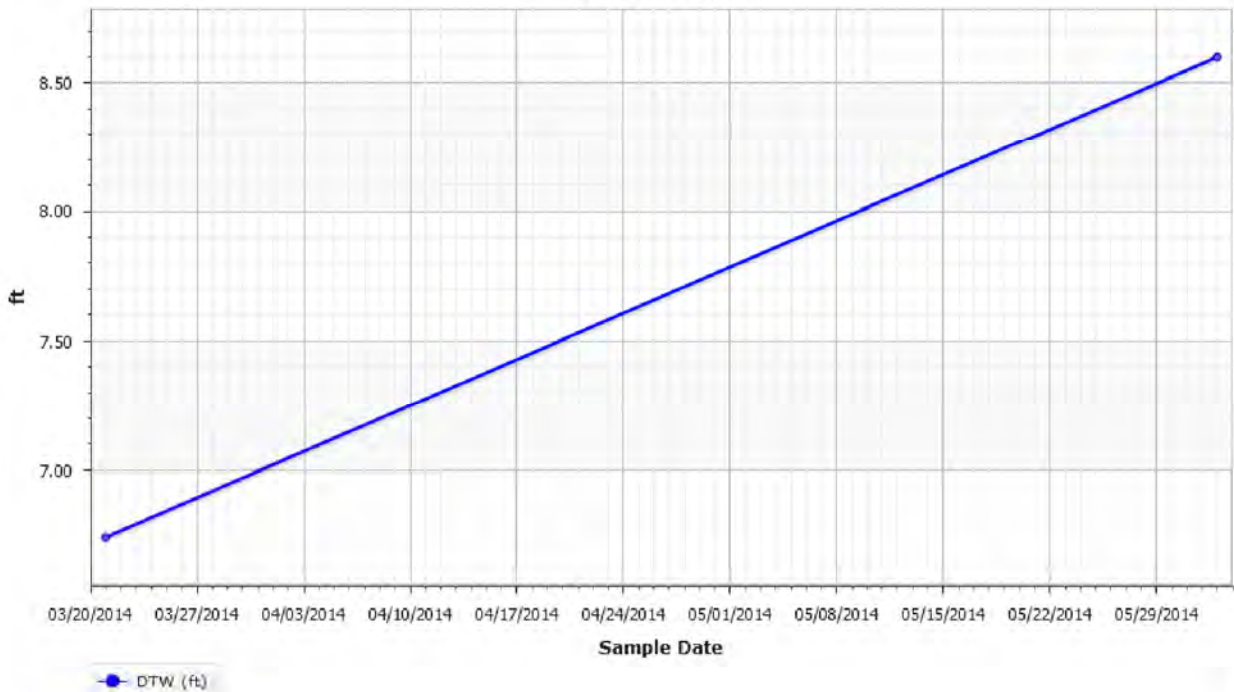
GT-2 (Overburden)

Site: Beacon, NY



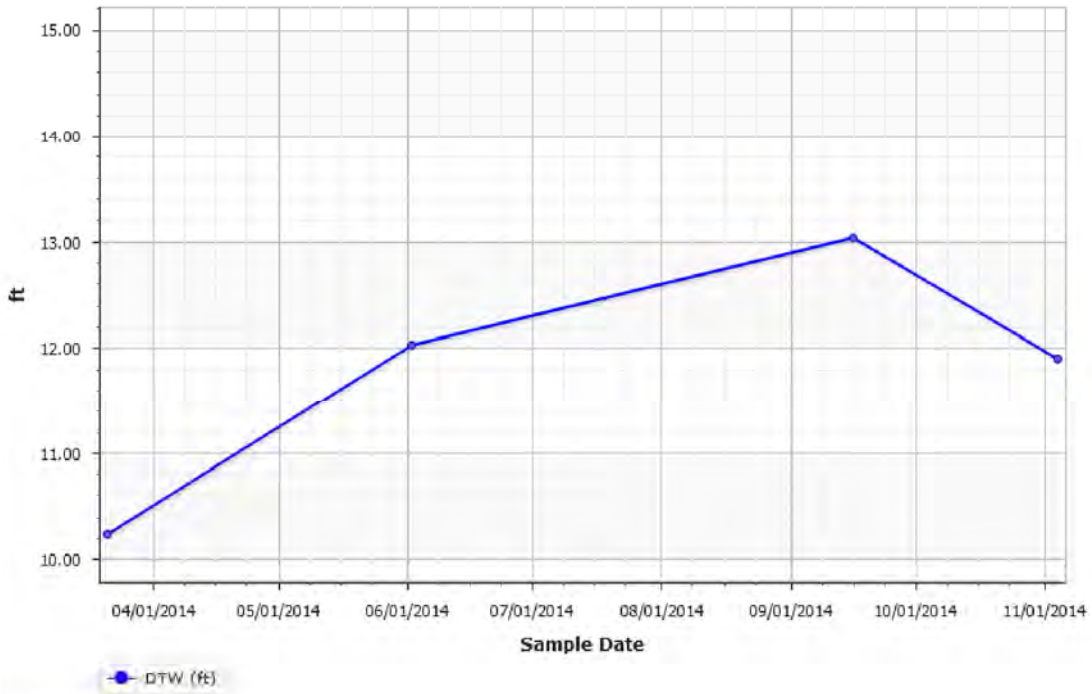
ITMW-24 (Overburden)

Site: Beacon, NY



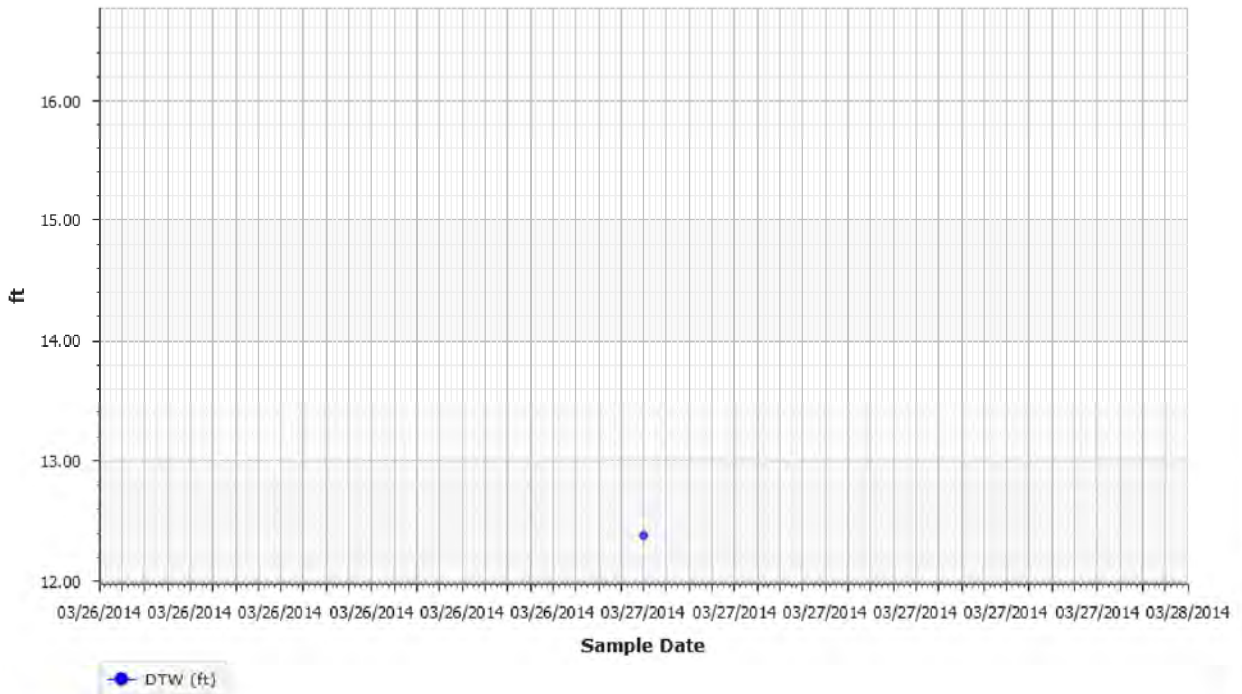
ITMW-25 (Overburden)

Site: Beacon, NY



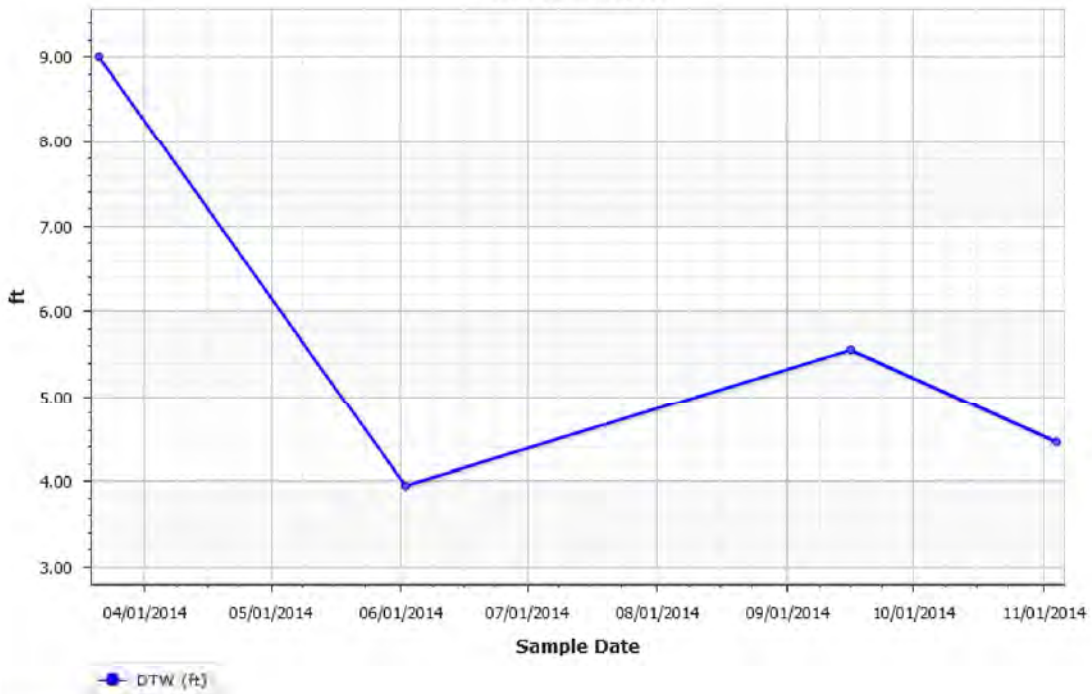
ITMW-5 (Overburden)

Site: Beacon, NY



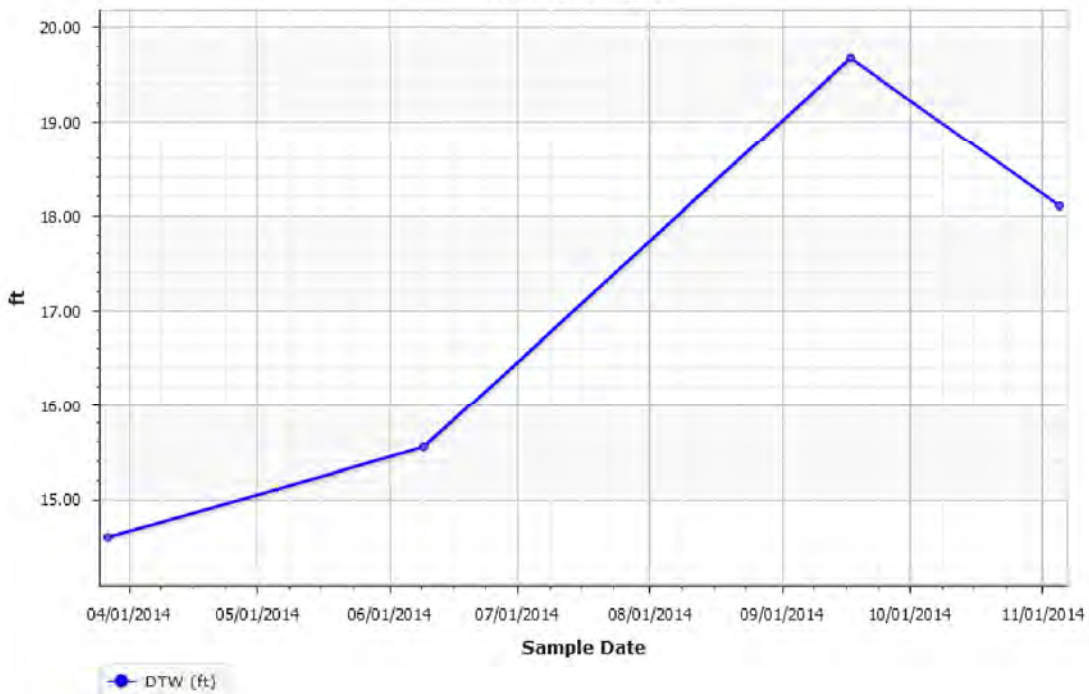
SWMW-10 (Overburden)

Site: Beacon, NY



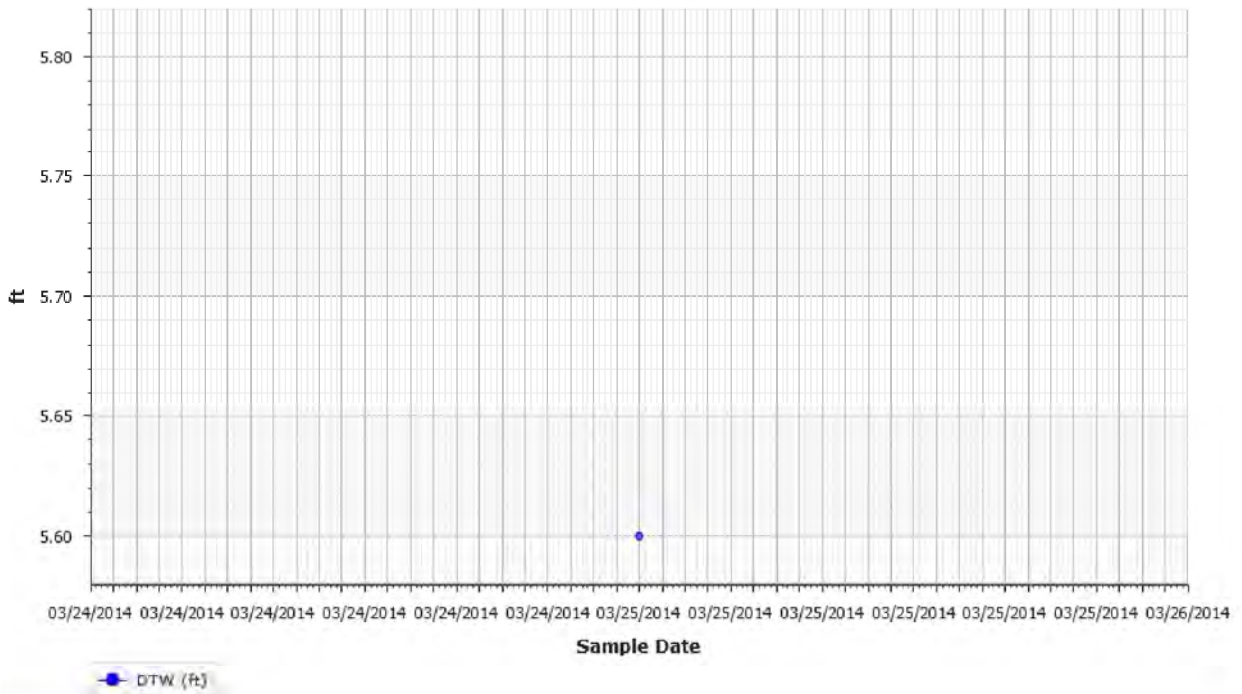
SWMW-15 (Overburden)

Site: Beacon, NY



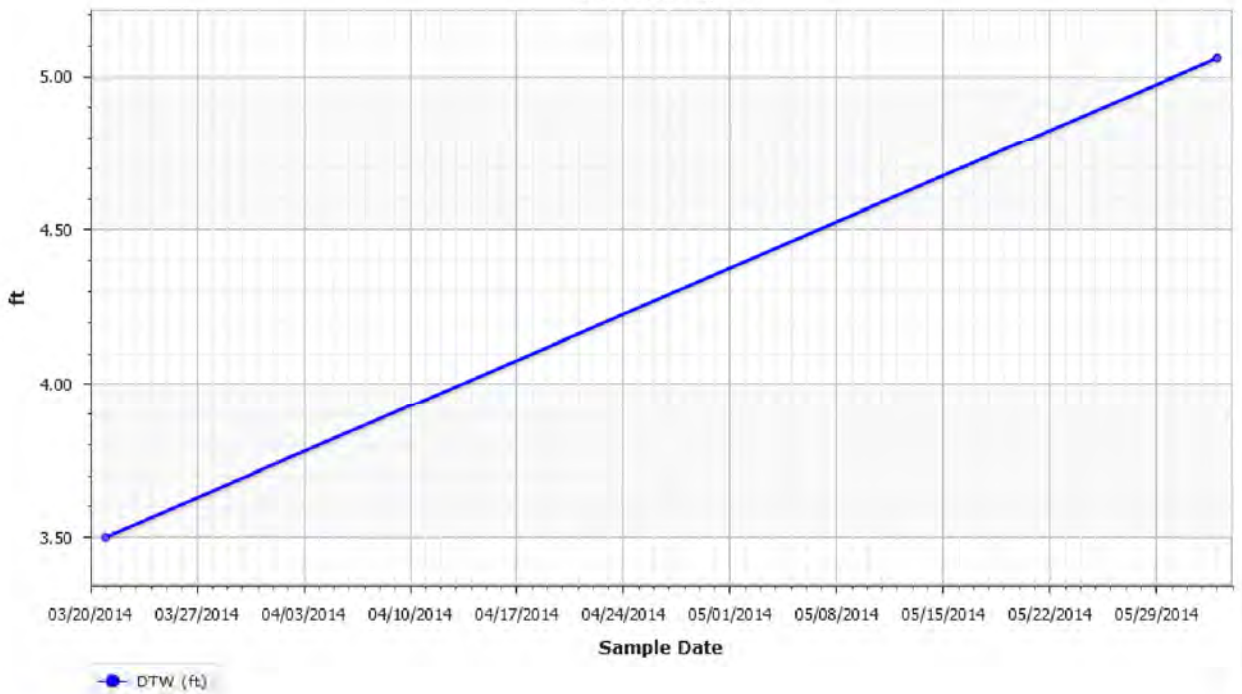
SWMW-21 (Overburden)

Site: Beacon, NY



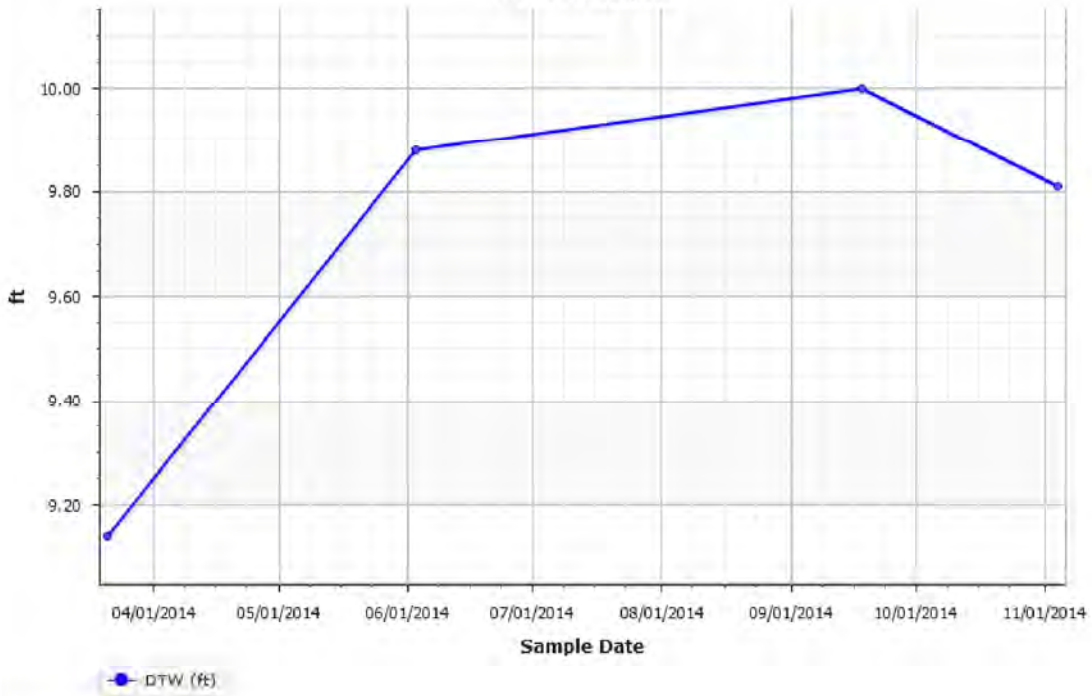
SWMW-25 (Overburden)

Site: Beacon, NY



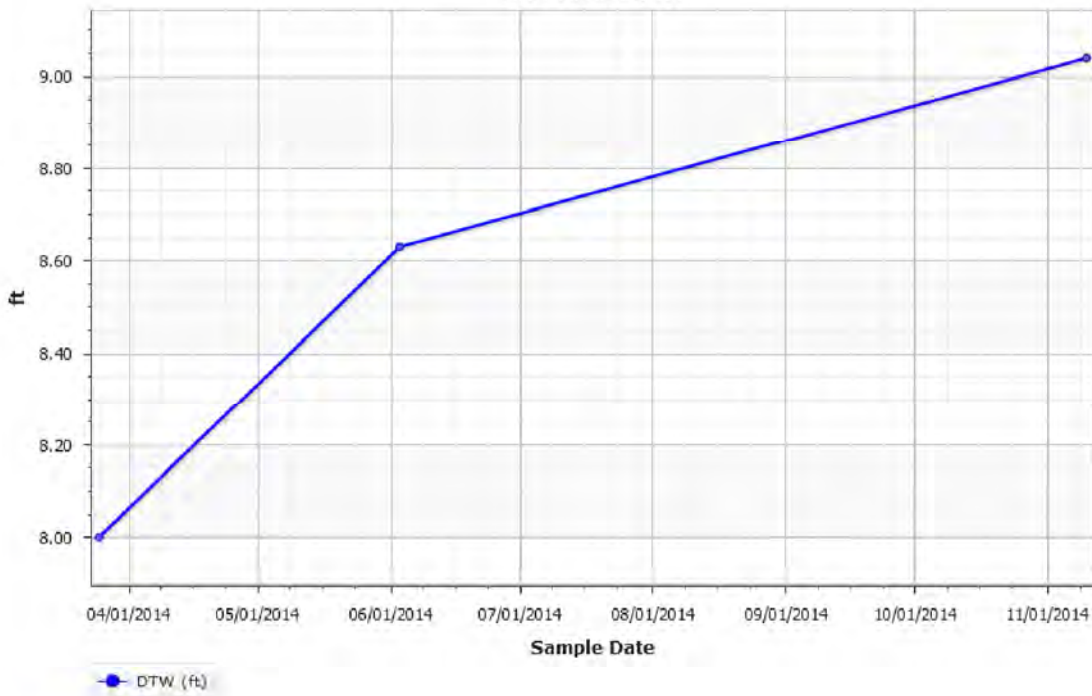
SWMW-28 (Overburden)

Site: Beacon, NY



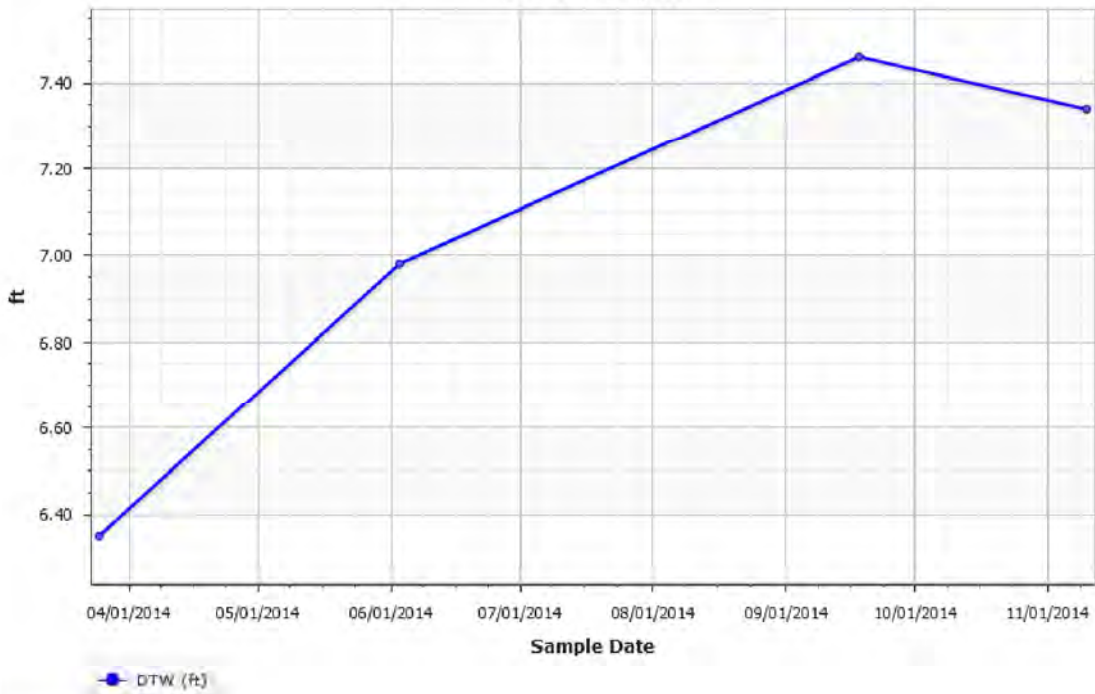
SWMW-30 (Overburden)

Site: Beacon, NY



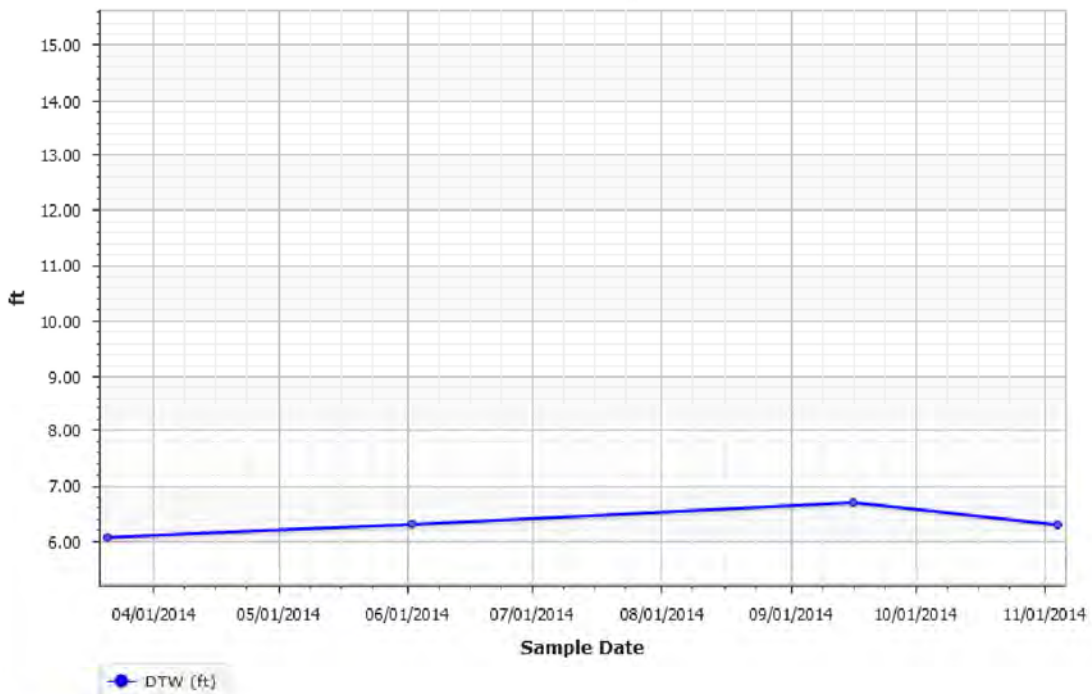
SWMW-31 (Overburden)

Site: Beacon, NY



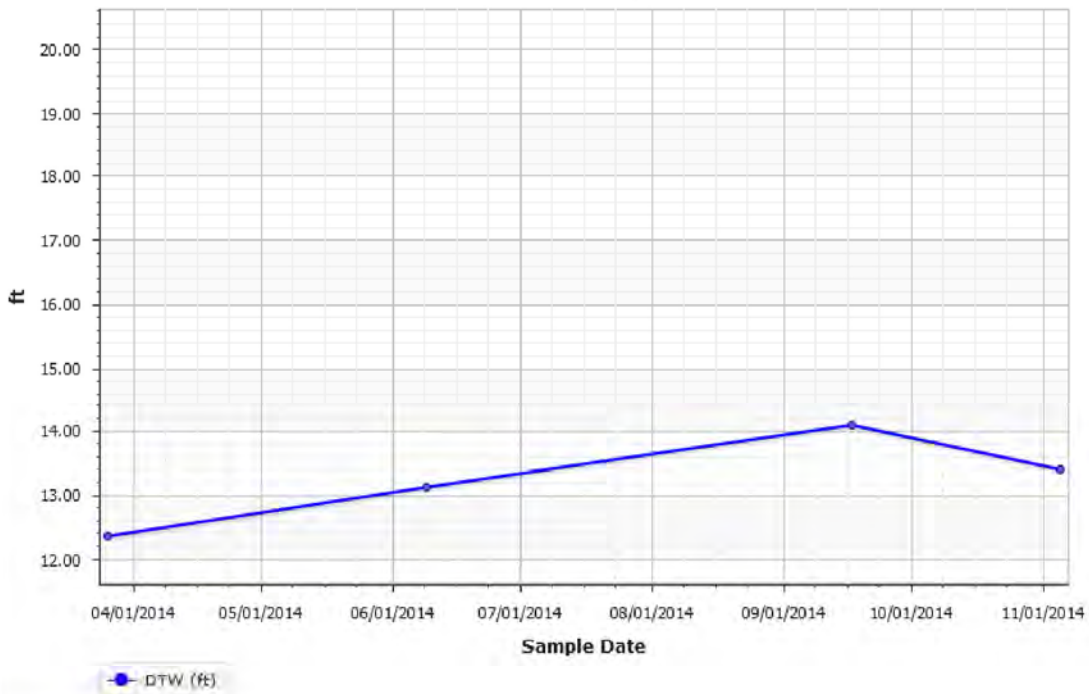
SWMW-48 (Overburden)

Site: Beacon, NY



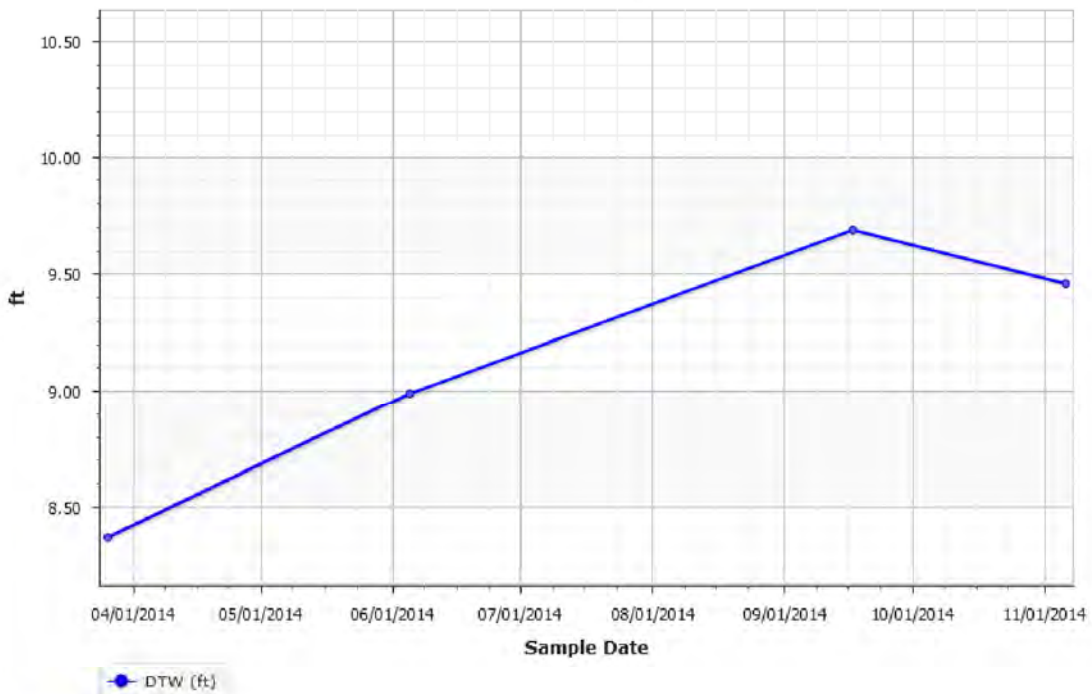
SWMW-58 (Overburden)

Site: Beacon, NY



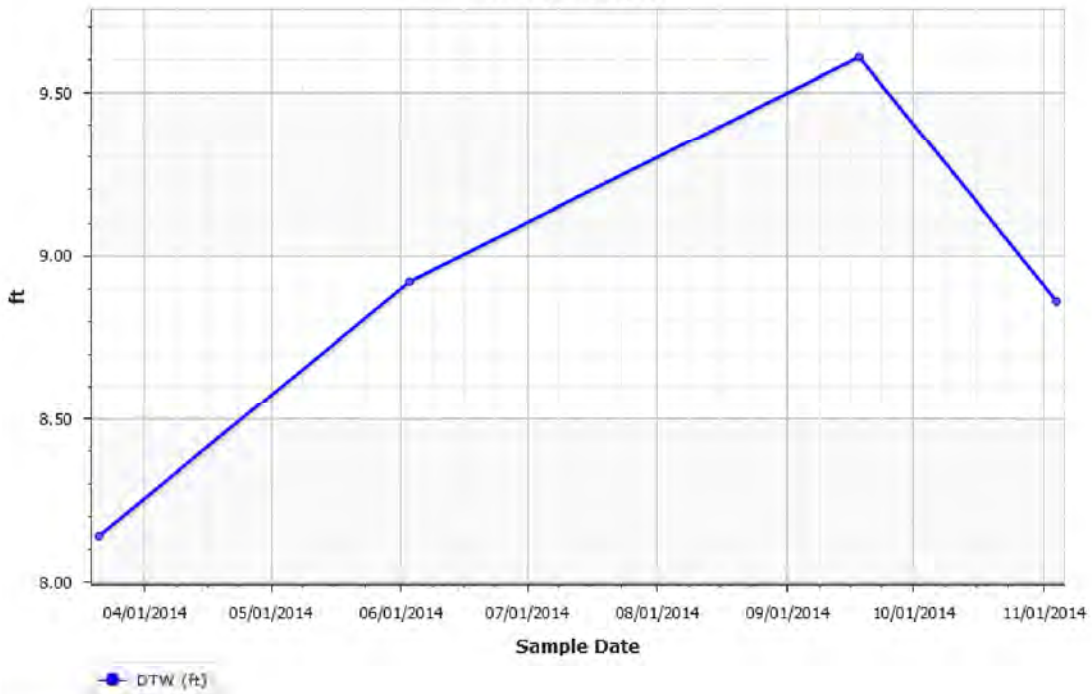
SWMW-62 (Overburden)

Site: Beacon, NY



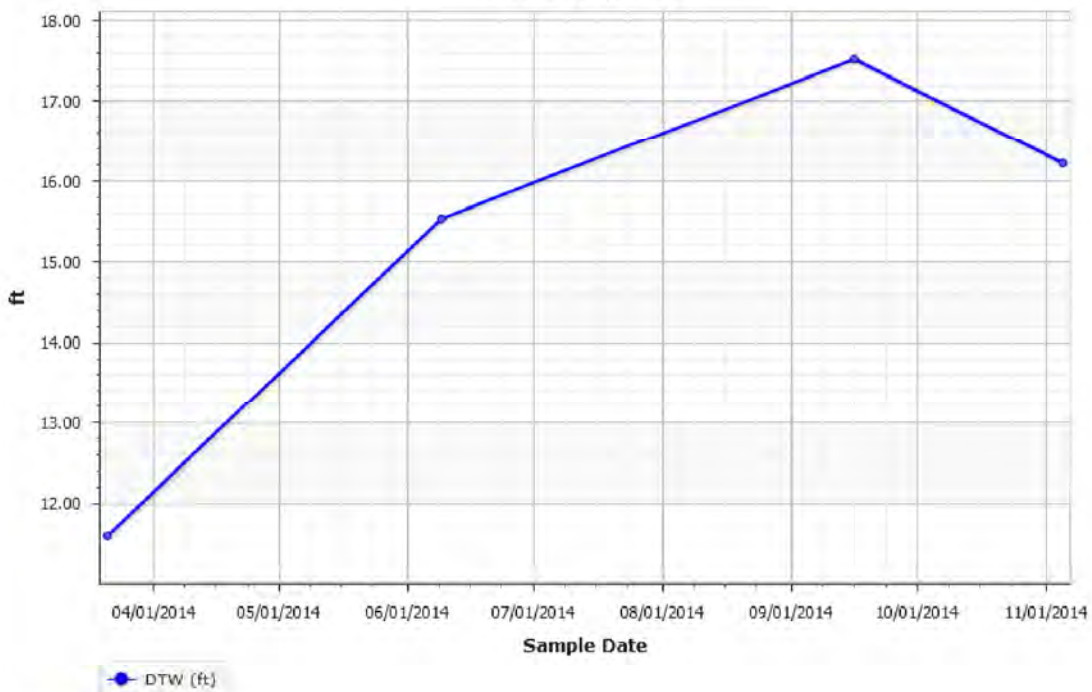
SWMW-65 (Overburden)

Site: Beacon, NY



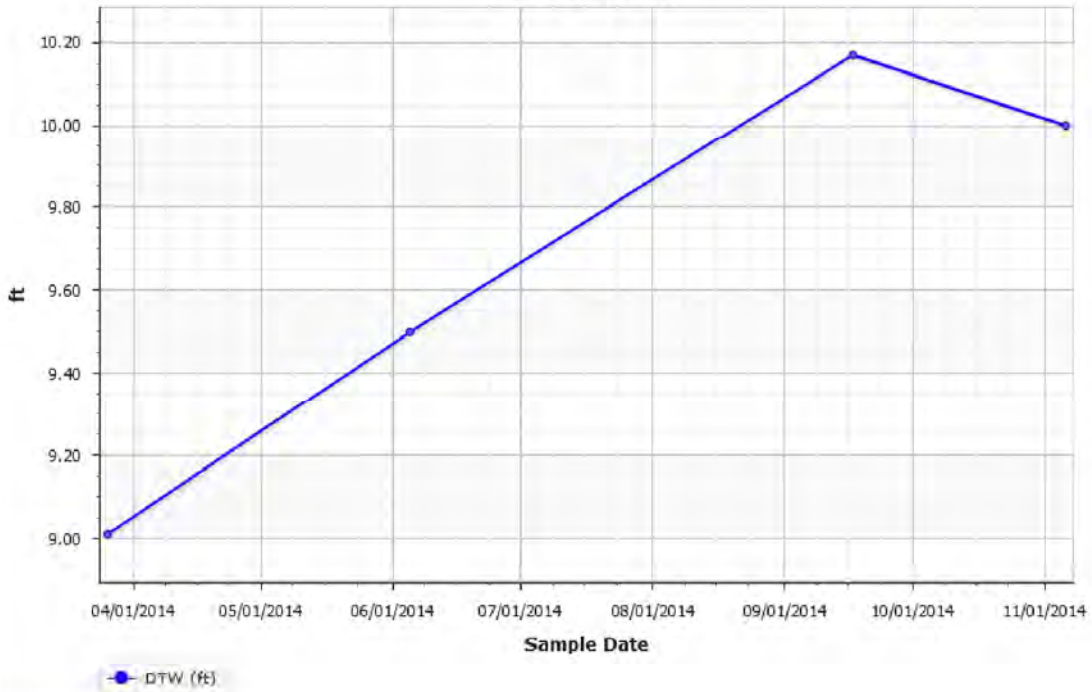
SWMW-67 (Overburden)

Site: Beacon, NY



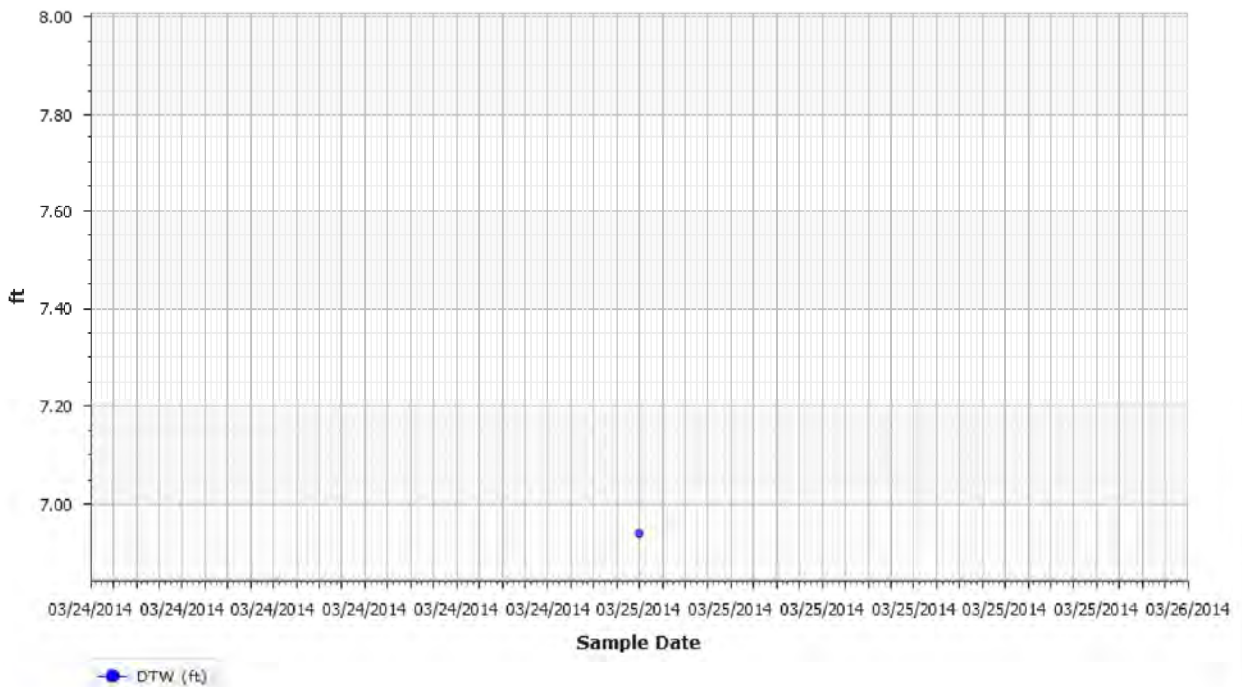
SWMW-113 (Overburden)

Site: Beacon, NY



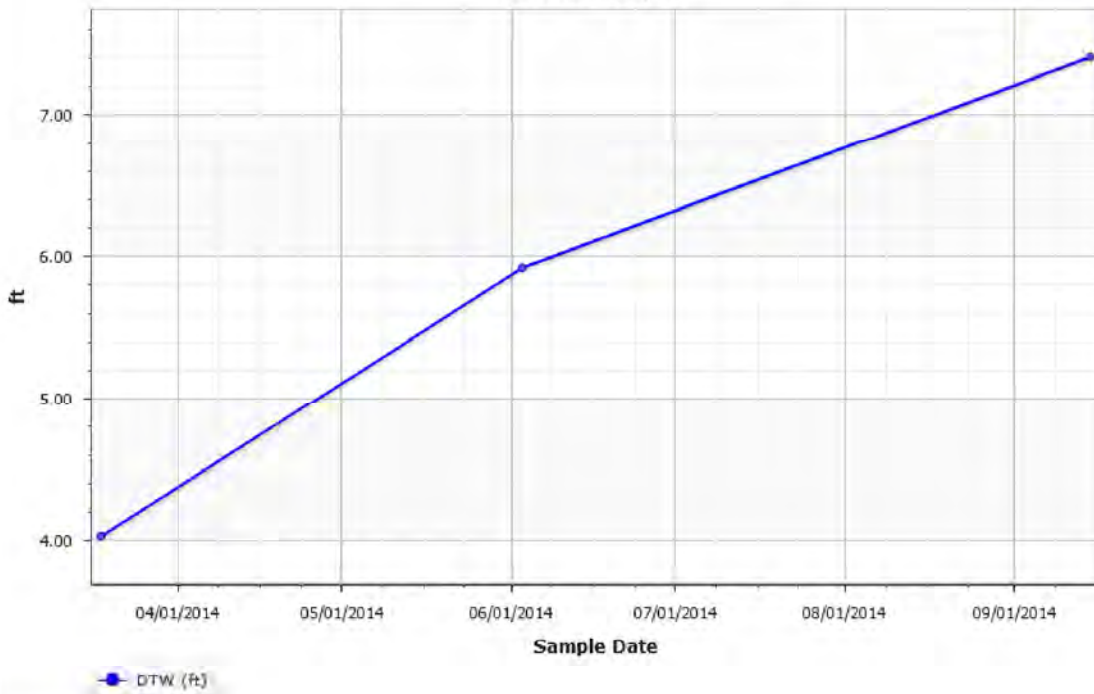
SWMW-71 (Overburden)

Site: Beacon, NY



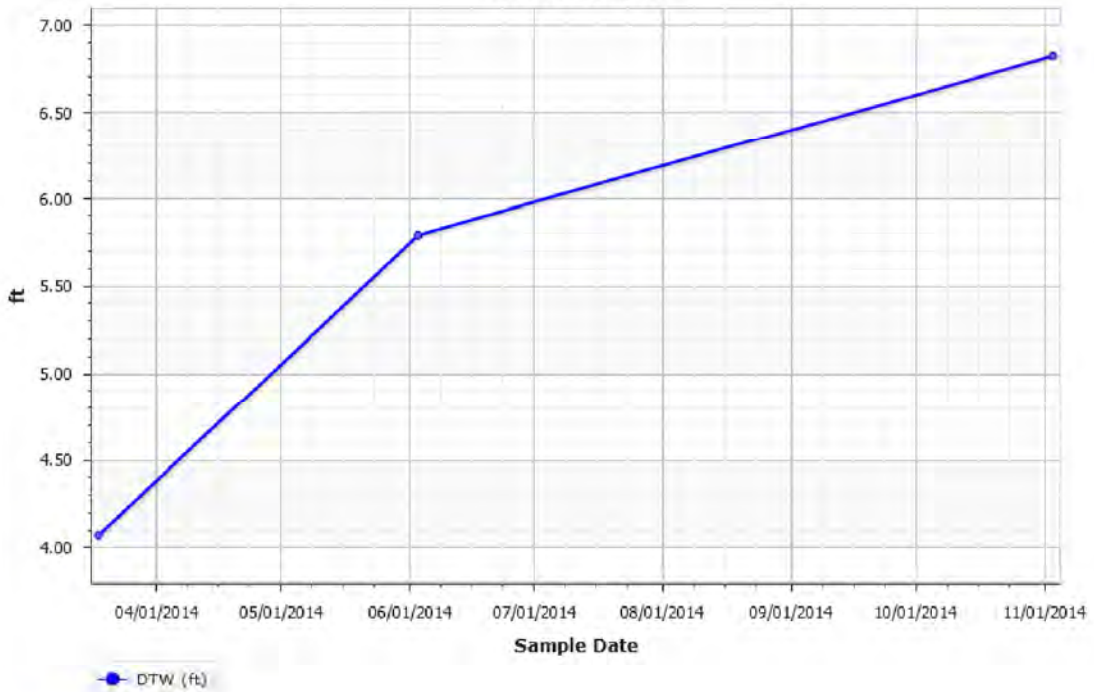
Unknown Well 1 (Overburden)

Site: Beacon, NY



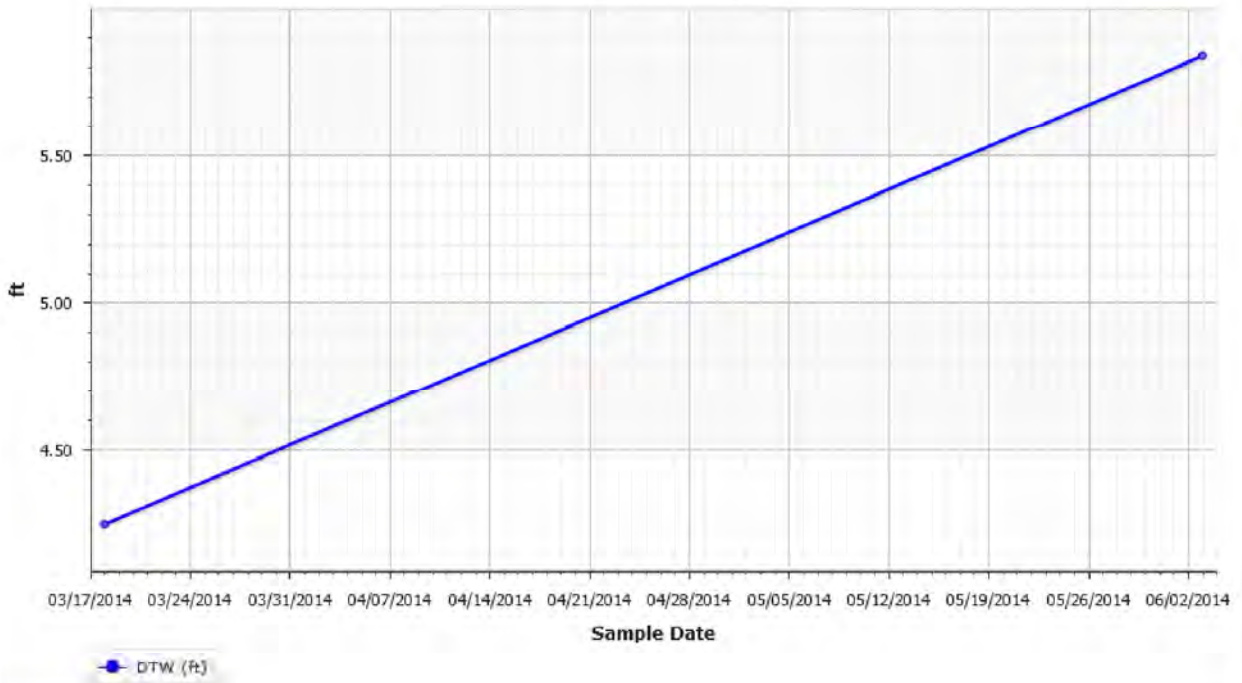
Unknown Well 2 (Overburden)

Site: Beacon, NY



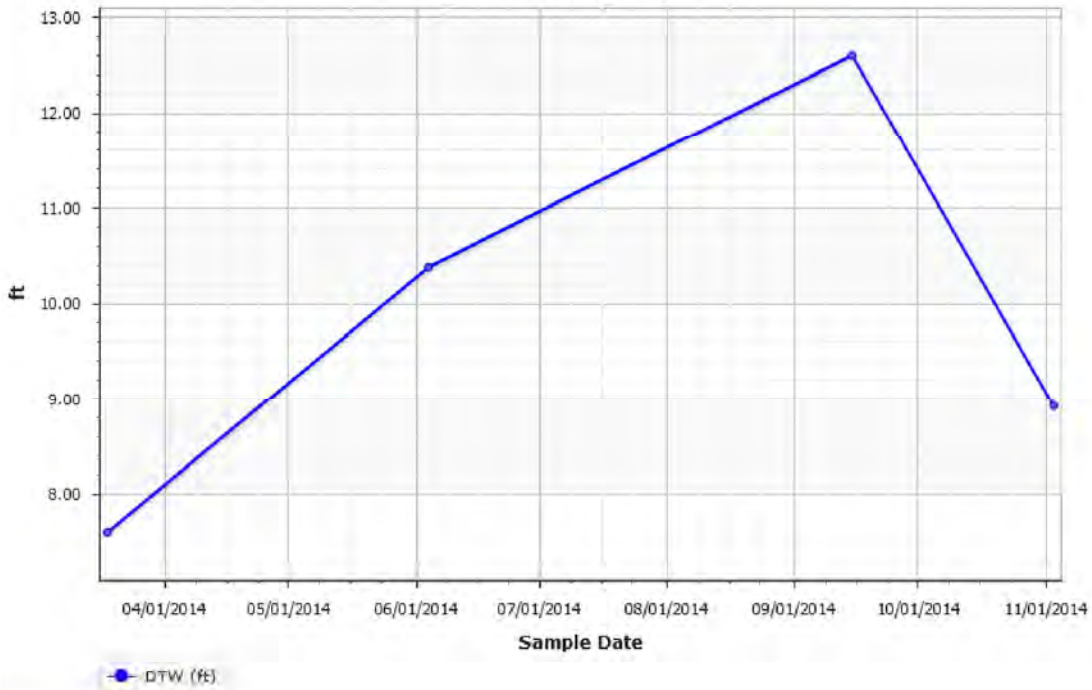
Unknown Well 3 (Overburden)

Site: Beacon, NY



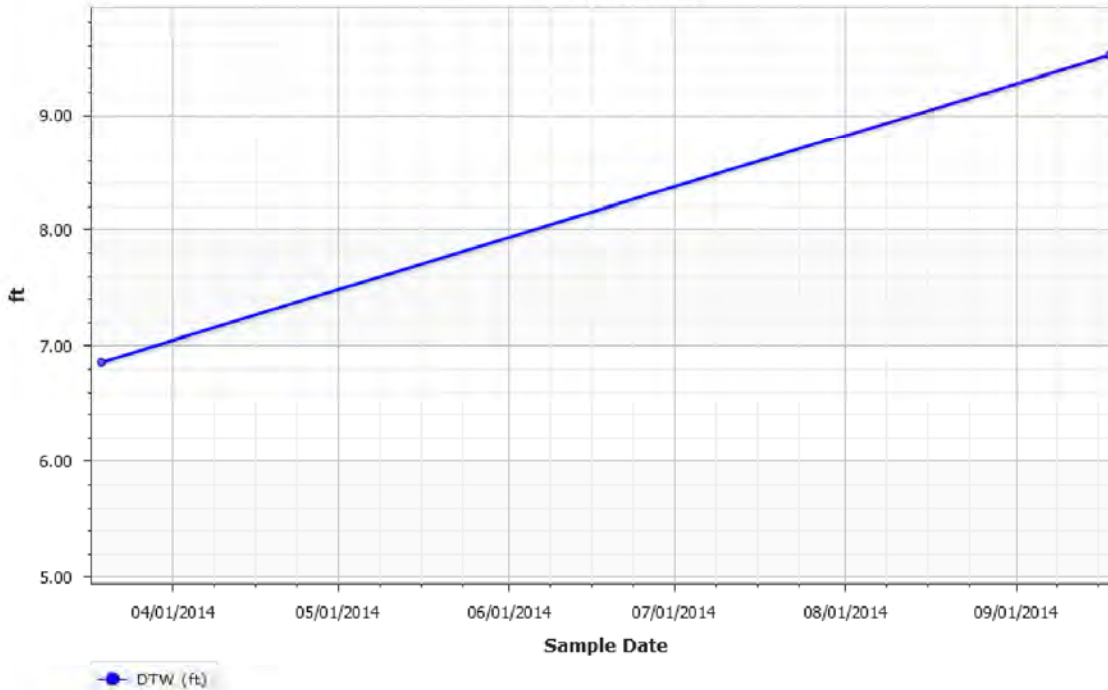
ITMW-13 (Bedrock)

Site: Beacon, NY



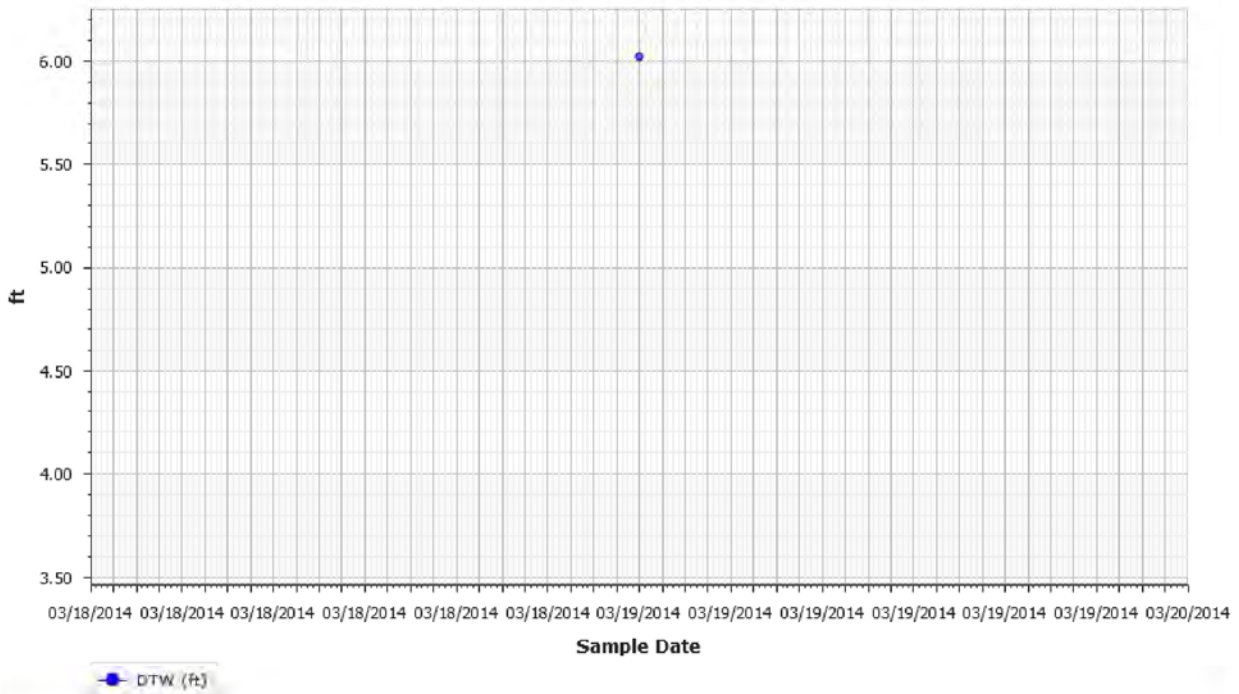
ITMW-30 (Bedrock)

Site: Beacon, NY



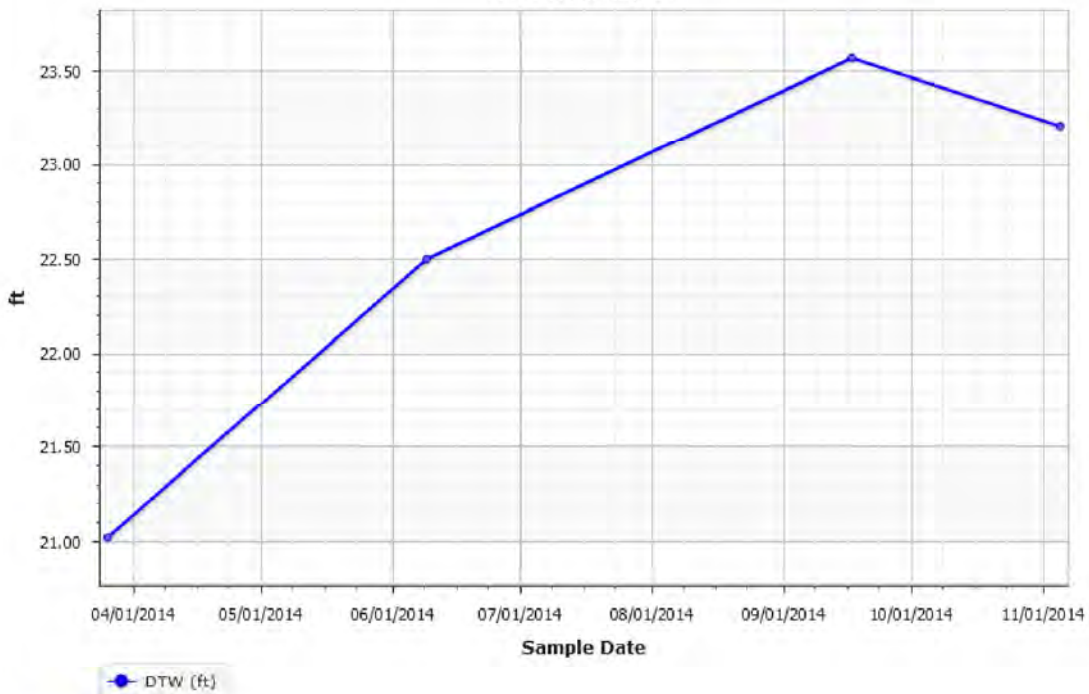
ITMW-31 (Bedrock)

Site: Beacon, NY



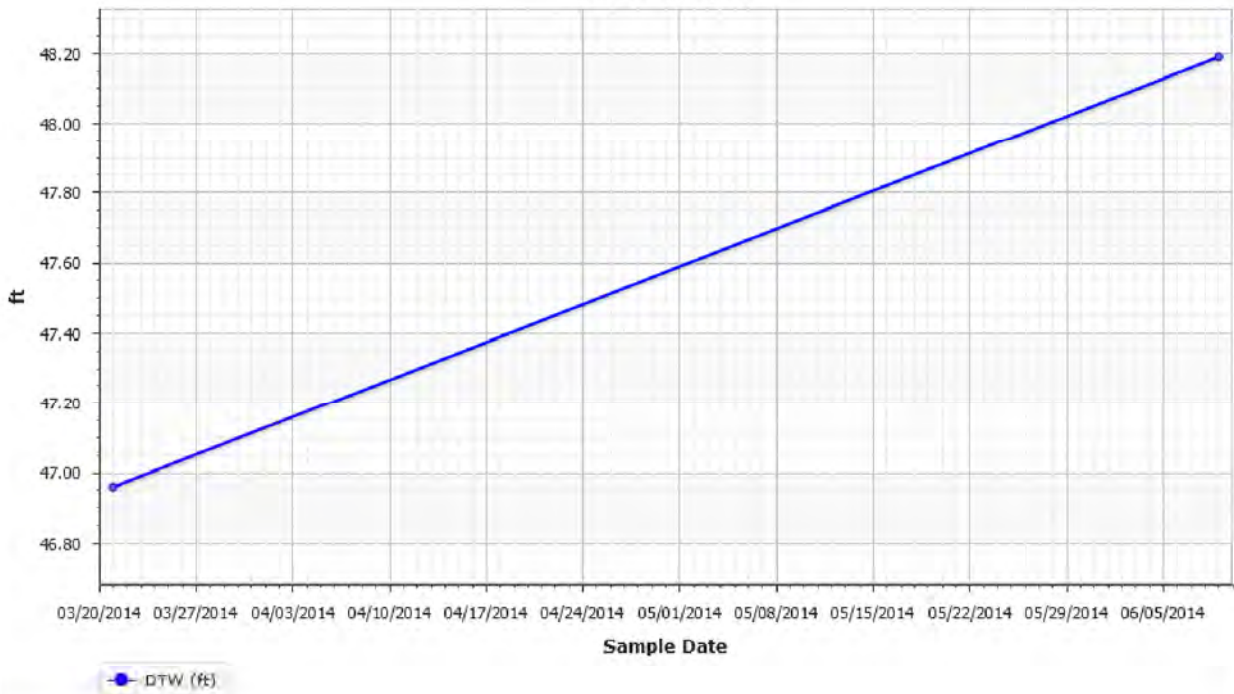
ITMW-6 (Bedrock)

Site: Beacon, NY



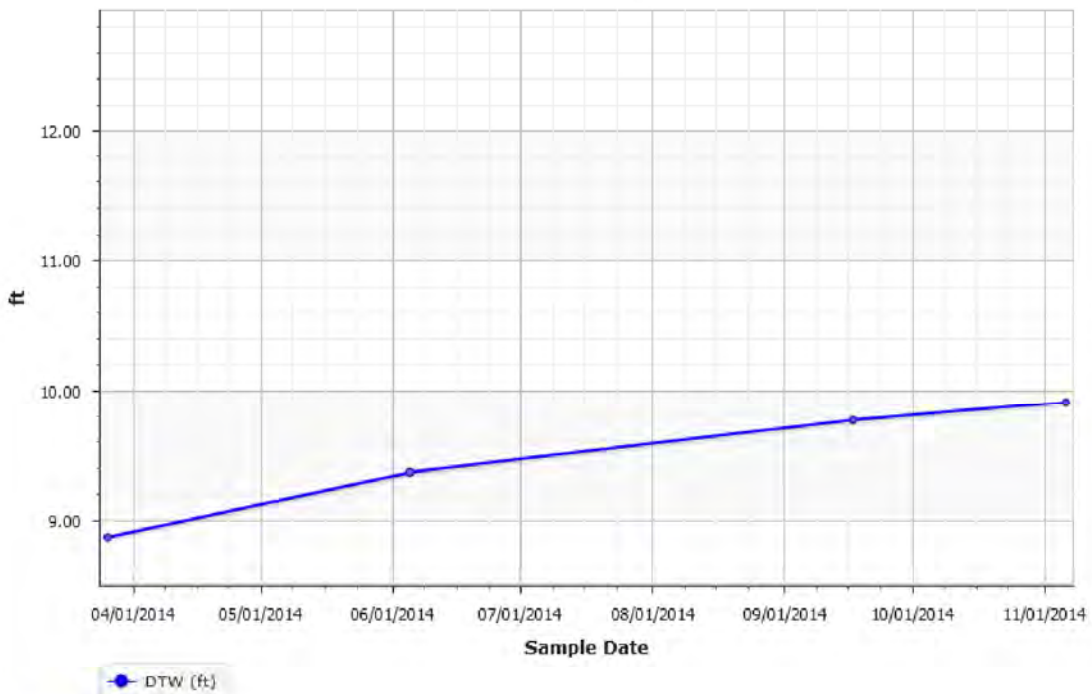
SWMW-13 (Bedrock)

Site: Beacon, NY



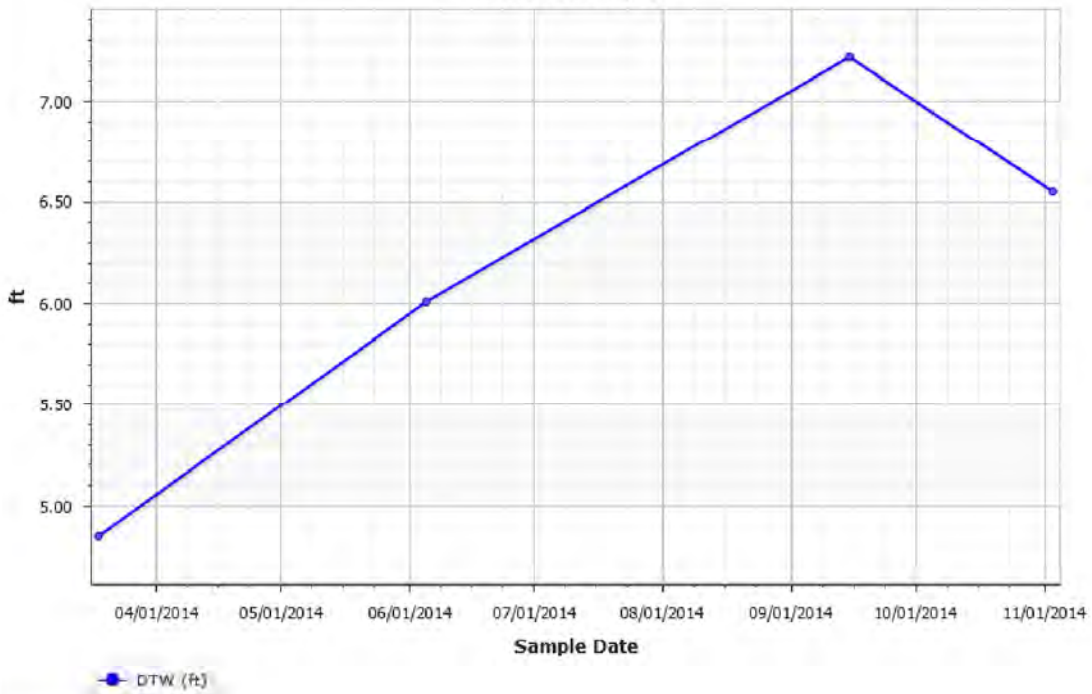
SWMW-14 (Bedrock)

Site: Beacon, NY



SWMW-2 (Bedrock)

Site: Beacon, NY



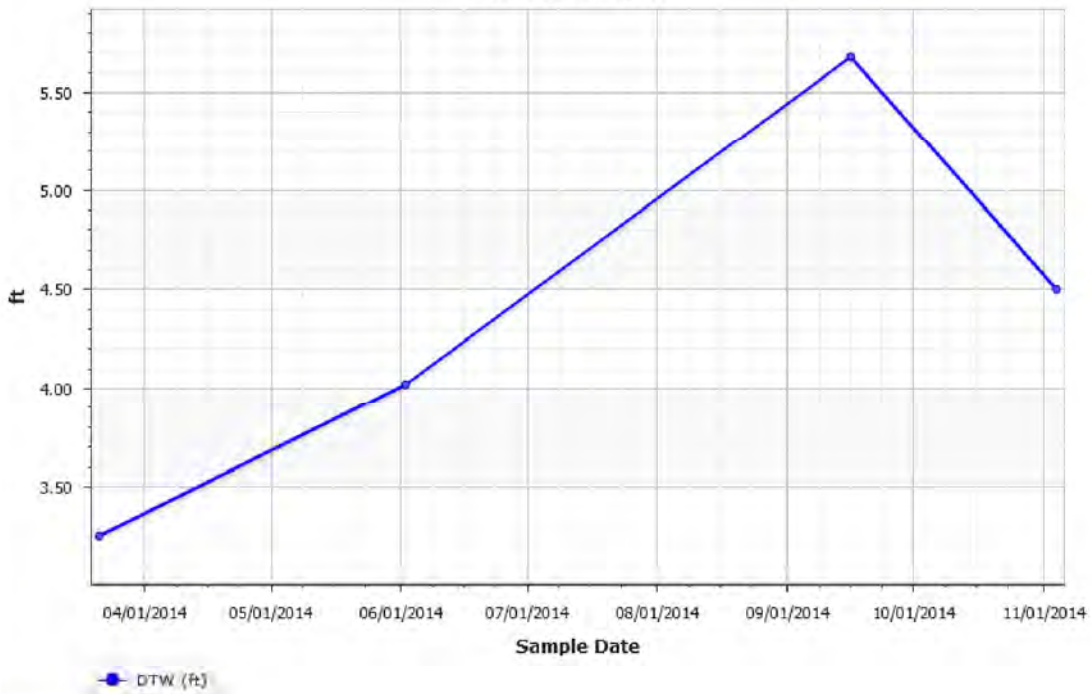
SWMW-41 (Bedrock)

Site: Beacon, NY



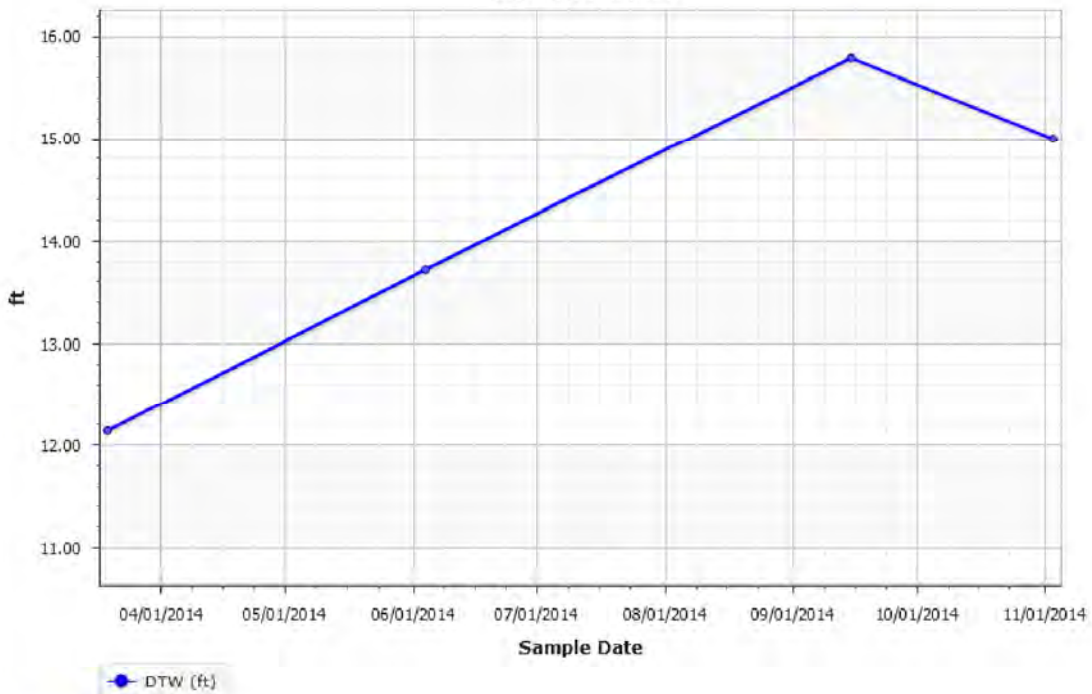
SWMW-44 (Bedrock)

Site: Beacon, NY



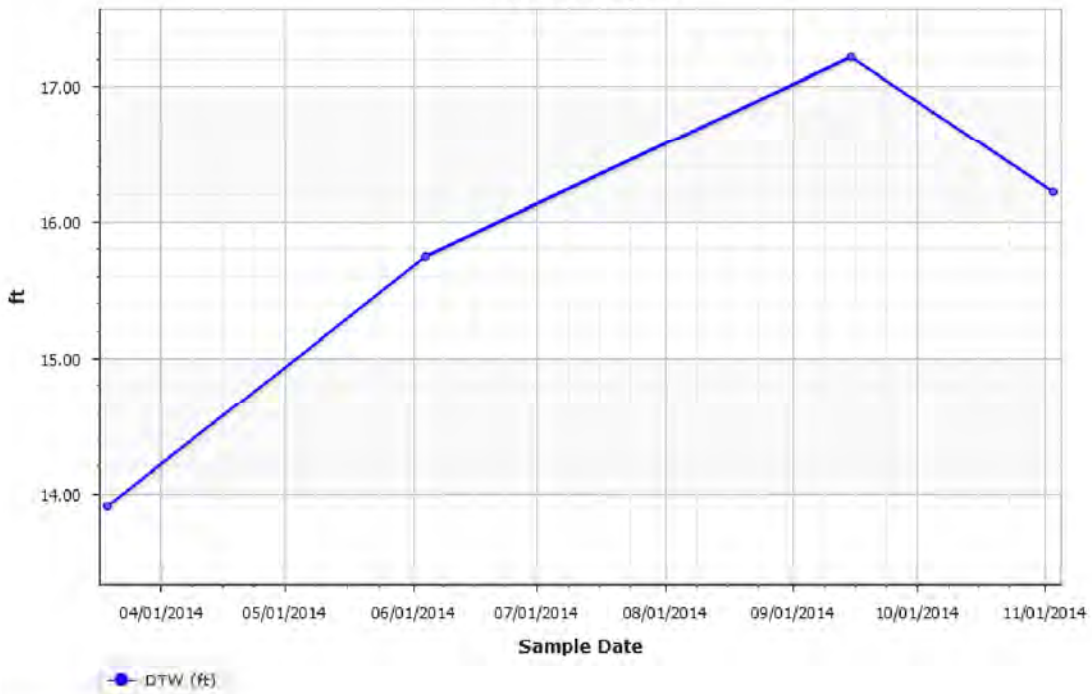
SWMW-45 (Bedrock)

Site: Beacon, NY



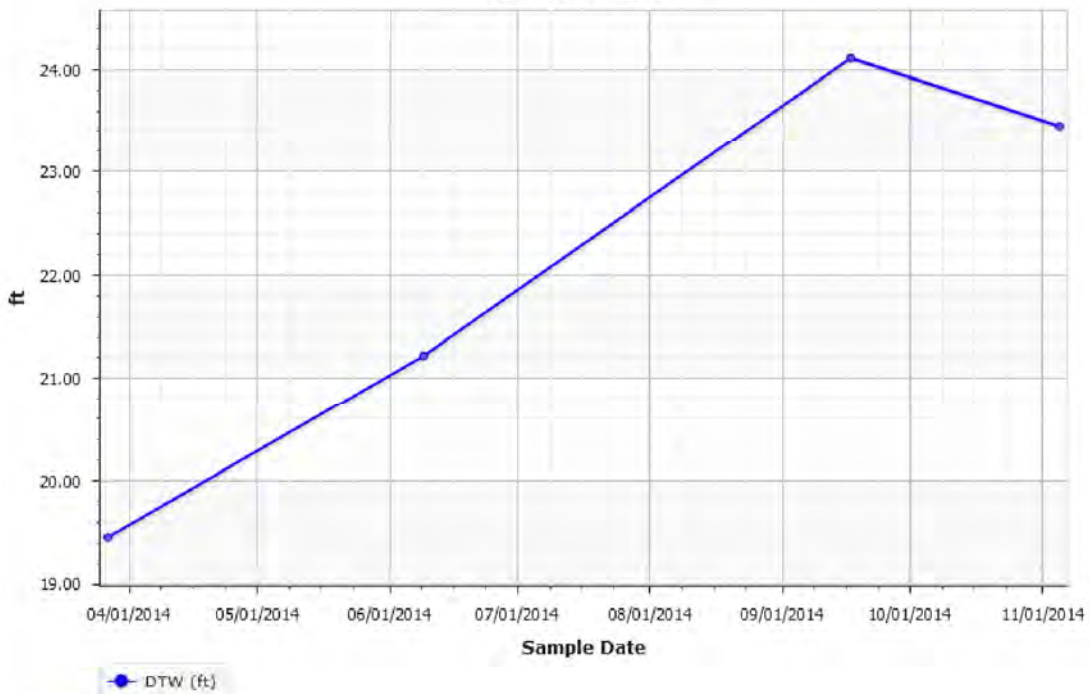
SWMW-55 (Bedrock)

Site: Beacon, NY



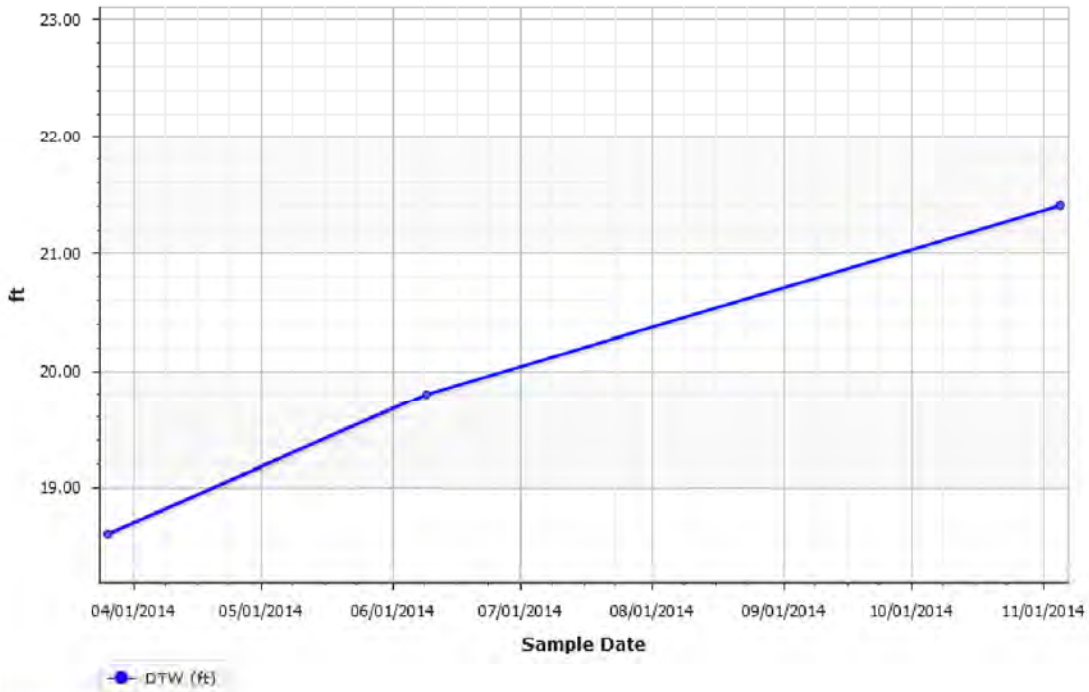
SWMW-56 (Bedrock)

Site: Beacon, NY



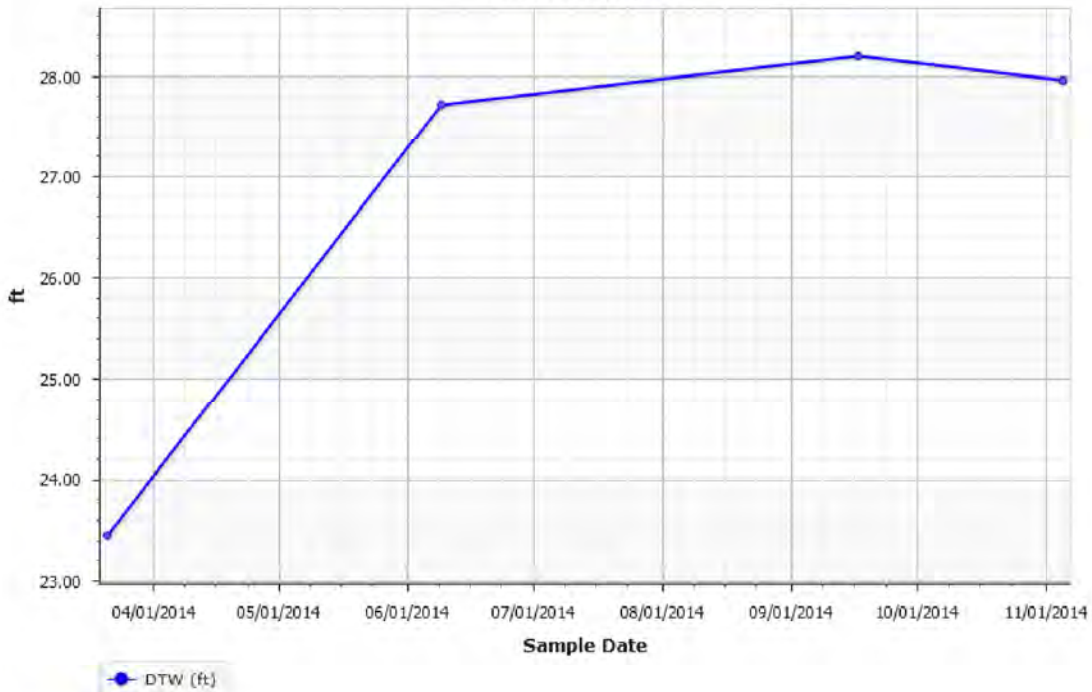
SWMW-66 (Bedrock)

Site: Beacon, NY



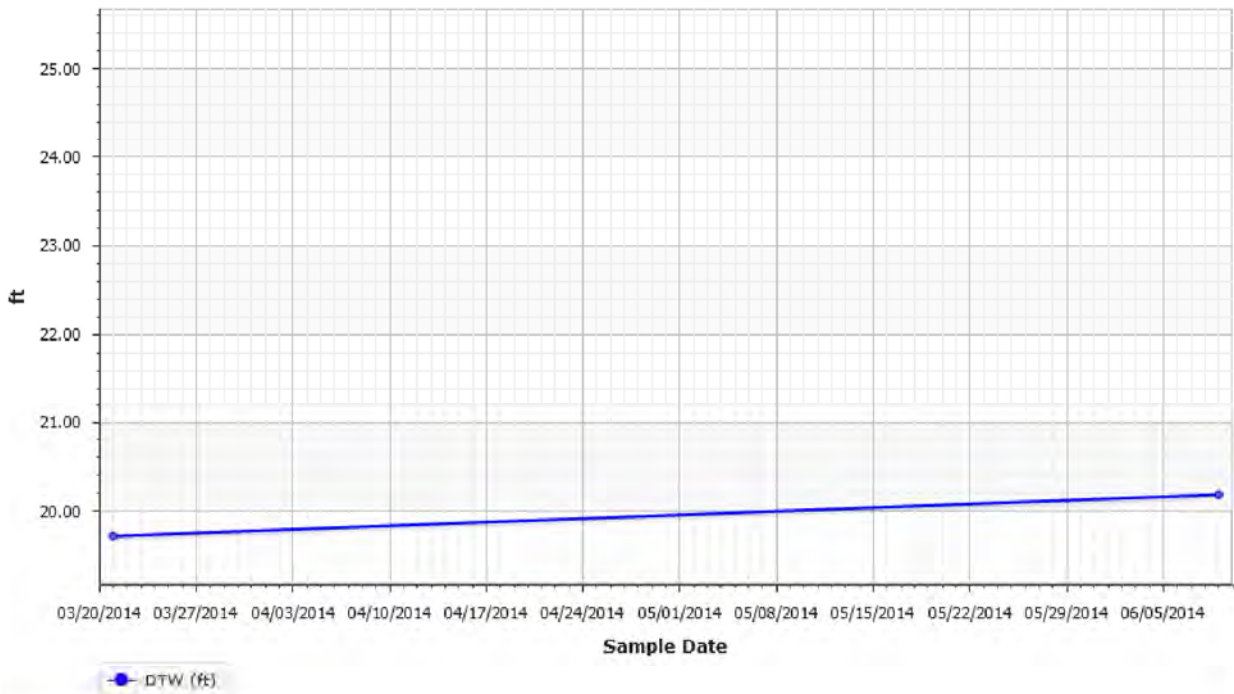
SWMW-68 (Bedrock)

Site: Beacon, NY



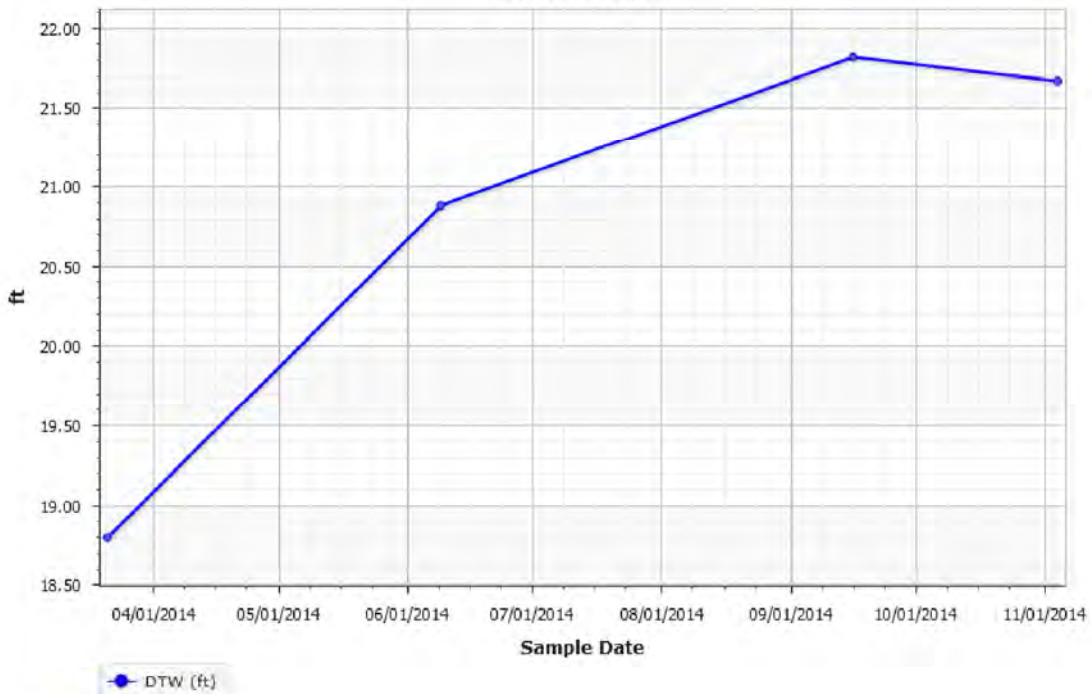
SWMW-103 (Bedrock)

Site: Beacon, NY



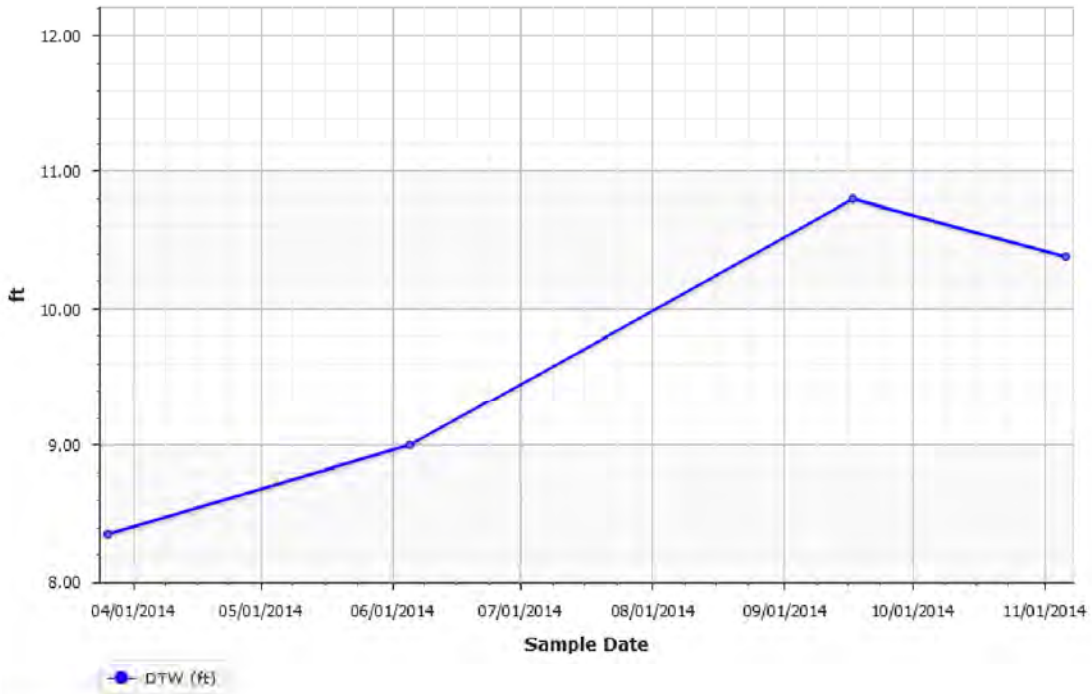
SWMW-111 (Bedrock)

Site: Beacon, NY



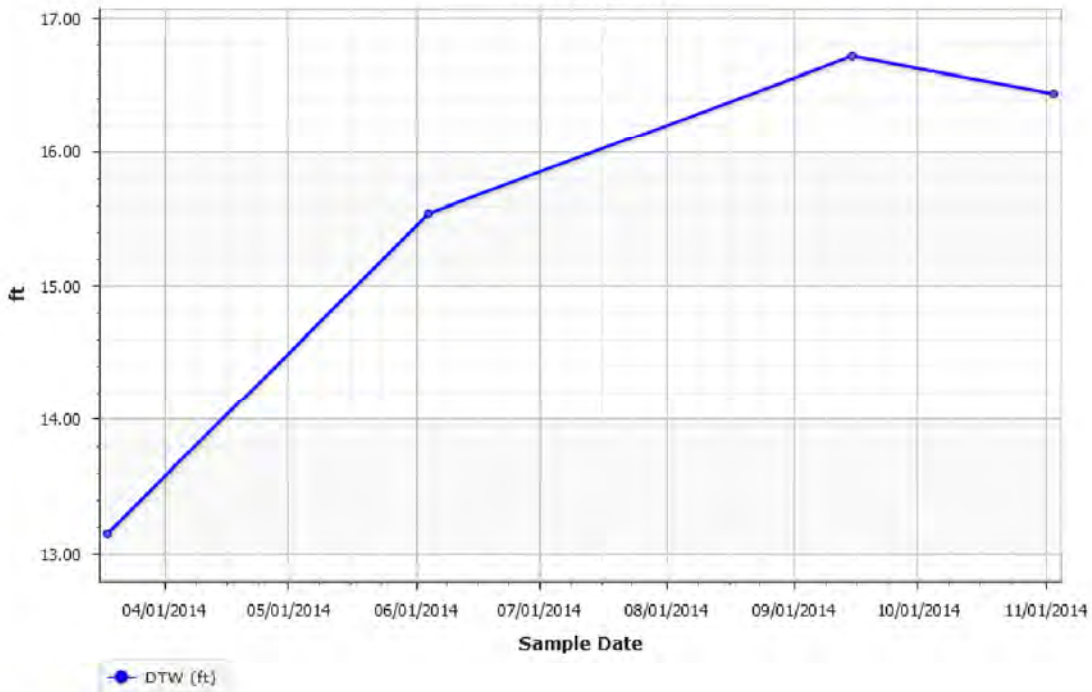
SWMW-112 (Bedrock)

Site: Beacon, NY



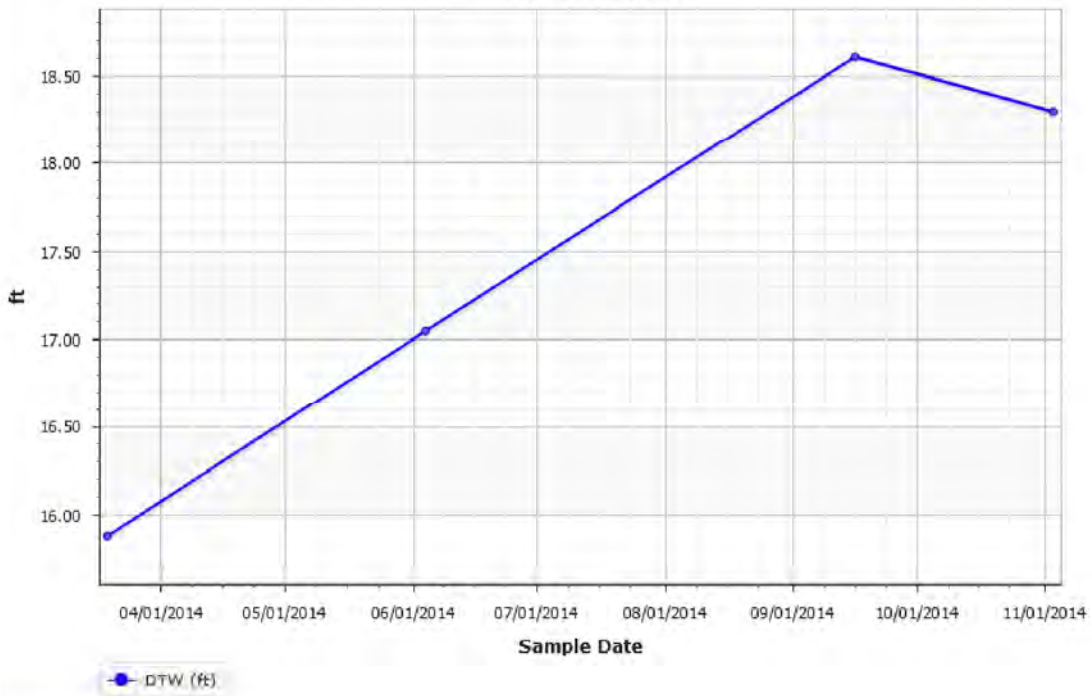
SWMW-114 (Bedrock)

Site: Beacon, NY



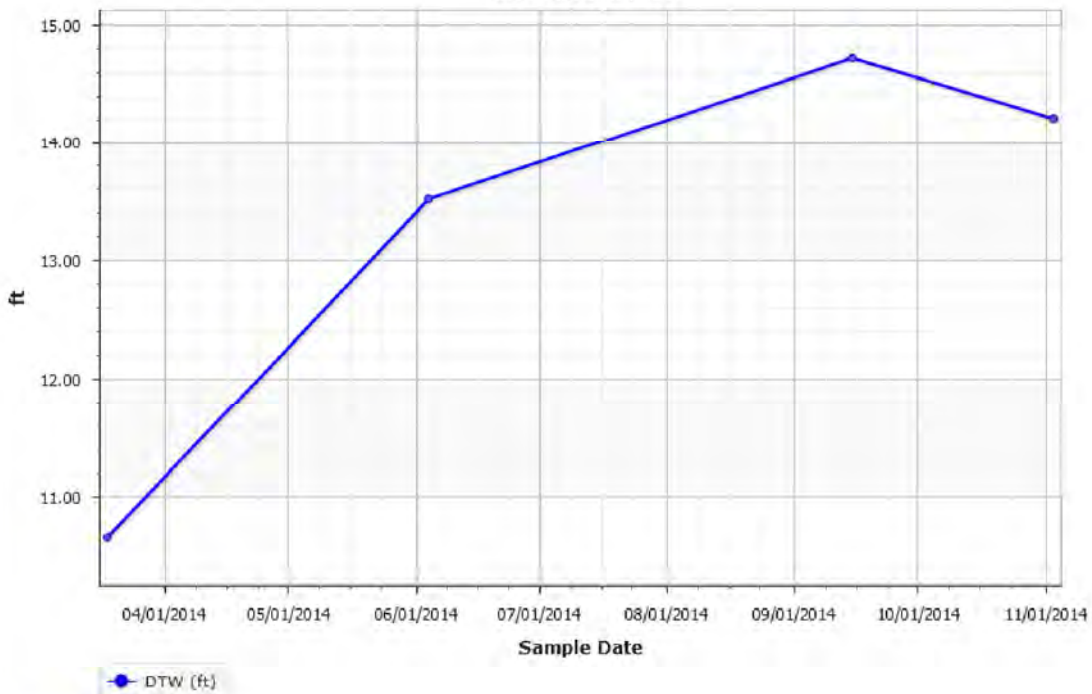
SWMW-123 (Bedrock)

Site: Beacon, NY



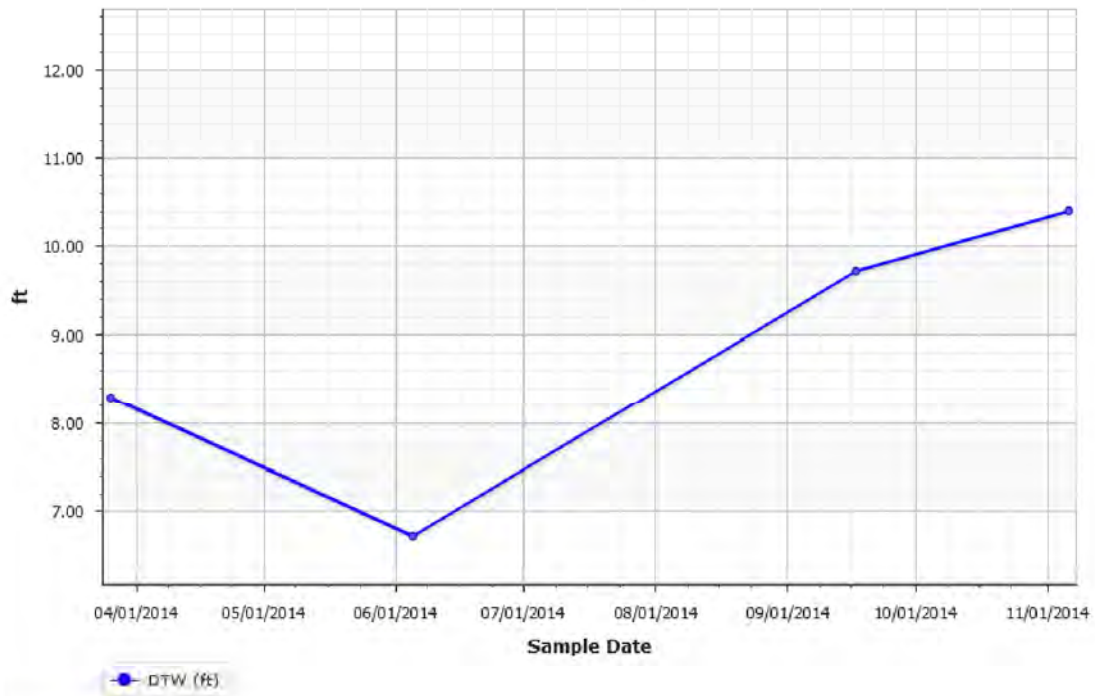
SWMW-125 (Bedrock)

Site: Beacon, NY



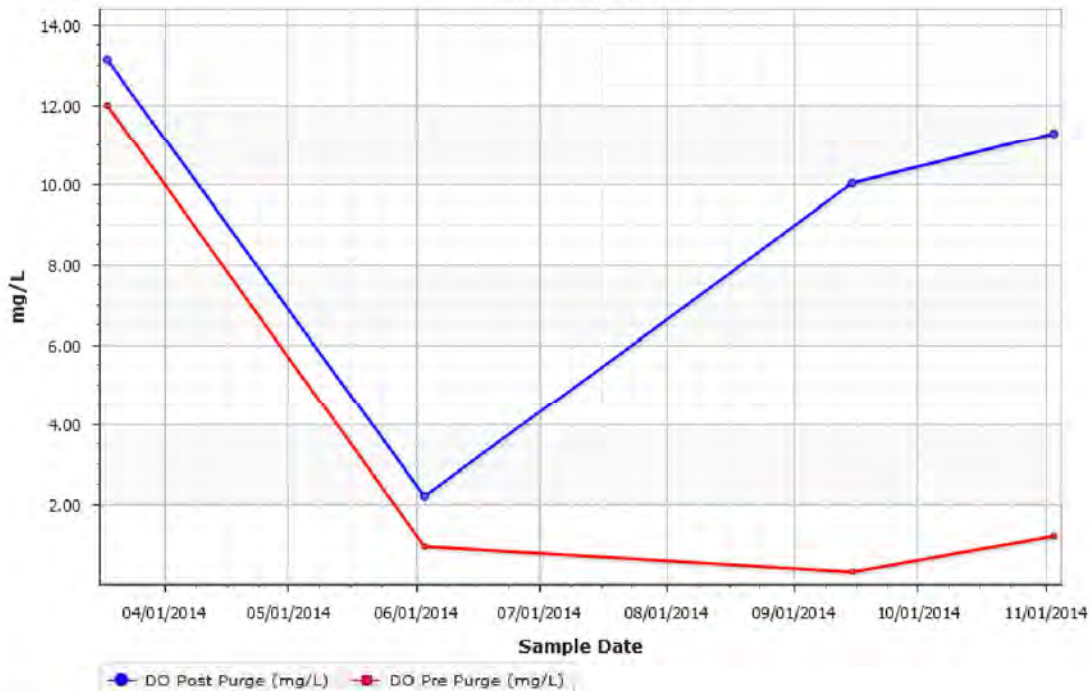
SWMW-126 (Bedrock)

Site: Beacon, NY



GT-2 (Overburden)

Site: Beacon, NY



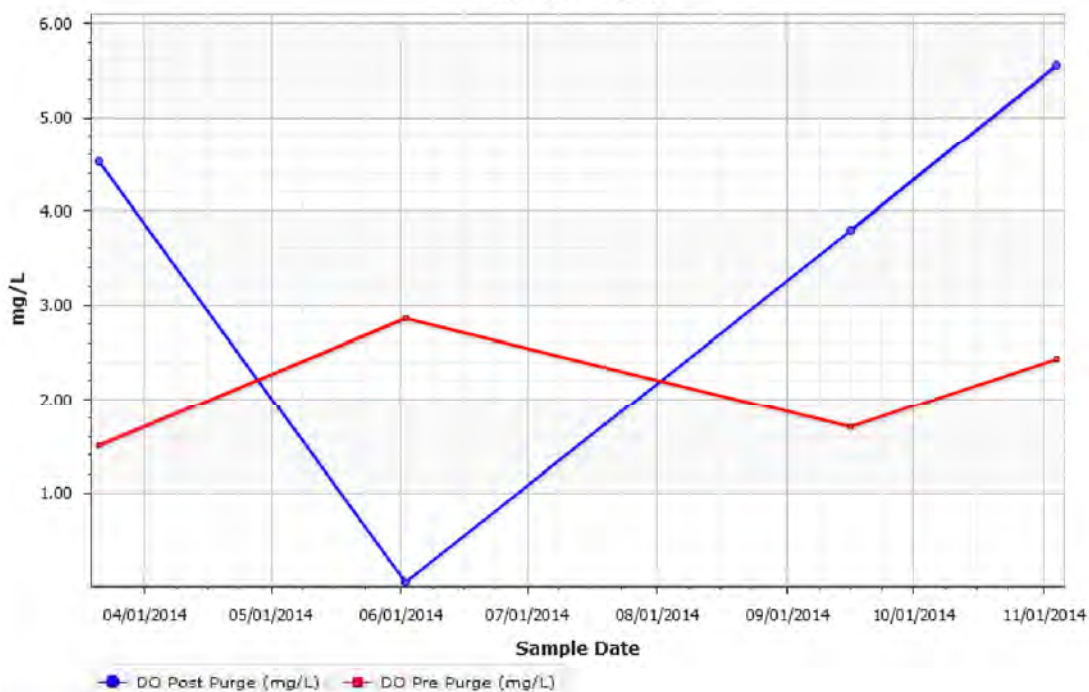
ITMW-24 (Overburden)

Site: Beacon, NY



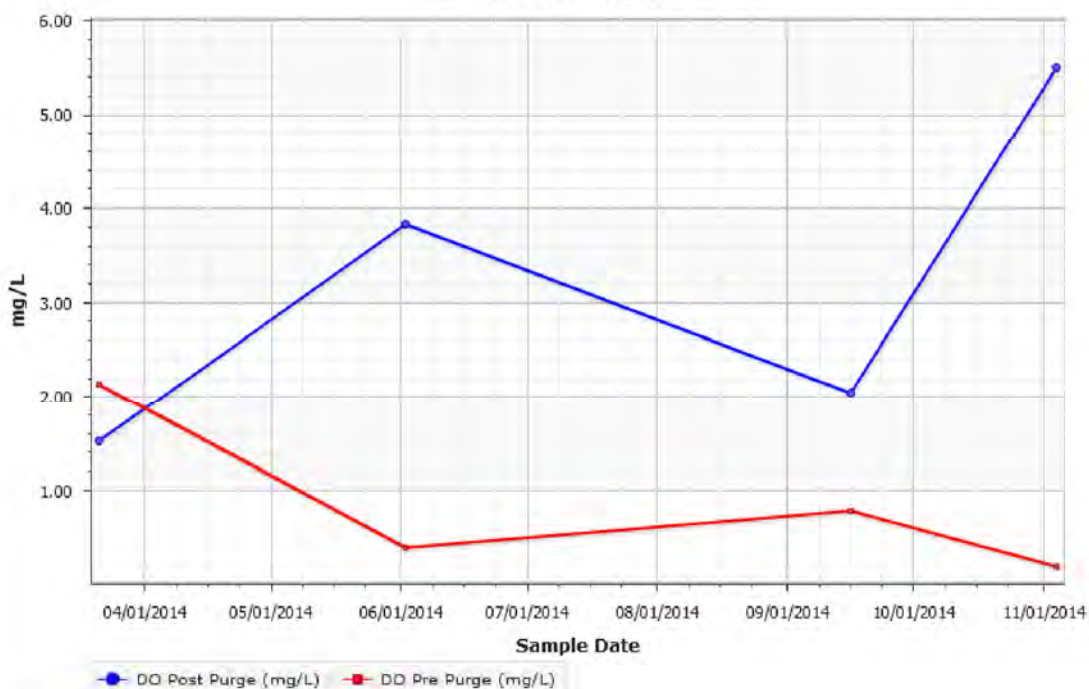
ITMW-25 (Overburden)

Site: Beacon, NY



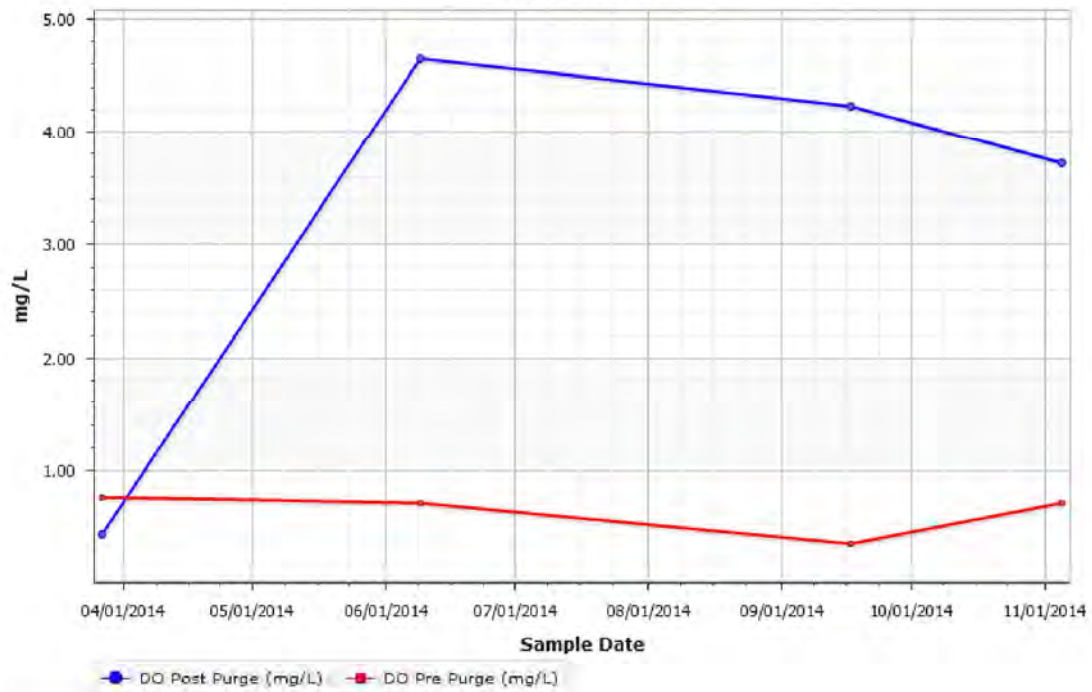
SWMW-10 (Overburden)

Site: Beacon, NY



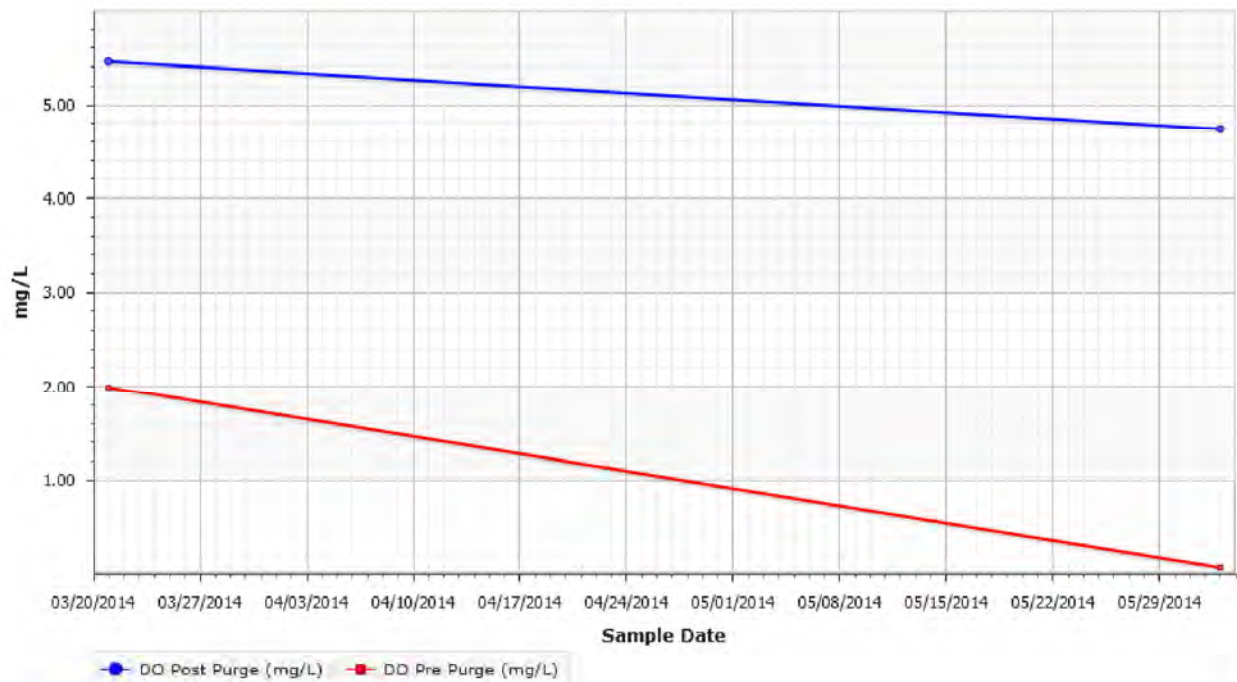
SWMW-15 (Overburden)

Site: Beacon, NY



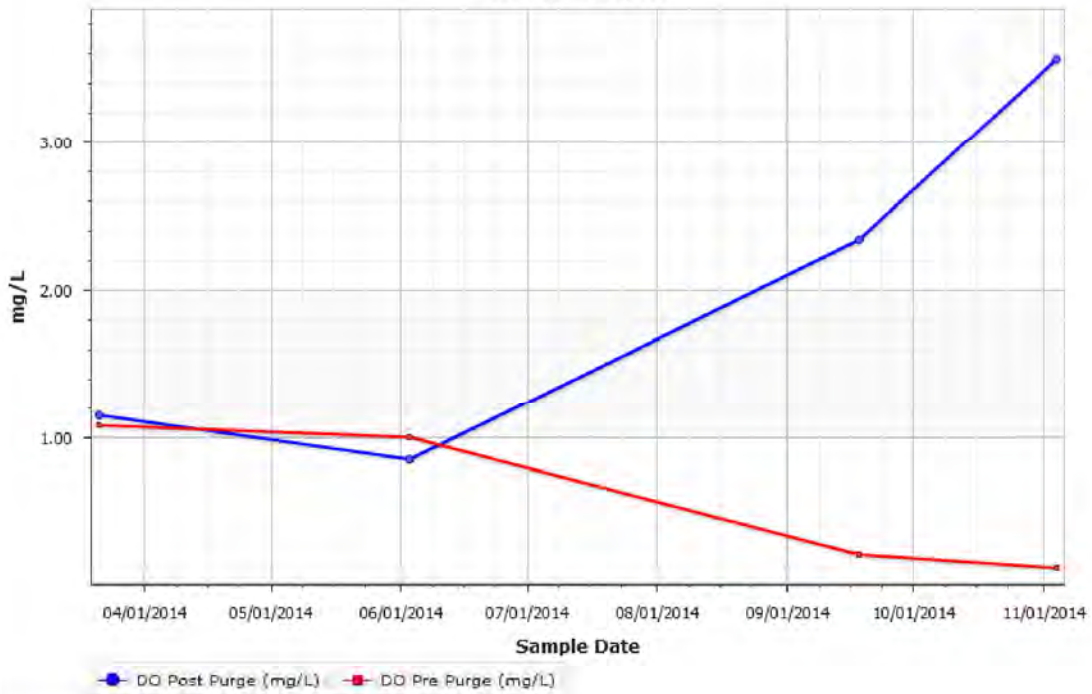
SWMW-25 (Overburden)

Site: Beacon, NY



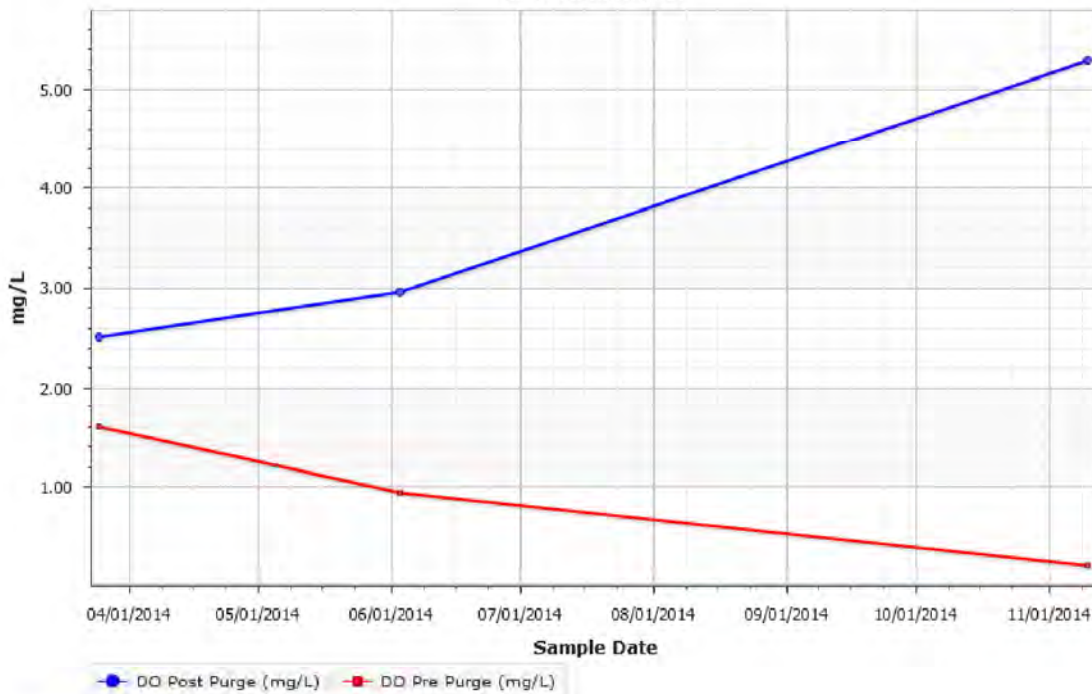
SWMW-28 (Overburden)

Site: Beacon, NY



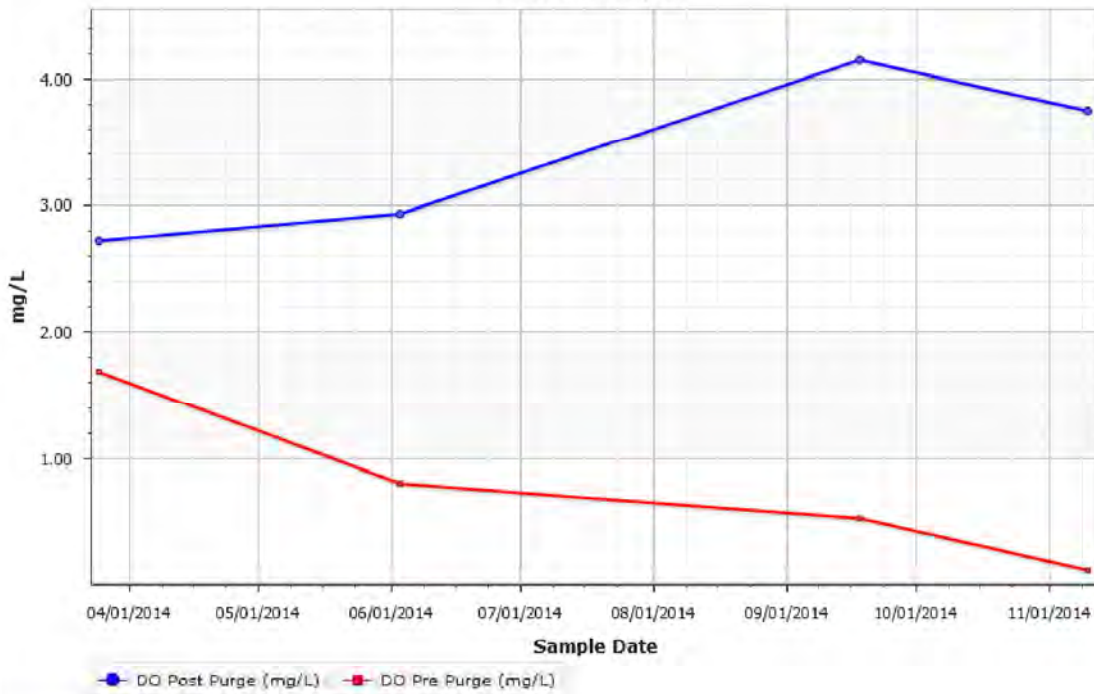
SWMW-30 (Overburden)

Site: Beacon, NY



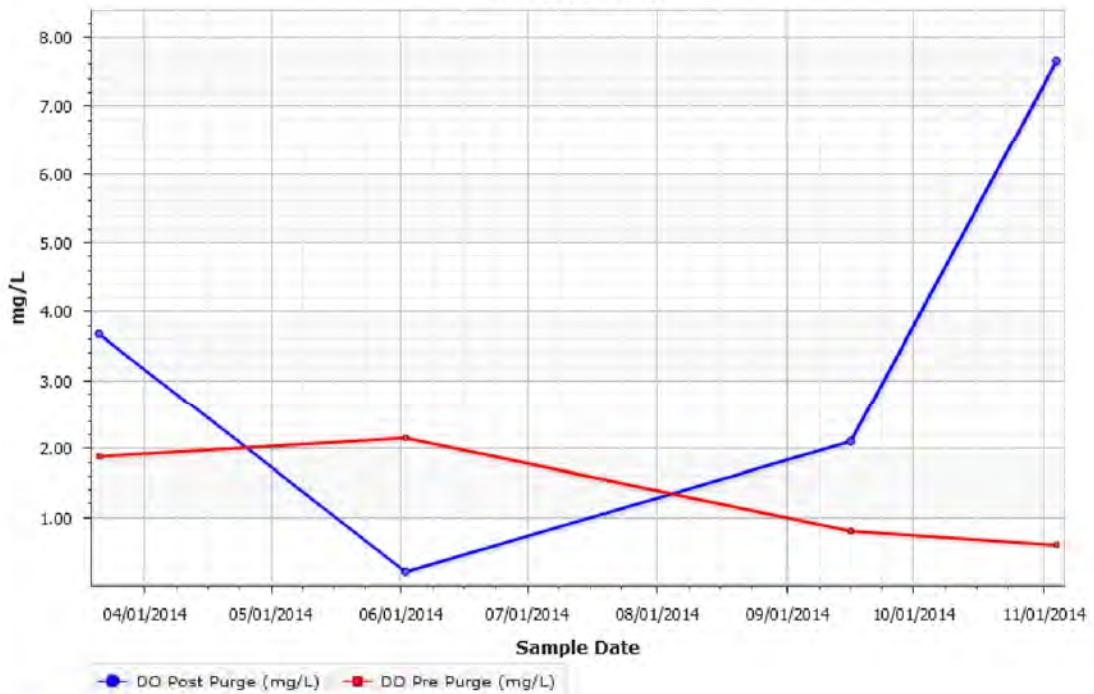
SWMW-31 (Overburden)

Site: Beacon, NY



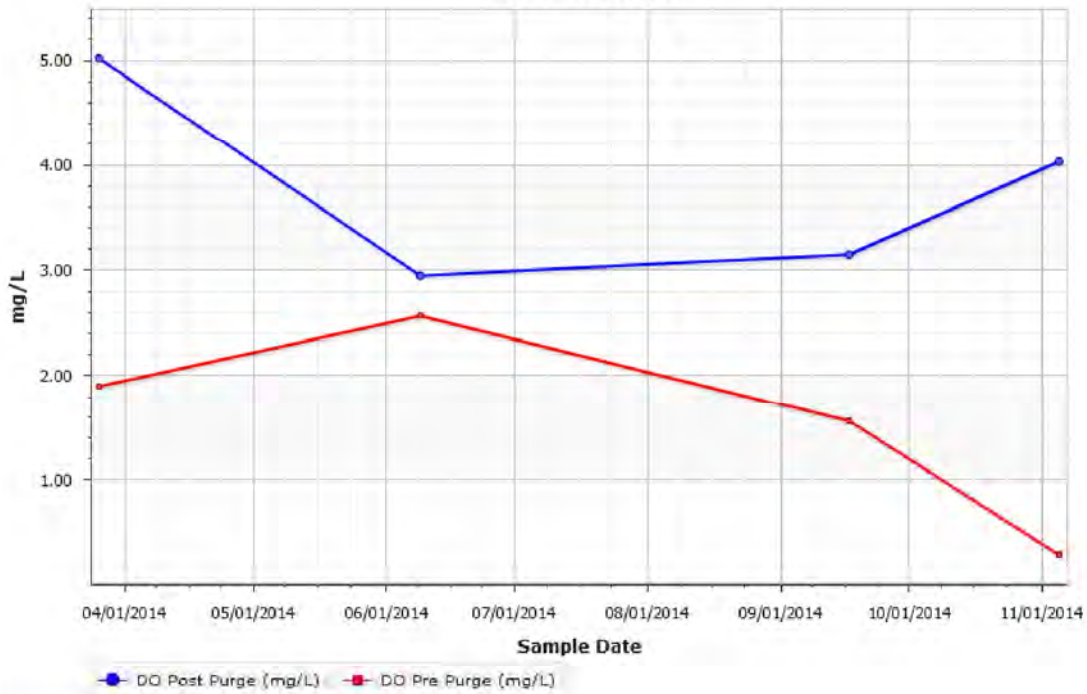
SWMW-48 (Overburden)

Site: Beacon, NY



SWMW-58 (Overburden)

Site: Beacon, NY



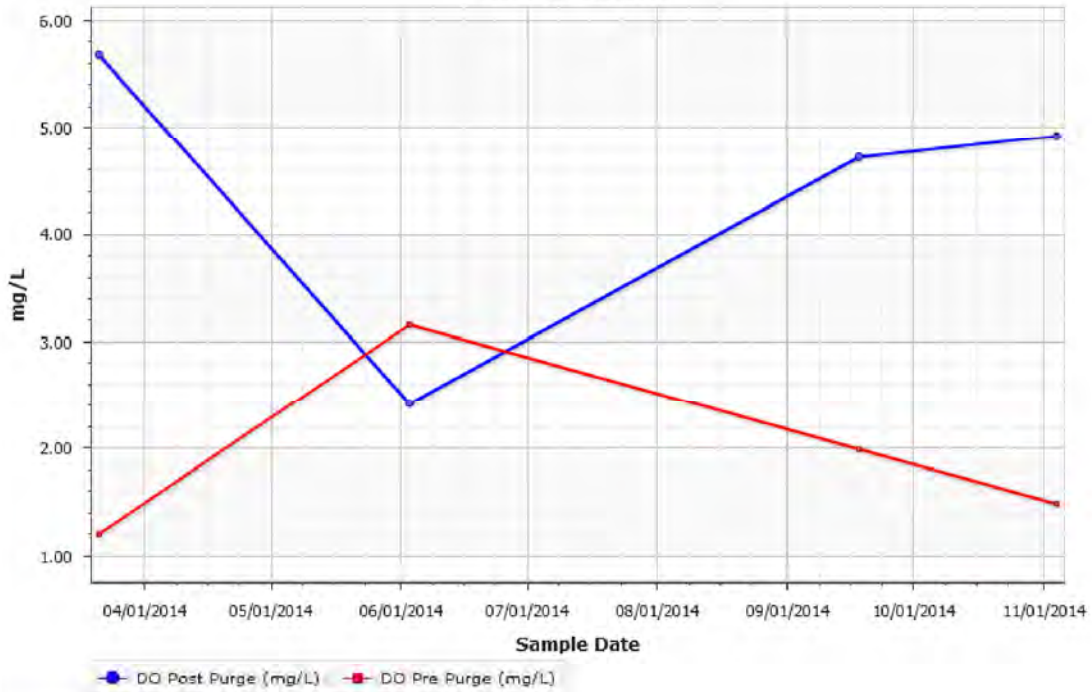
SWMW-62 (Overburden)

Site: Beacon, NY



SWMW-65 (Overburden)

Site: Beacon, NY



SWMW-67 (Overburden)

Site: Beacon, NY



SWMW-113 (Overburden)

Site: Beacon, NY



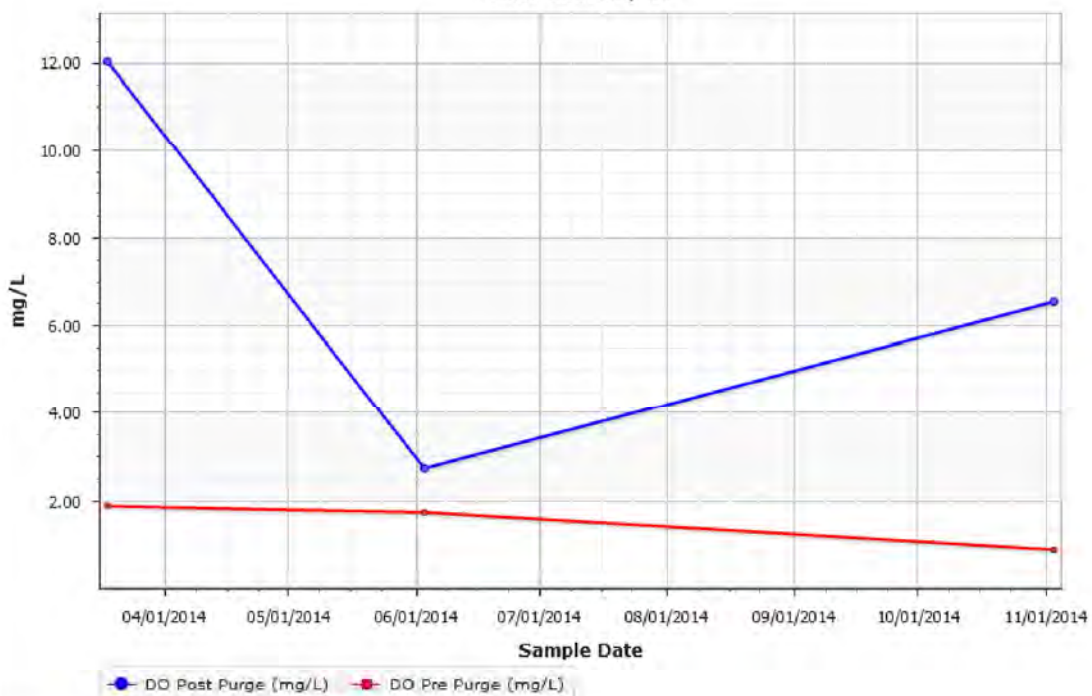
Unknown Well 1 (Overburden)

Site: Beacon, NY



Unknown Well 2 (Overburden)

Site: Beacon, NY



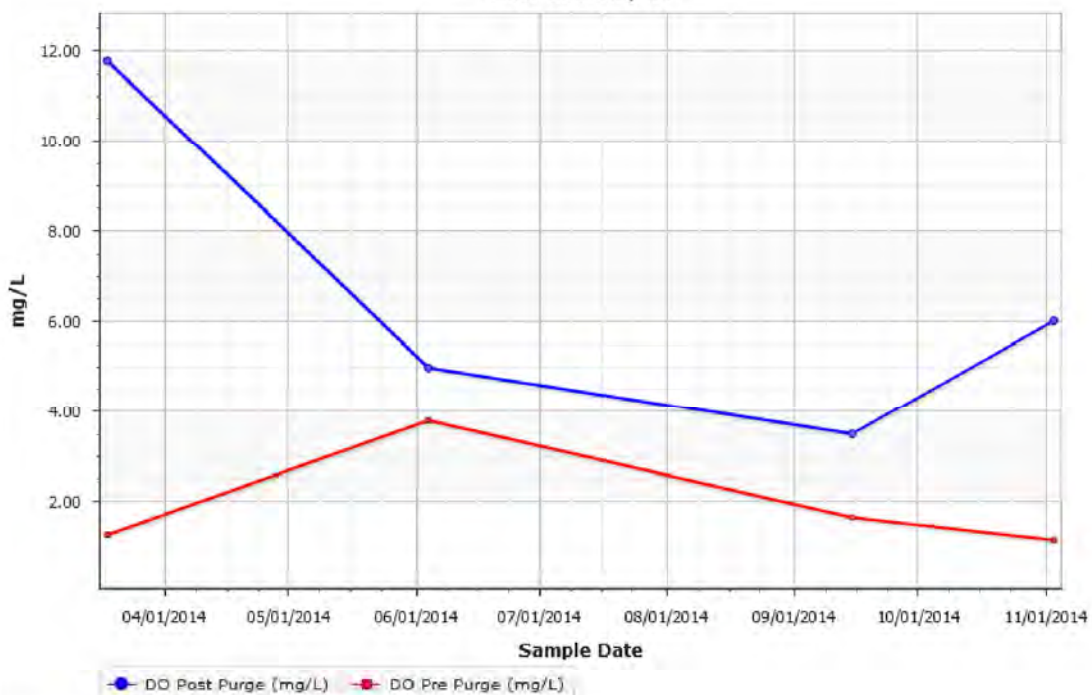
Unknown Well 3 (Overburden)

Site: Beacon, NY



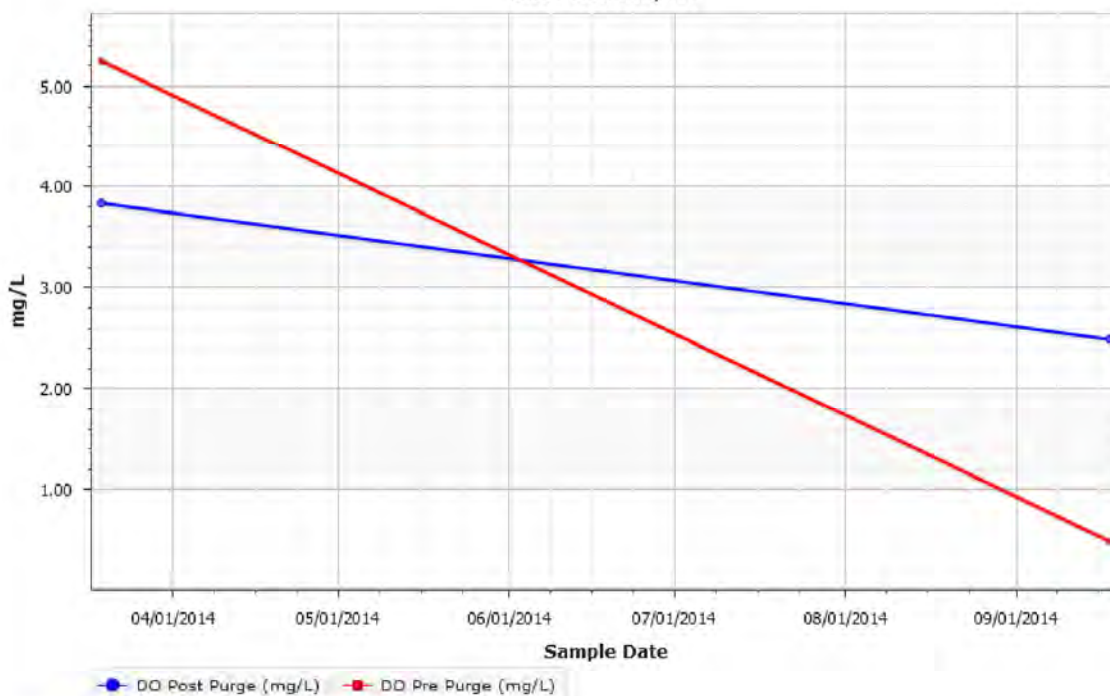
ITMW-13 (Bedrock)

Site: Beacon, NY



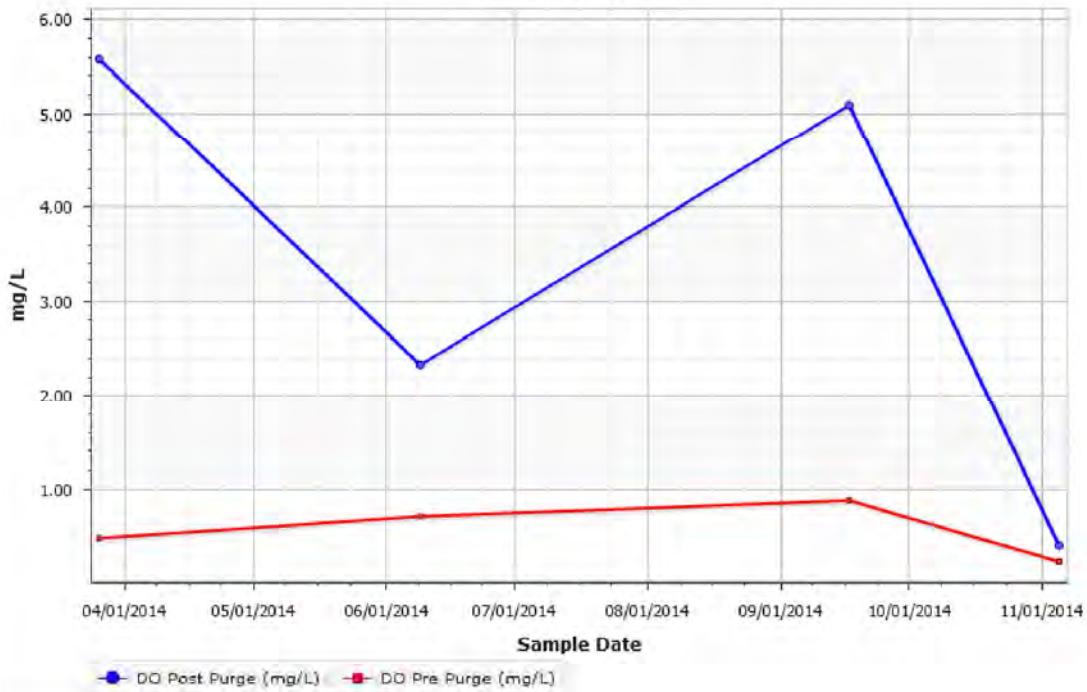
ITMW-30 (Bedrock)

Site: Beacon, NY



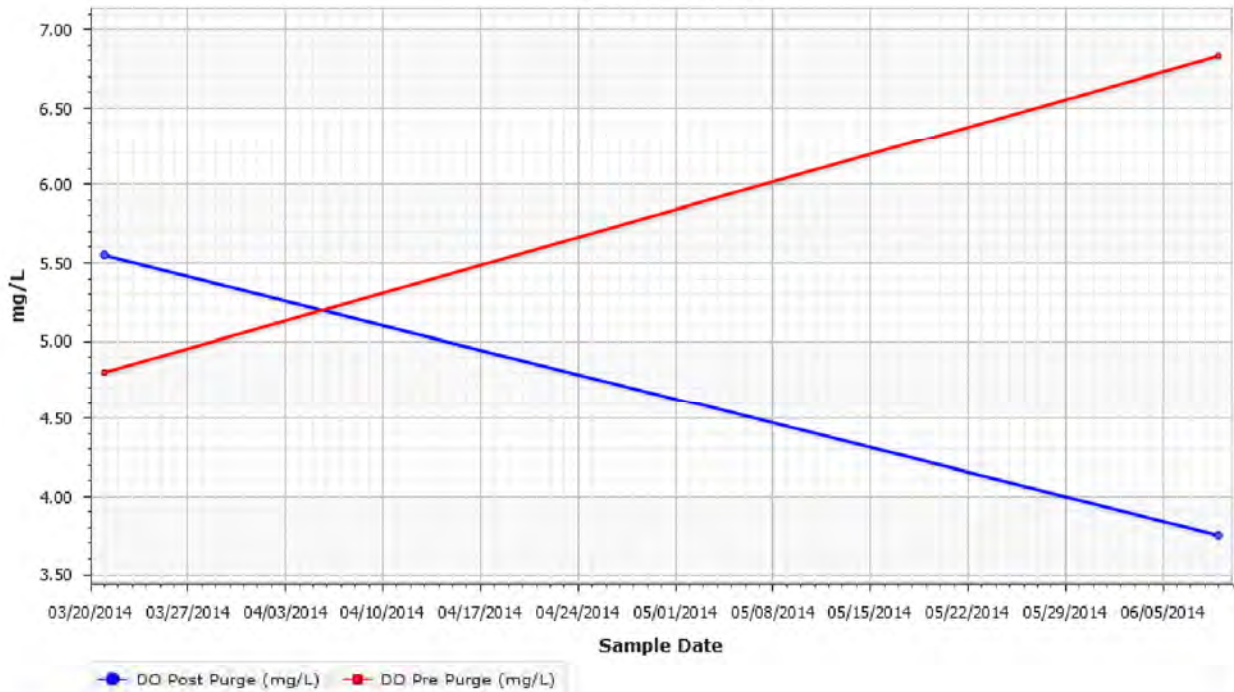
ITMW-6 (Bedrock)

Site: Beacon, NY



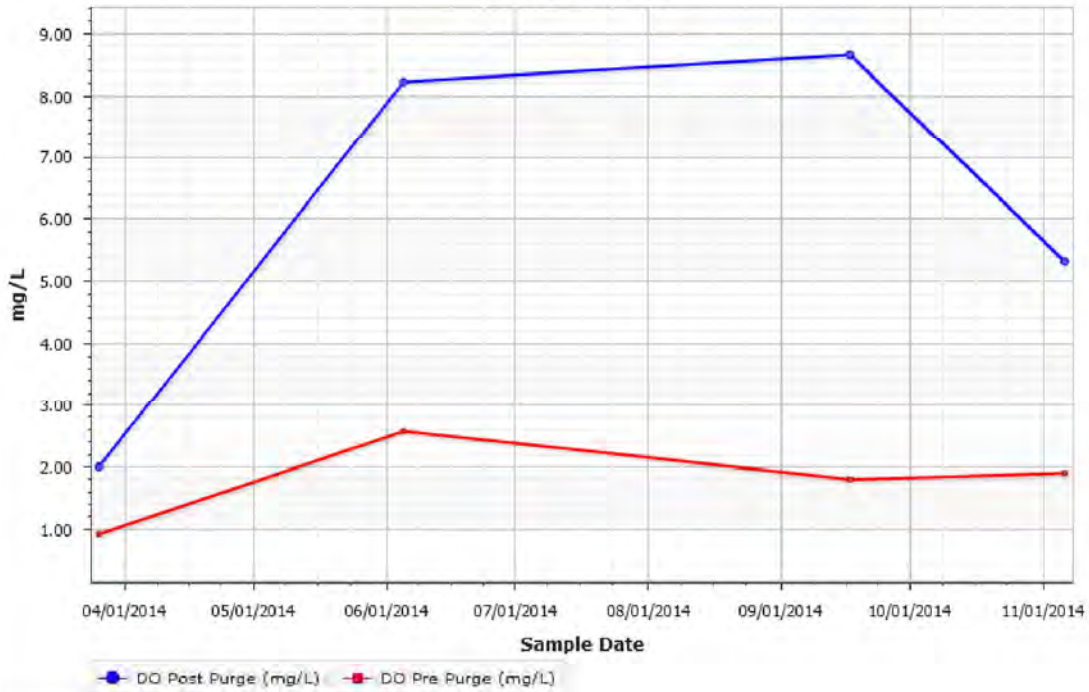
SWMW-13 (Bedrock)

Site: Beacon, NY



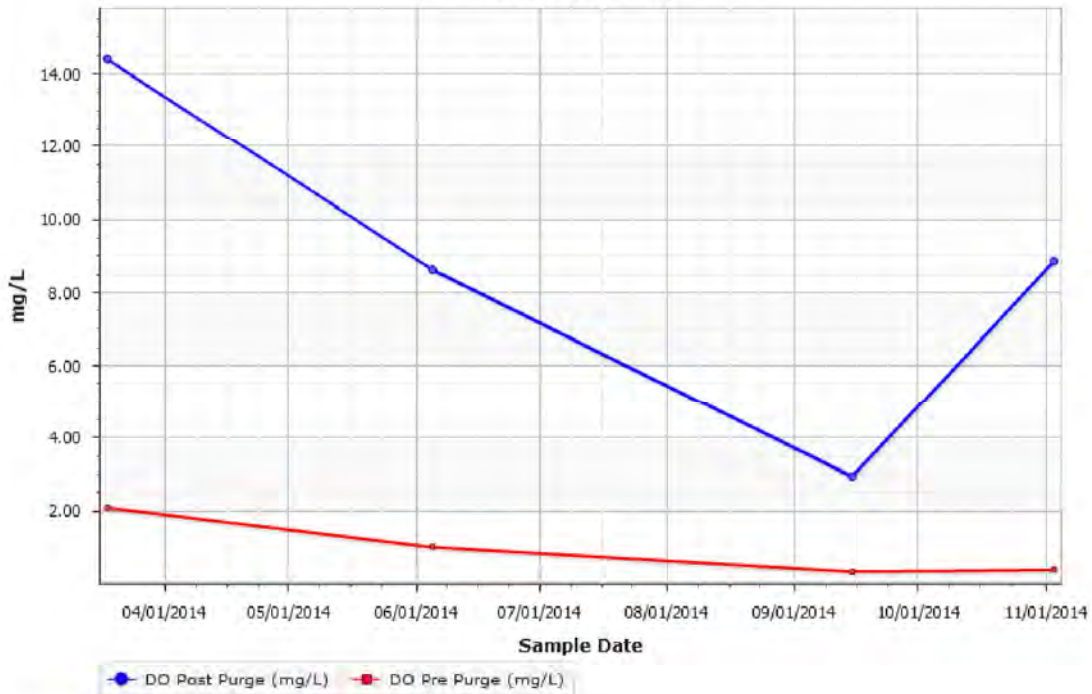
SWMW-14 (Bedrock)

Site: Beacon, NY



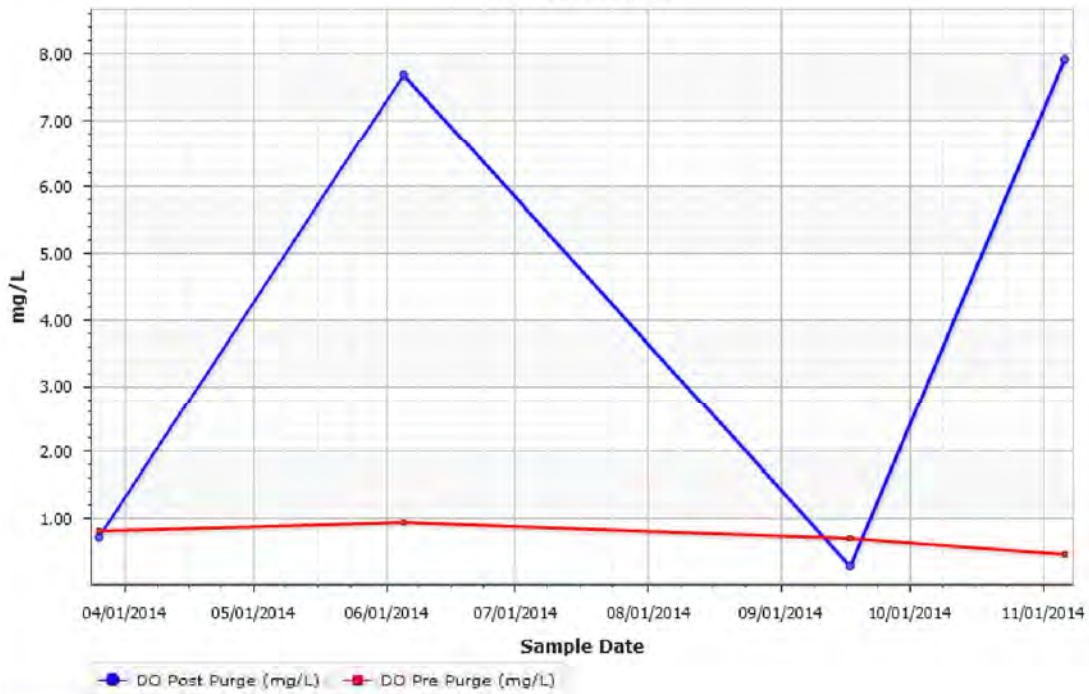
SWMW-2 (Bedrock)

Site: Beacon, NY



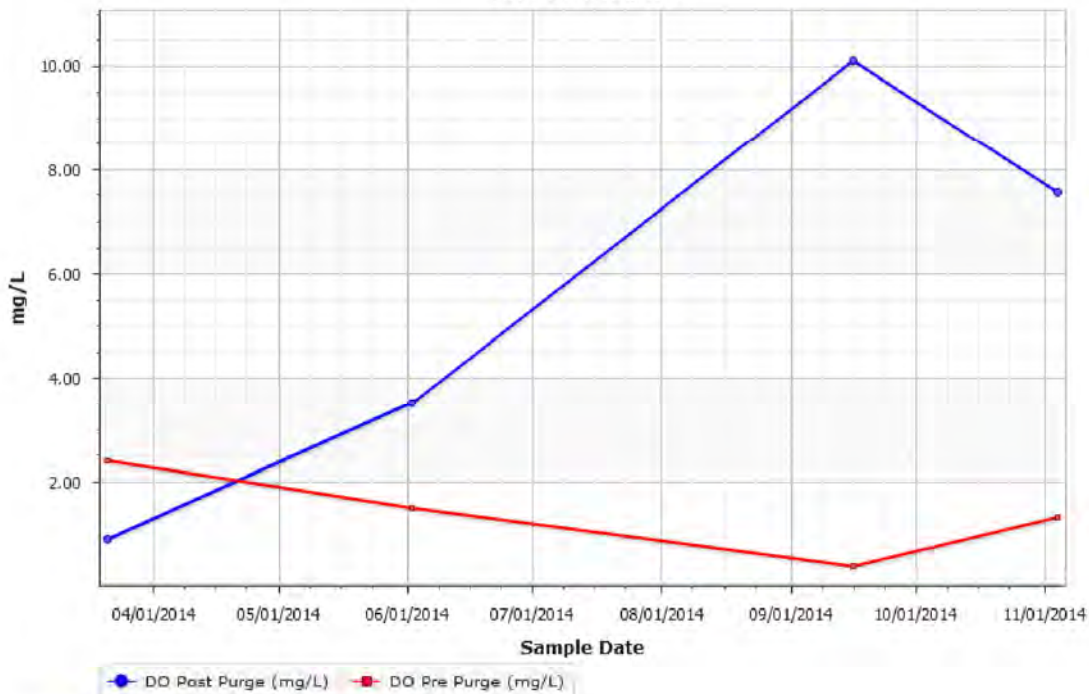
SWMW-41 (Bedrock)

Site: Beacon, NY



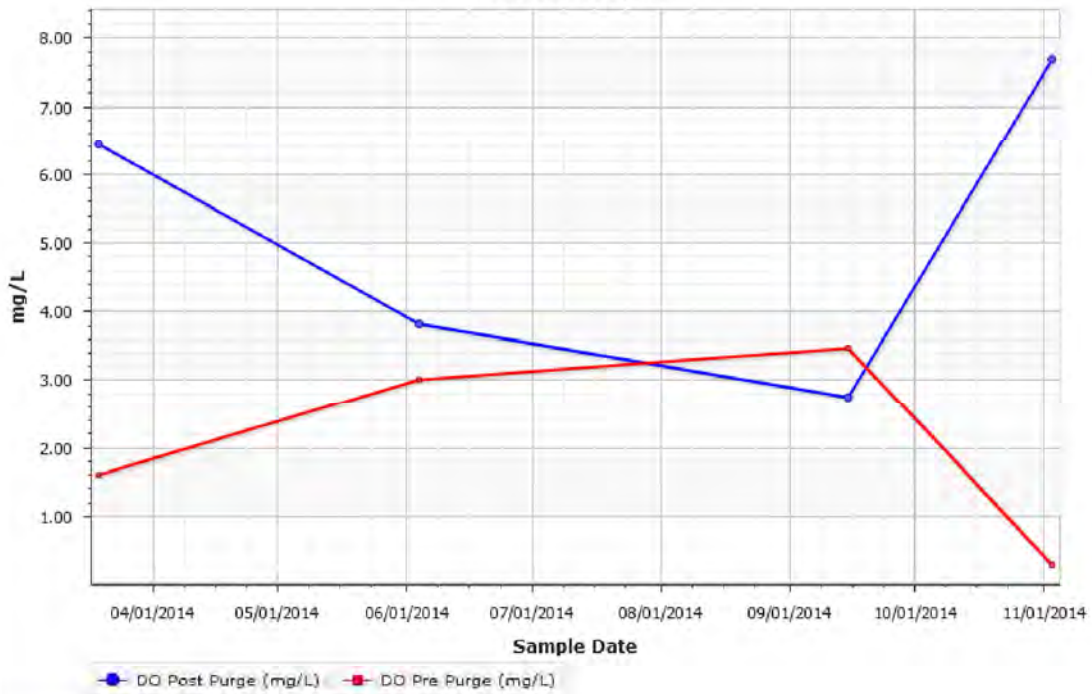
SWMW-44 (Bedrock)

Site: Beacon, NY



SWMW-45 (Bedrock)

Site: Beacon, NY



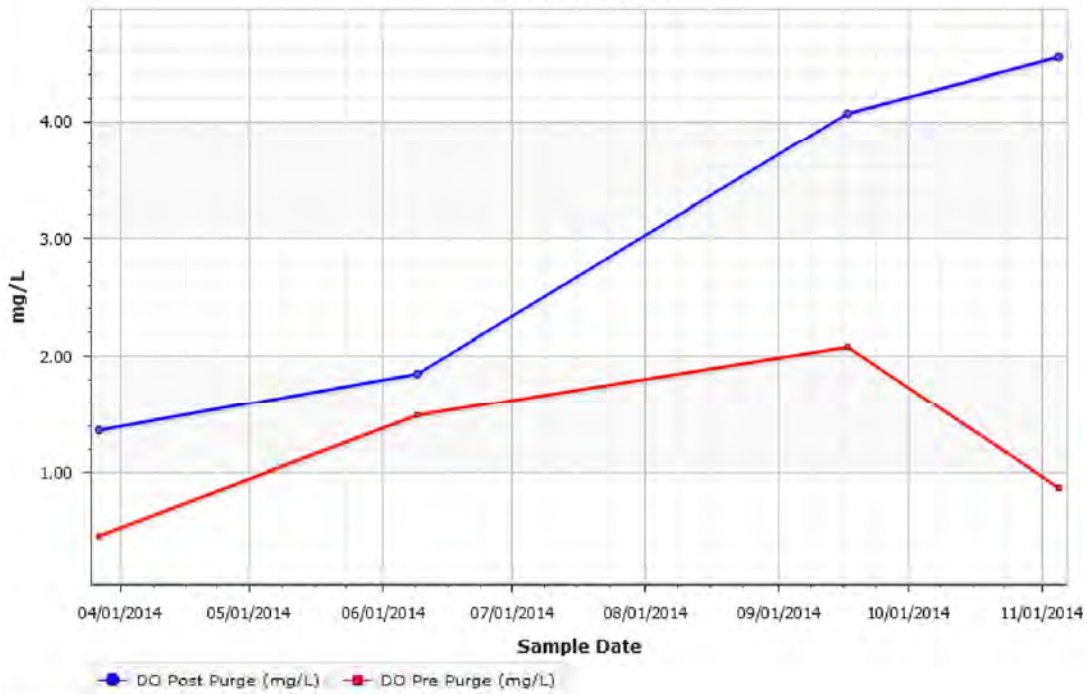
SWMW-55 (Bedrock)

Site: Beacon, NY



SWMW-56 (Bedrock)

Site: Beacon, NY



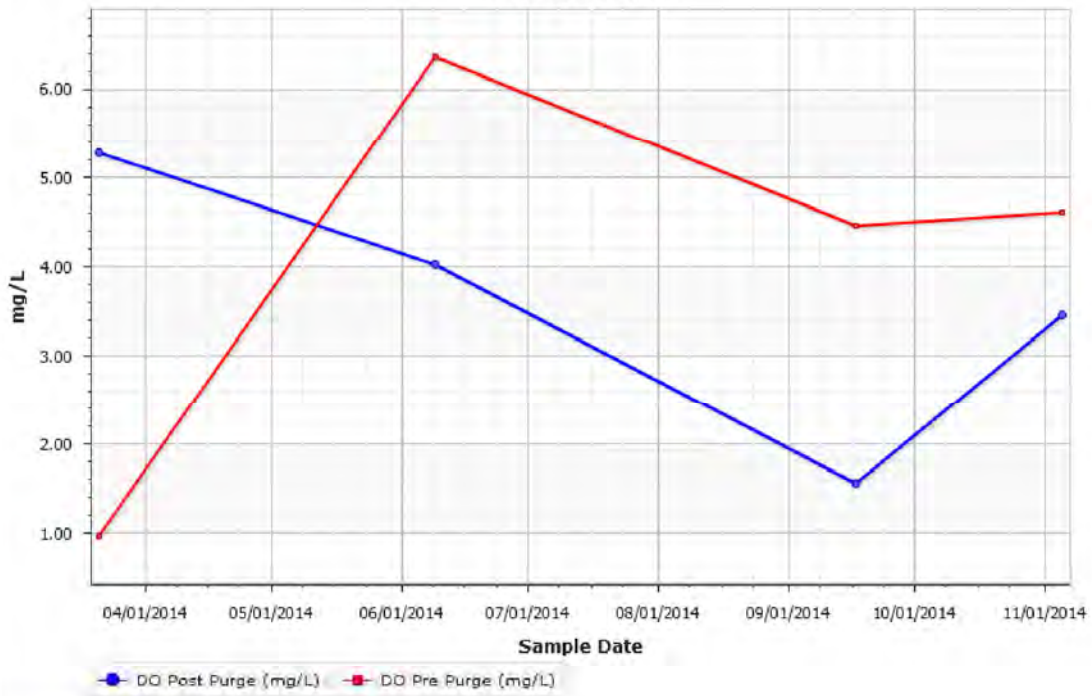
SWMW-66 (Bedrock)

Site: Beacon, NY



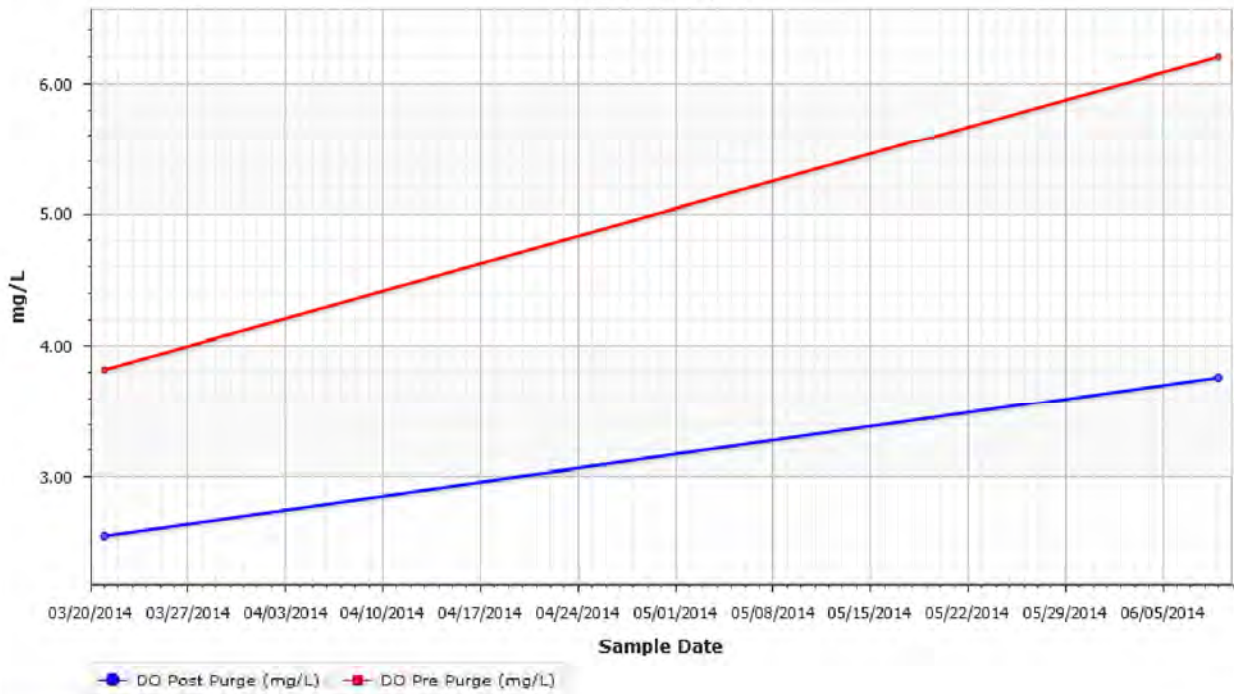
SWMW-68 (Bedrock)

Site: Beacon, NY



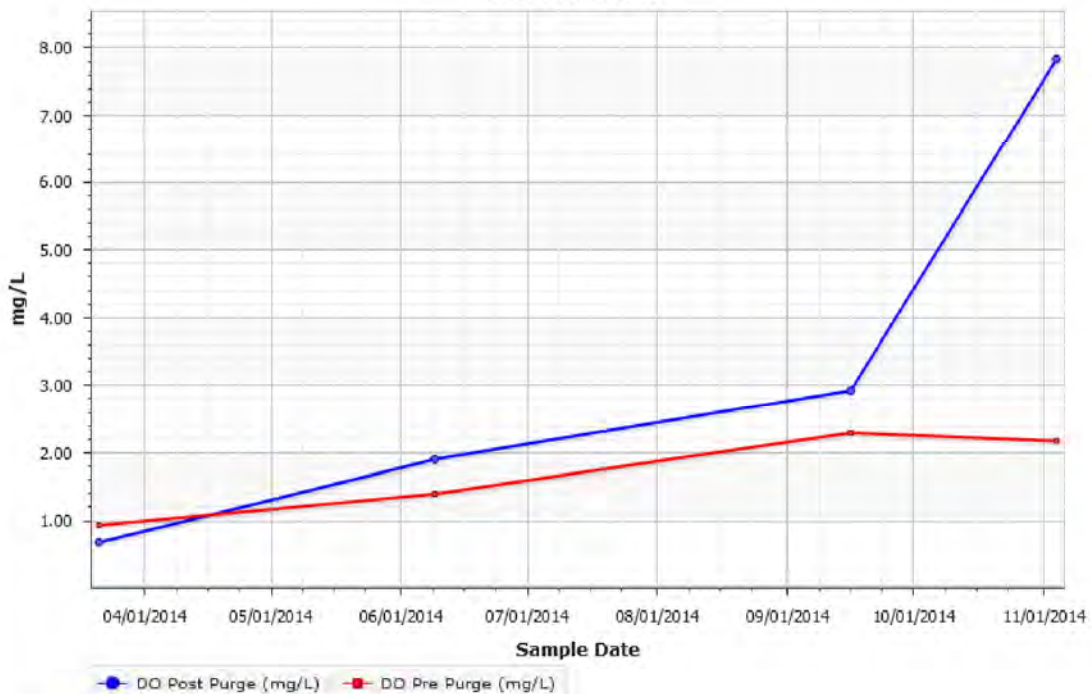
SWMW-103 (Bedrock)

Site: Beacon, NY



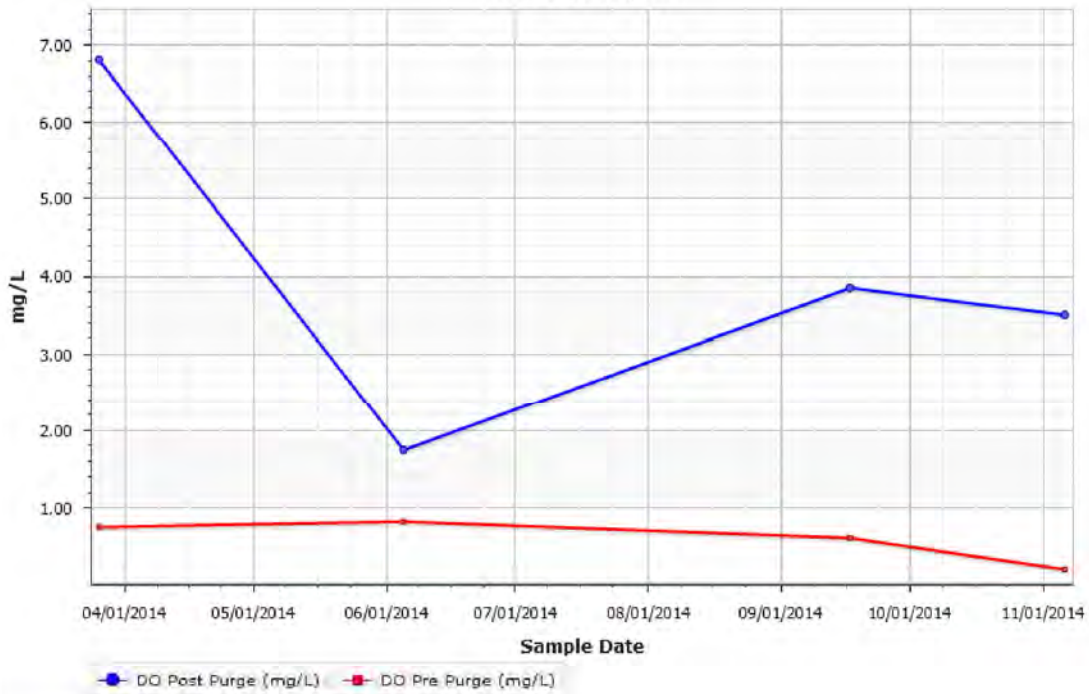
SWMW-111 (Bedrock)

Site: Beacon, NY



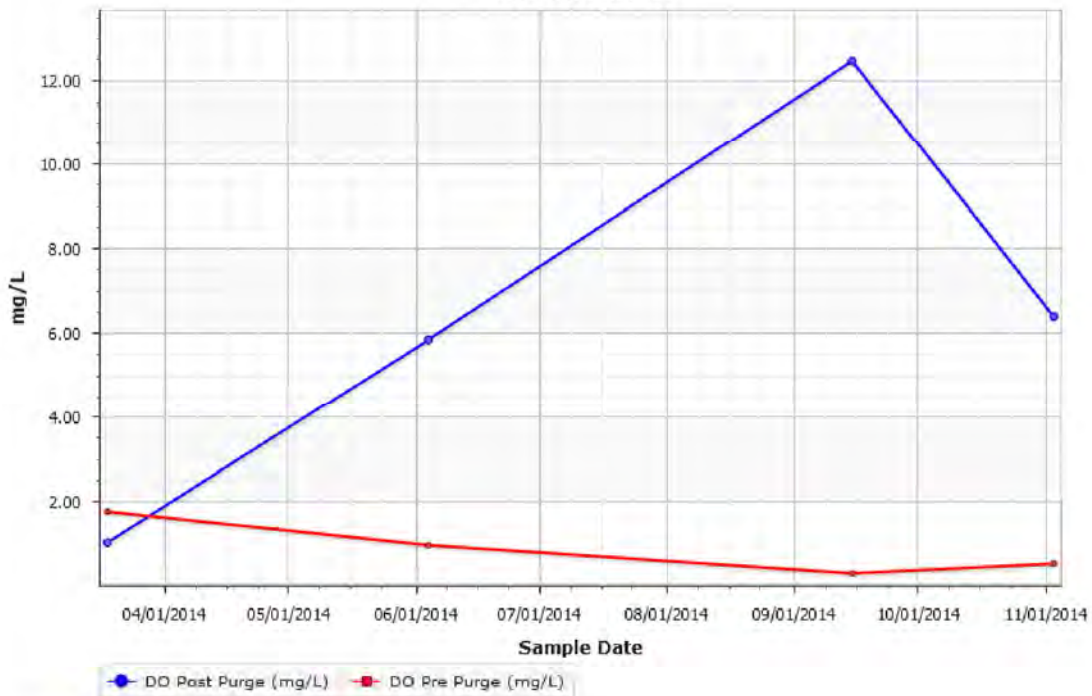
SWMW-112 (Bedrock)

Site: Beacon, NY



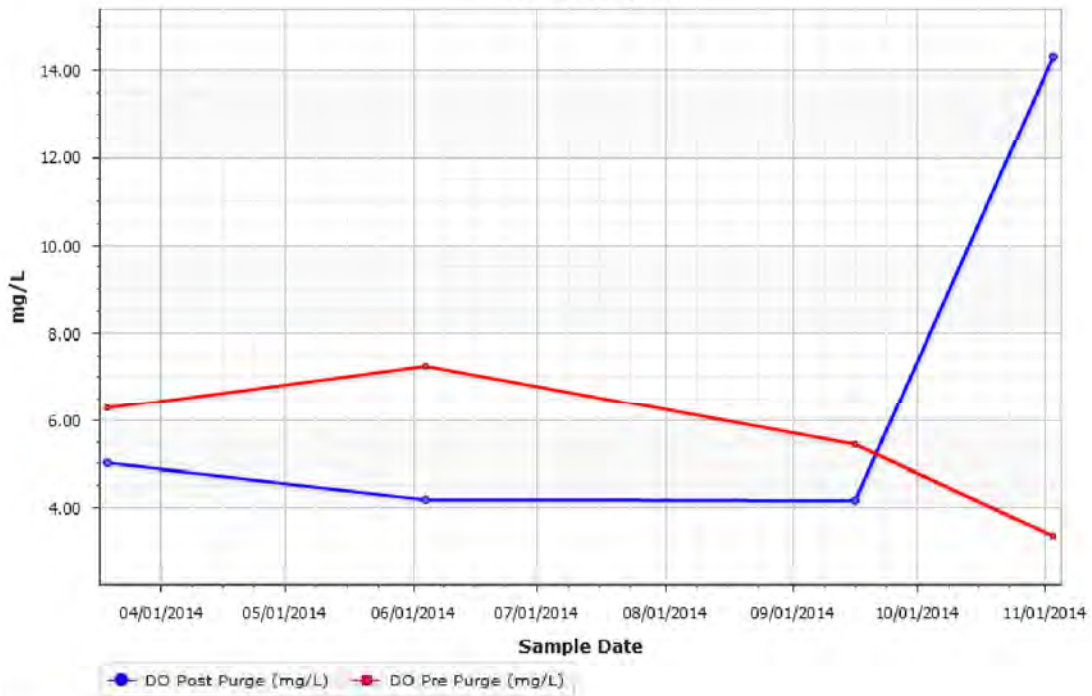
SWMW-114 (Bedrock)

Site: Beacon, NY



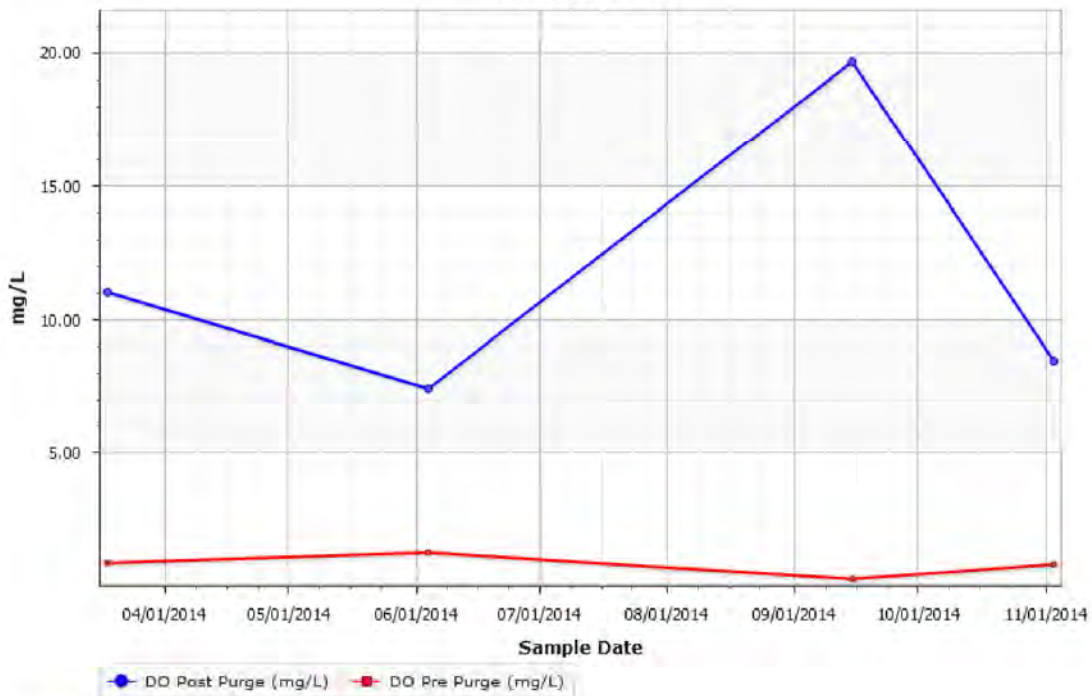
SWMW-123 (Bedrock)

Site: Beacon, NY



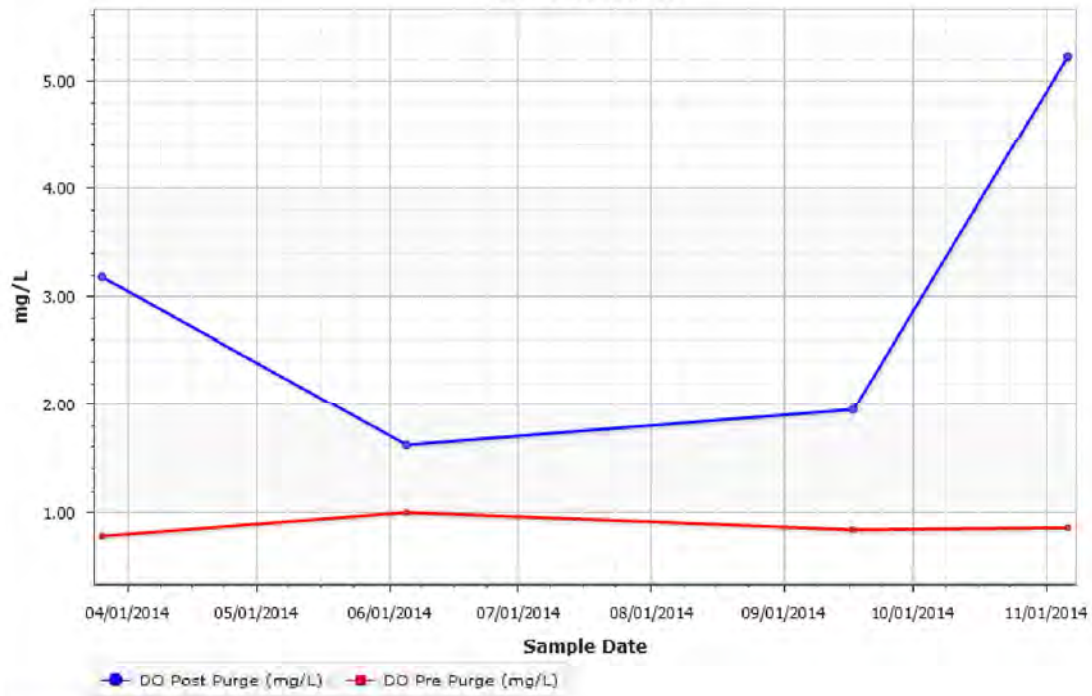
SWMW-125 (Bedrock)

Site: Beacon, NY



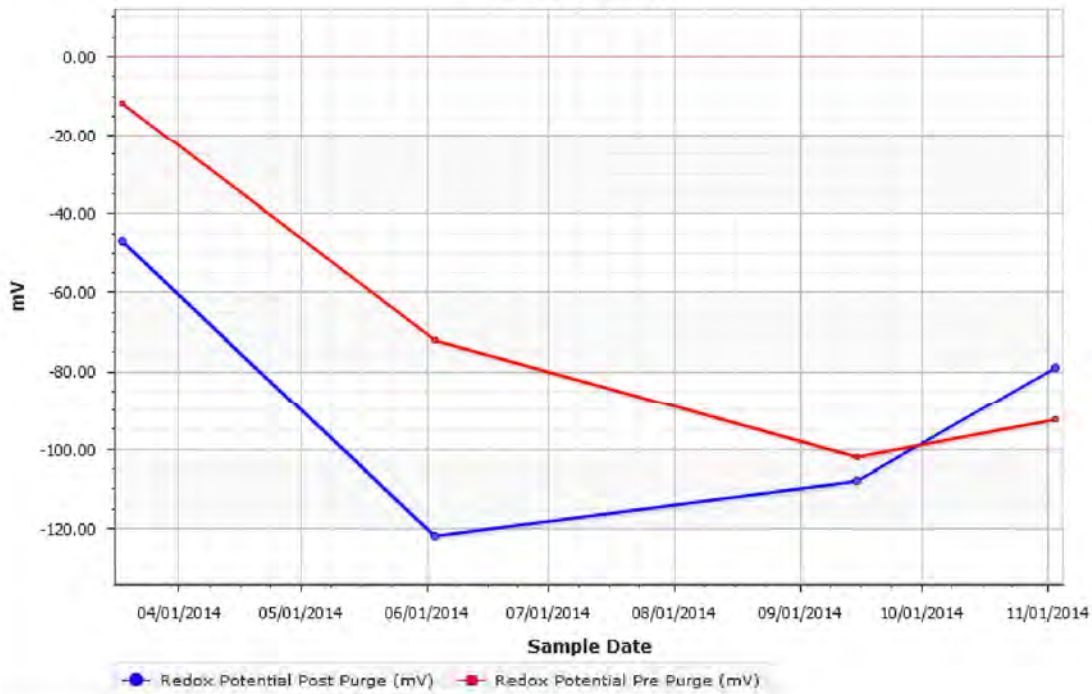
SWMW-126 (Bedrock)

Site: Beacon, NY



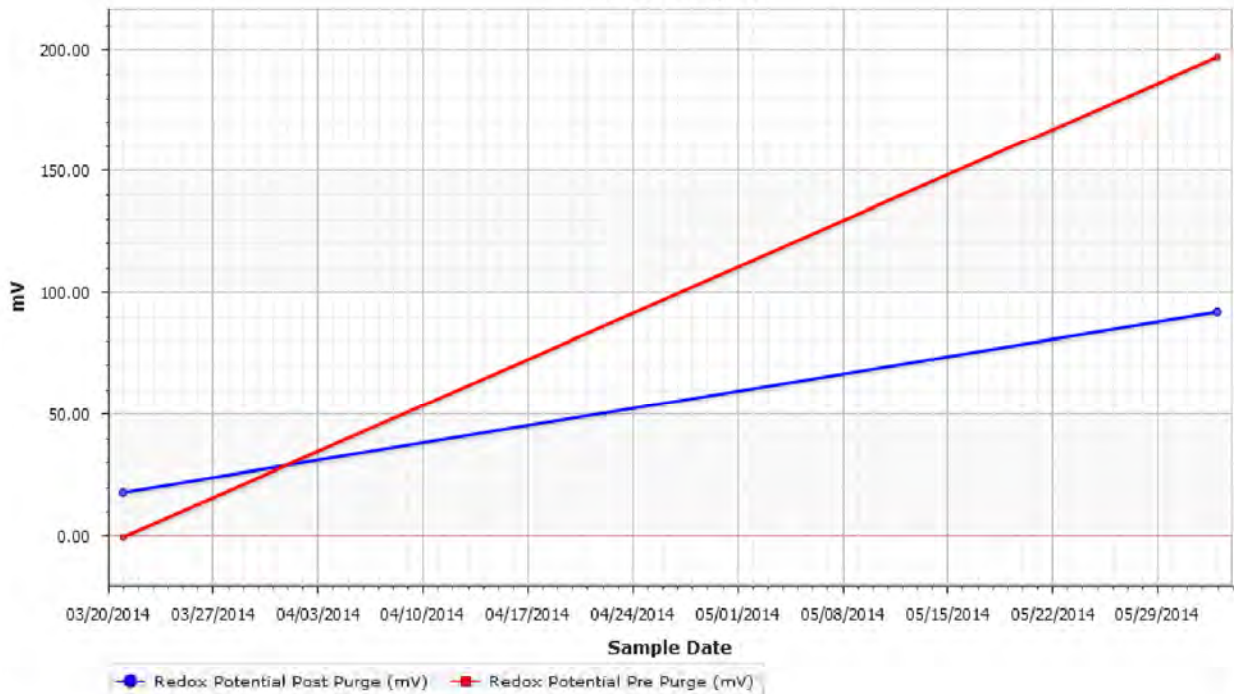
GT-2 (Overburden)

Site: Beacon, NY



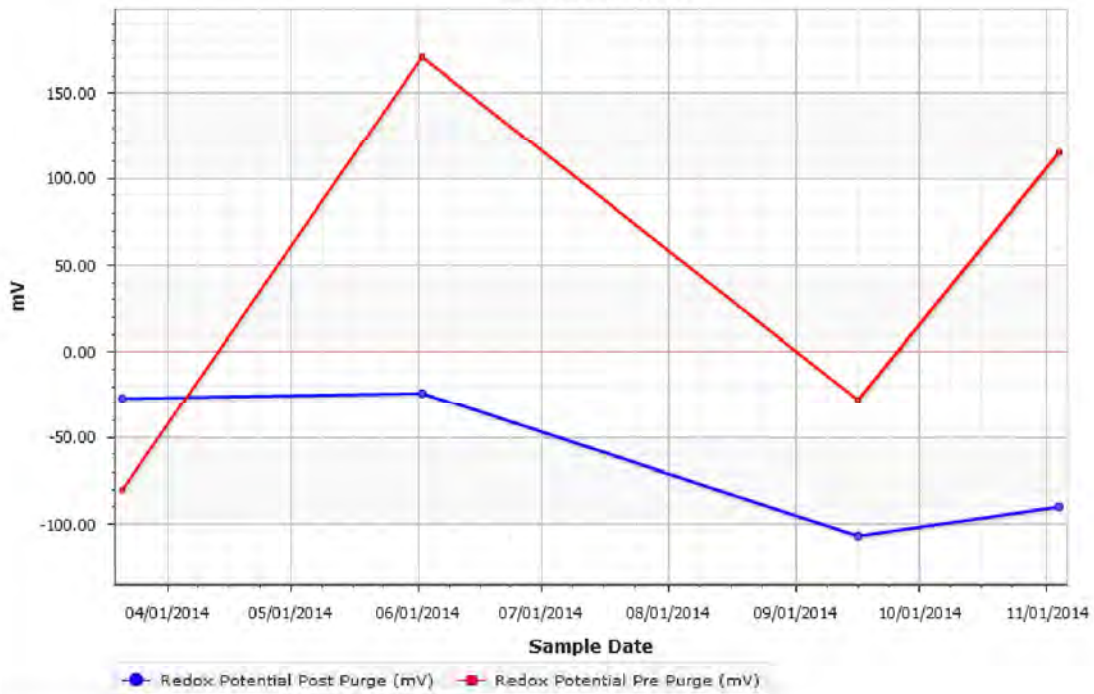
ITMW-24 (Overburden)

Site: Beacon, NY



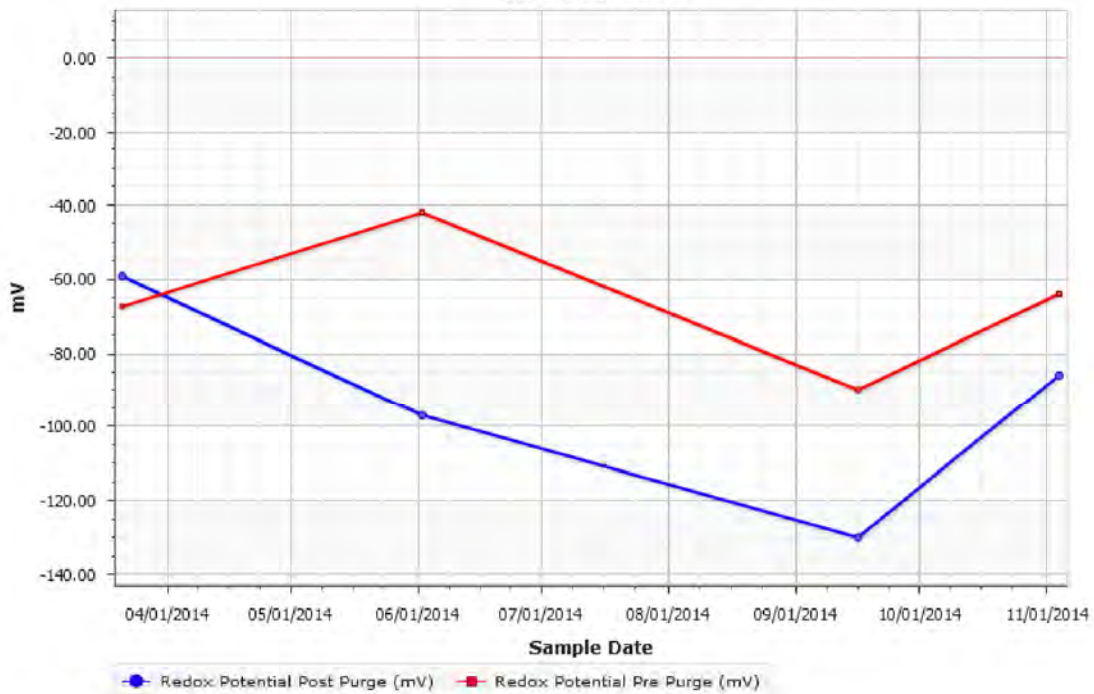
ITMW-25 (Overburden)

Site: Beacon, NY



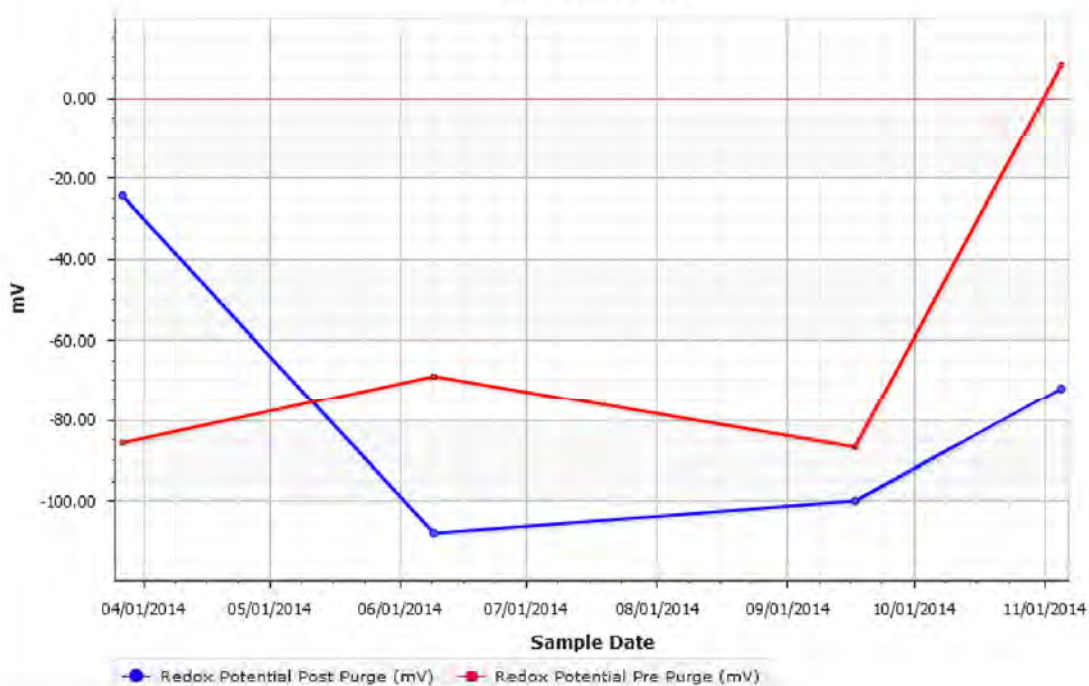
SWMW-10 (Overburden)

Site: Beacon, NY



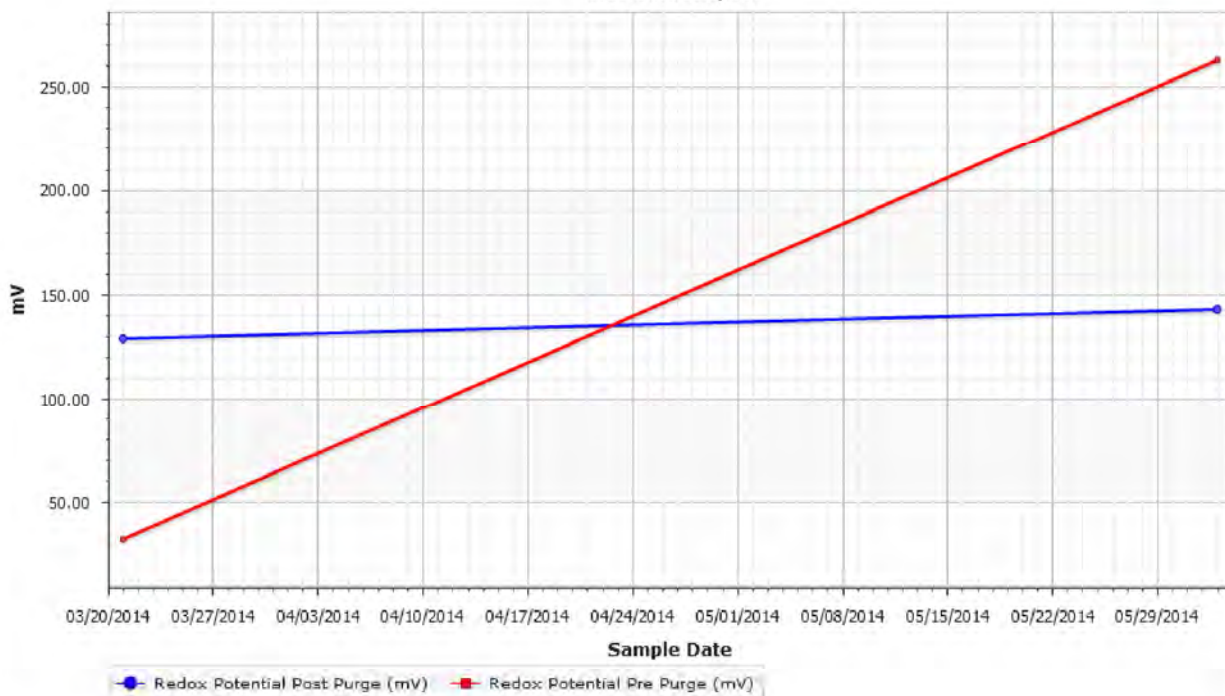
SWMW-15 (Overburden)

Site: Beacon, NY



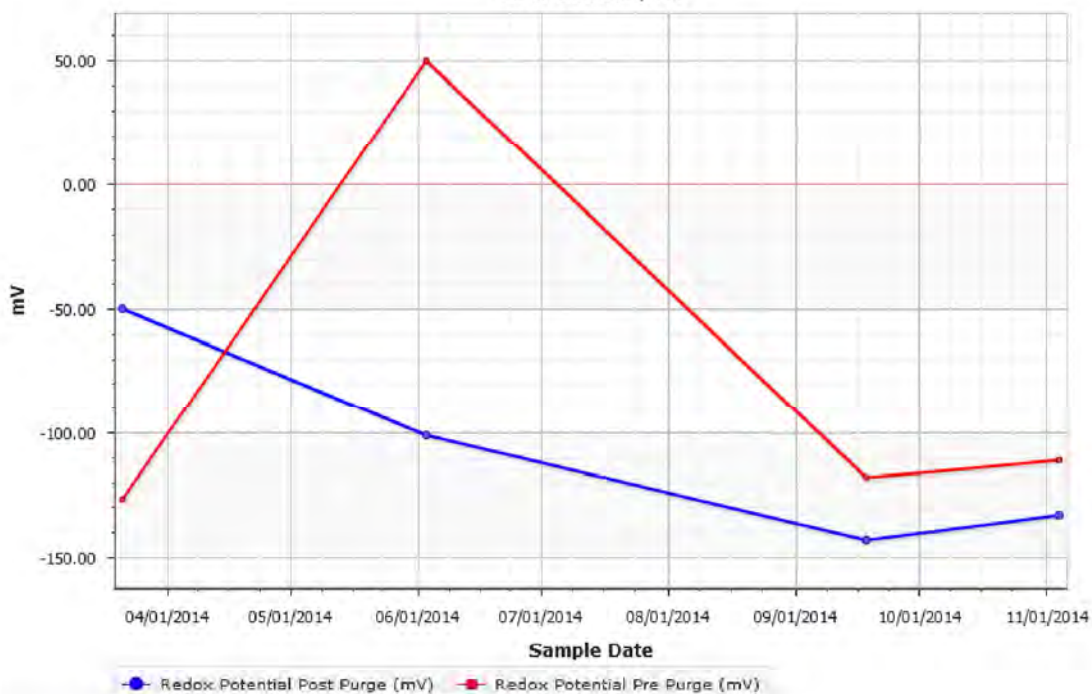
SWMW-25 (Overburden)

Site: Beacon, NY



SWMW-28 (Overburden)

Site: Beacon, NY



SWMW-30 (Overburden)

Site: Beacon, NY



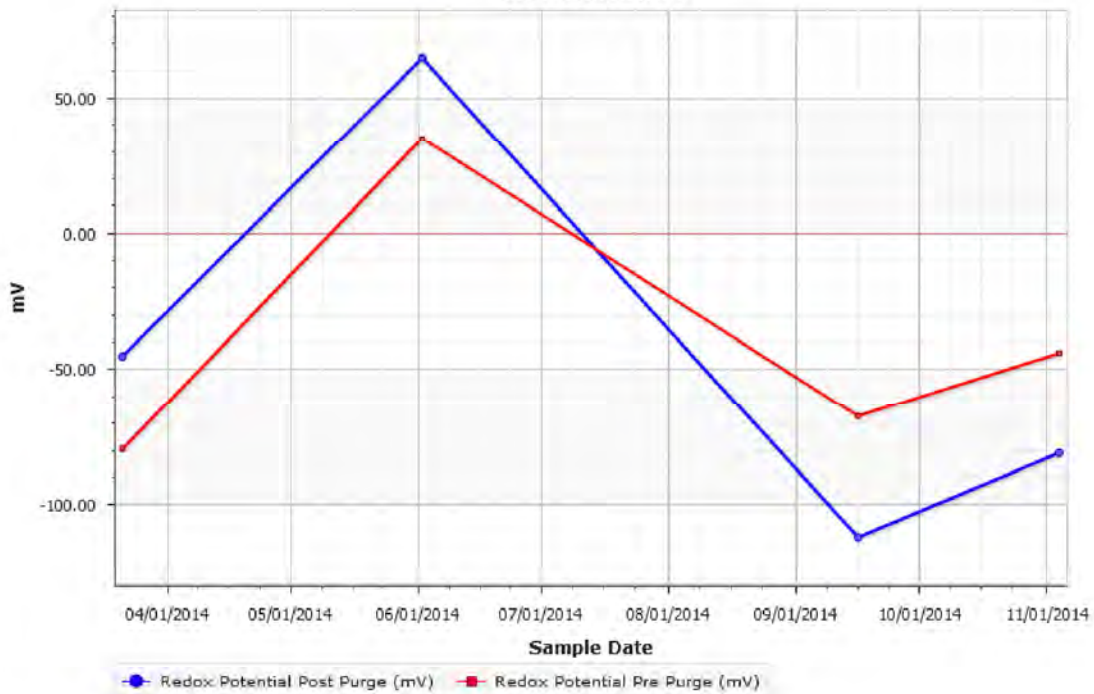
SWMW-31 (Overburden)

Site: Beacon, NY



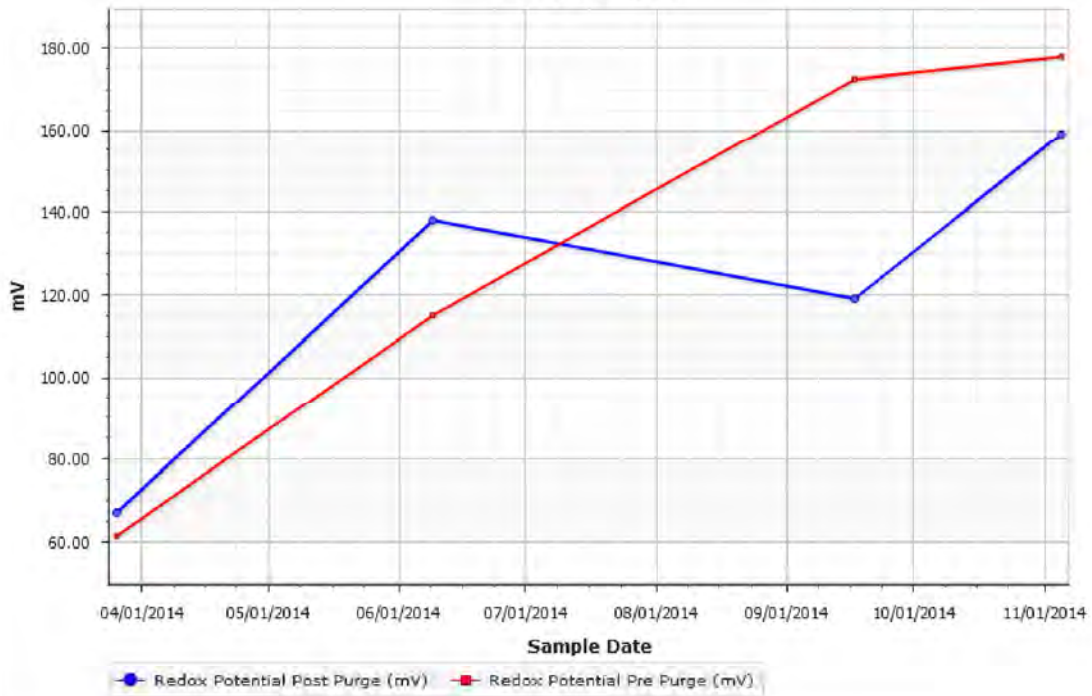
SWMW-48 (Overburden)

Site: Beacon, NY



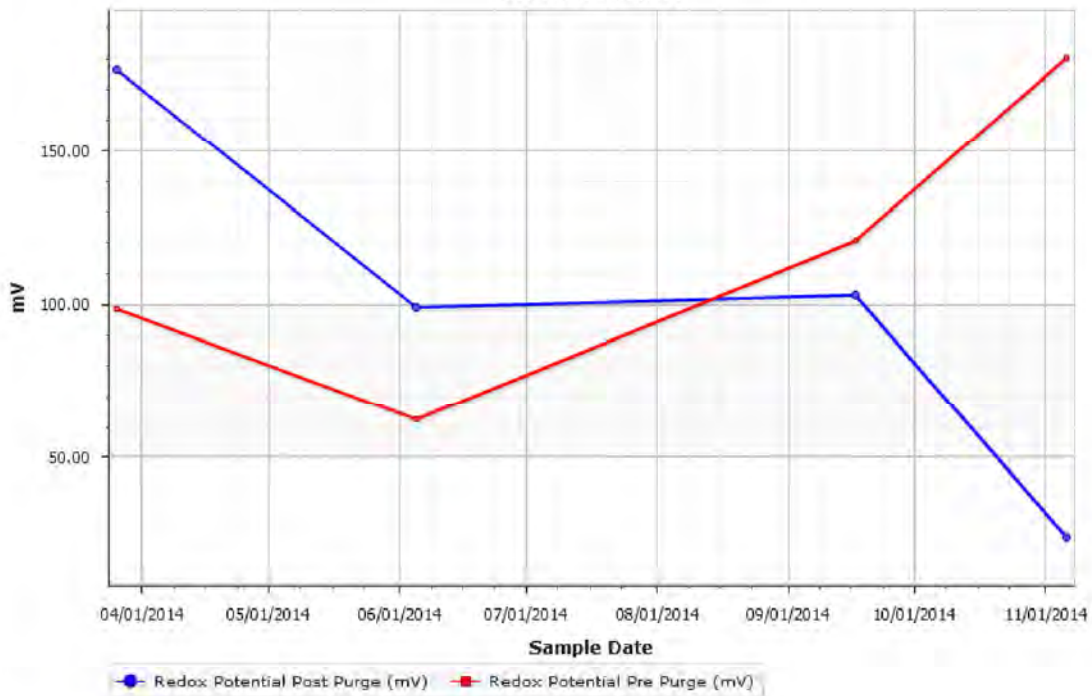
SWMW-58 (Overburden)

Site: Beacon, NY



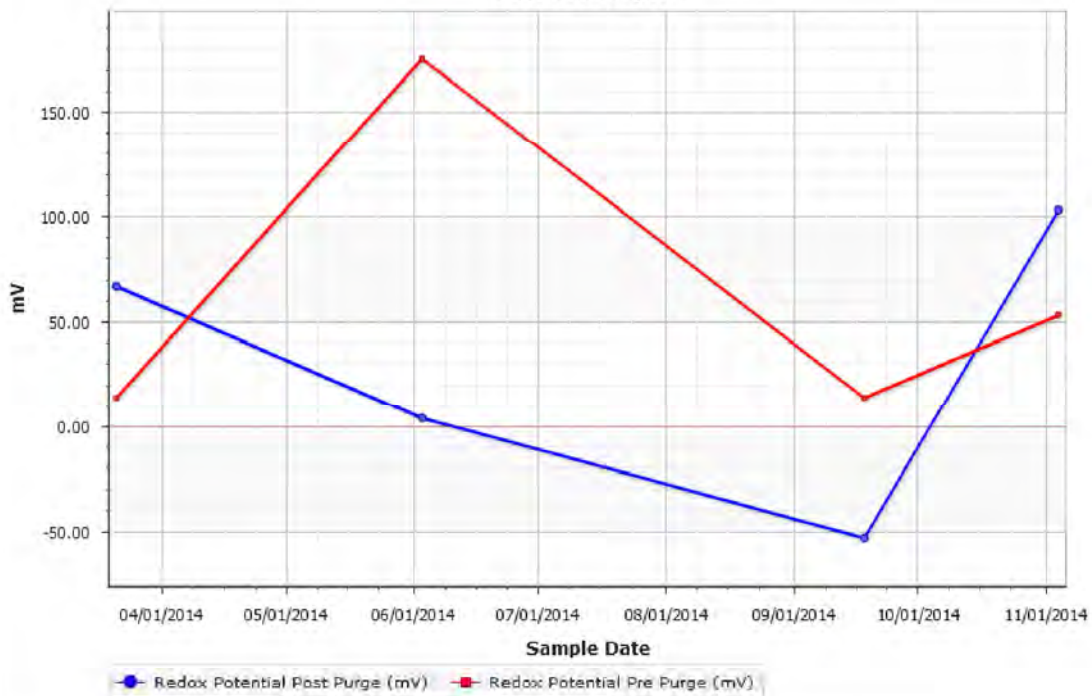
SWMW-62 (Overburden)

Site: Beacon, NY



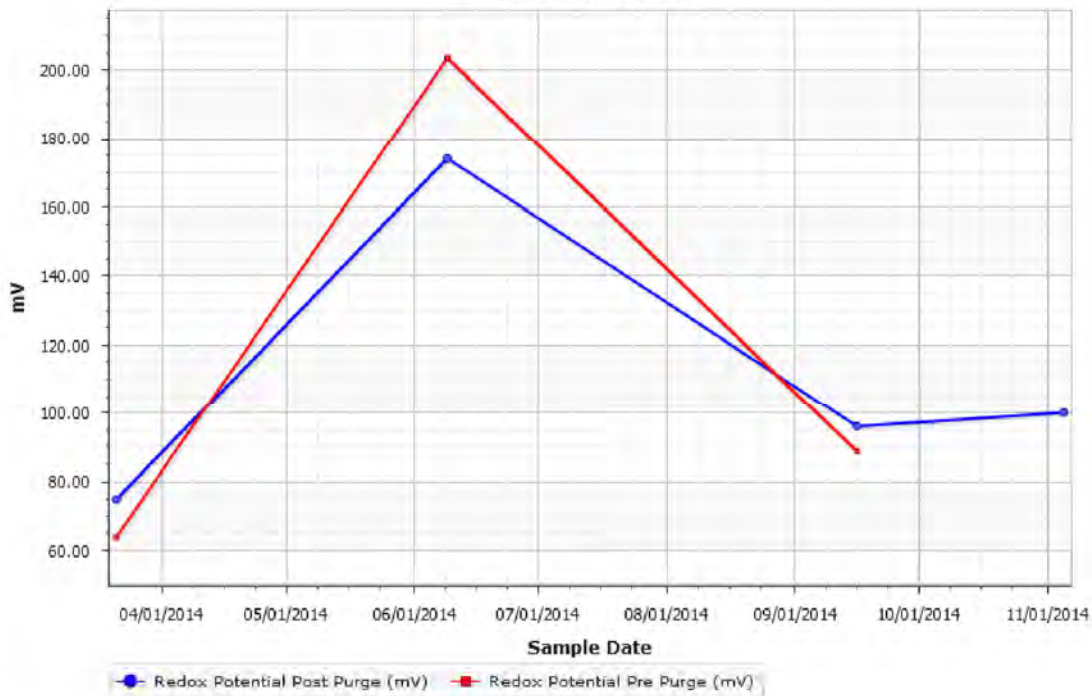
SWMW-65 (Overburden)

Site: Beacon, NY



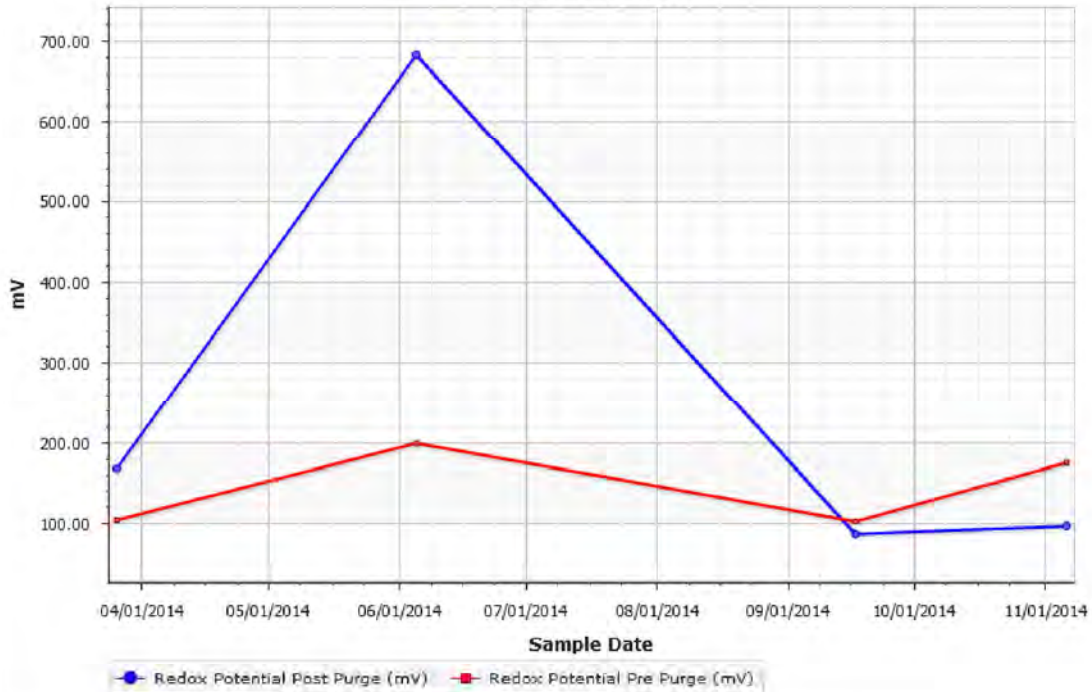
SWMW-67 (Overburden)

Site: Beacon, NY



SWMW-113 (Overburden)

Site: Beacon, NY



Unknown Well 1 (Overburden)

Site: Beacon, NY



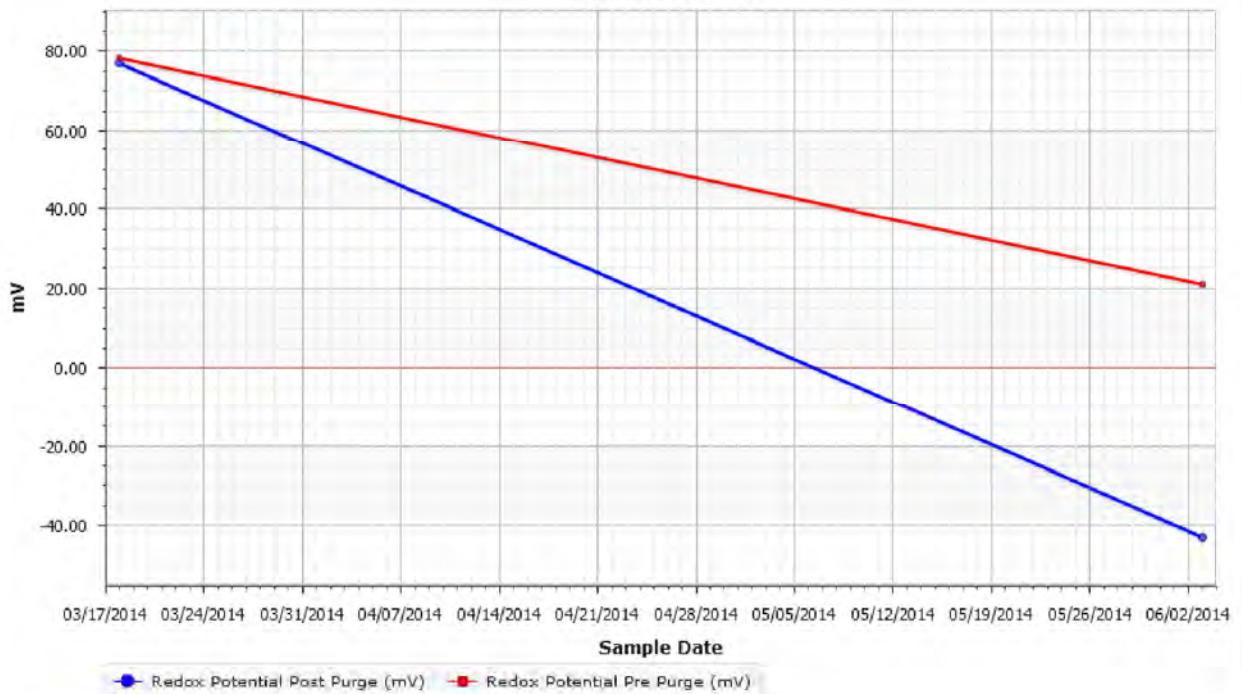
Unknown Well 2 (Overburden)

Site: Beacon, NY



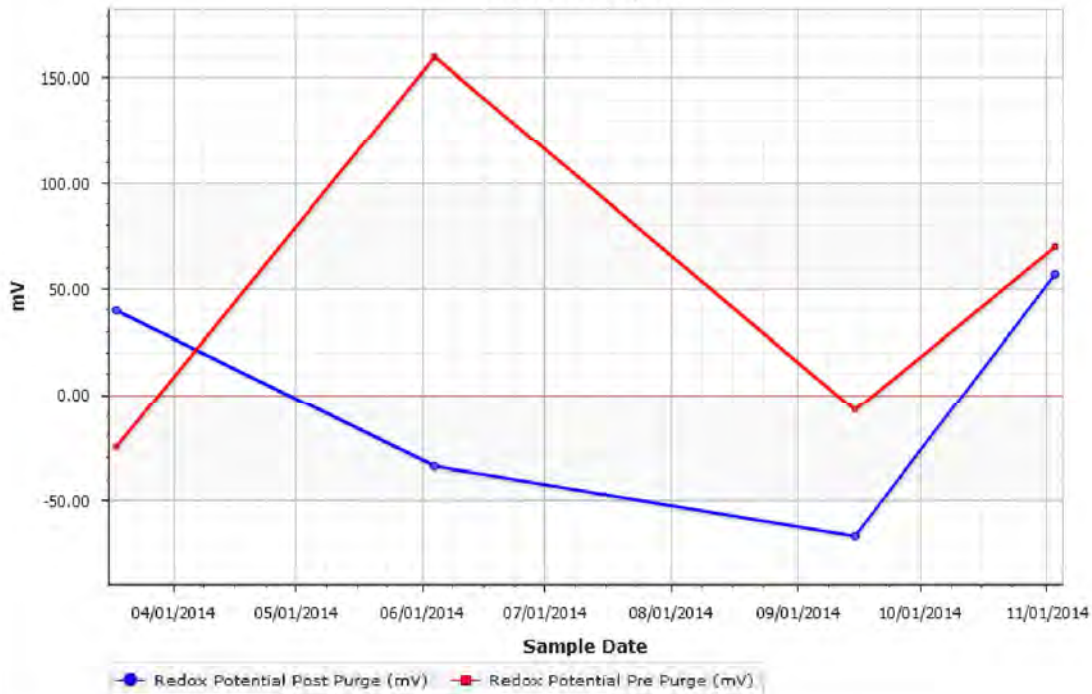
Unknown Well 3 (Overburden)

Site: Beacon, NY



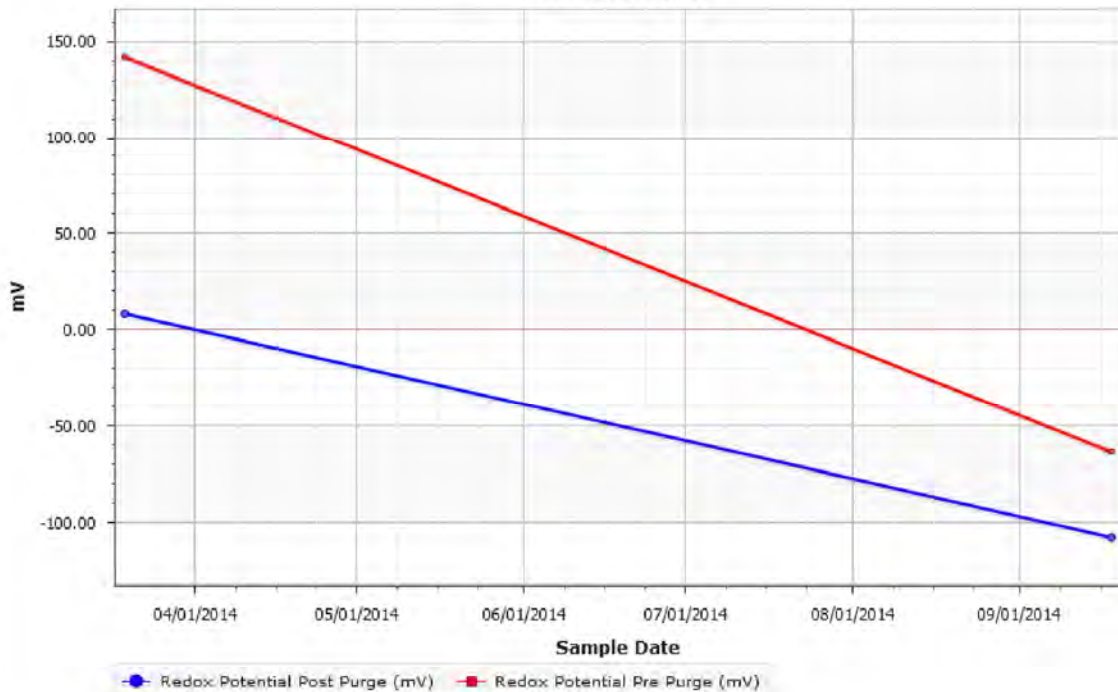
ITMW-13 (Bedrock)

Site: Beacon, NY



ITMW-30 (Bedrock)

Site: Beacon, NY



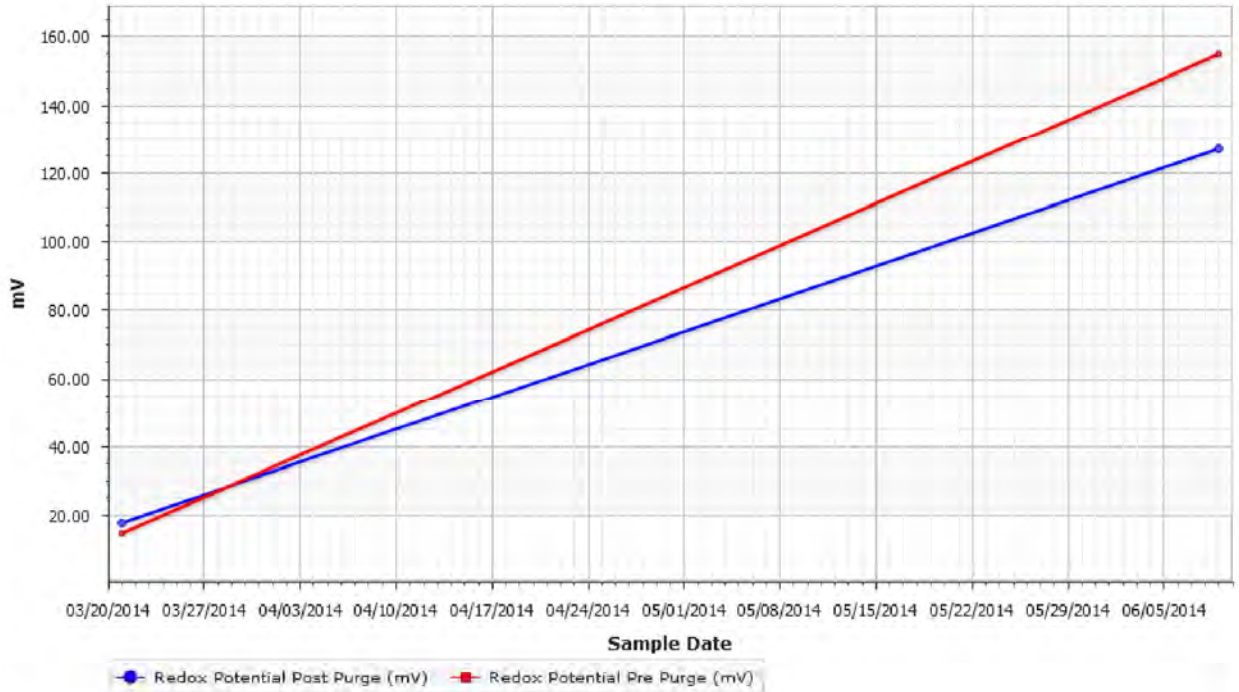
ITMW-6 (Bedrock)

Site: Beacon, NY



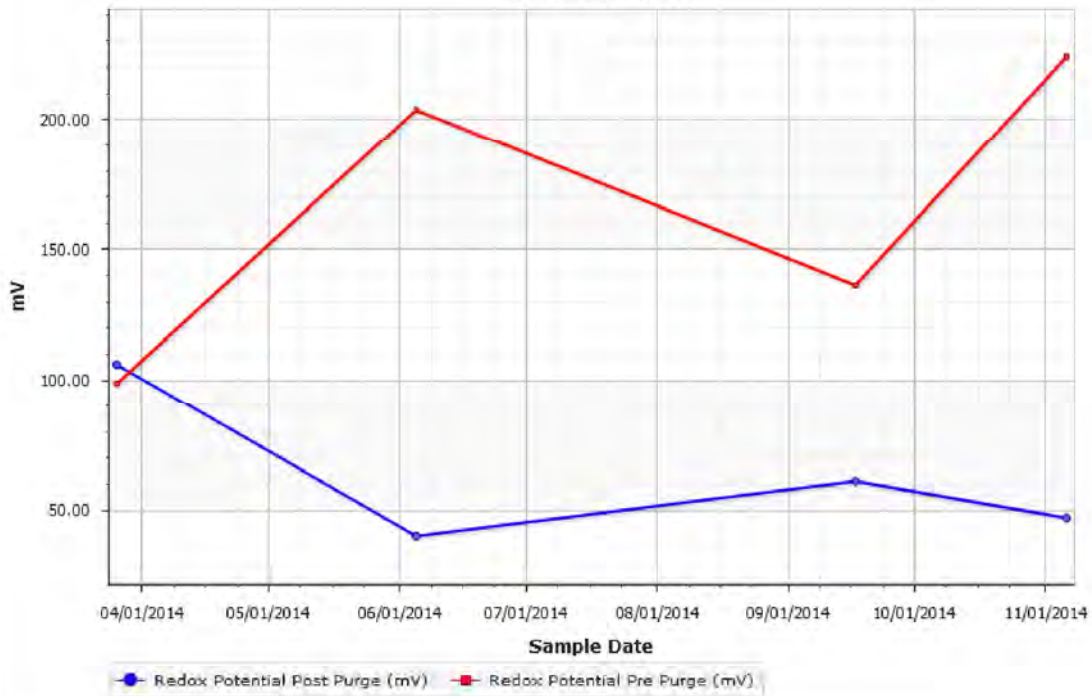
SWMW-13 (Bedrock)

Site: Beacon, NY



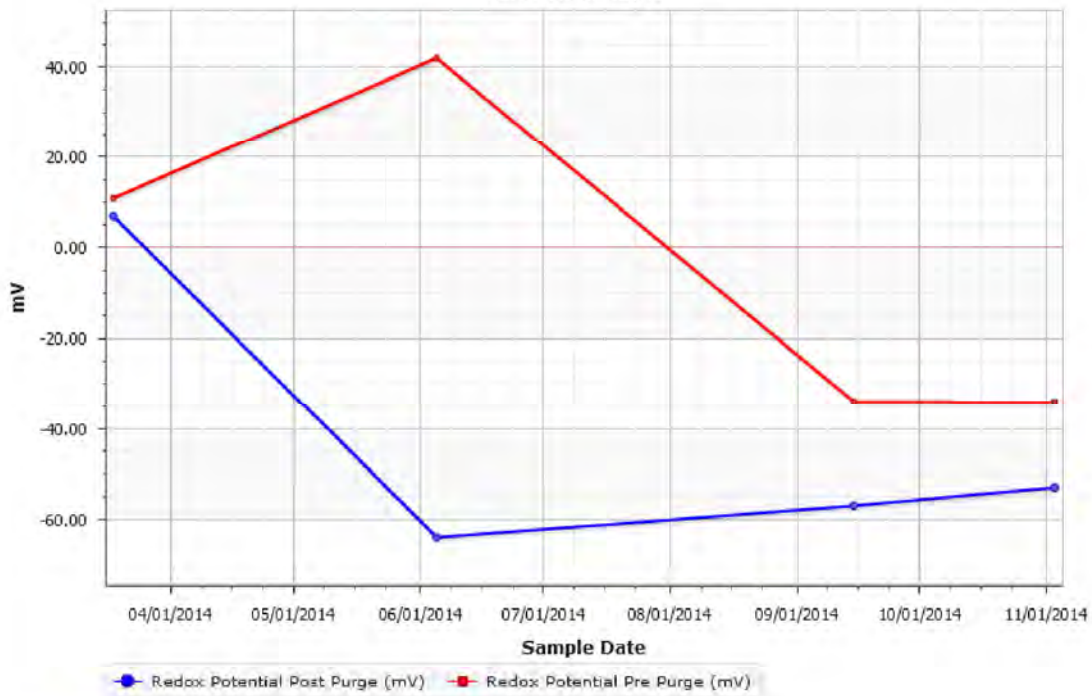
SWMW-14 (Bedrock)

Site: Beacon, NY



SWMW-2 (Bedrock)

Site: Beacon, NY



SWMW-41 (Bedrock)

Site: Beacon, NY



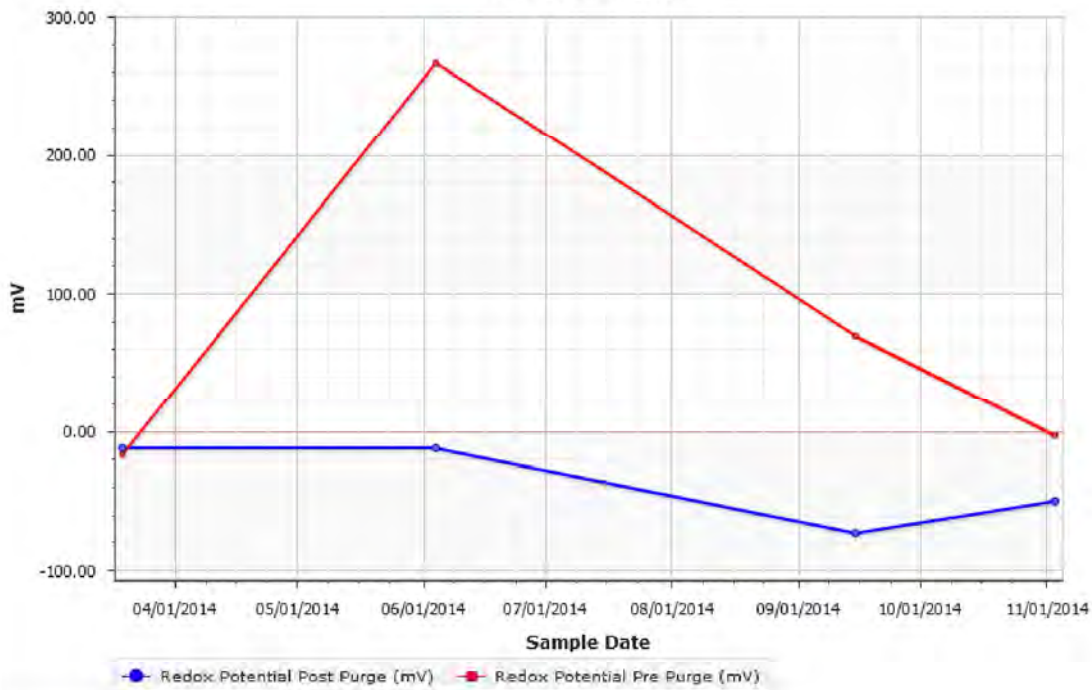
SWMW-44 (Bedrock)

Site: Beacon, NY



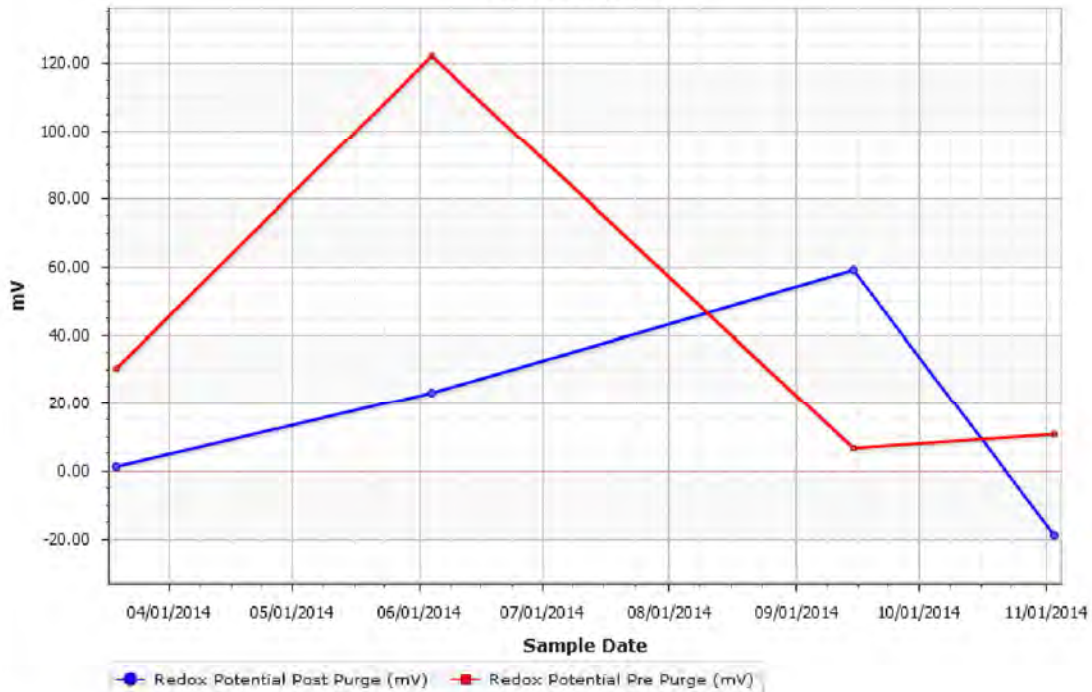
SWMW-45 (Bedrock)

Site: Beacon, NY



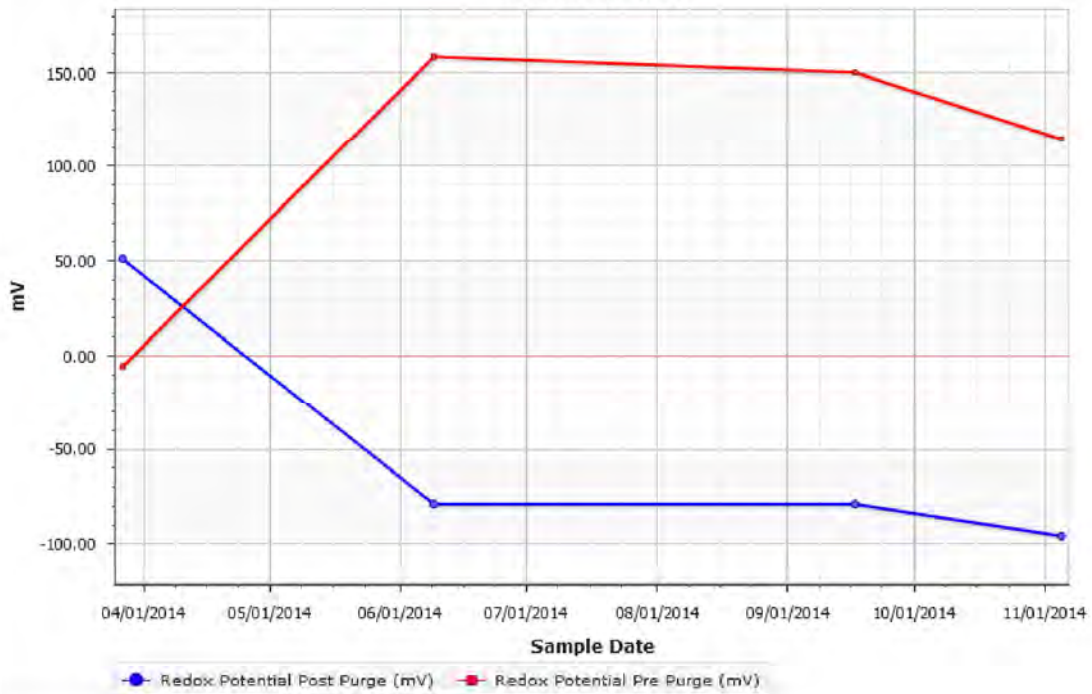
SWMW-55 (Bedrock)

Site: Beacon, NY



SWMW-56 (Bedrock)

Site: Beacon, NY



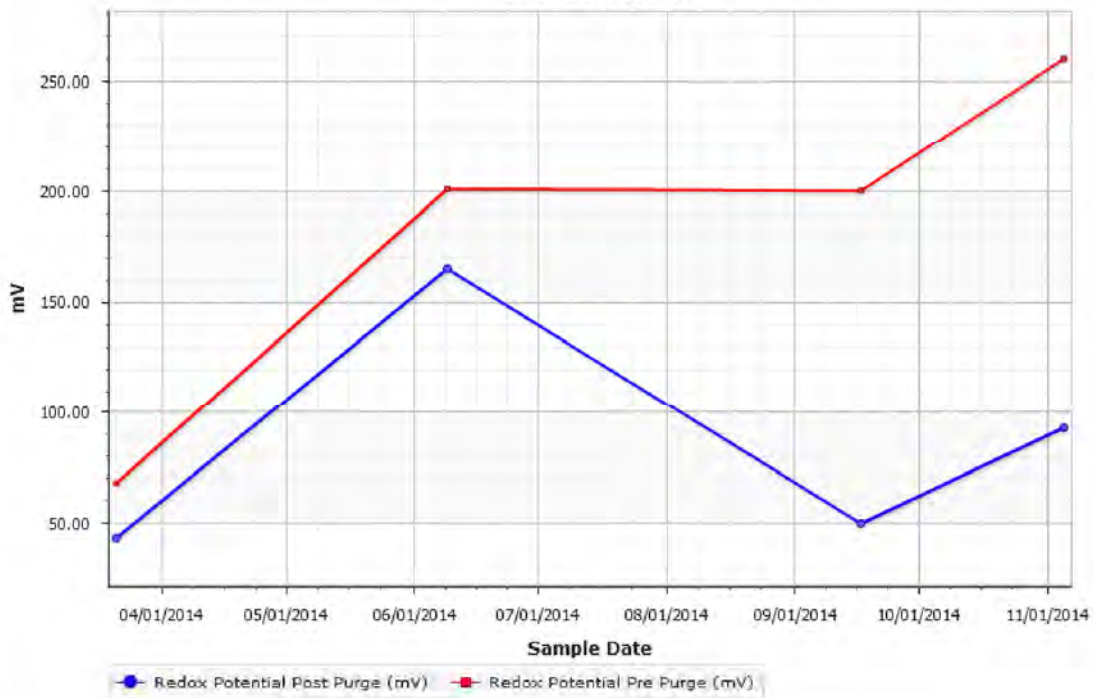
SWMW-66 (Bedrock)

Site: Beacon, NY



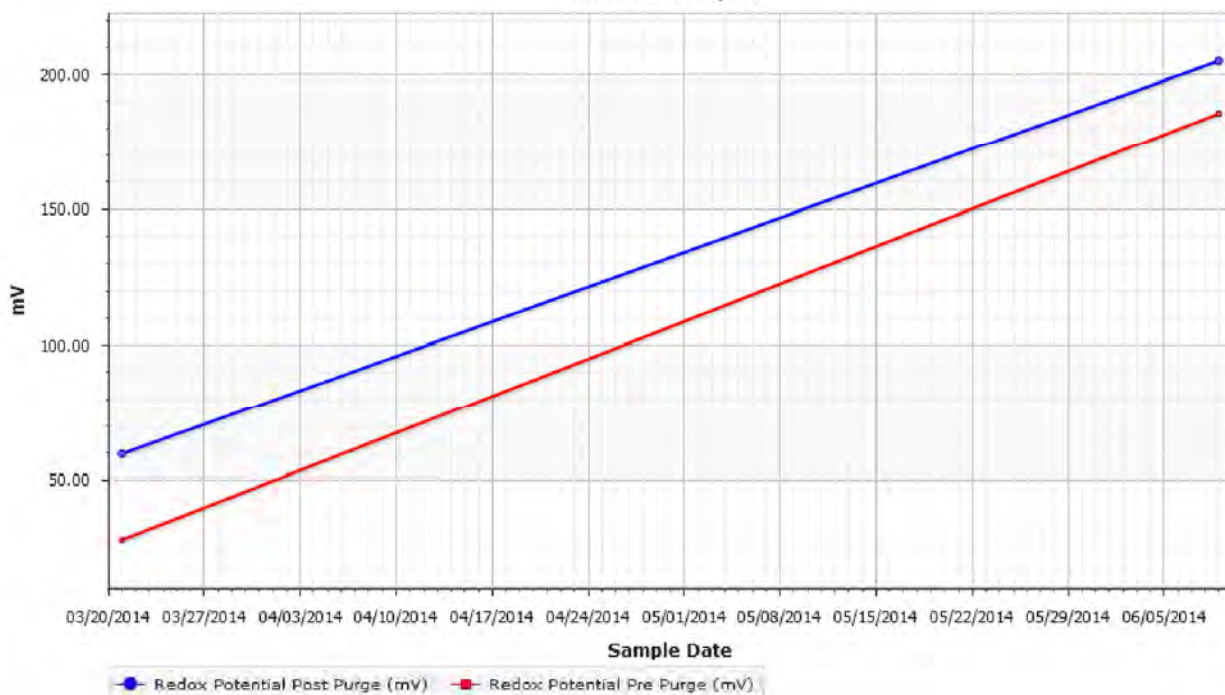
SWMW-68 (Bedrock)

Site: Beacon, NY



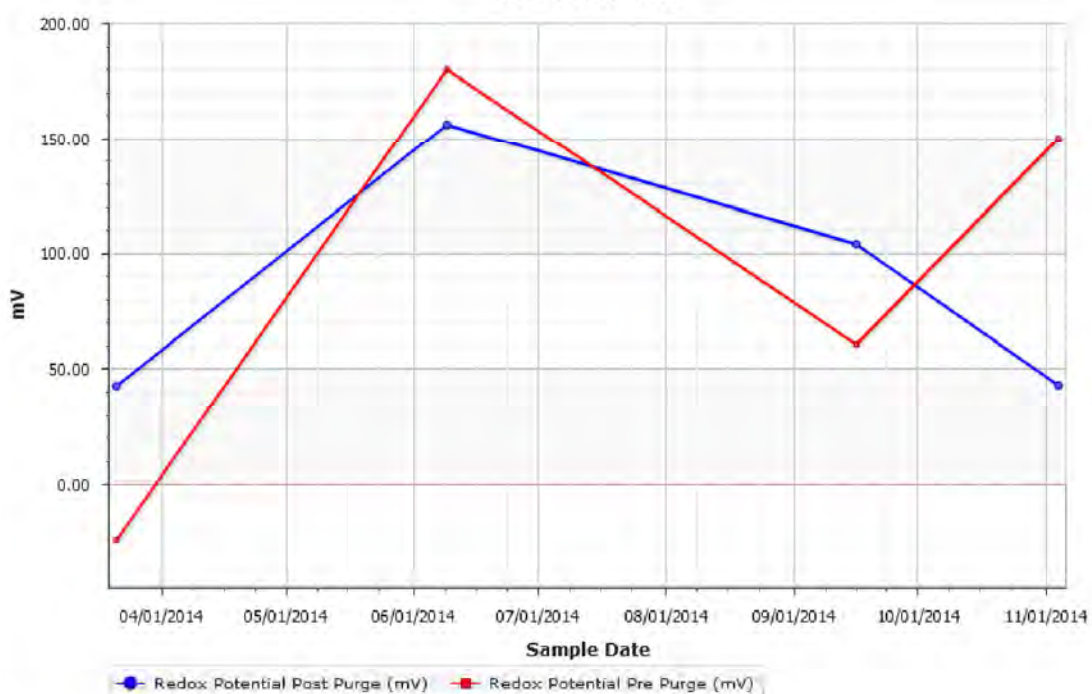
SWMW-103 (Bedrock)

Site: Beacon, NY



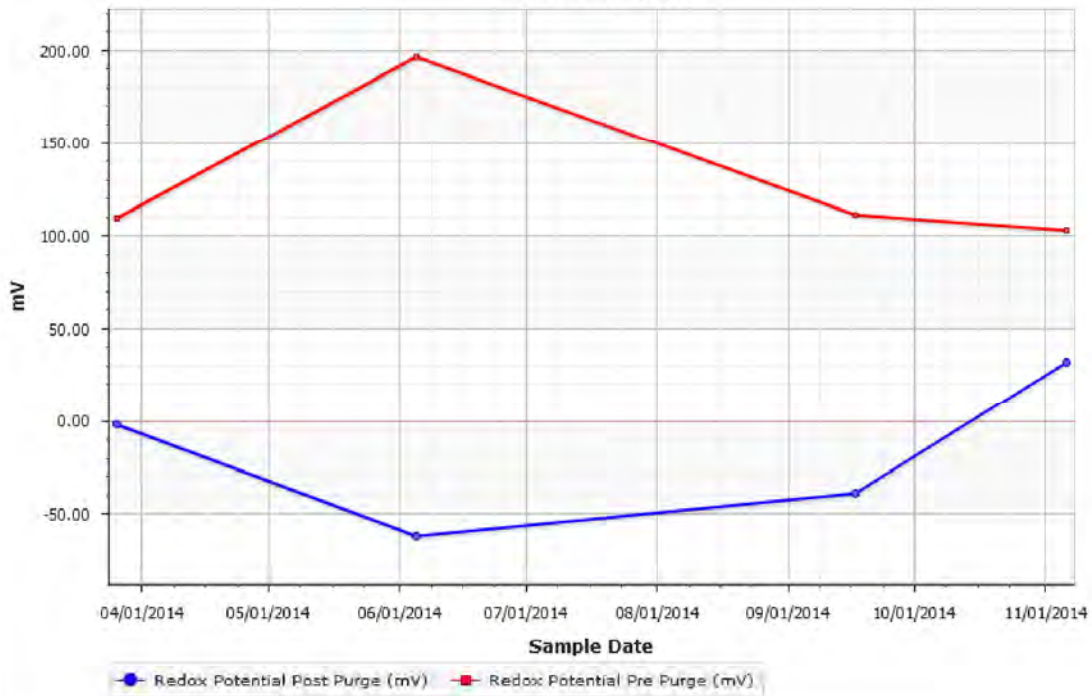
SWMW-111 (Bedrock)

Site: Beacon, NY



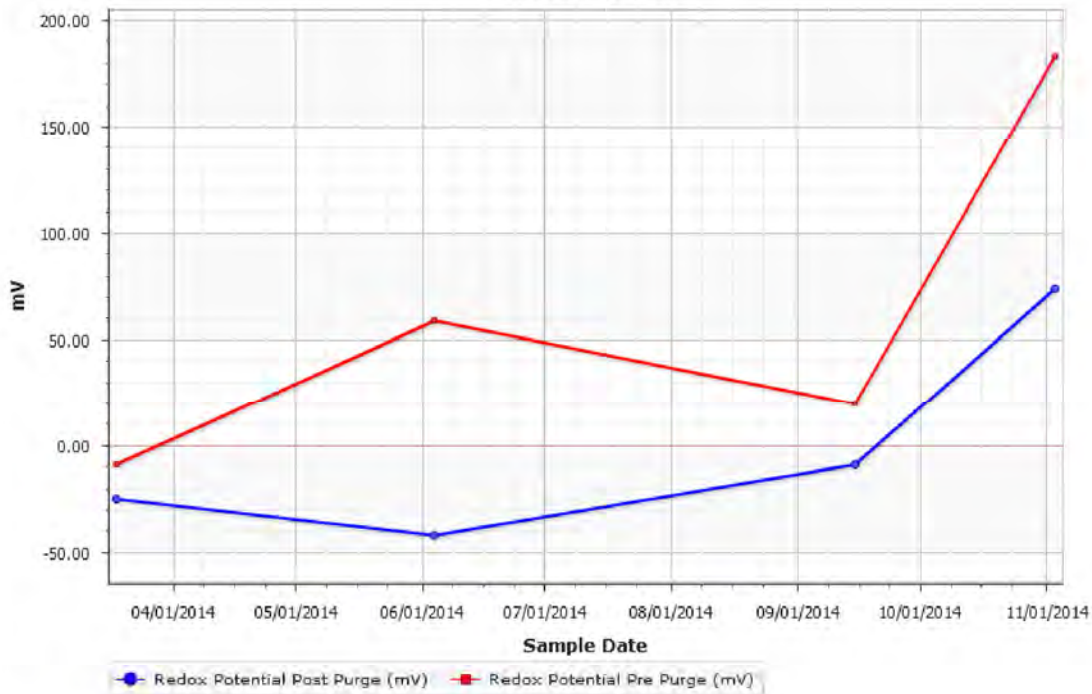
SWMW-112 (Bedrock)

Site: Beacon, NY



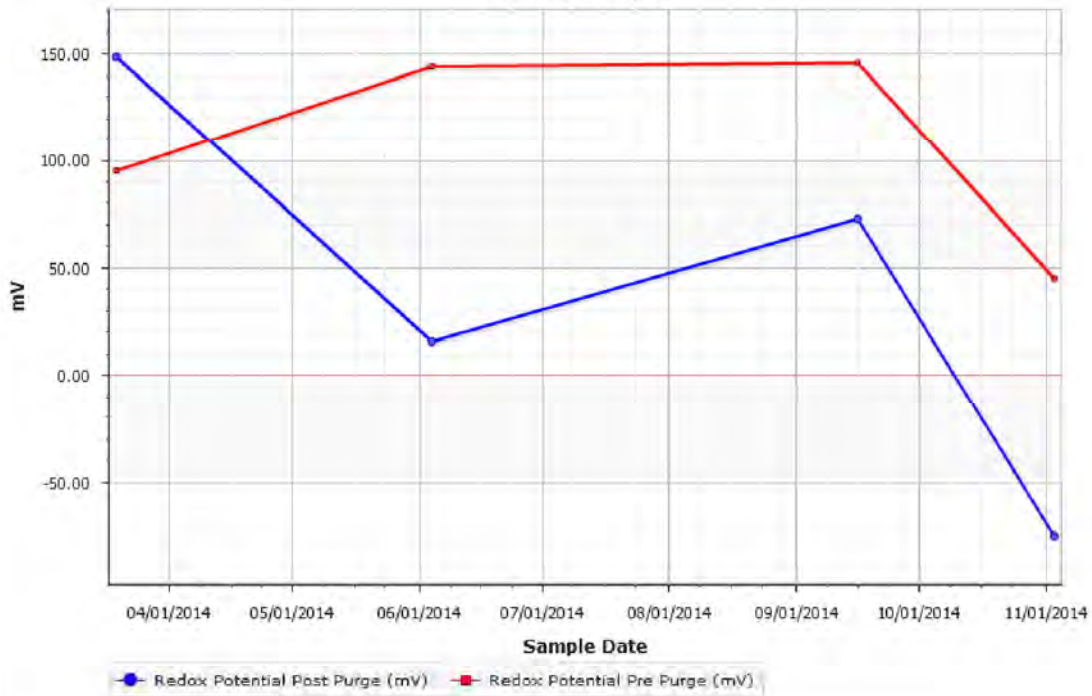
SWMW-114 (Bedrock)

Site: Beacon, NY



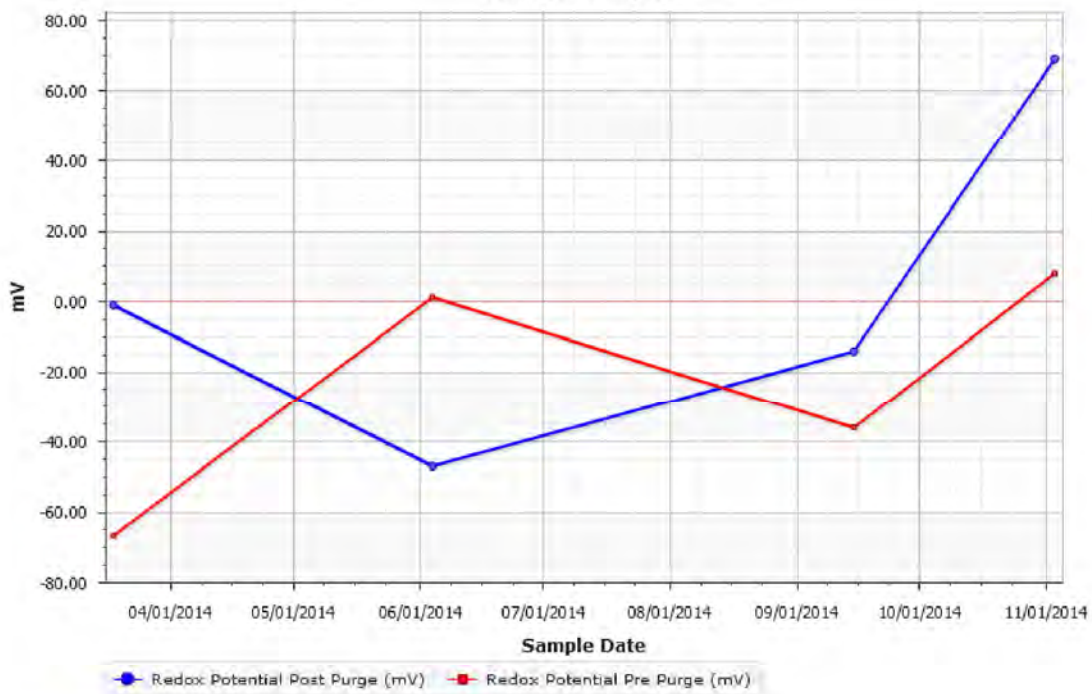
SWMW-123 (Bedrock)

Site: Beacon, NY



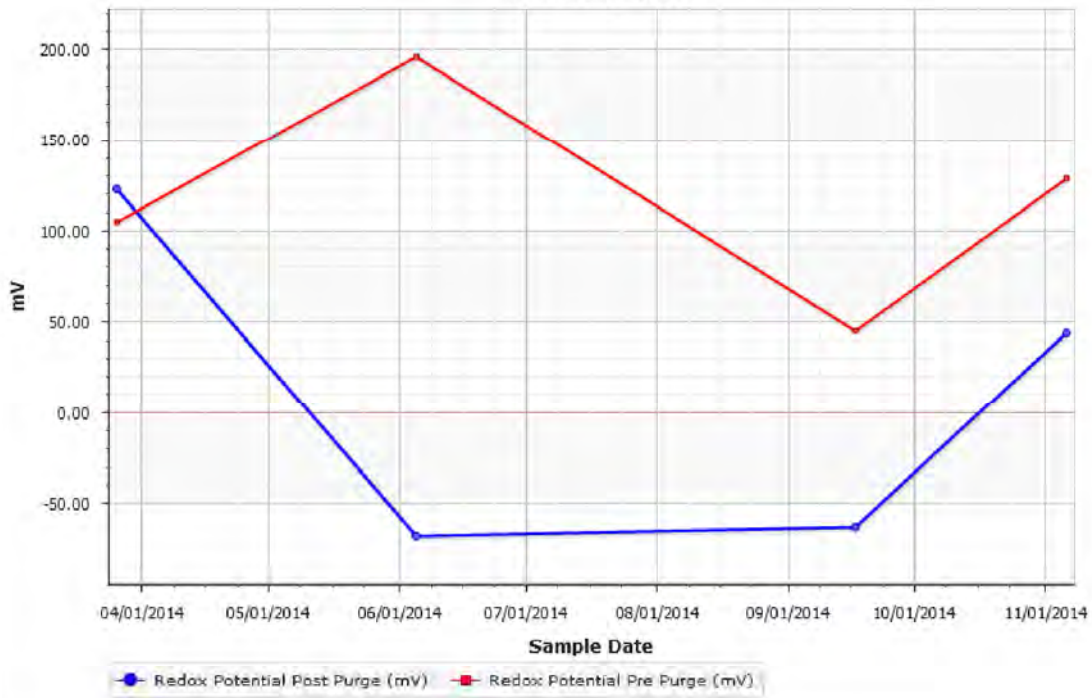
SWMW-125 (Bedrock)

Site: Beacon, NY



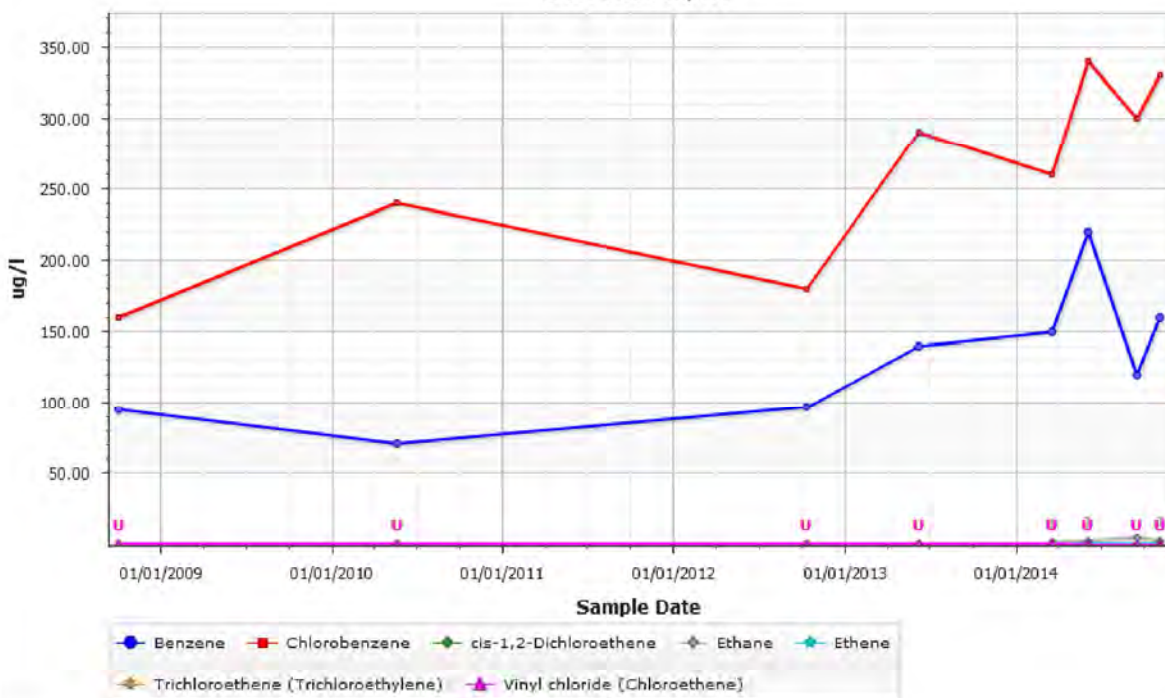
SWMW-126 (Bedrock)

Site: Beacon, NY



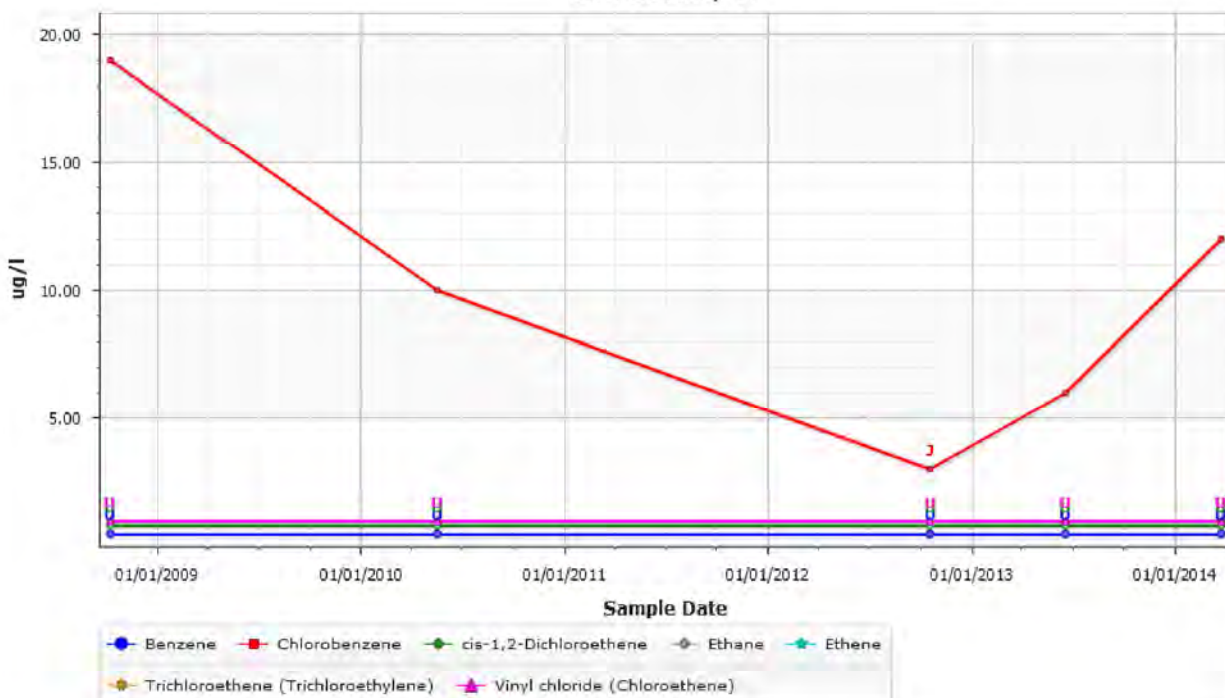
GT-2 (Overburden)

Site: Beacon, NY



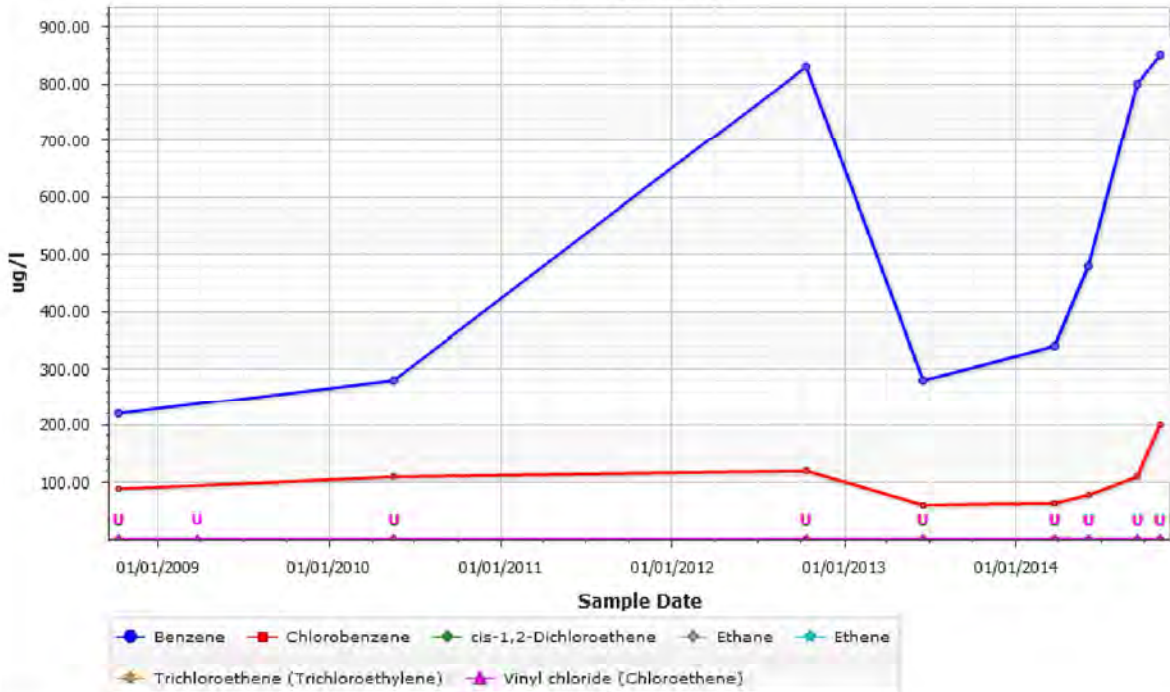
ITMW-24 (Overburden)

Site: Beacon, NY



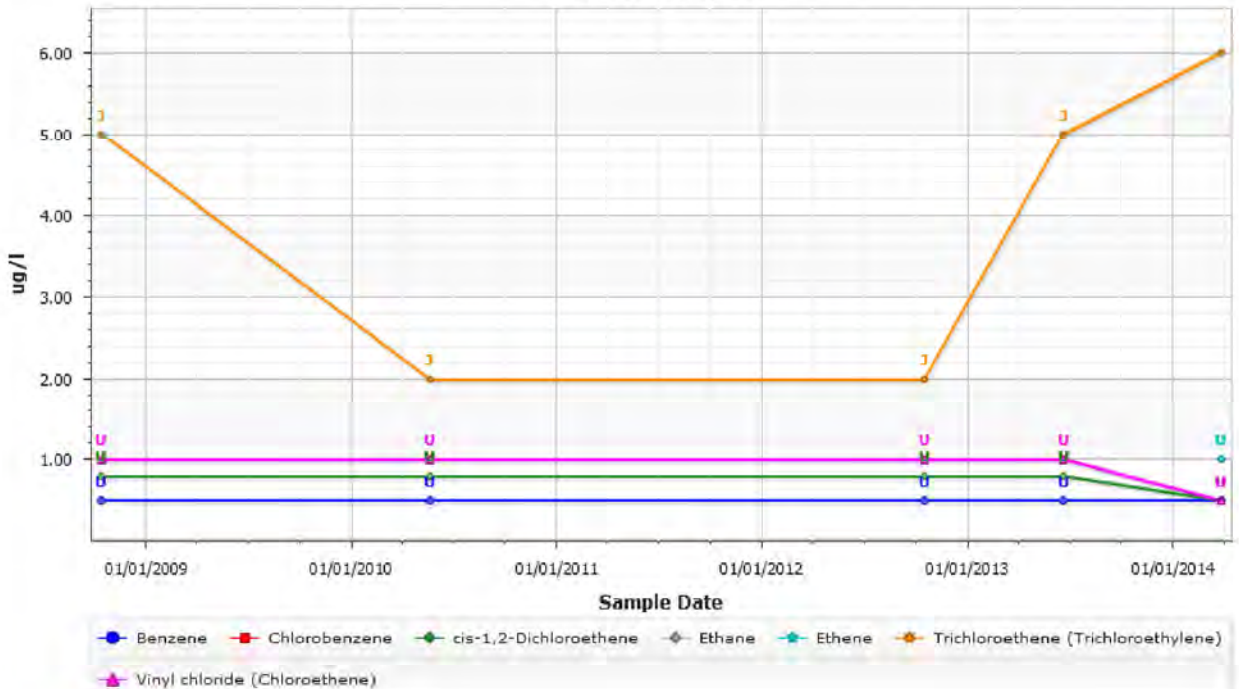
ITMW-25 (Overburden)

Site: Beacon, NY



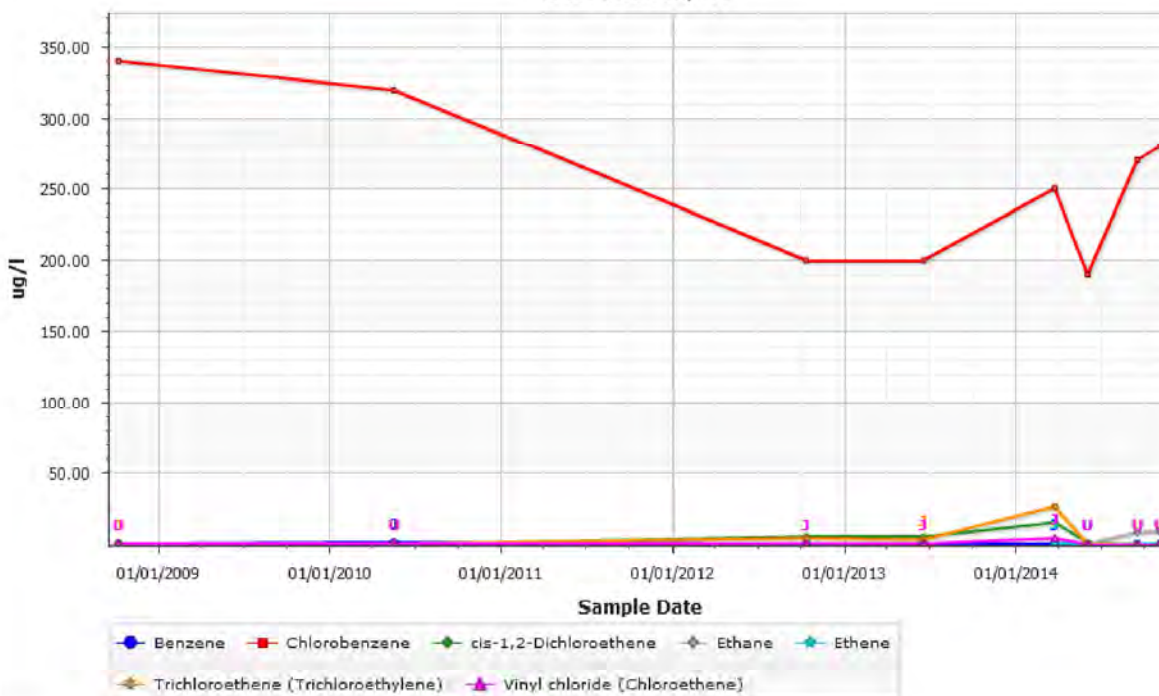
ITMW-5 (Overburden)

Site: Beacon, NY



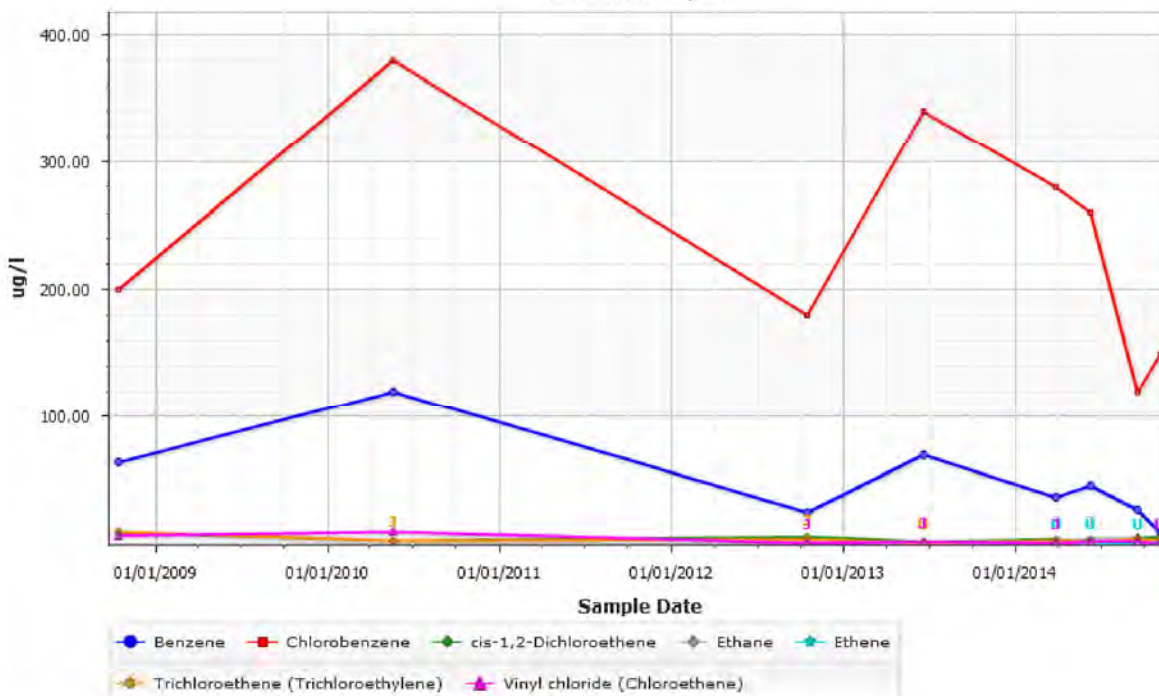
SWMW-10 (Overburden)

Site: Beacon, NY



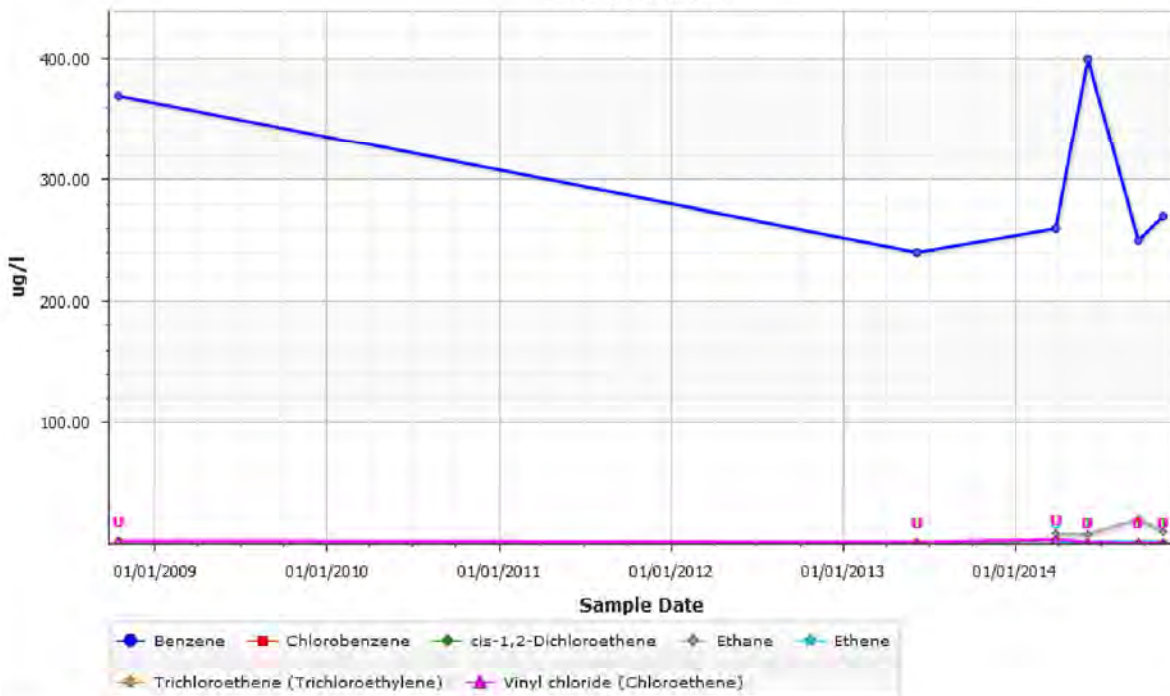
SWMW-15 (Overburden)

Site: Beacon, NY



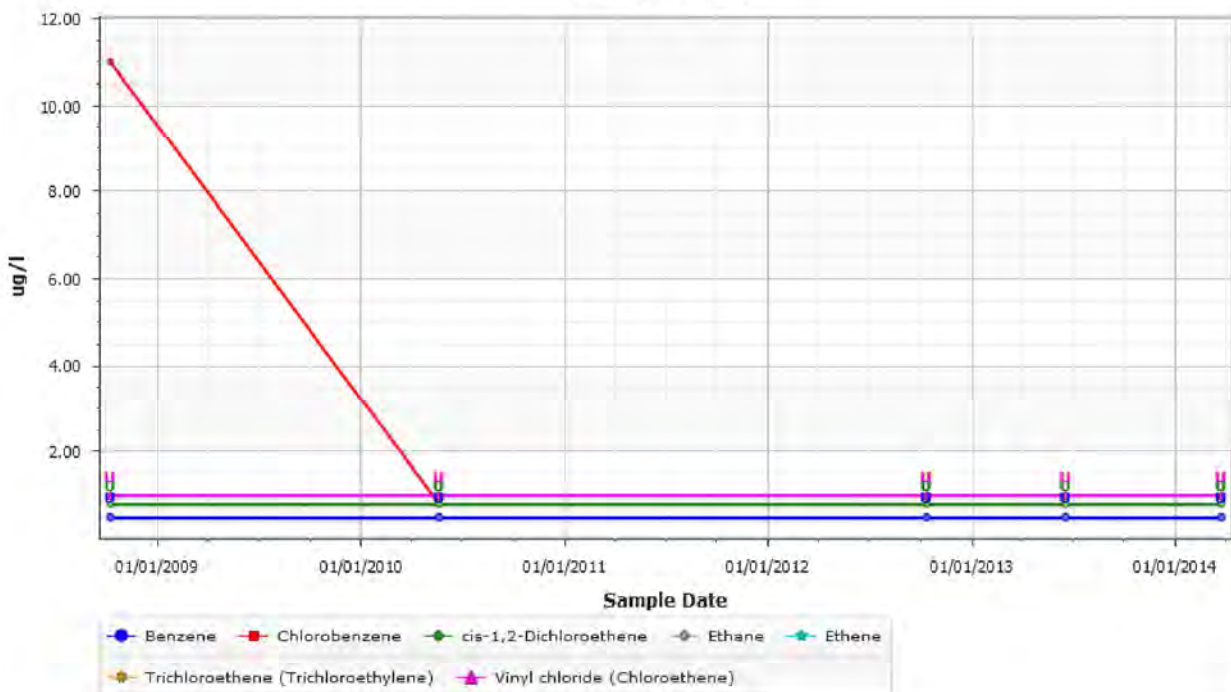
SWMW-21 (Overburden)

Site: Beacon, NY



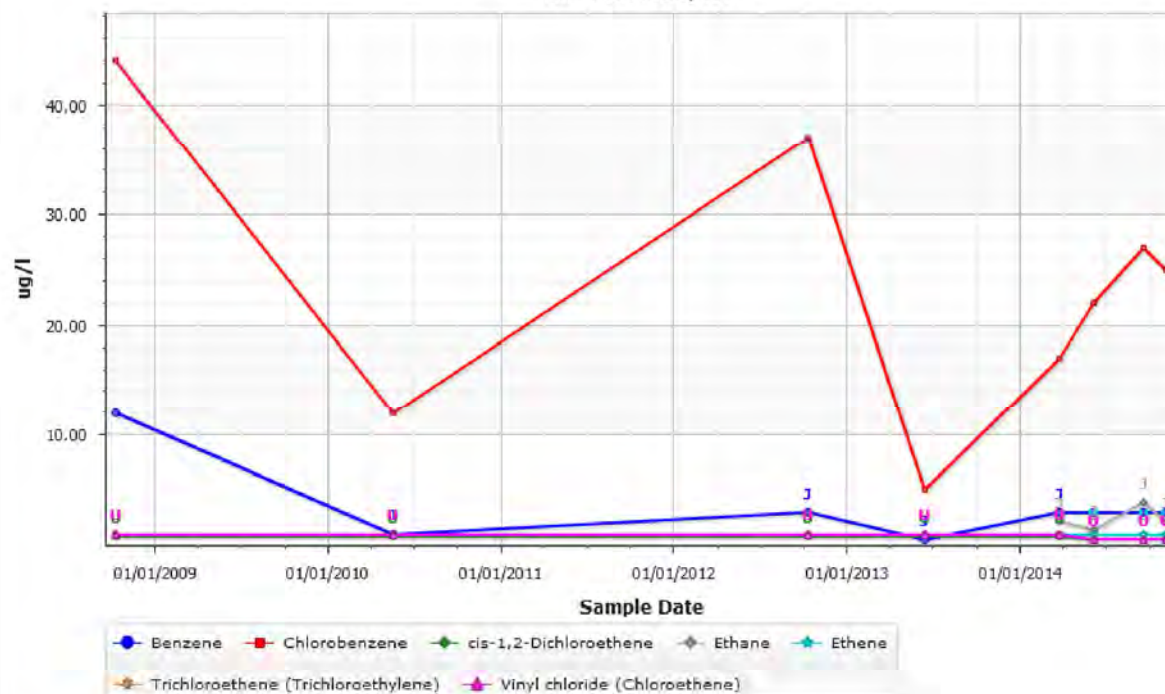
SWMW-25 (Overburden)

Site: Beacon, NY



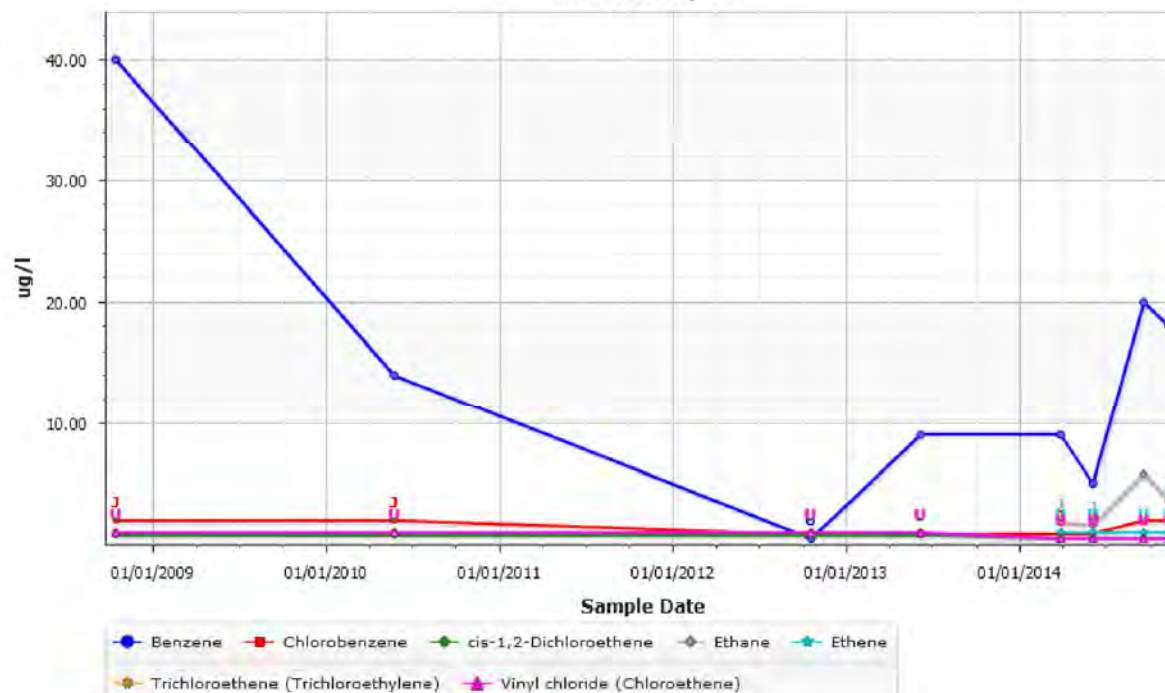
SWMW-28 (Overburden)

Site: Beacon, NY



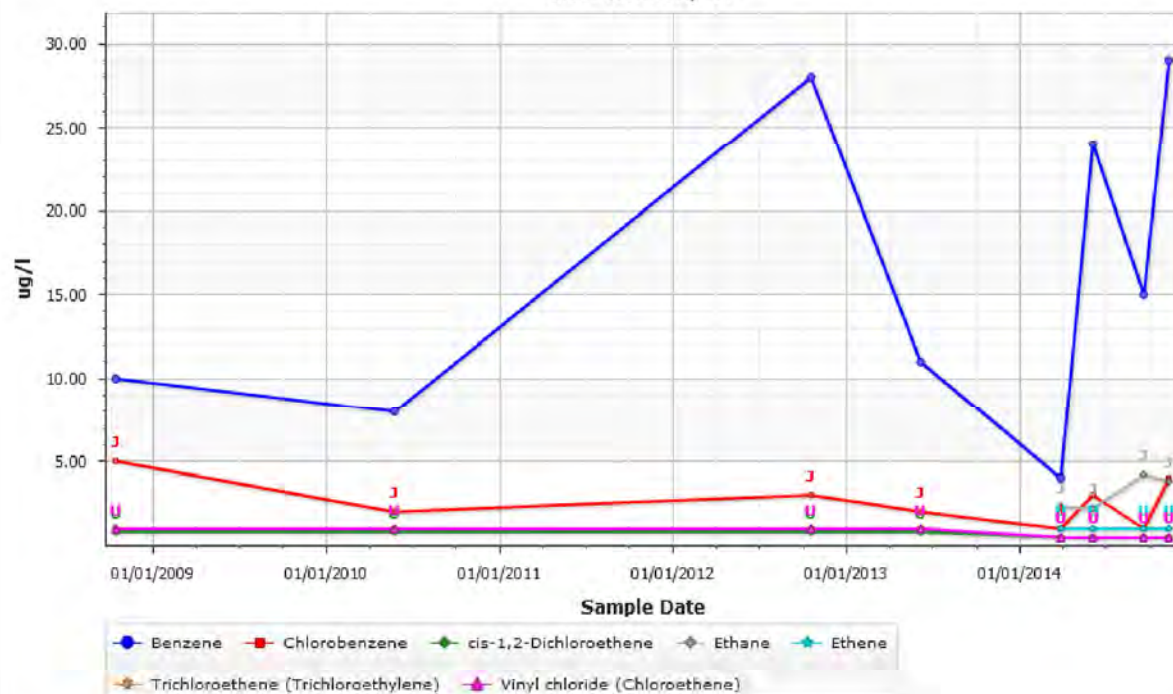
SWMW-30 (Overburden)

Site: Beacon, NY



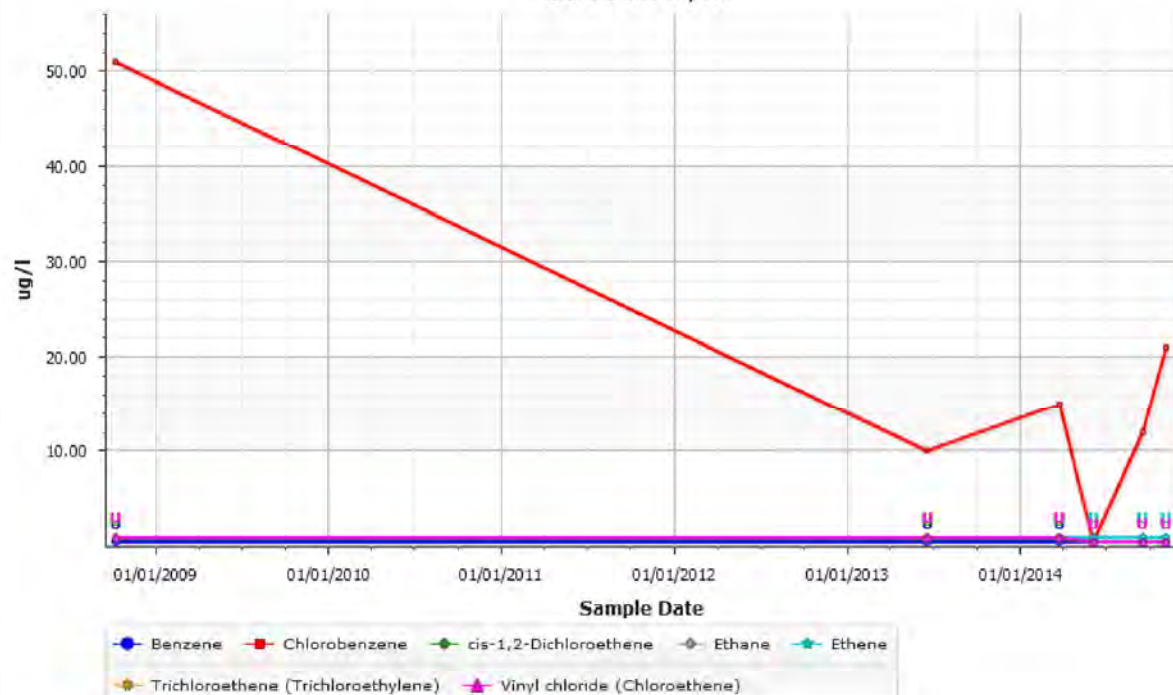
SWMW-31 (Overburden)

Site: Beacon, NY



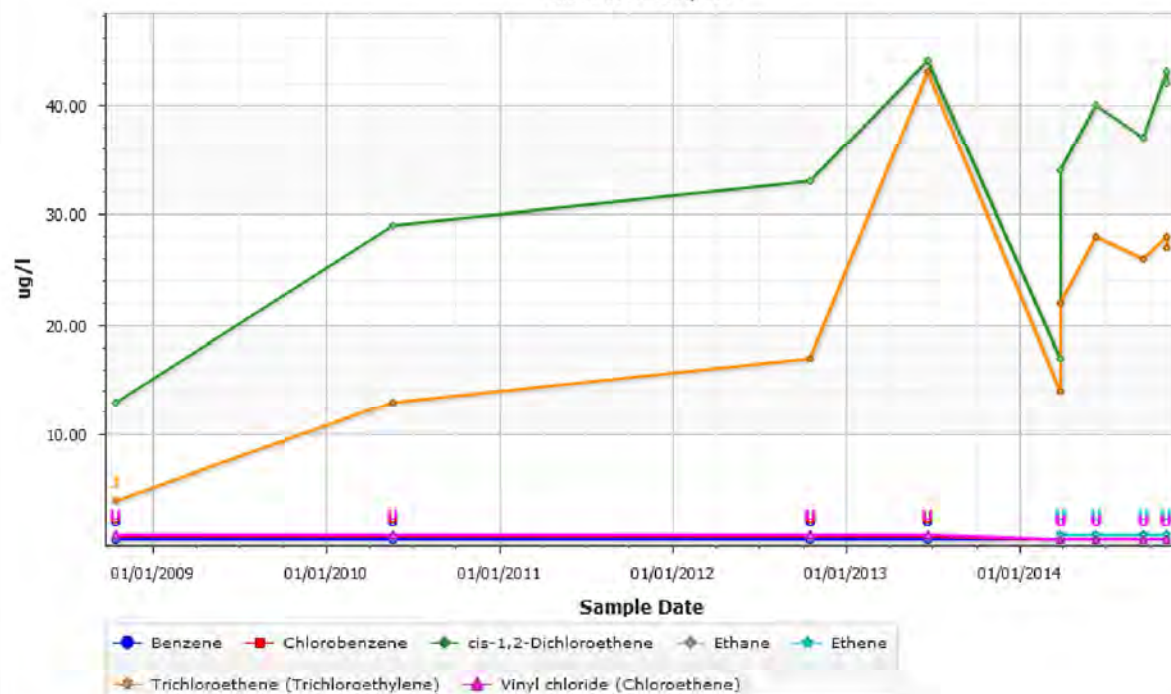
SWMW-48 (Overburden)

Site: Beacon, NY



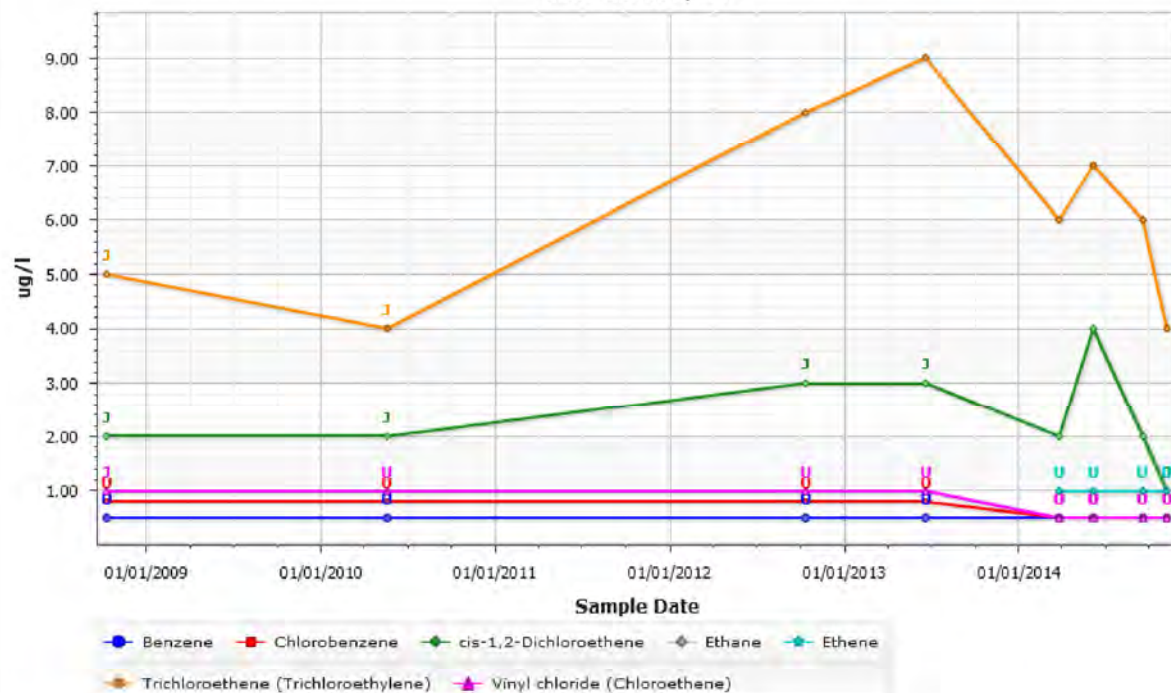
SWMW-58 (Overburden)

Site: Beacon, NY



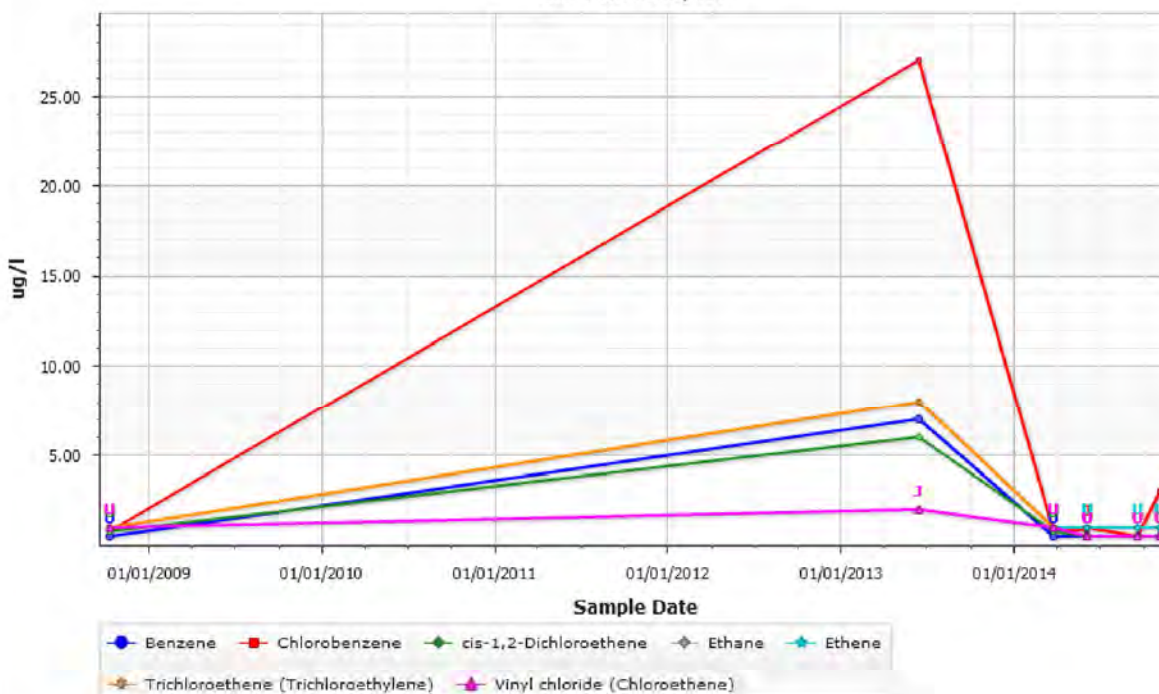
SWMW-62 (Overburden)

Site: Beacon, NY



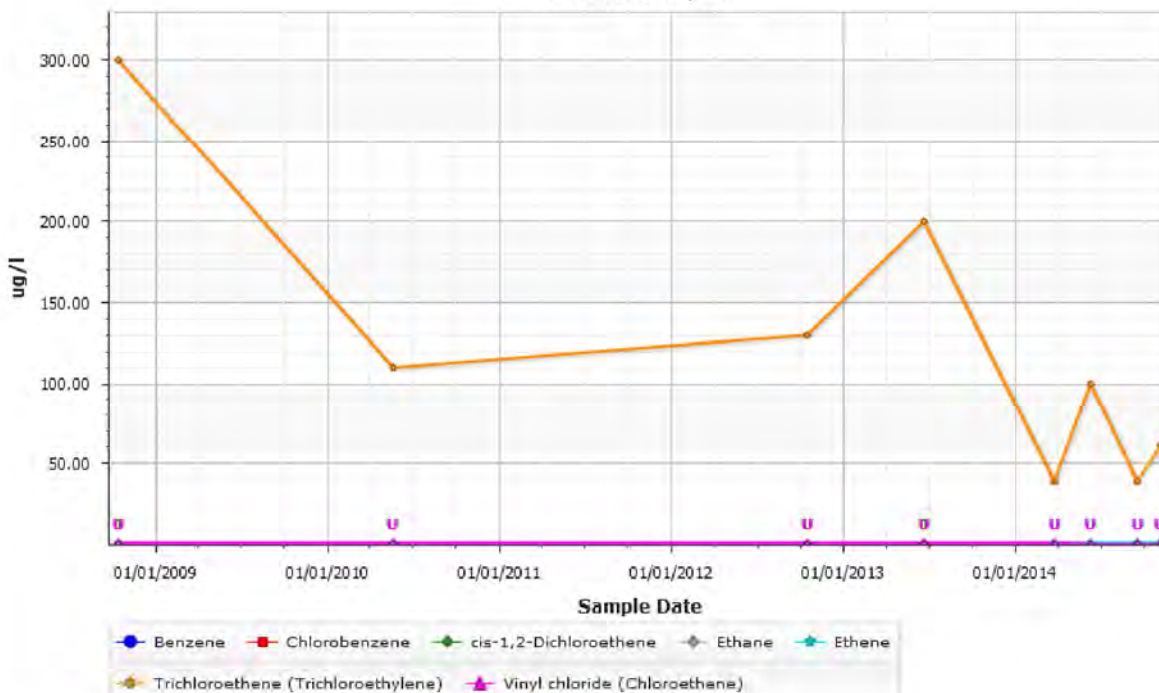
SWMW-65 (Overburden)

Site: Beacon, NY



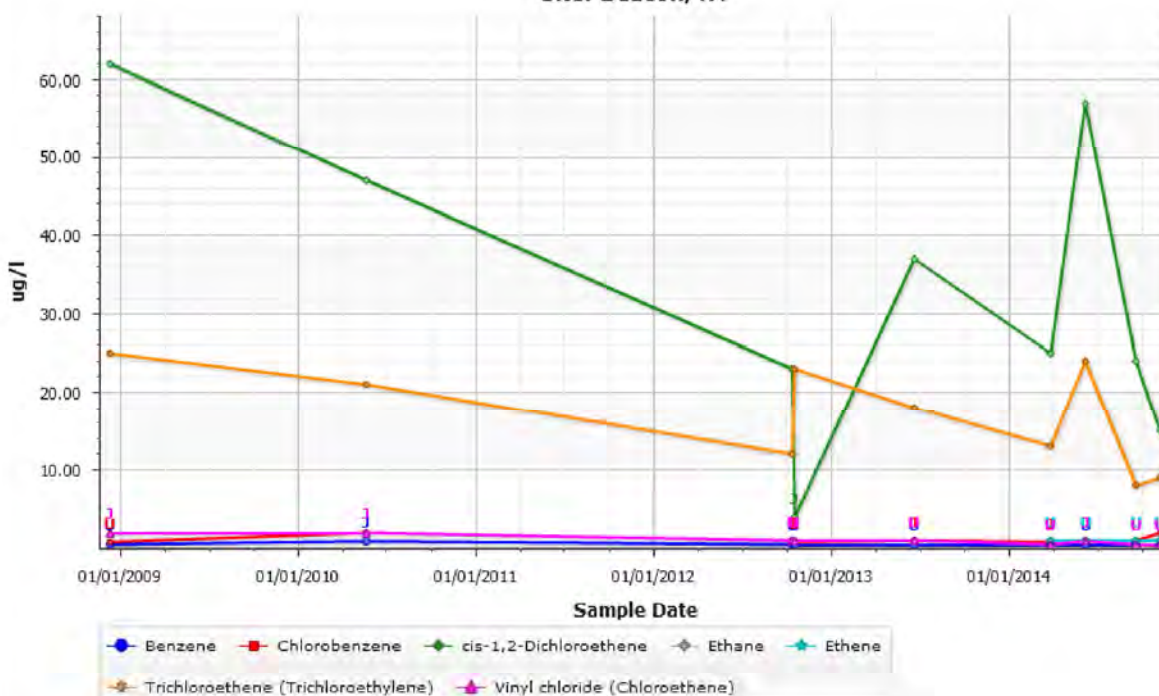
SWMW-67 (Overburden)

Site: Beacon, NY



SWMW-113 (Overburden)

Site: Beacon, NY



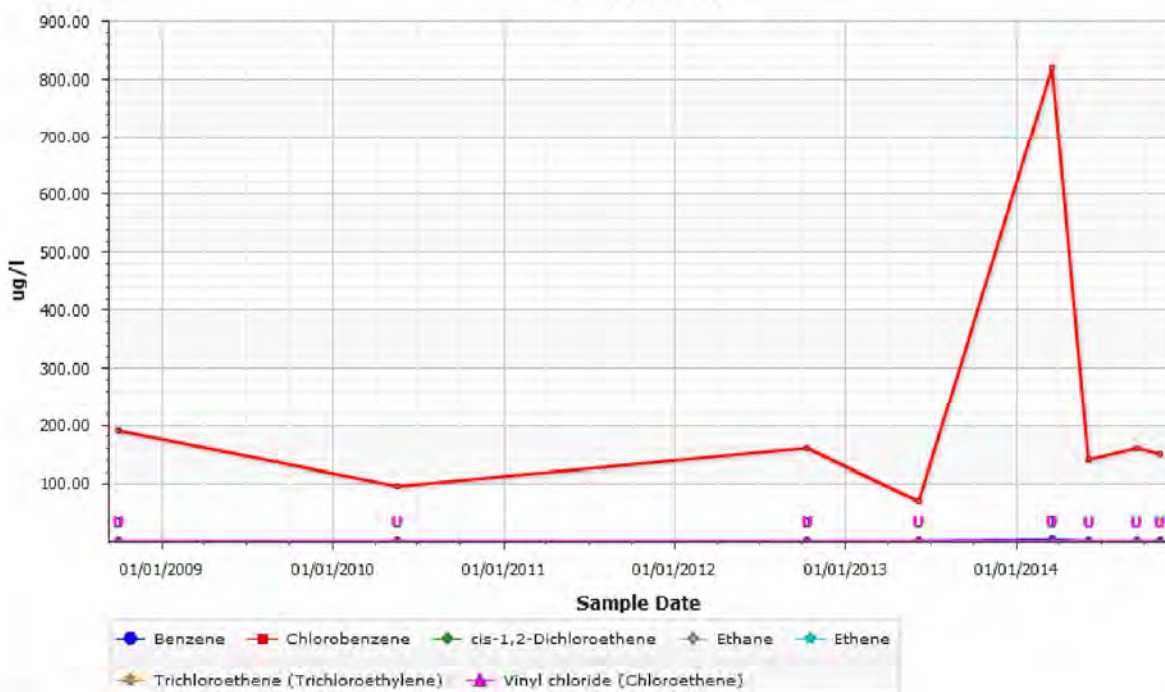
SWMW-71 (Overburden)

Site: Beacon, NY



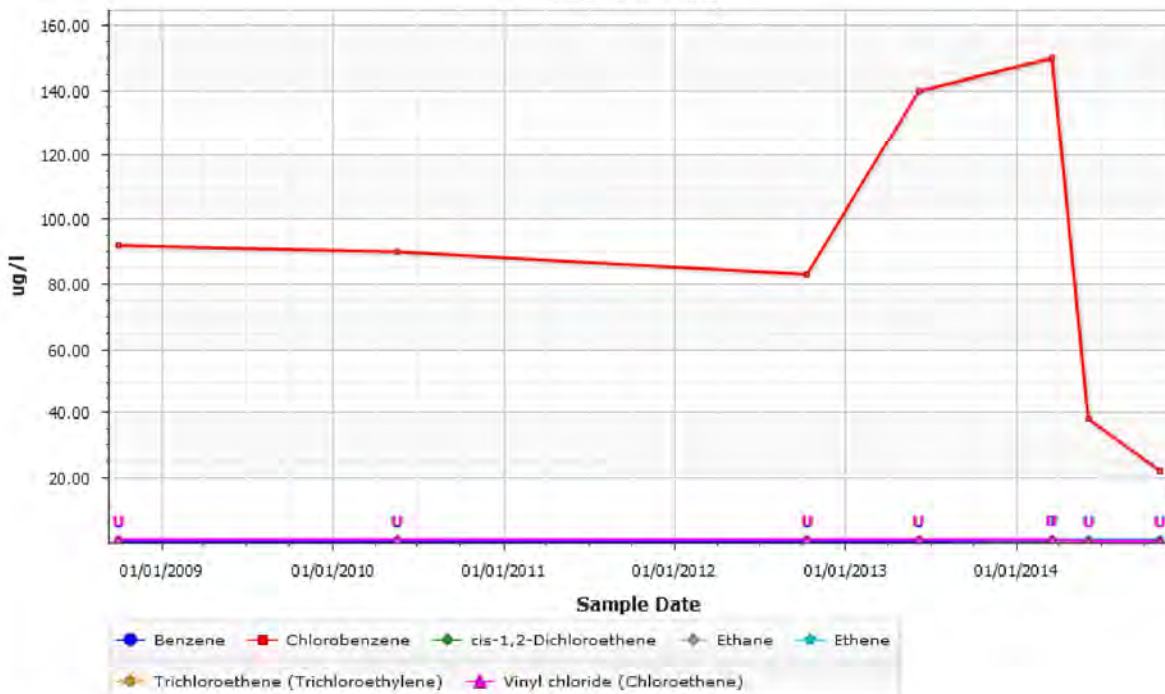
Unknown Well 1 (Overburden)

Site: Beacon, NY



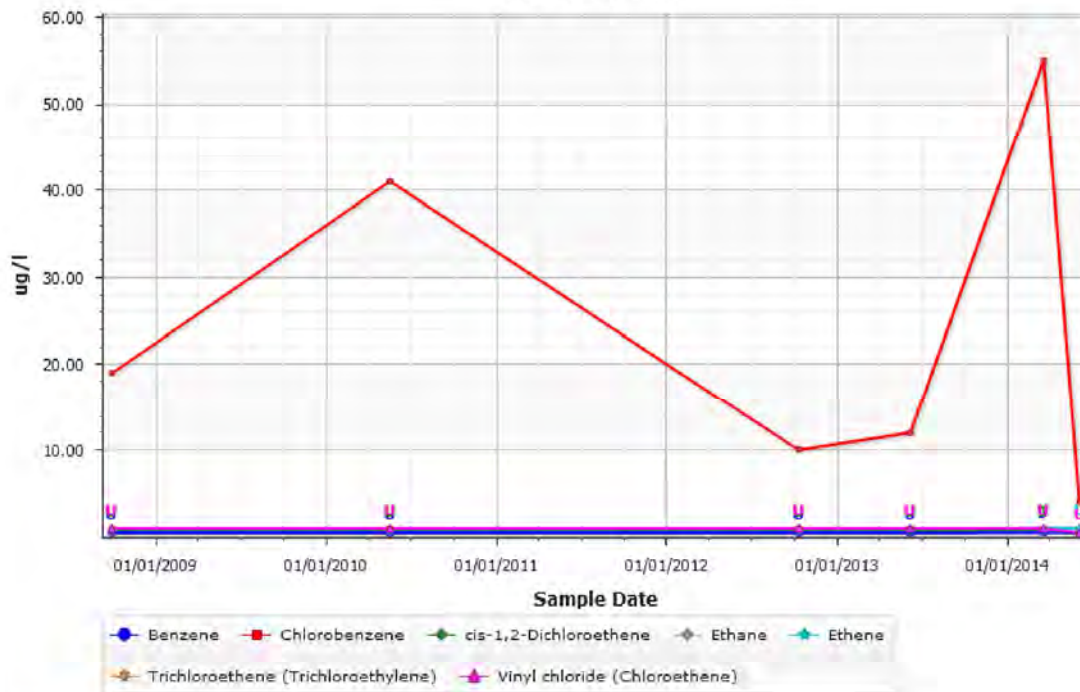
Unknown Well 2 (Overburden)

Site: Beacon, NY



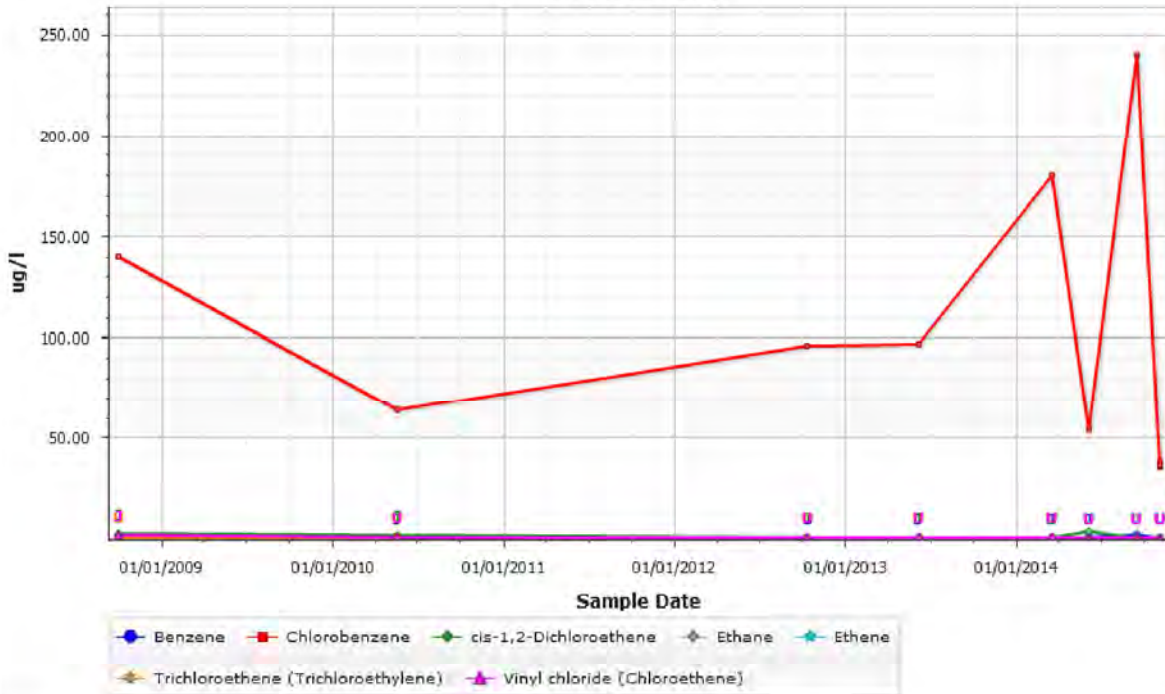
Unknown Well 3 (Overburden)

Site: Beacon, NY



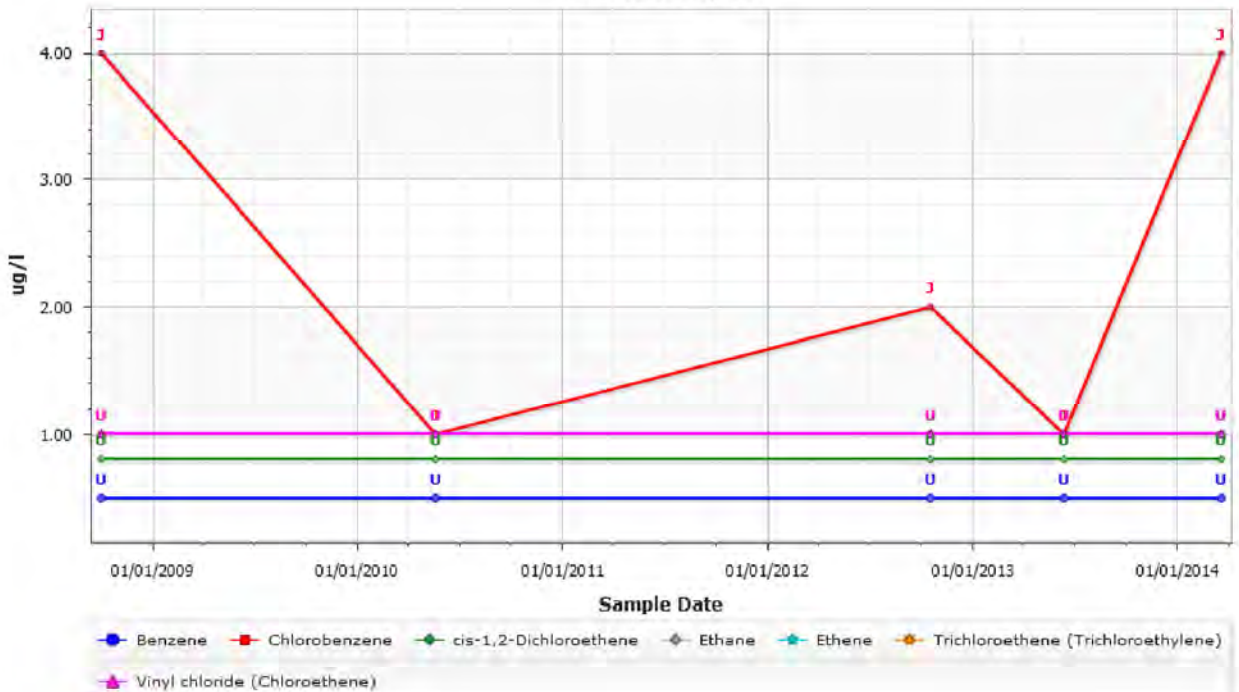
ITMW-13 (Bedrock)

Site: Beacon, NY



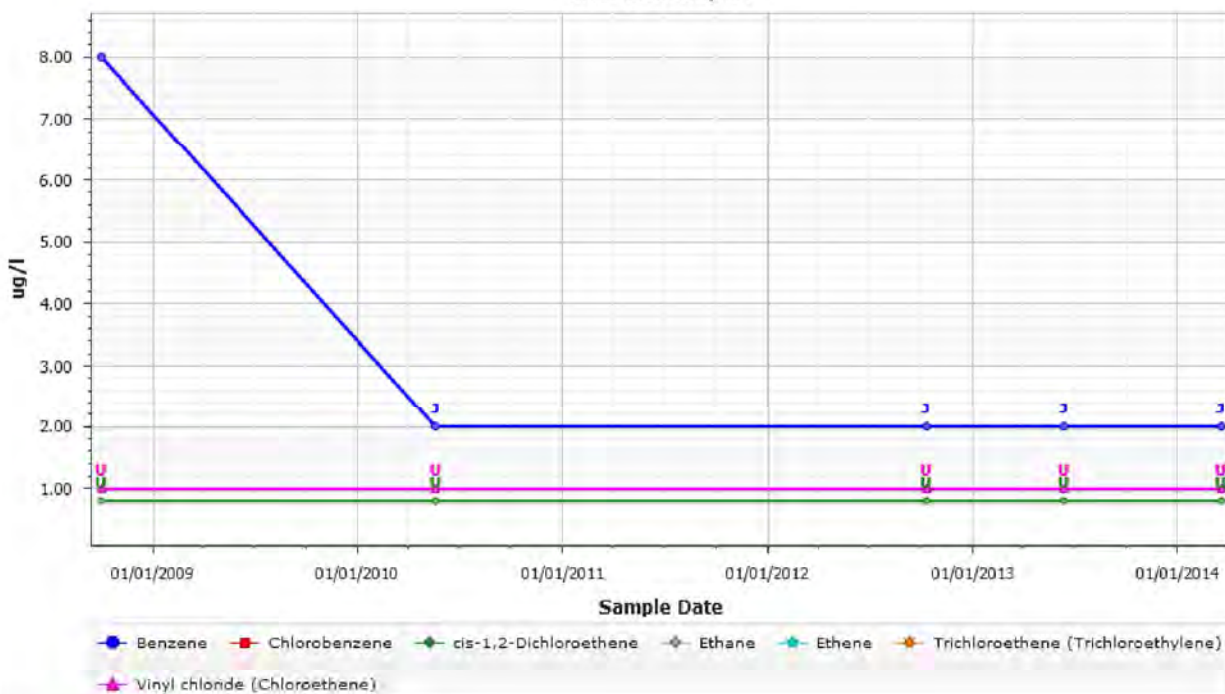
ITMW-30 (Bedrock)

Site: Beacon, NY



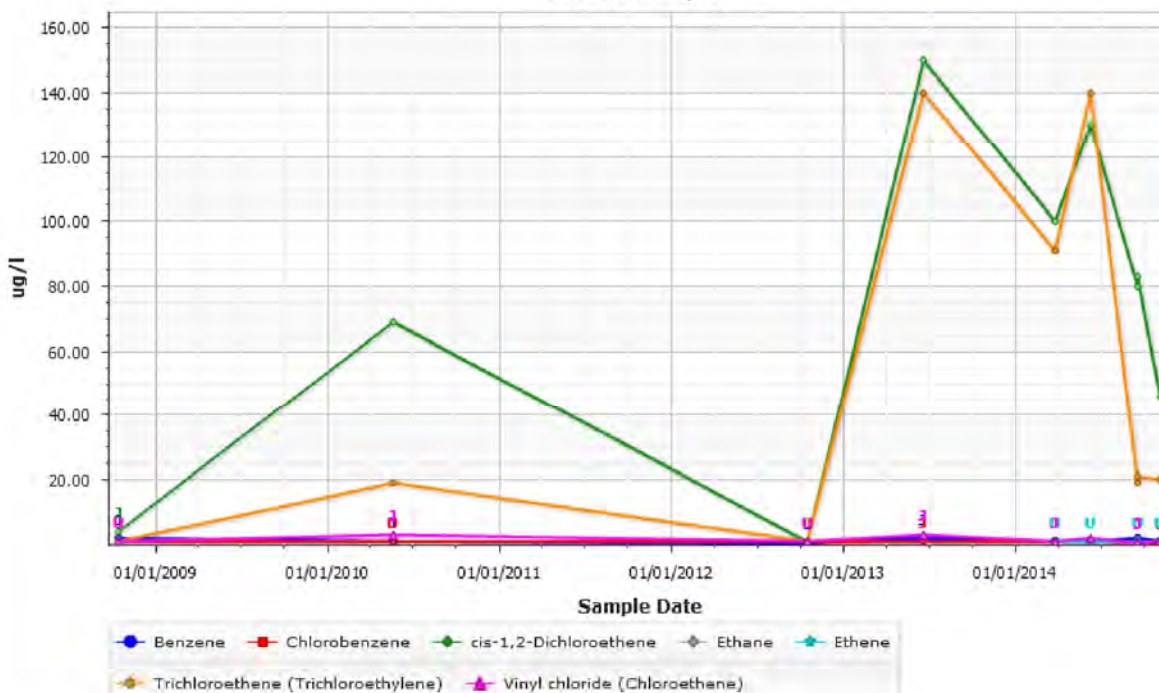
ITMW-31 (Bedrock)

Site: Beacon, NY



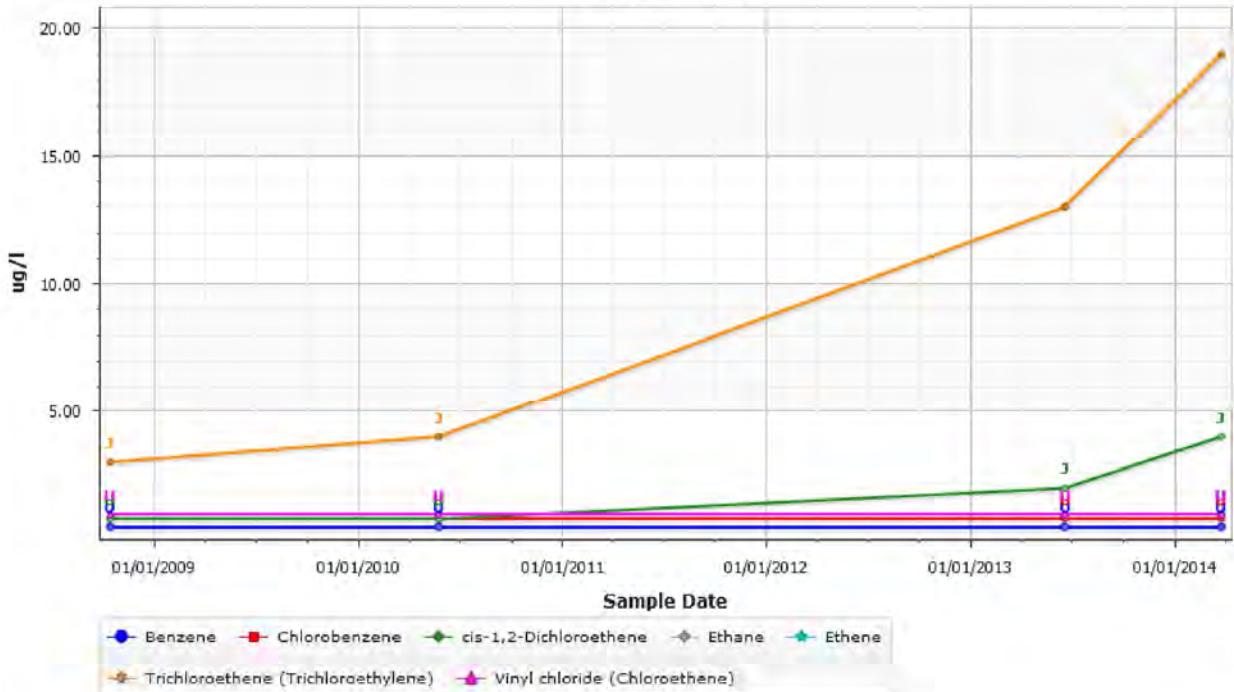
ITMW-6 (Bedrock)

Site: Beacon, NY



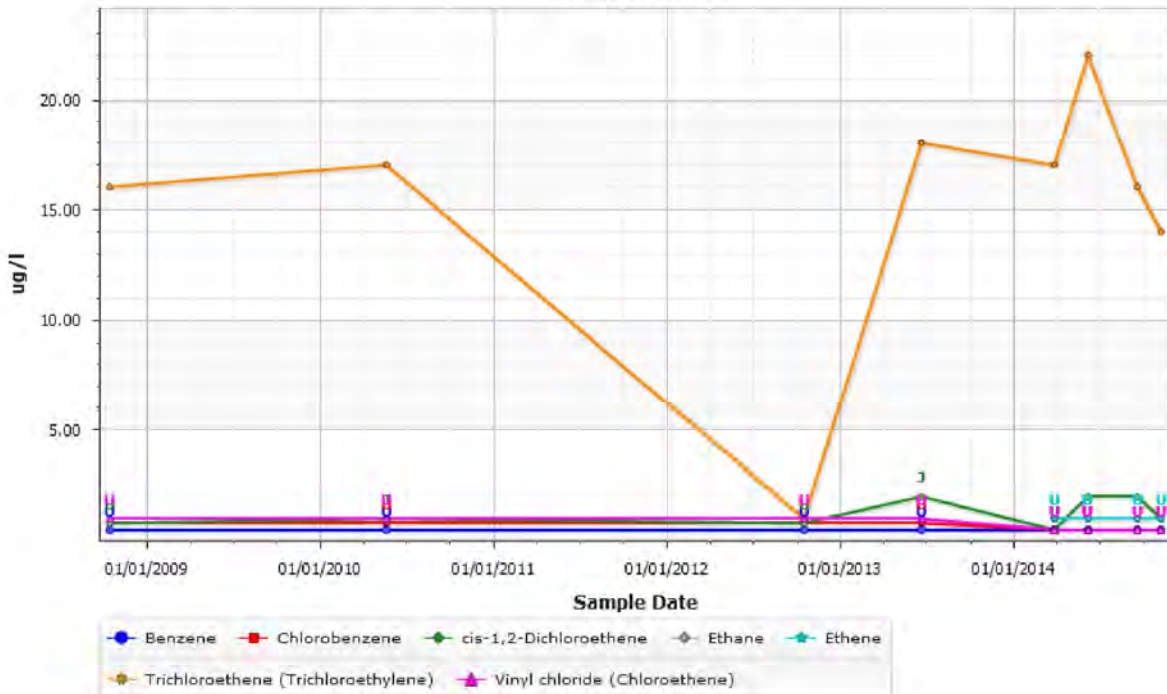
SWMW-13 (Bedrock)

Site: Beacon, NY



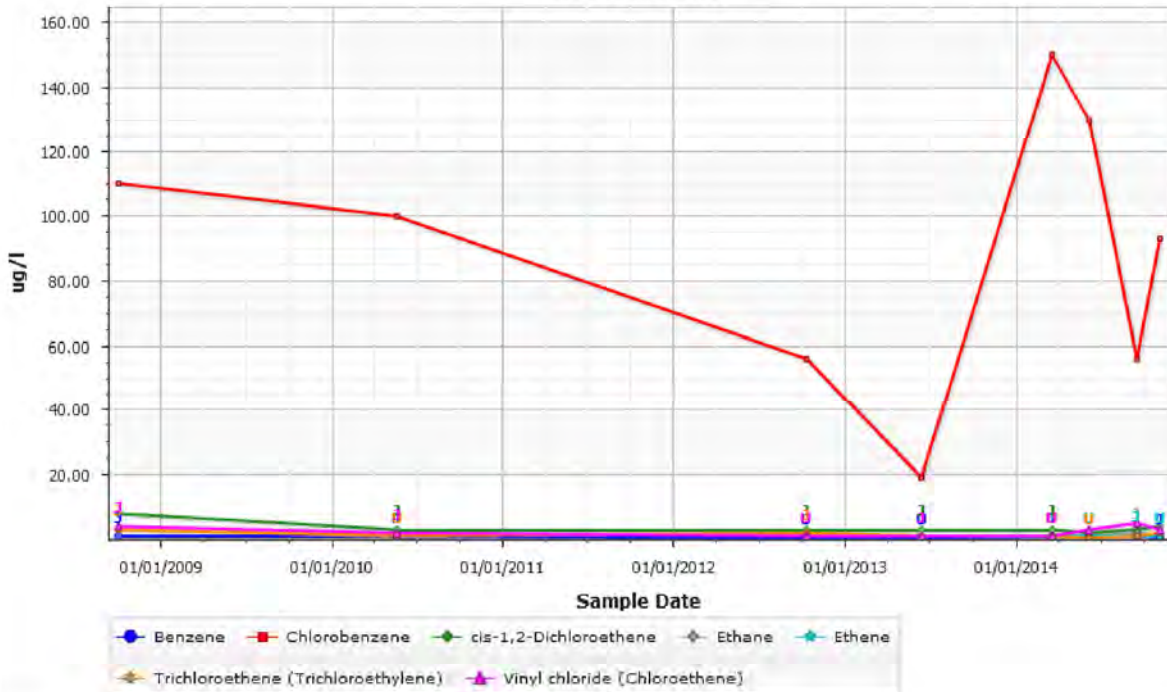
SWMW-14 (Bedrock)

Site: Beacon, NY



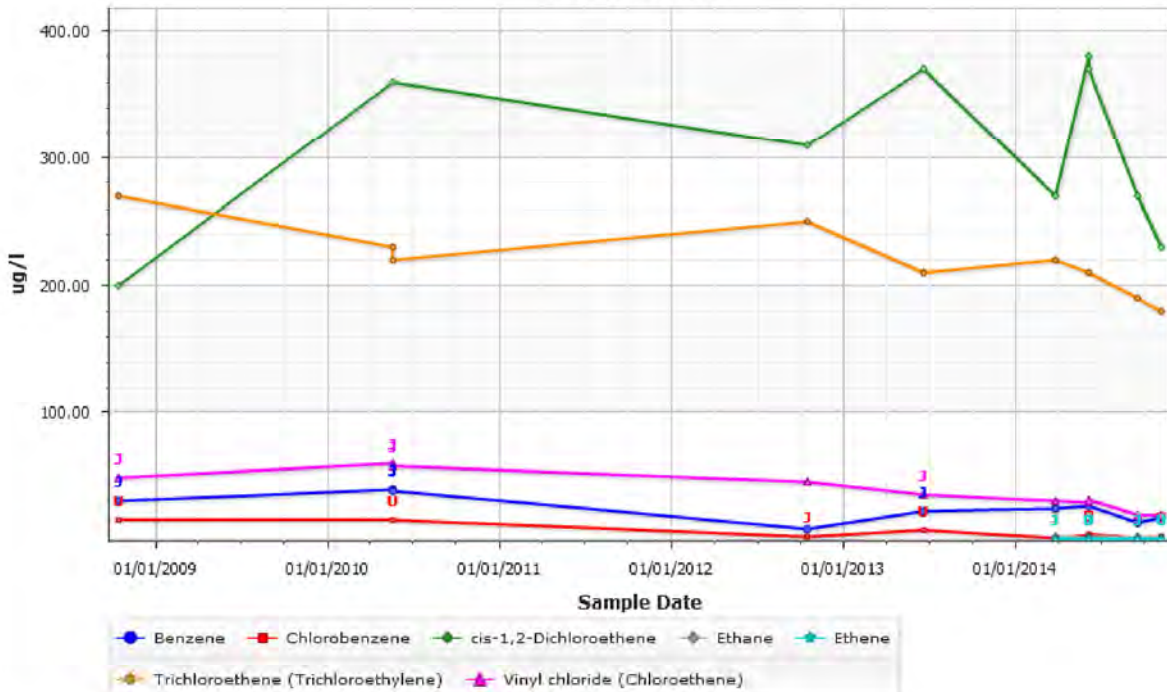
SWMW-2 (Bedrock)

Site: Beacon, NY



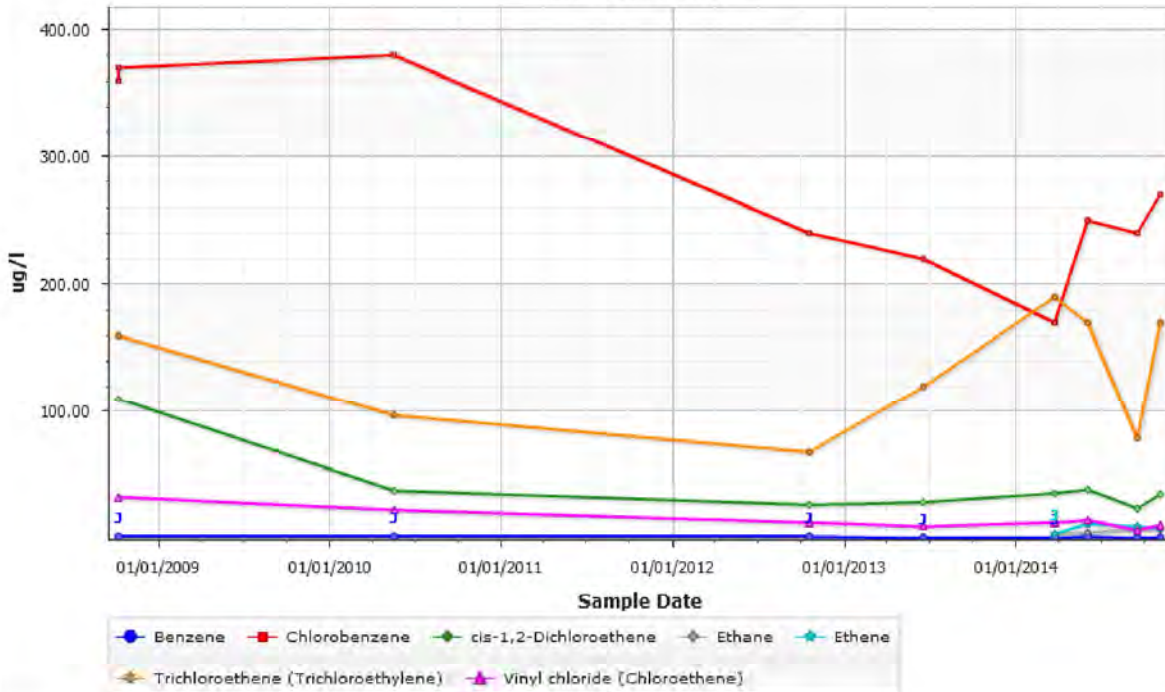
SWMW-41 (Bedrock)

Site: Beacon, NY



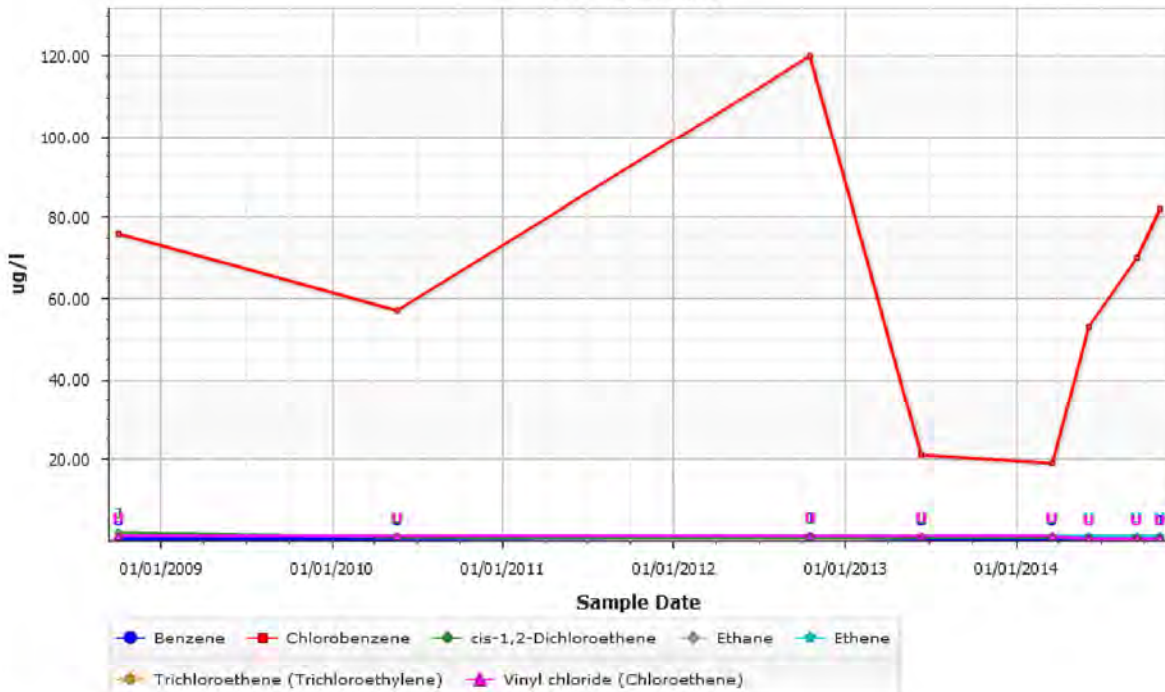
SWMW-44 (Bedrock)

Site: Beacon, NY



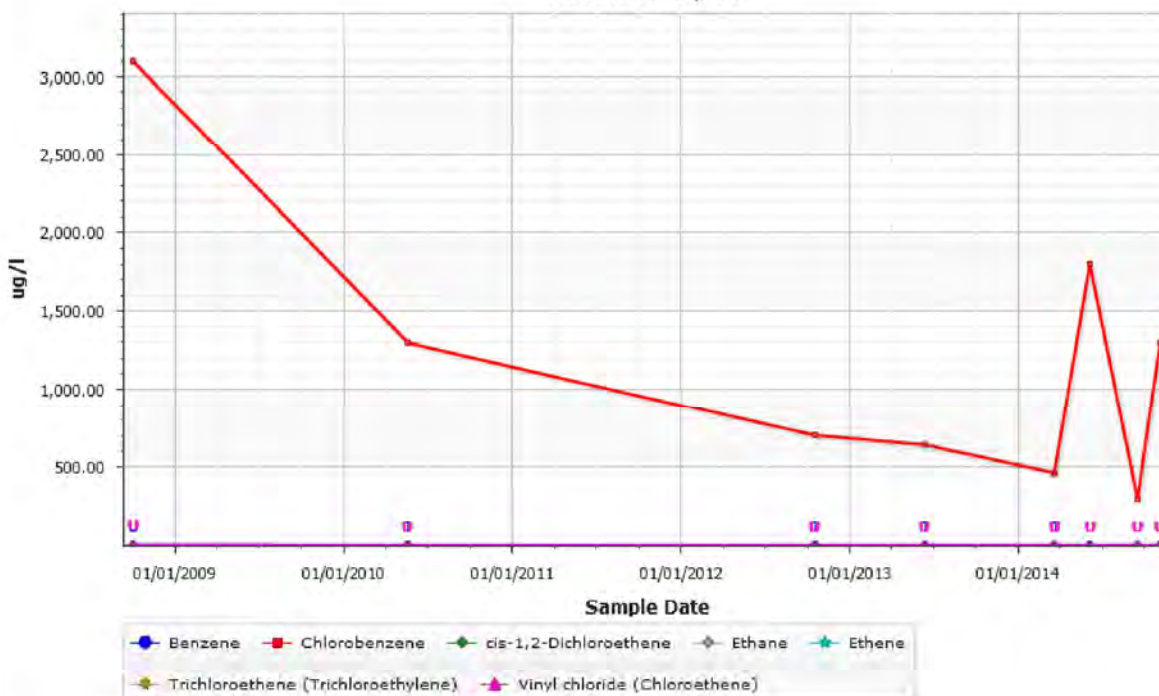
SWMW-45 (Bedrock)

Site: Beacon, NY



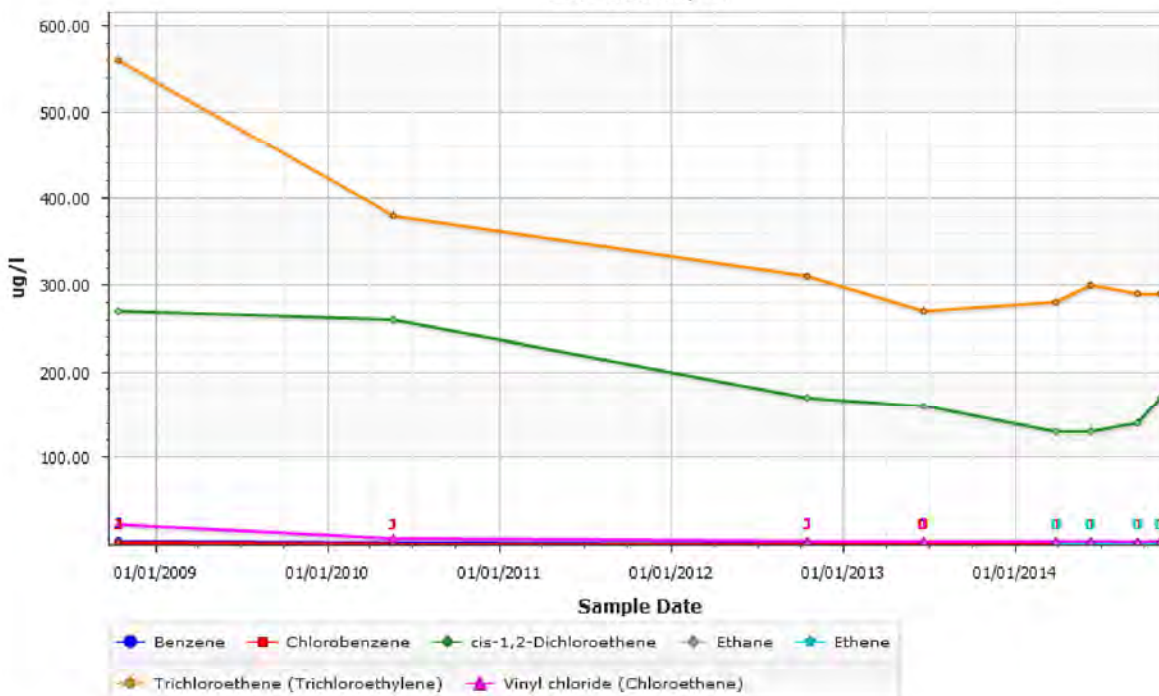
SWMW-55 (Bedrock)

Site: Beacon, NY



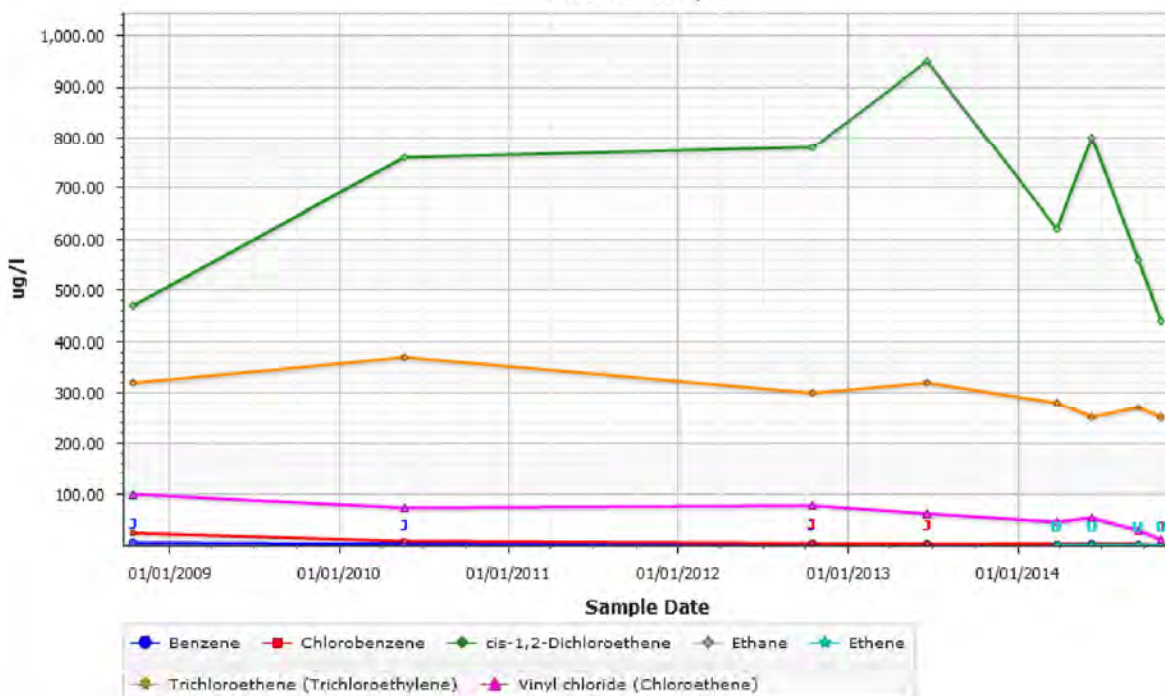
SWMW-56 (Bedrock)

Site: Beacon, NY



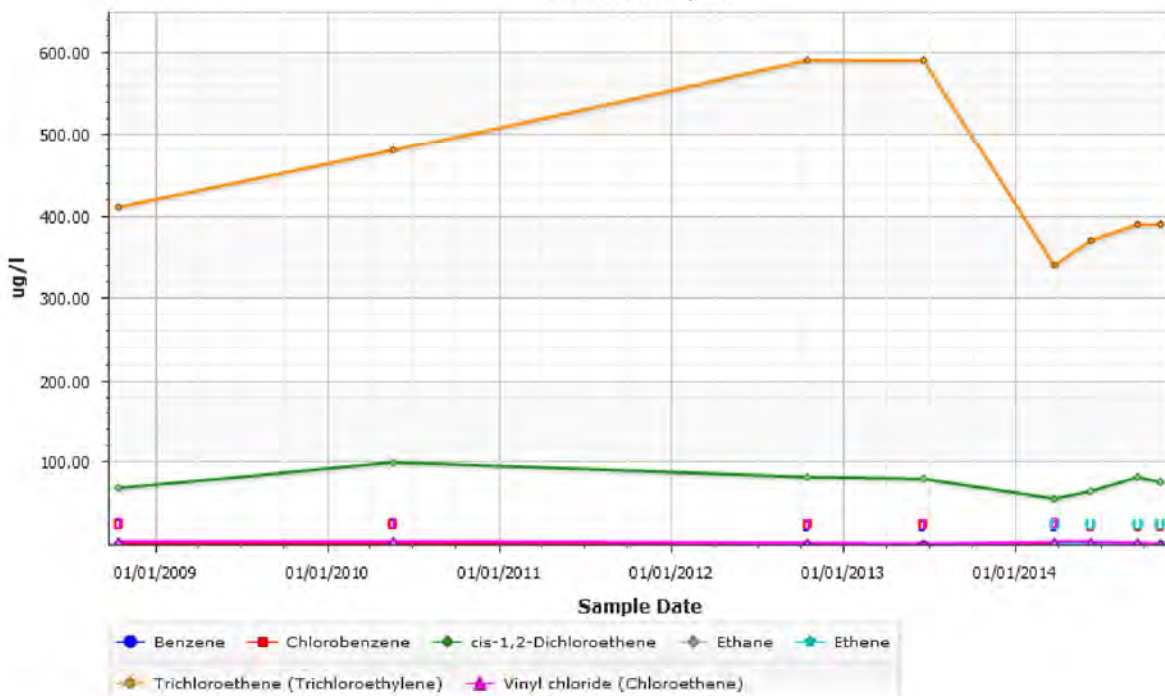
SWMW-66 (Bedrock)

Site: Beacon, NY



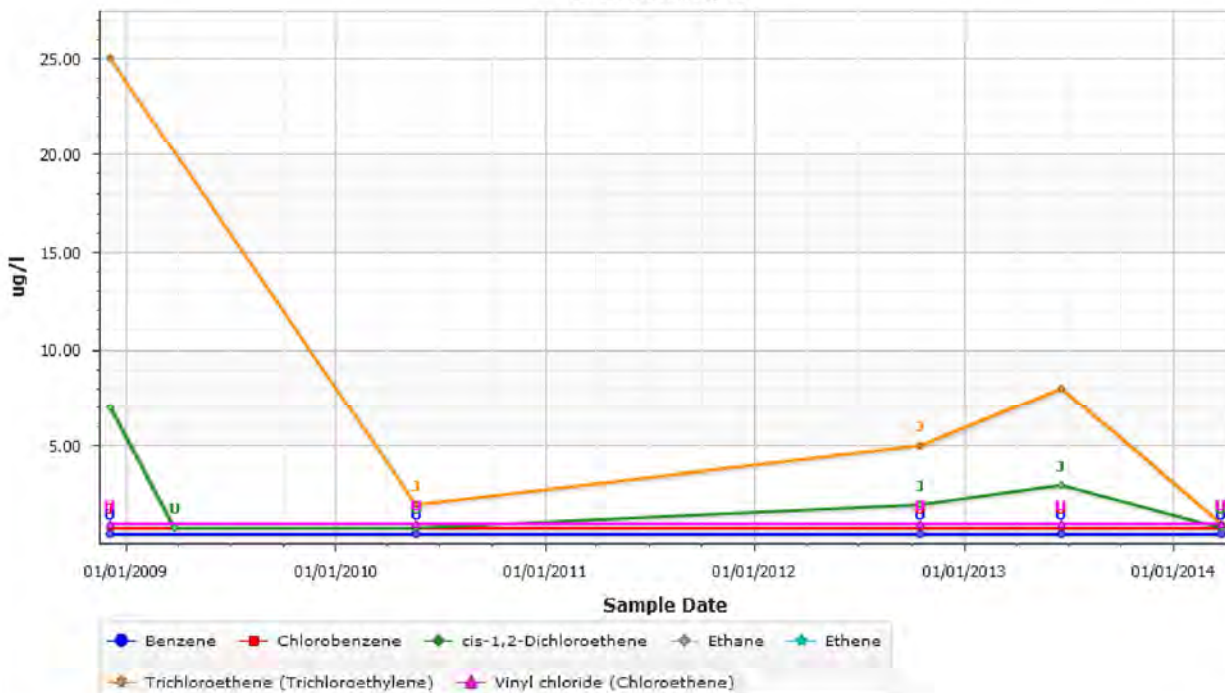
SWMW-68 (Bedrock)

Site: Beacon, NY



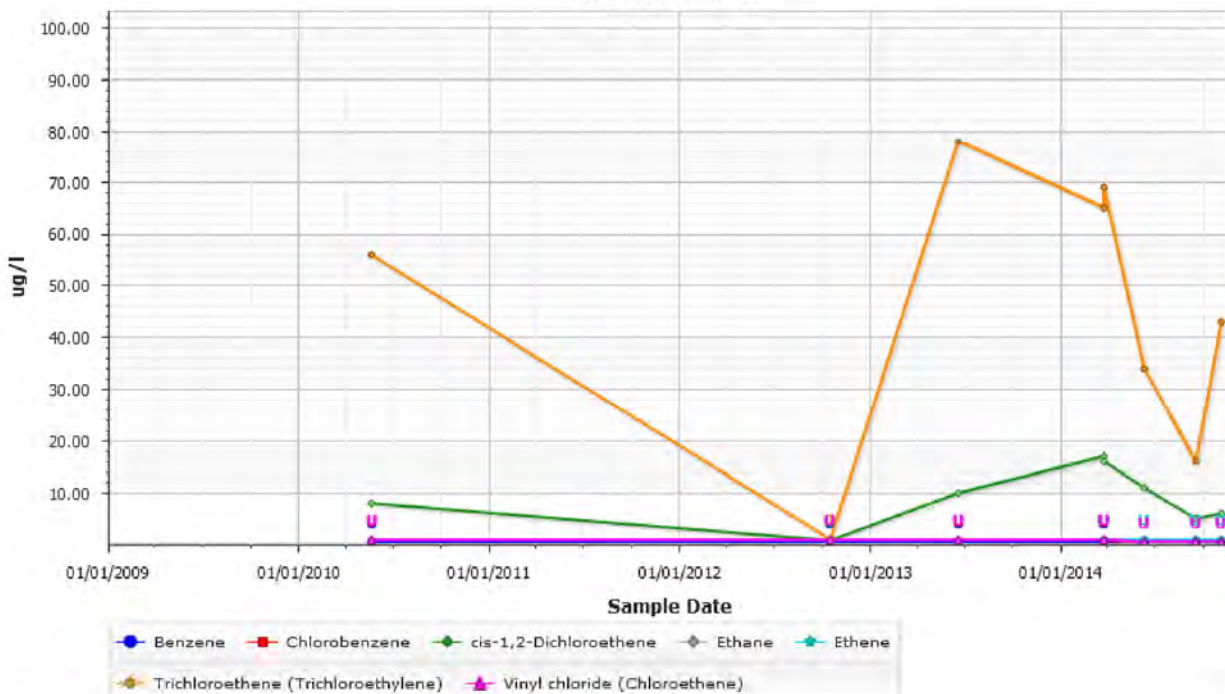
SWMW-103 (Bedrock)

Site: Beacon, NY



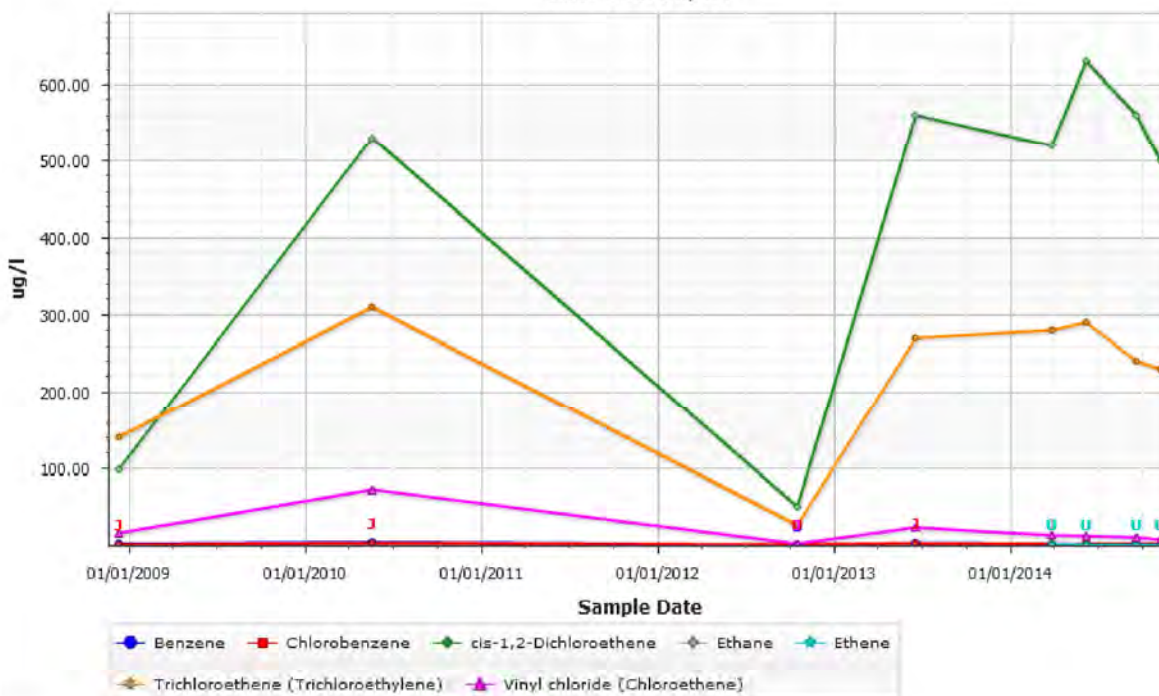
SWMW-111 (Bedrock)

Site: Beacon, NY



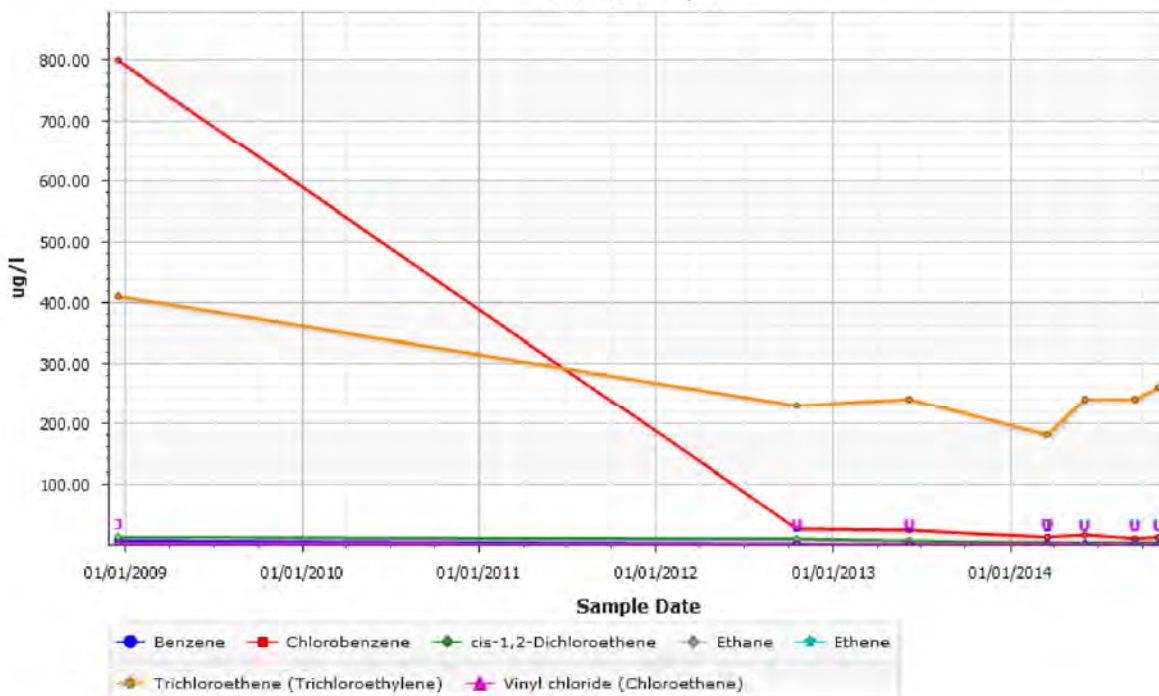
SWMW-112 (Bedrock)

Site: Beacon, NY



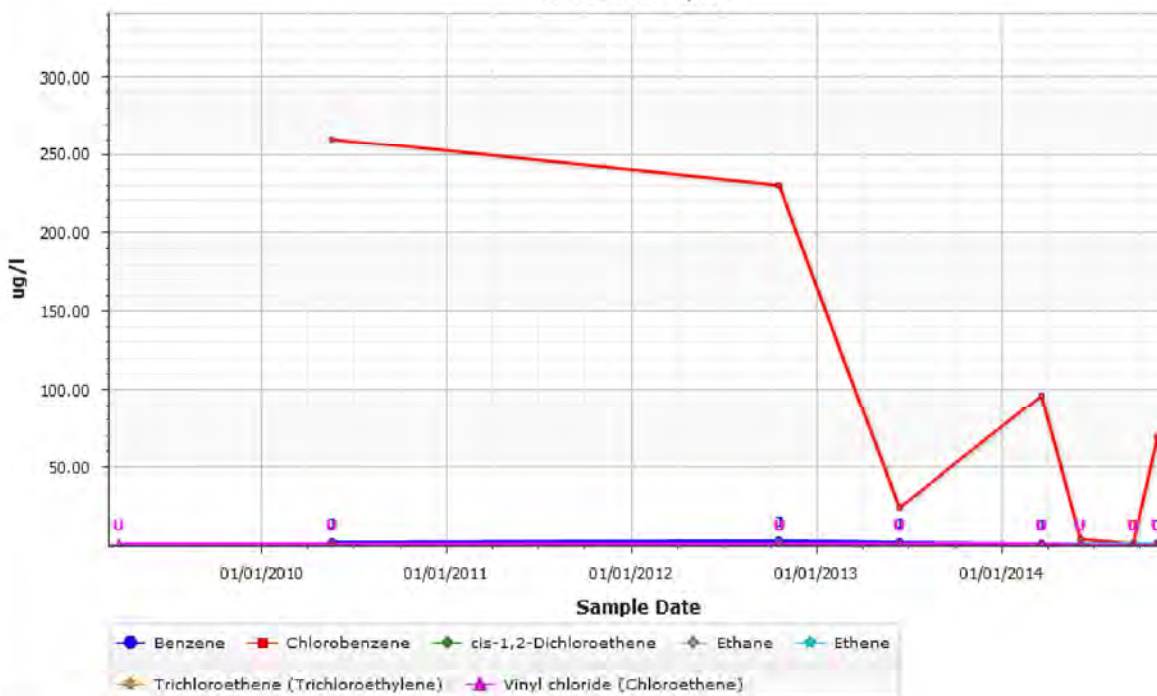
SWMW-114 (Bedrock)

Site: Beacon, NY



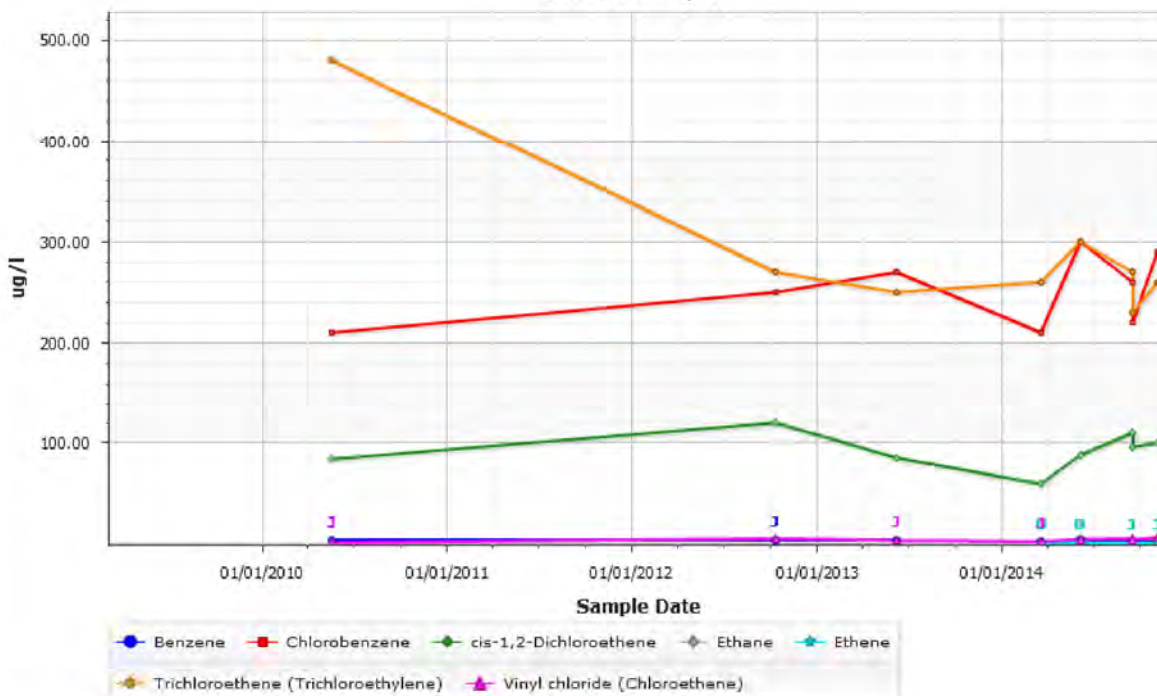
SWMW-123 (Bedrock)

Site: Beacon, NY



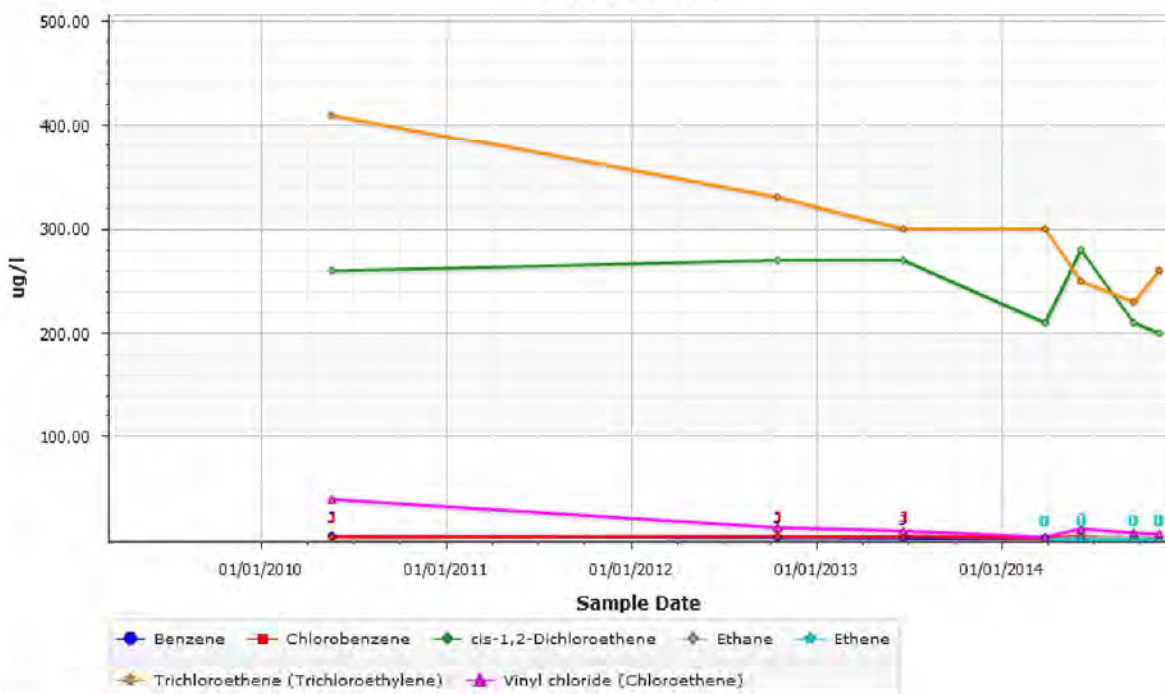
SWMW-125 (Bedrock)

Site: Beacon, NY

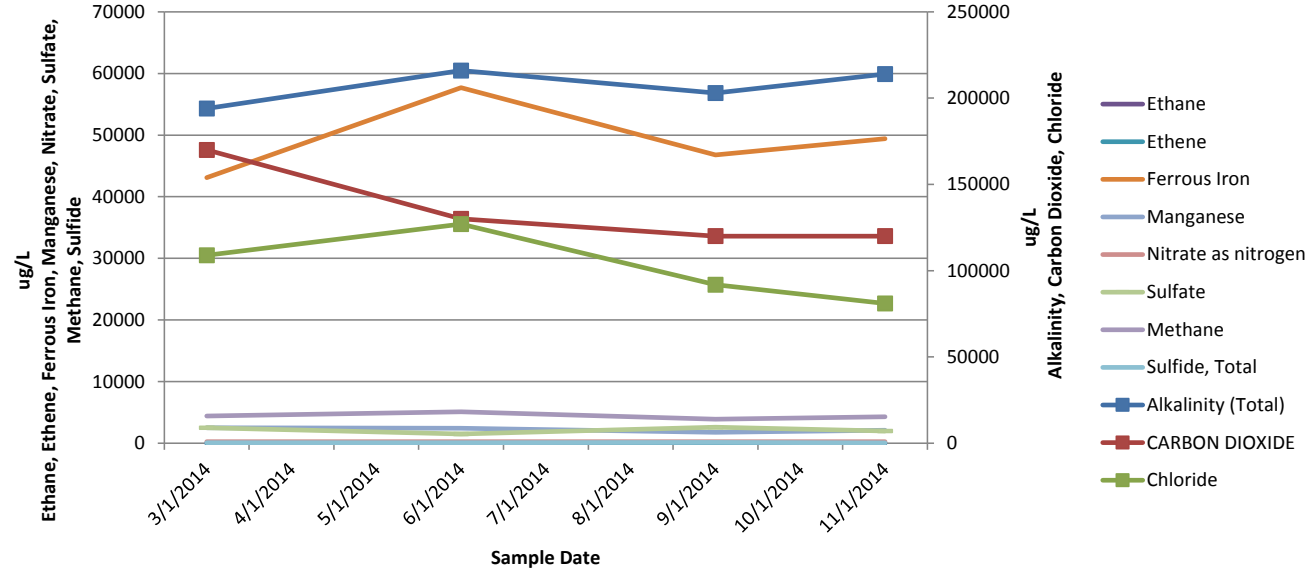


SWMW-126 (Bedrock)

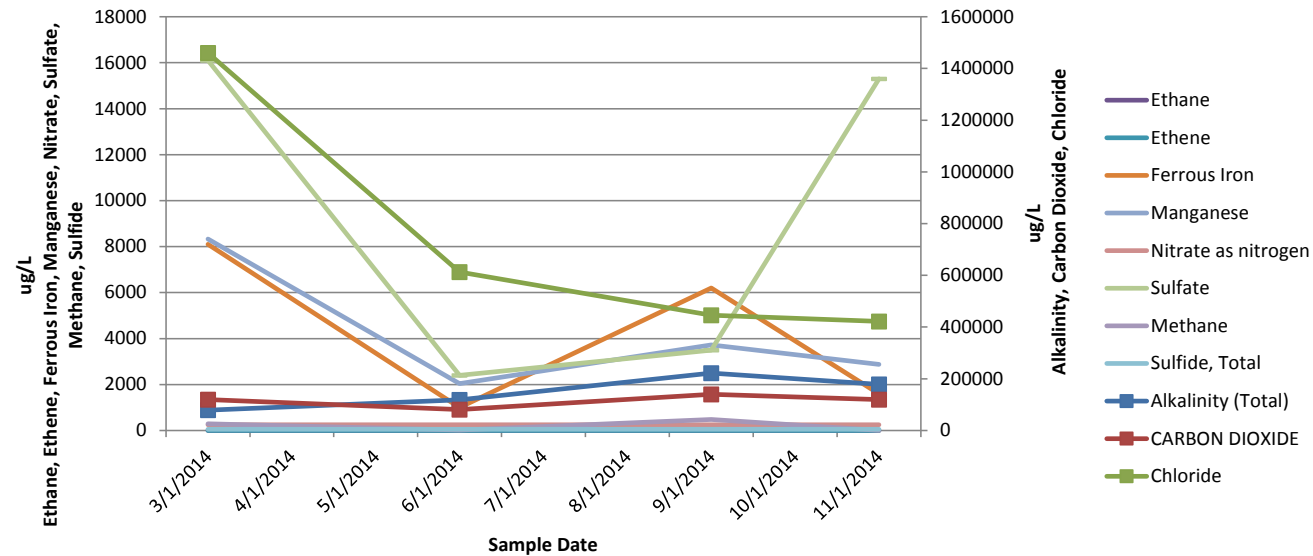
Site: Beacon, NY



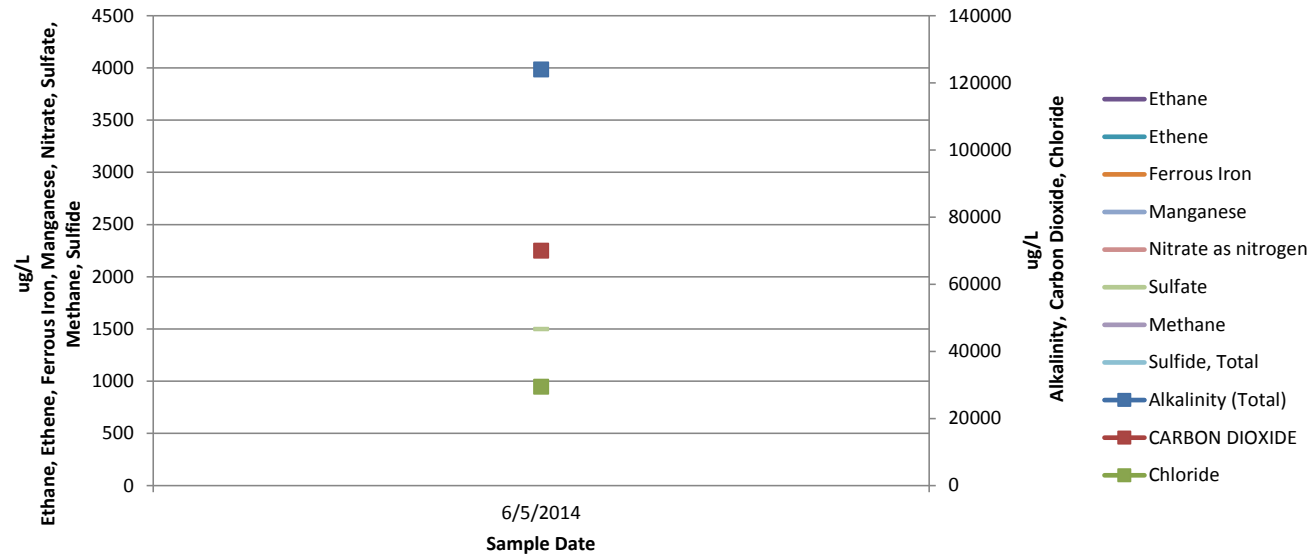
GT-2 Site: Beacon, NY



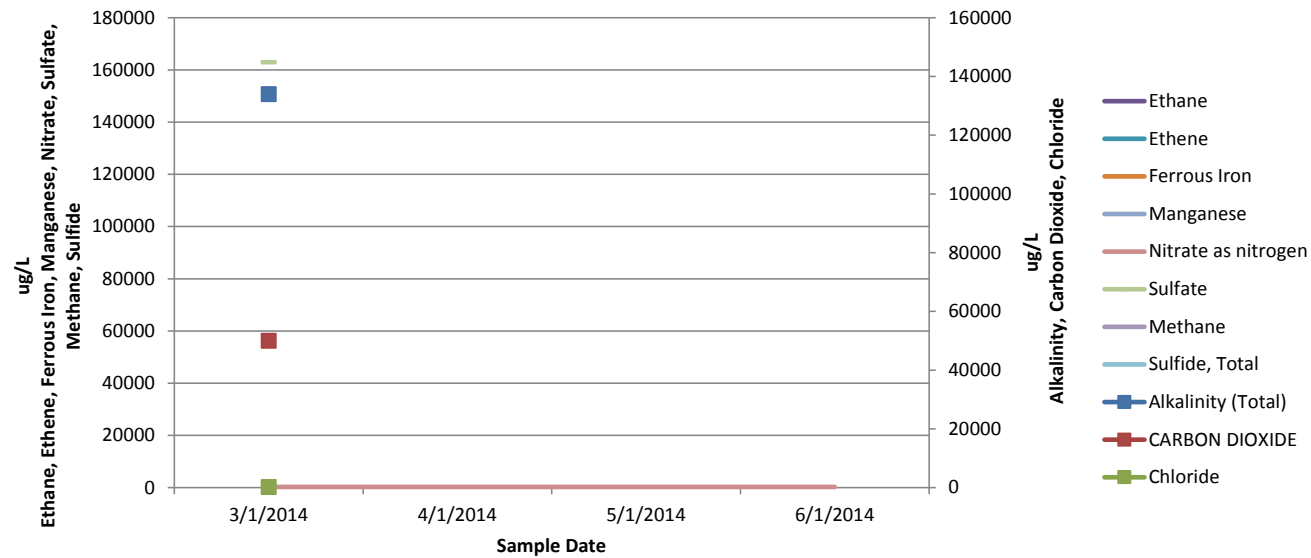
ITMW-13 Site: Beacon, NY

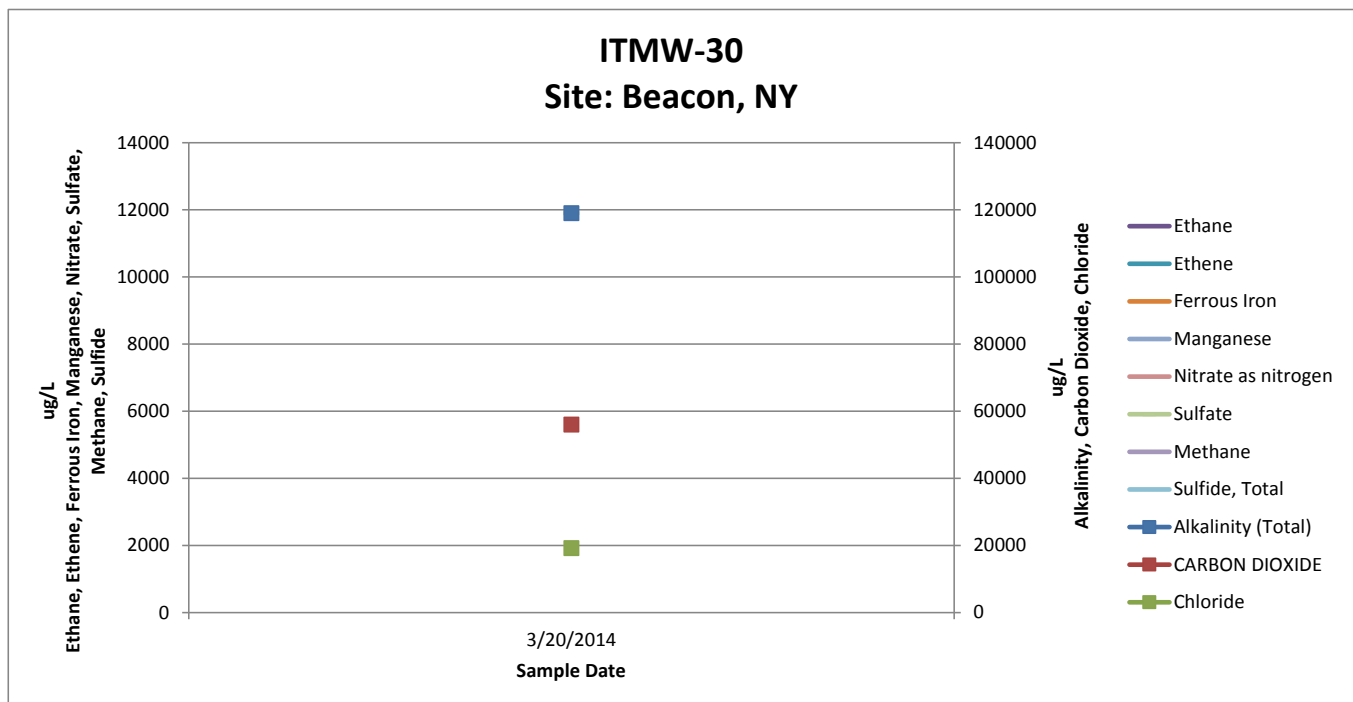
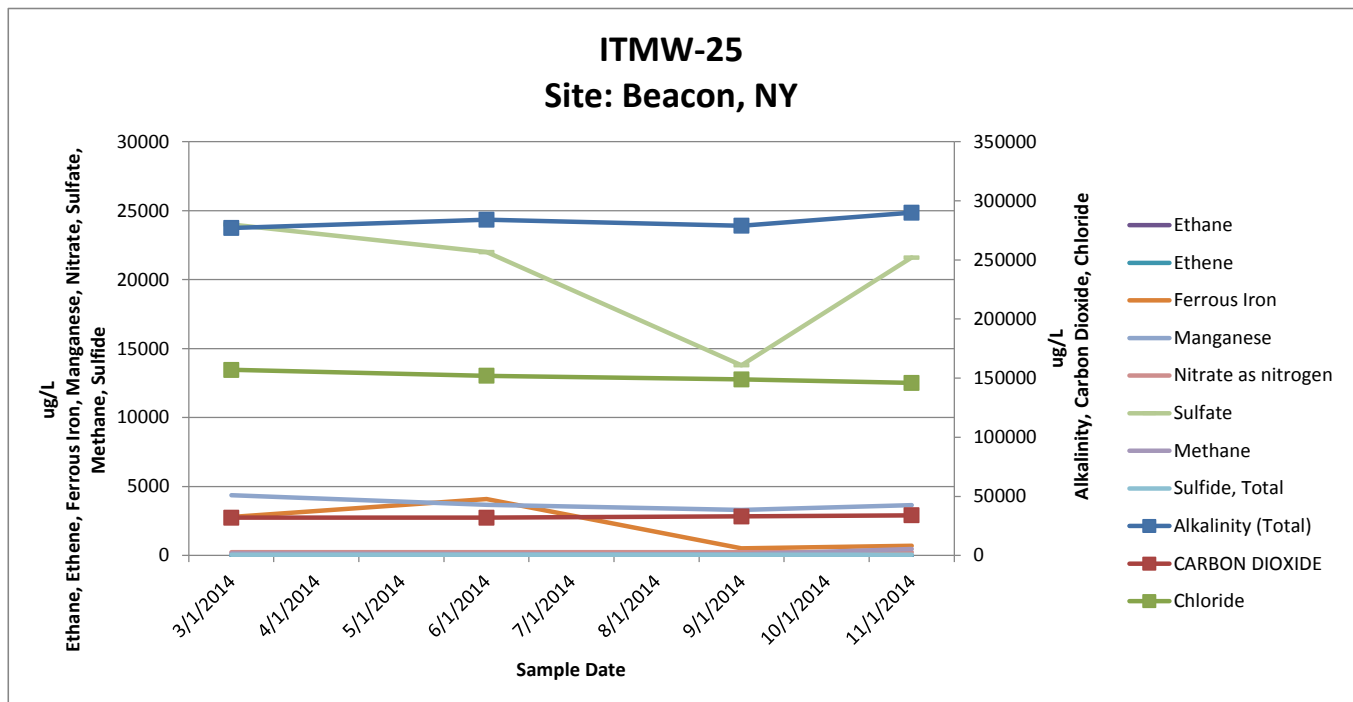


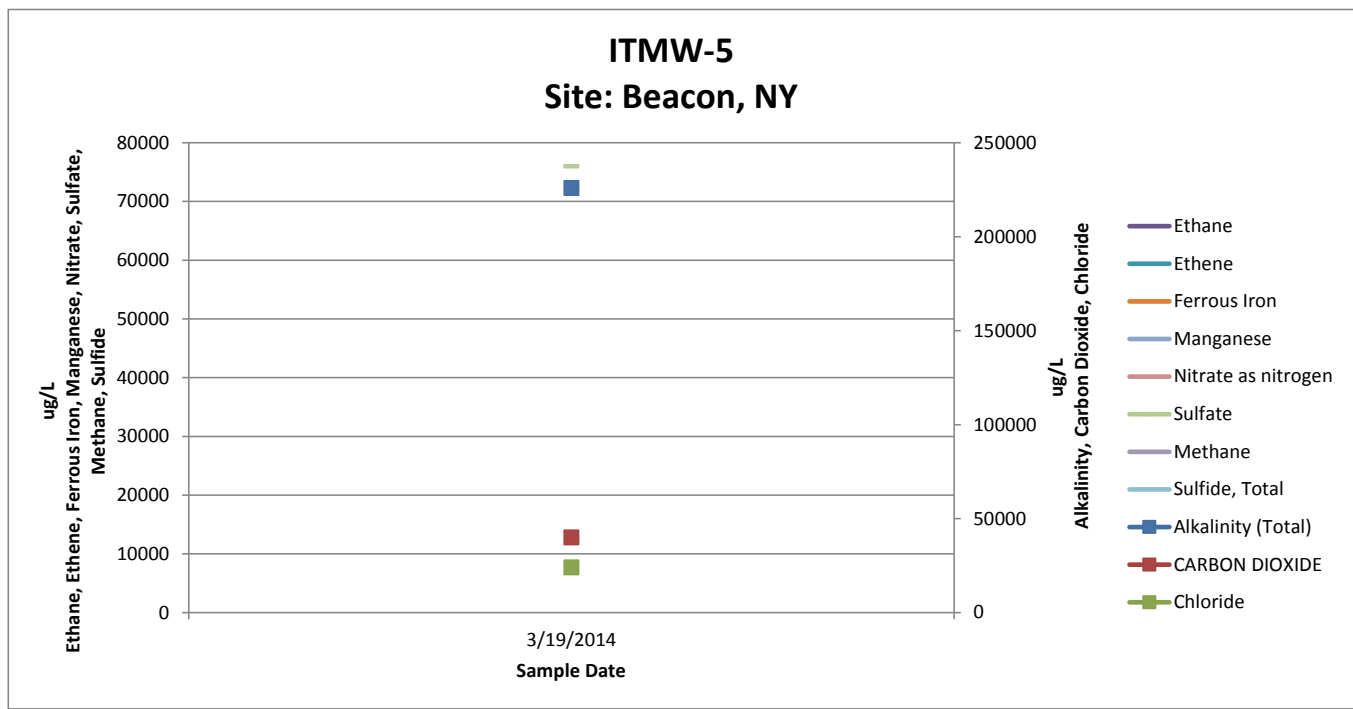
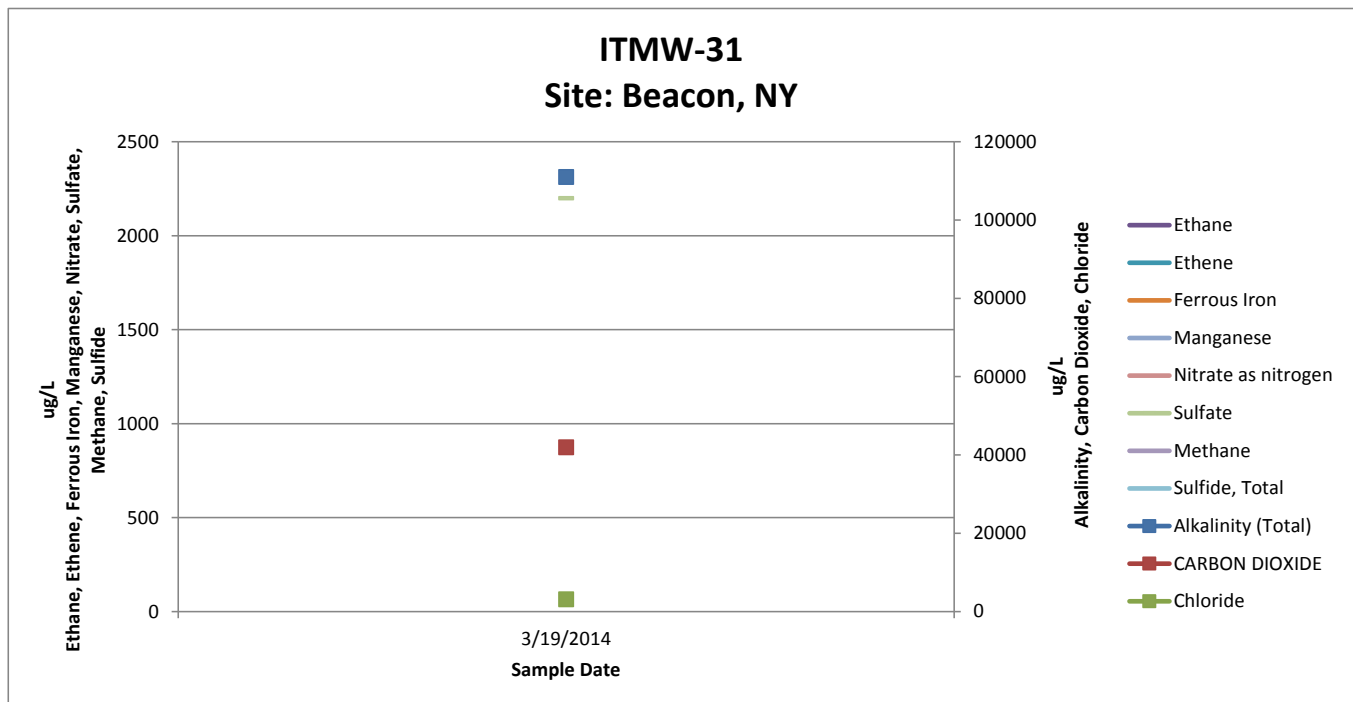
ITMW-14 Site: Beacon, NY



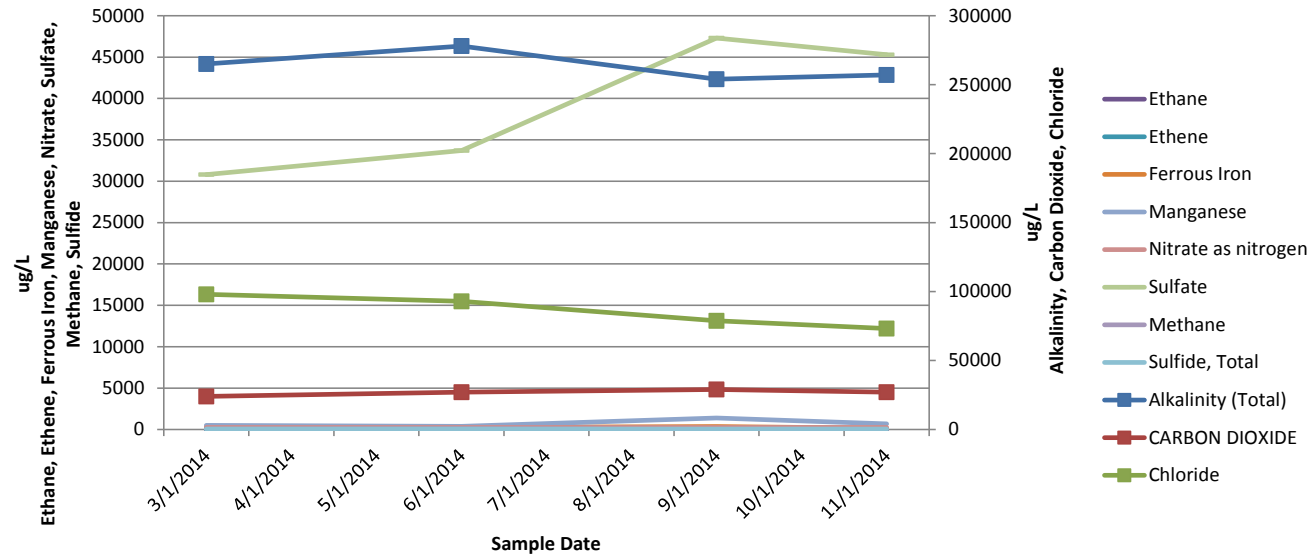
ITMW-24 Site: Beacon, NY



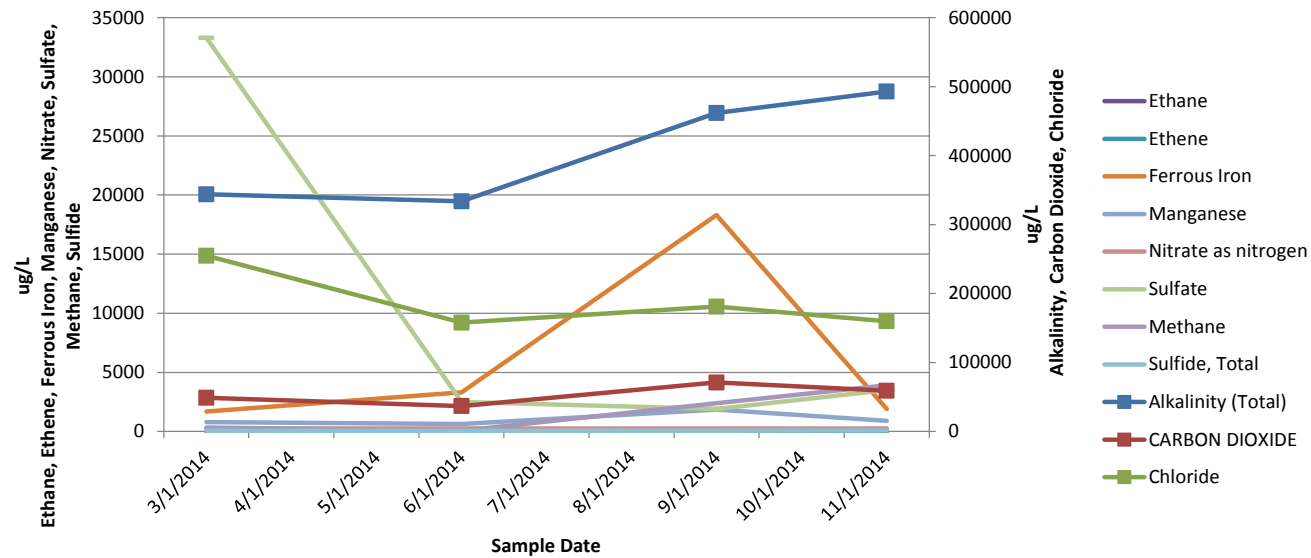




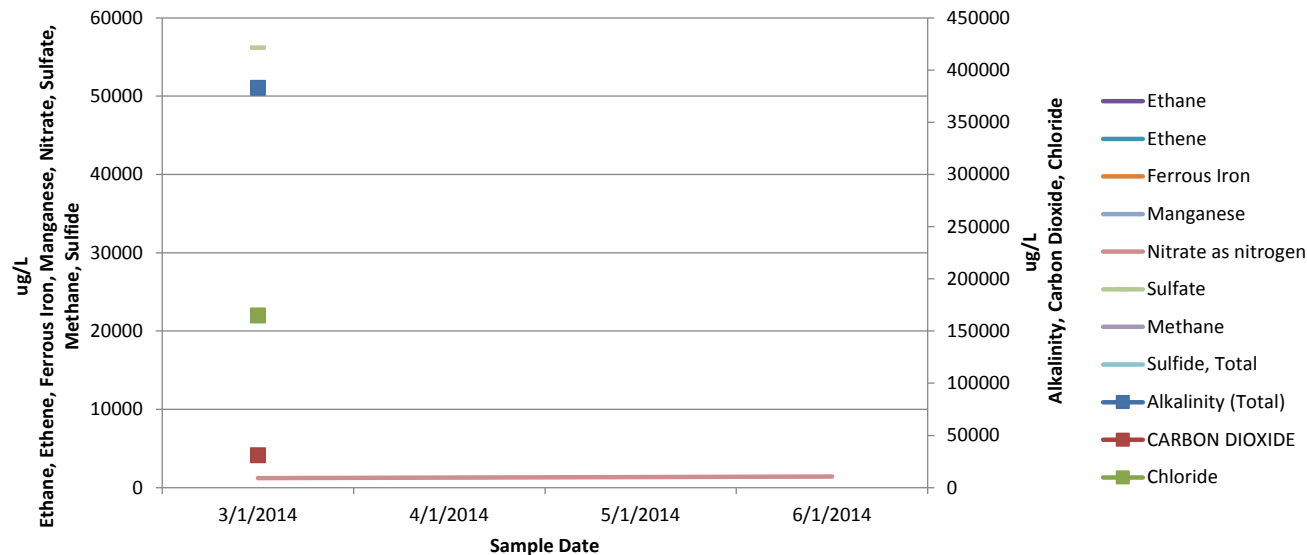
ITMW-6 Site: Beacon, NY



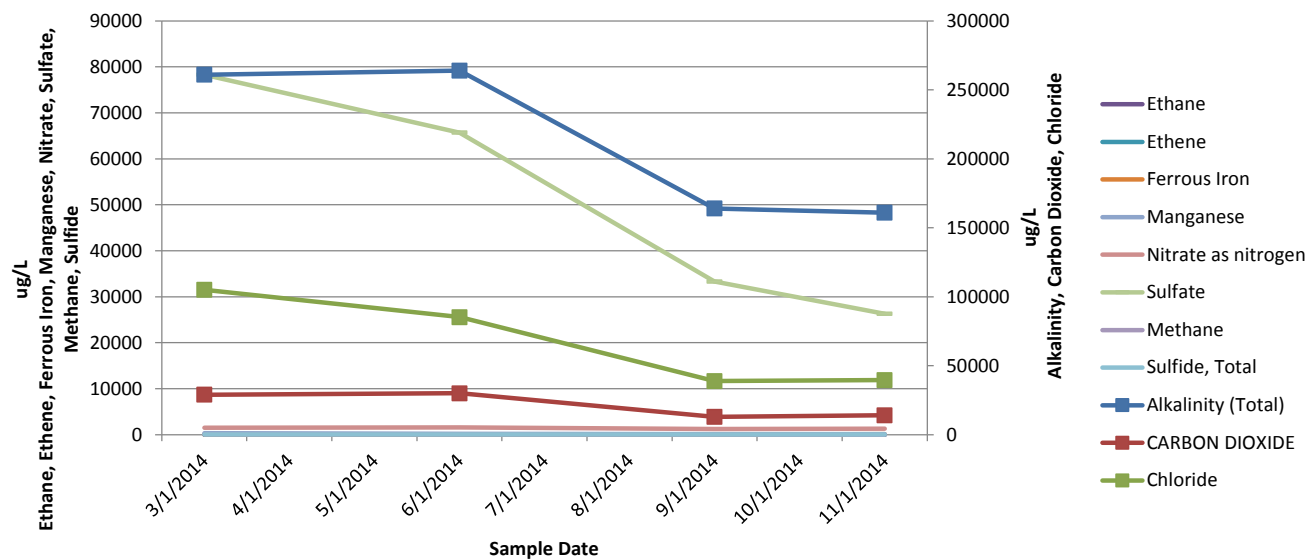
SWMW-10 Site: Beacon, NY

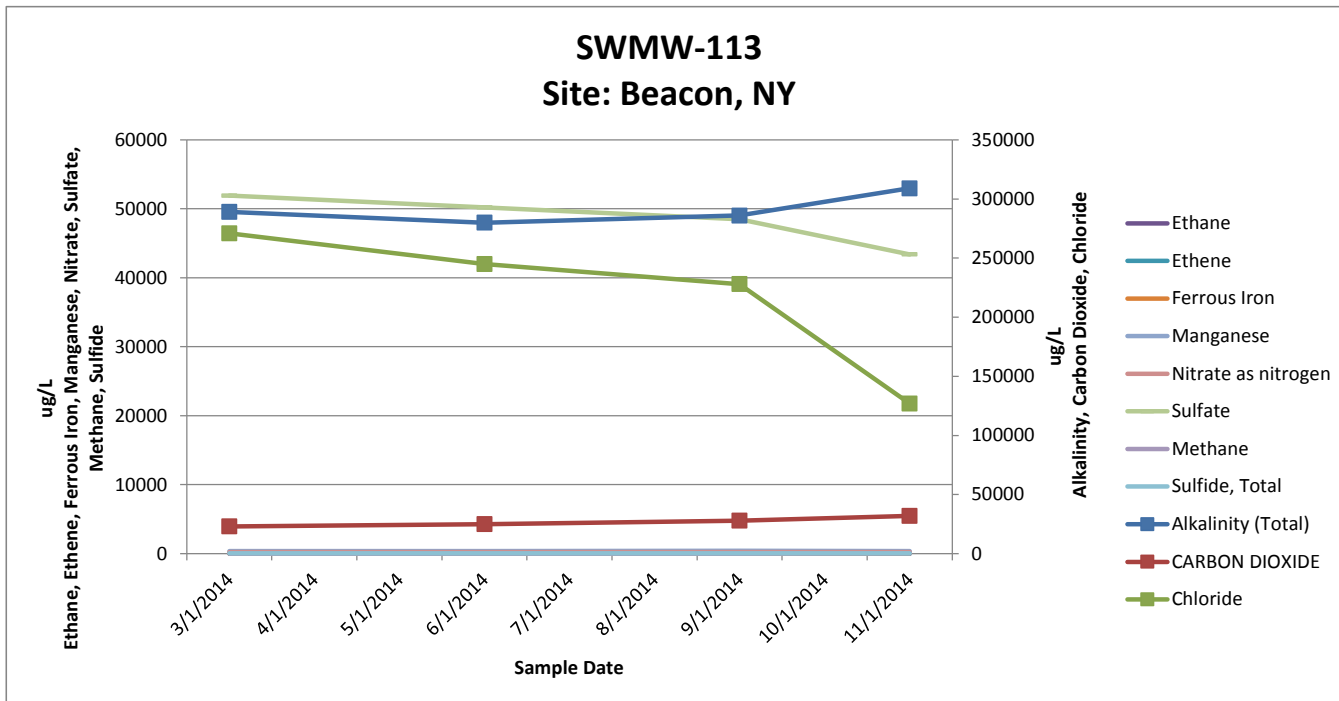
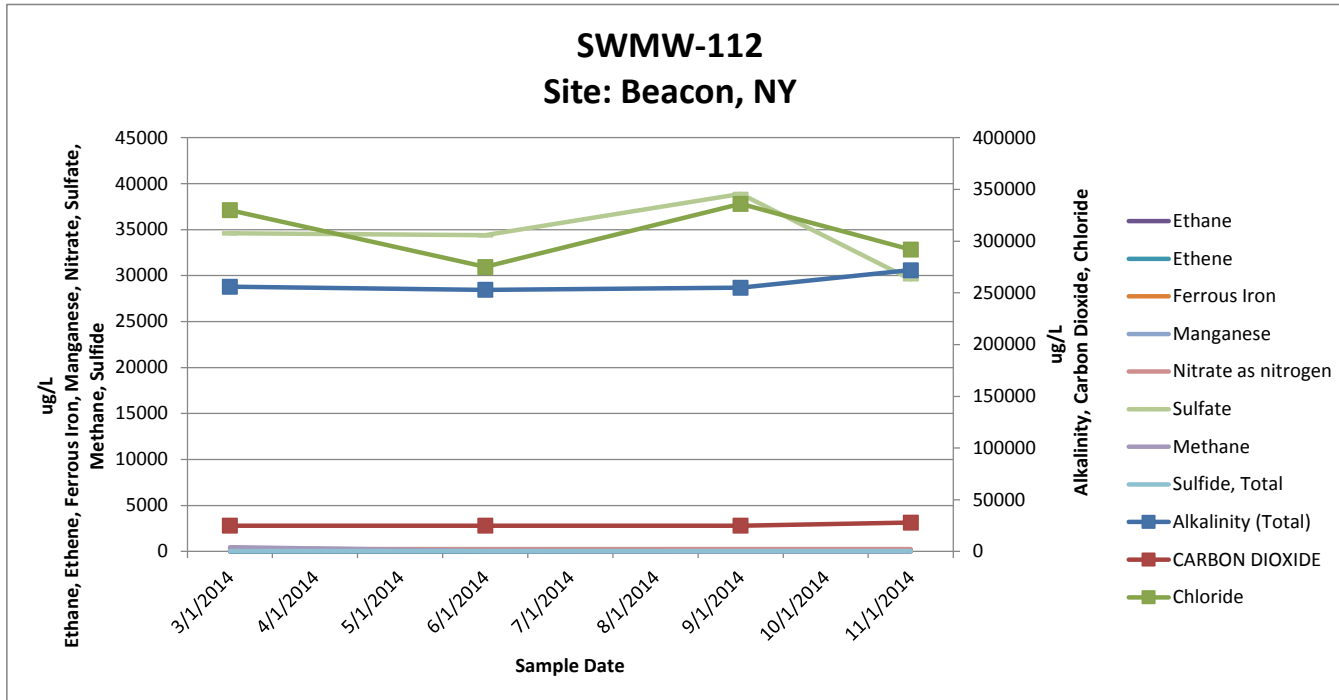


SWMW-103 Site: Beacon, NY

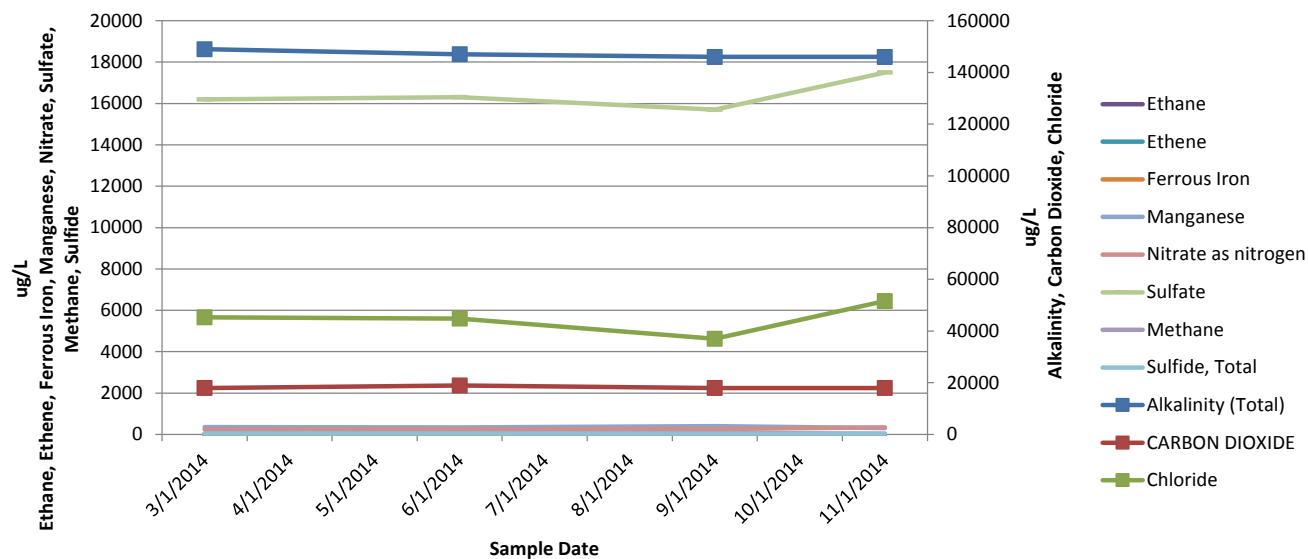


SWMW-111 Site: Beacon, NY

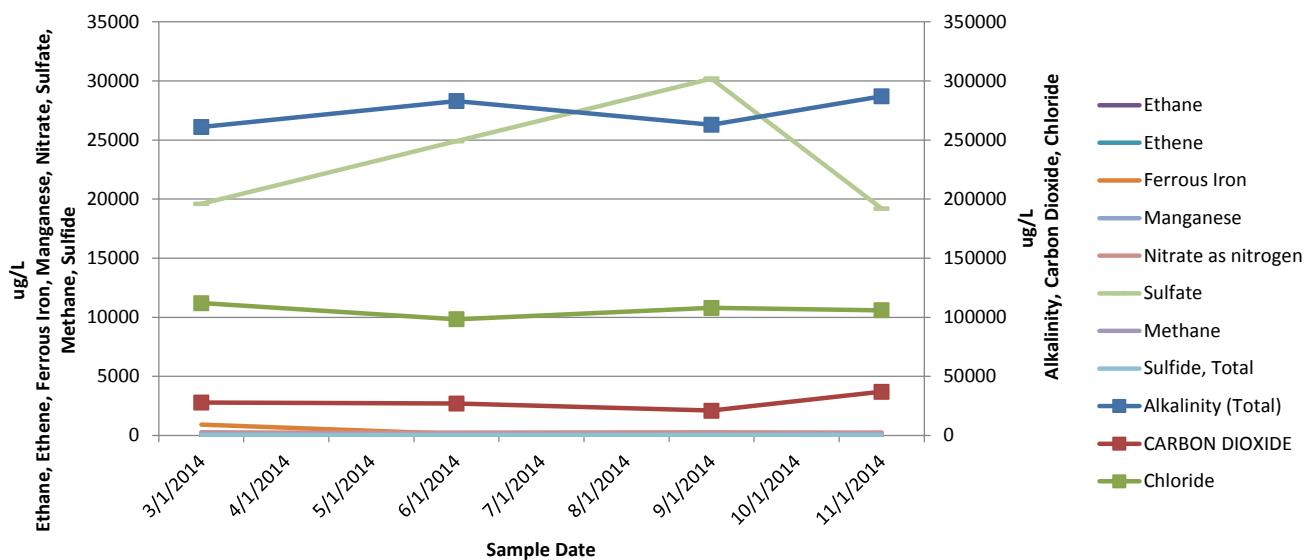




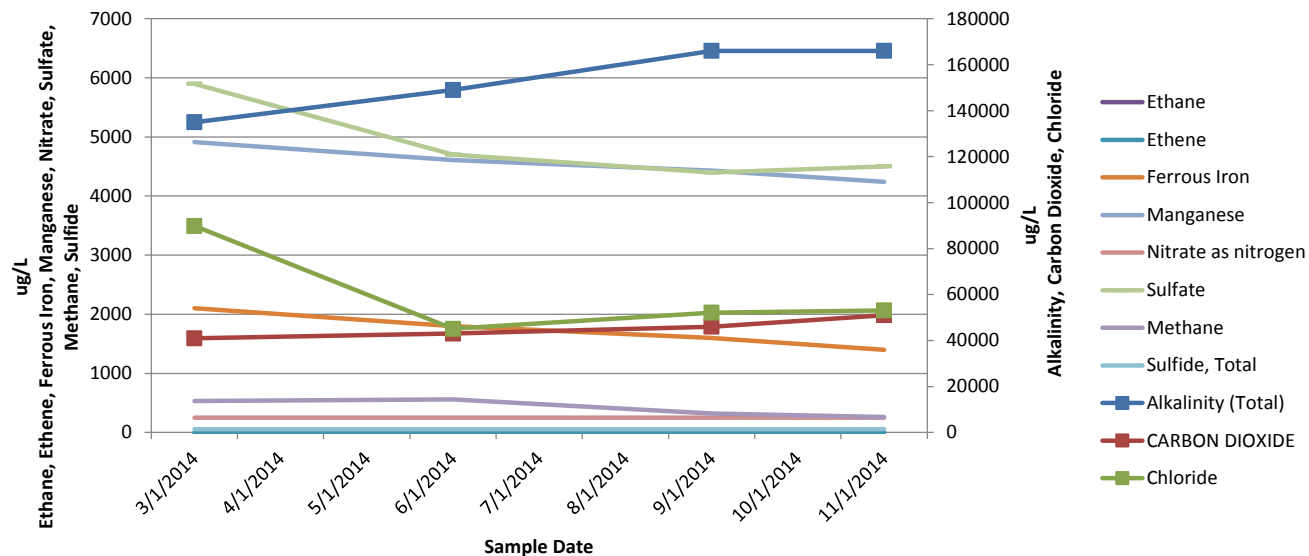
SWMW-114 Site: Beacon, NY



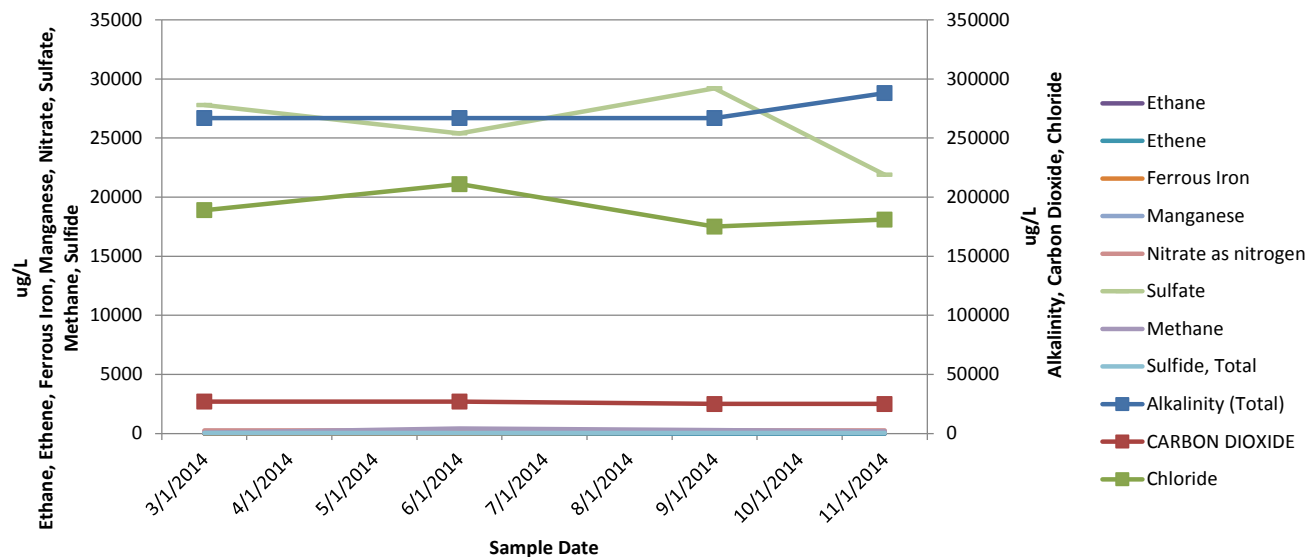
SWMW-123 Site: Beacon, NY



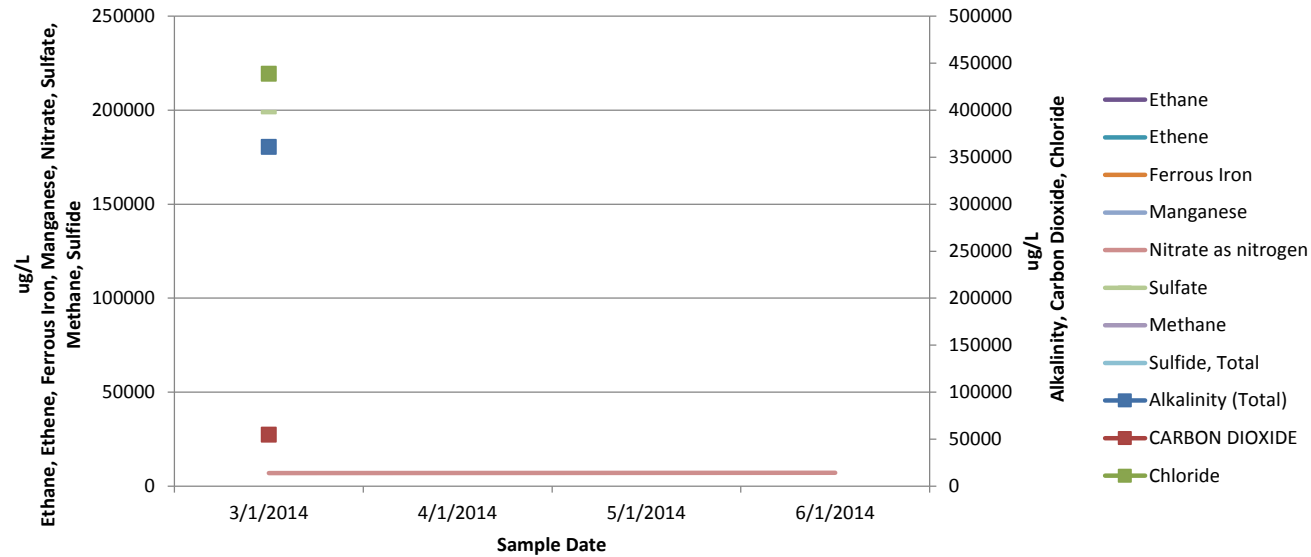
SWMW-125 Site: Beacon, NY



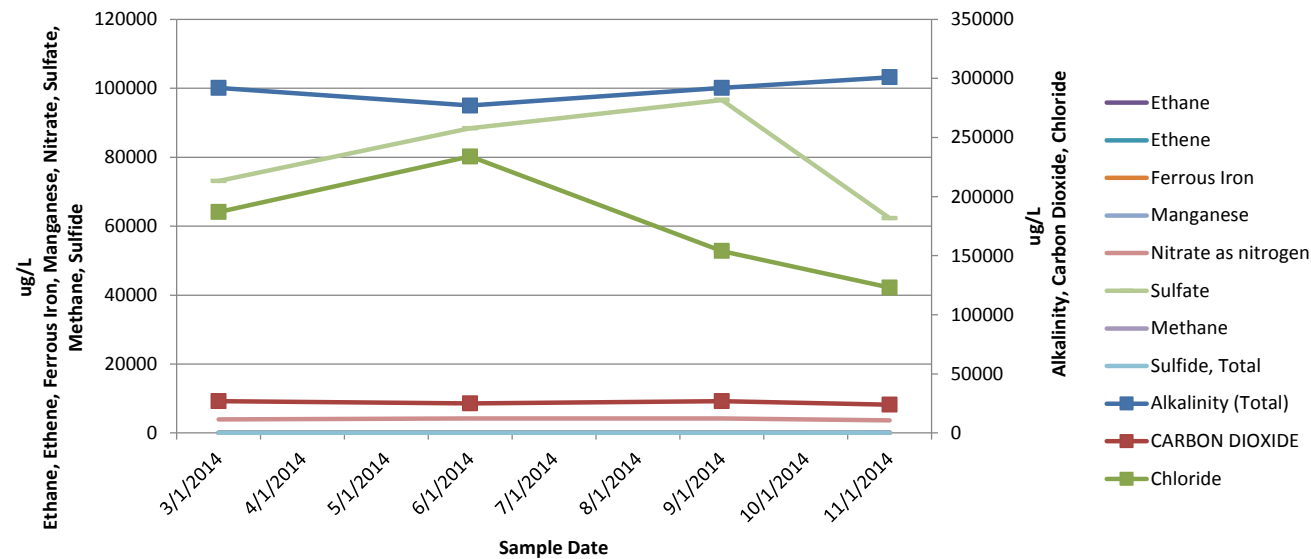
SWMW-126 Site: Beacon, NY

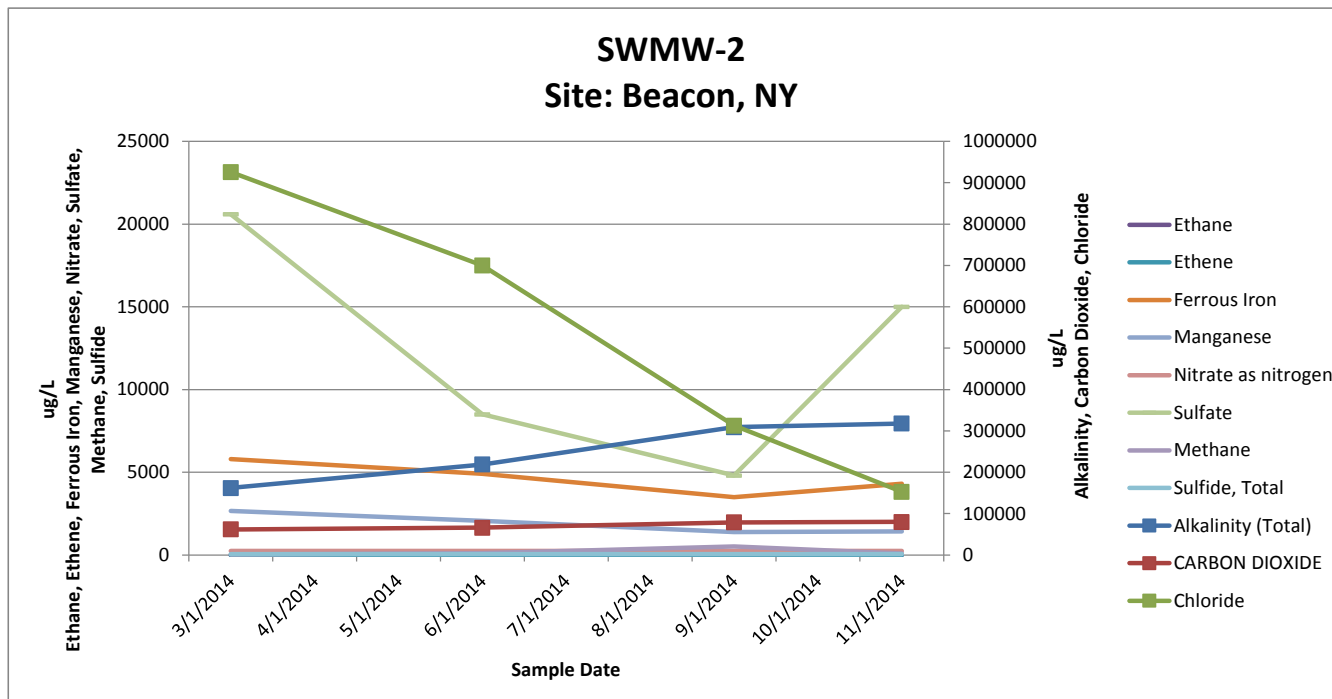
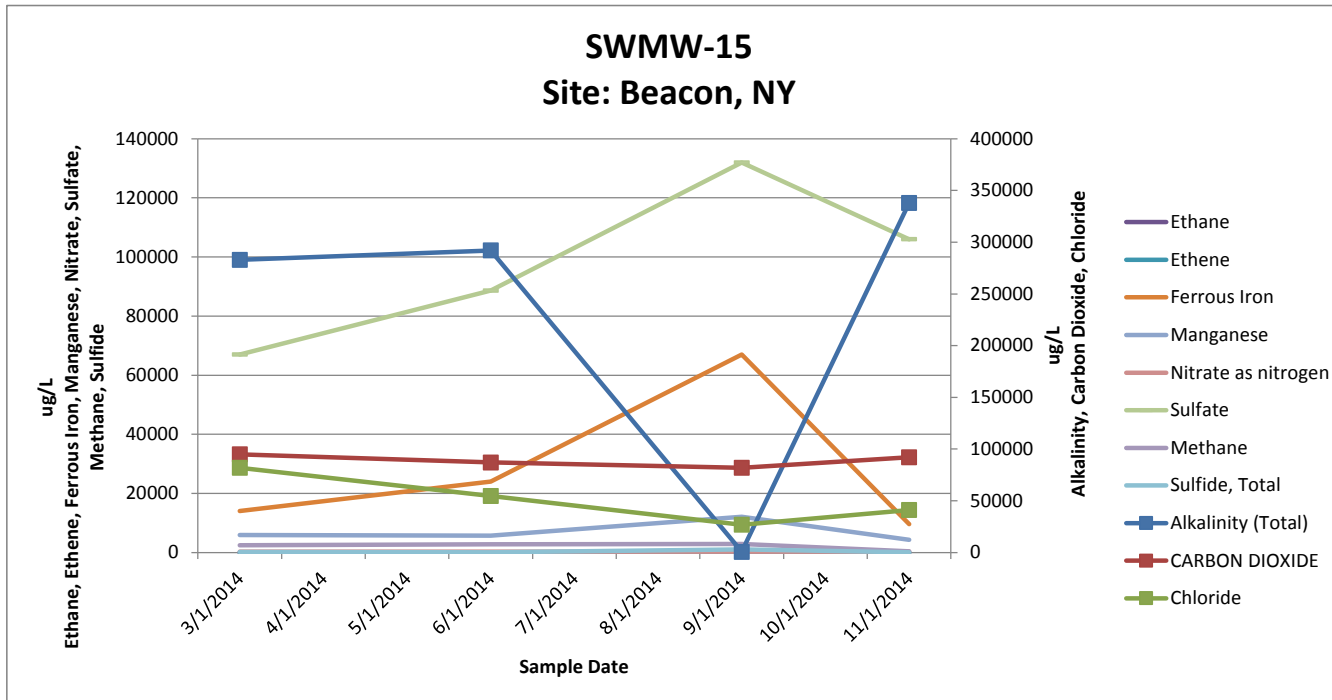


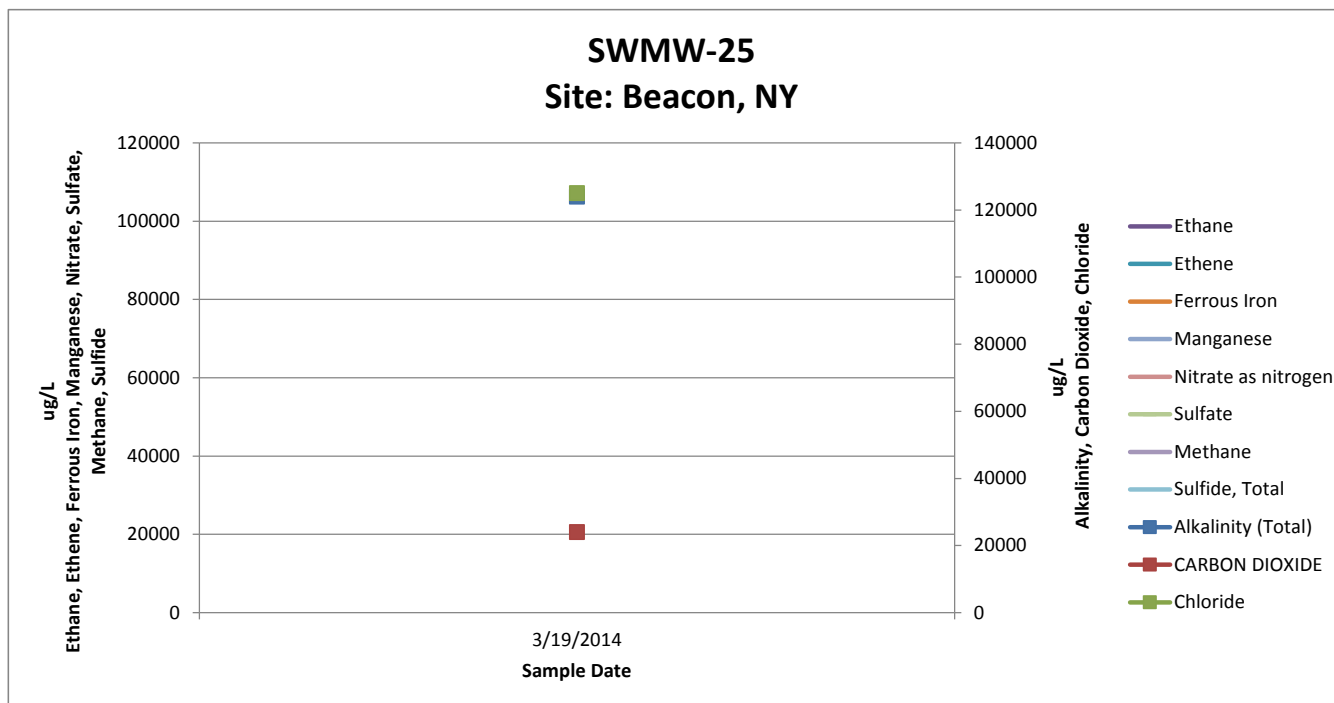
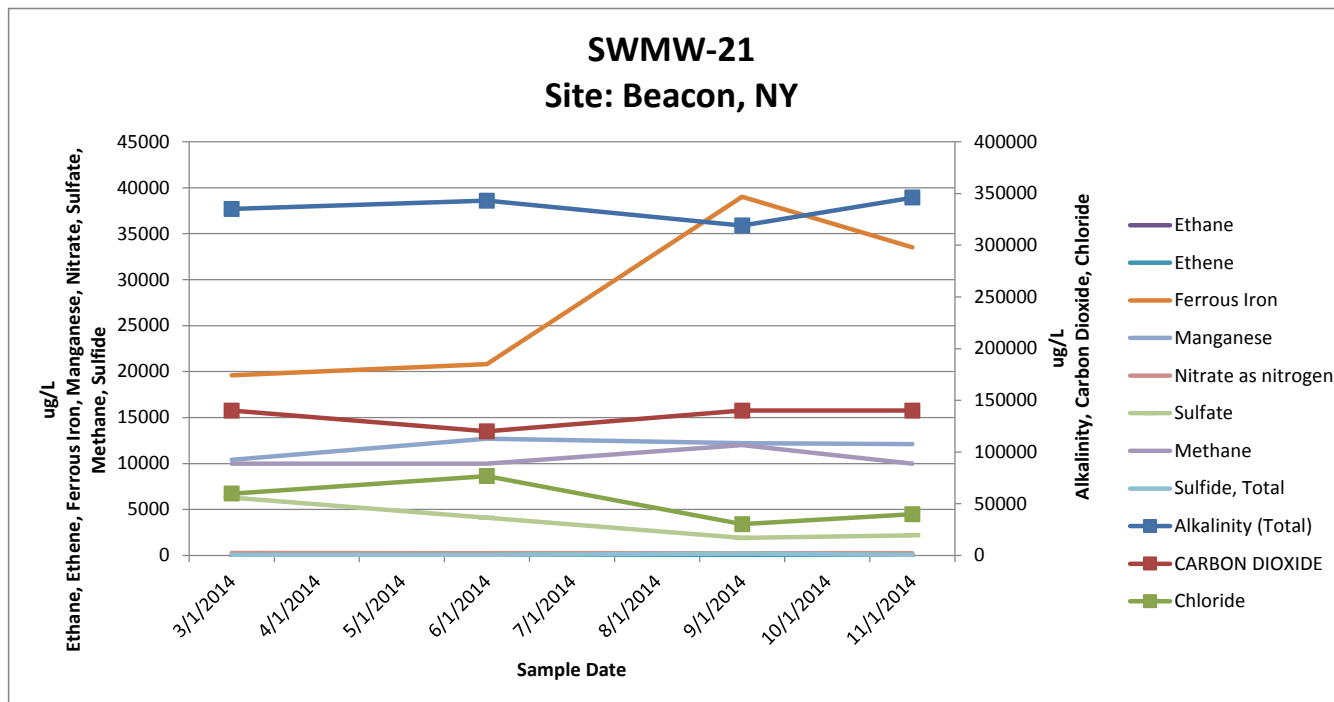
SWMW-13 Site: Beacon, NY

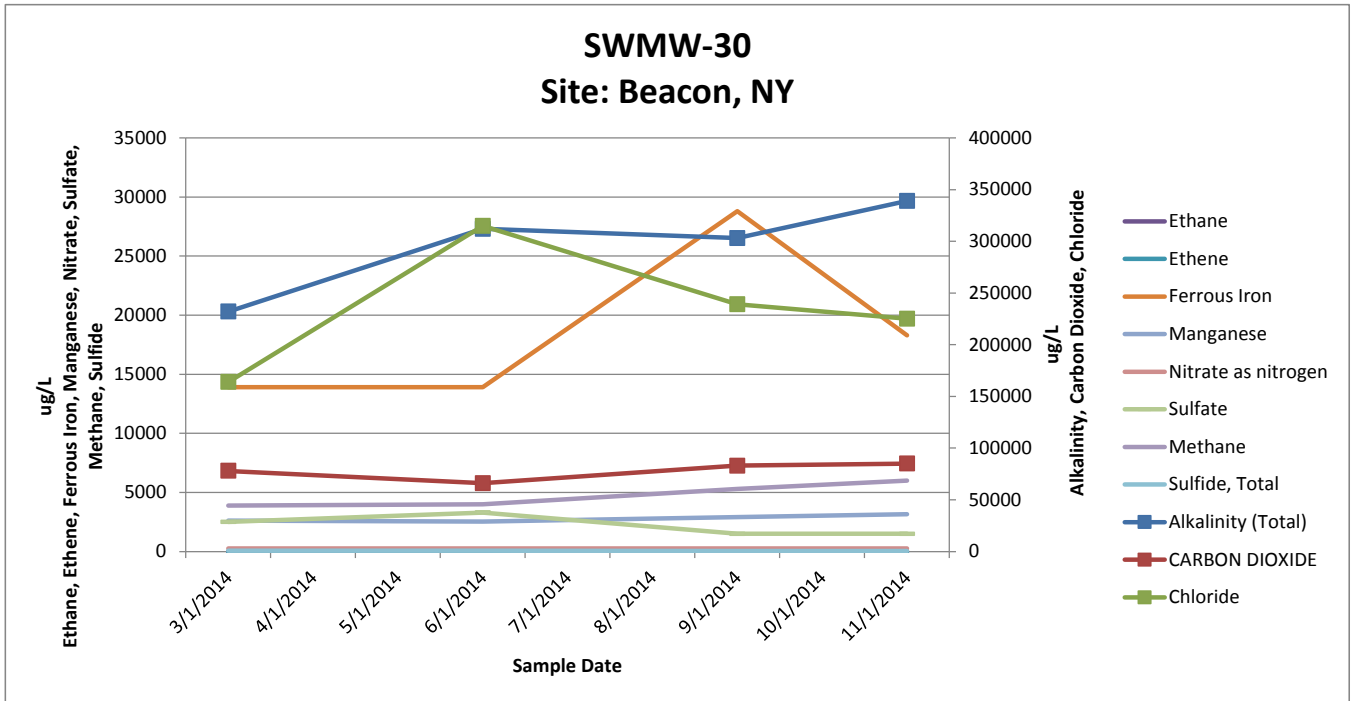
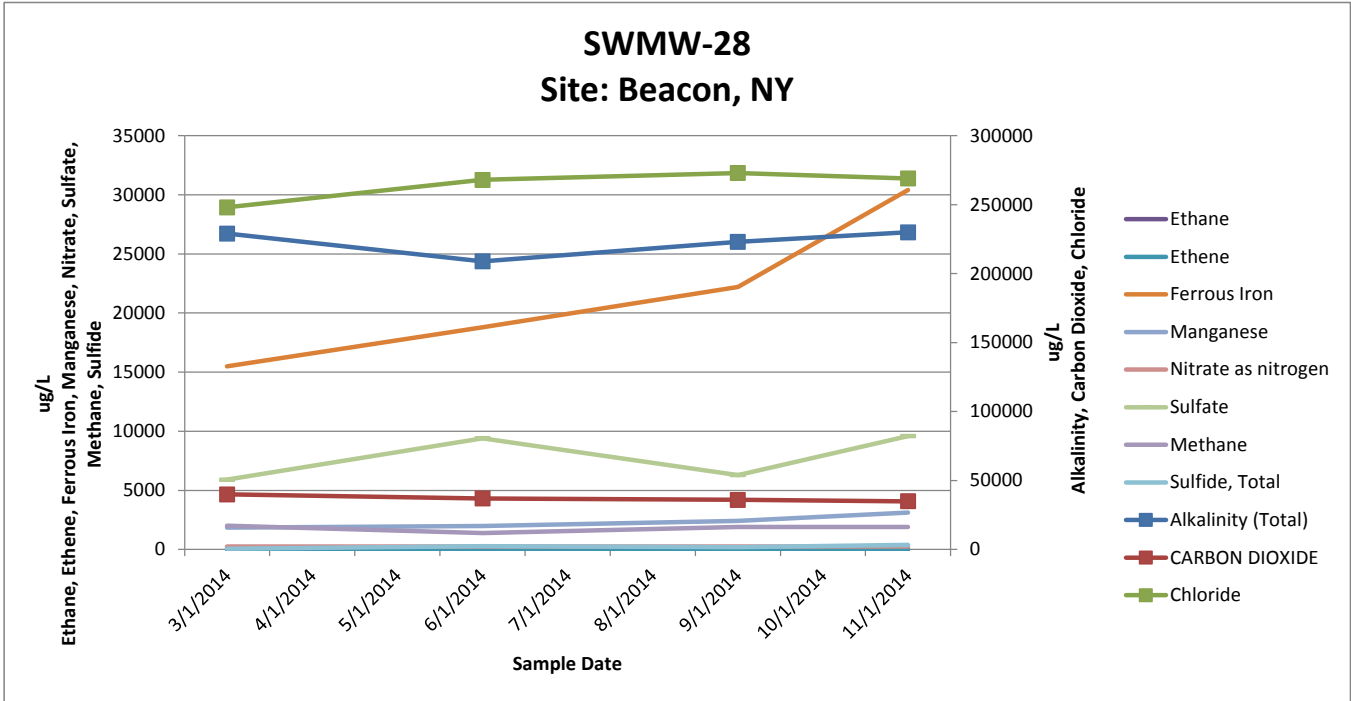


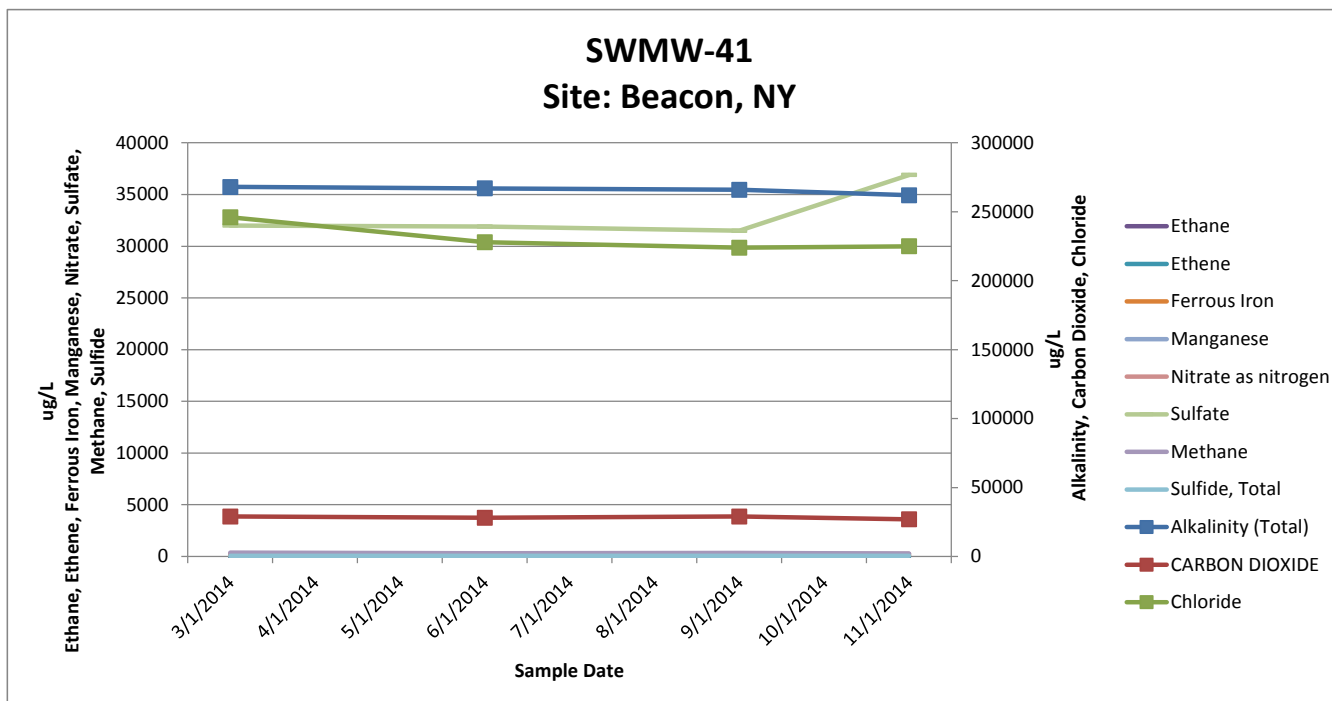
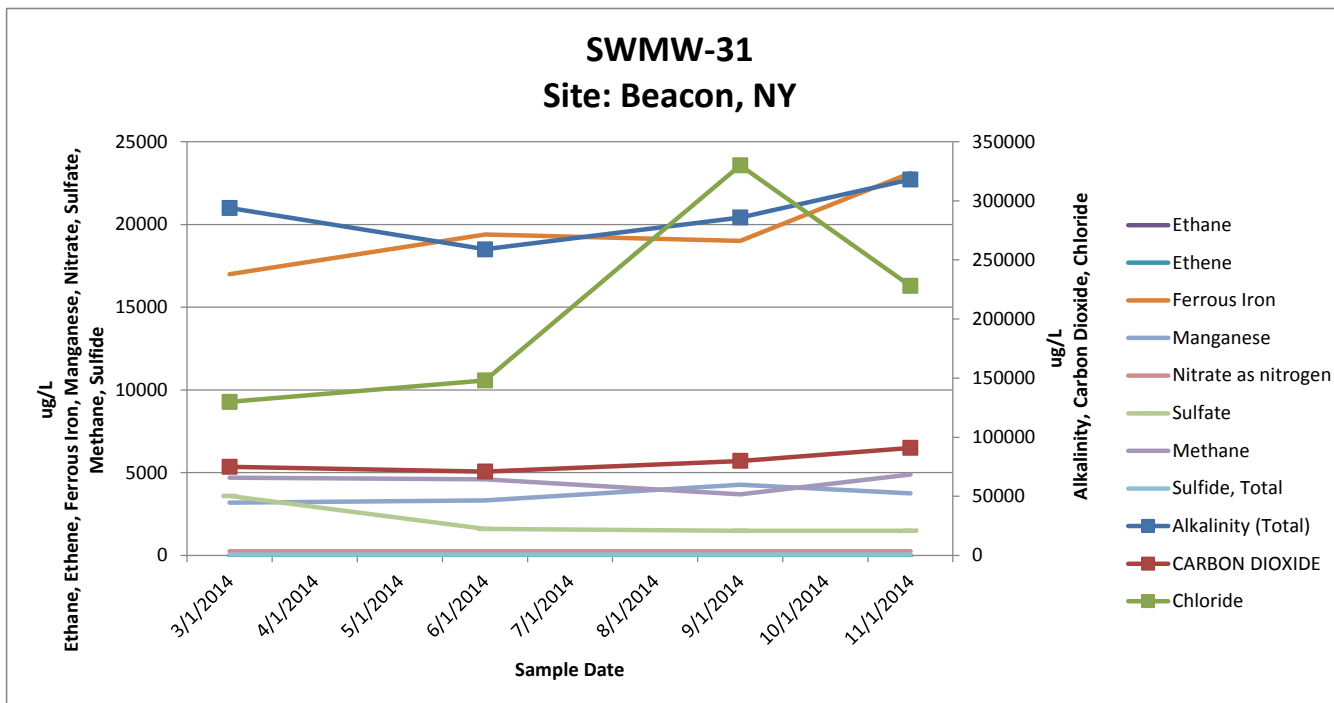
SWMW-14 Site: Beacon, NY



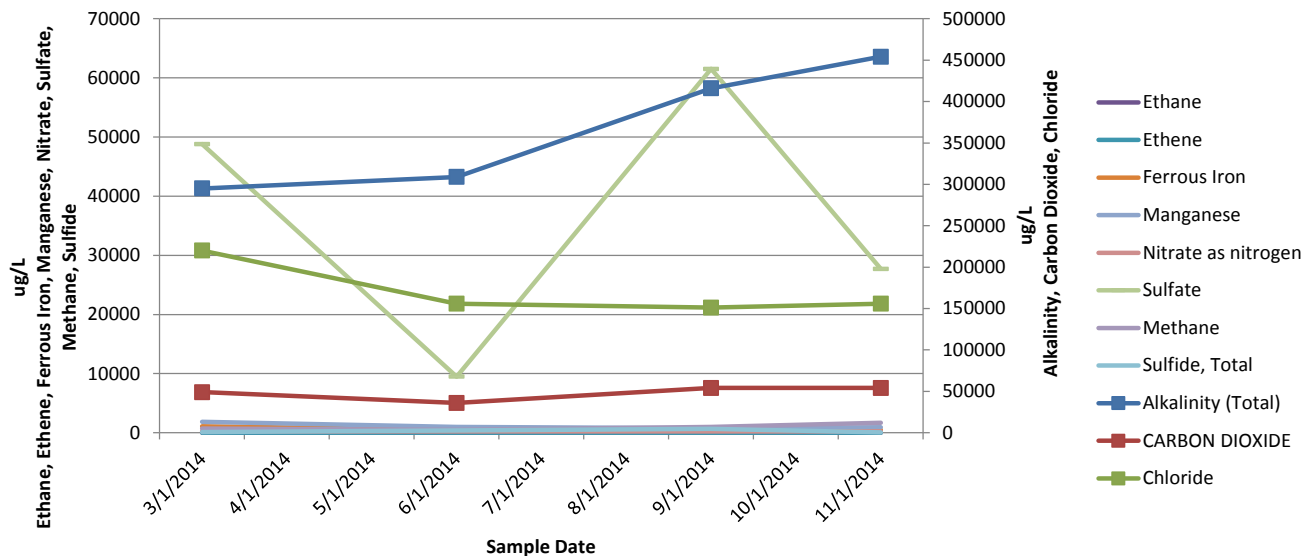




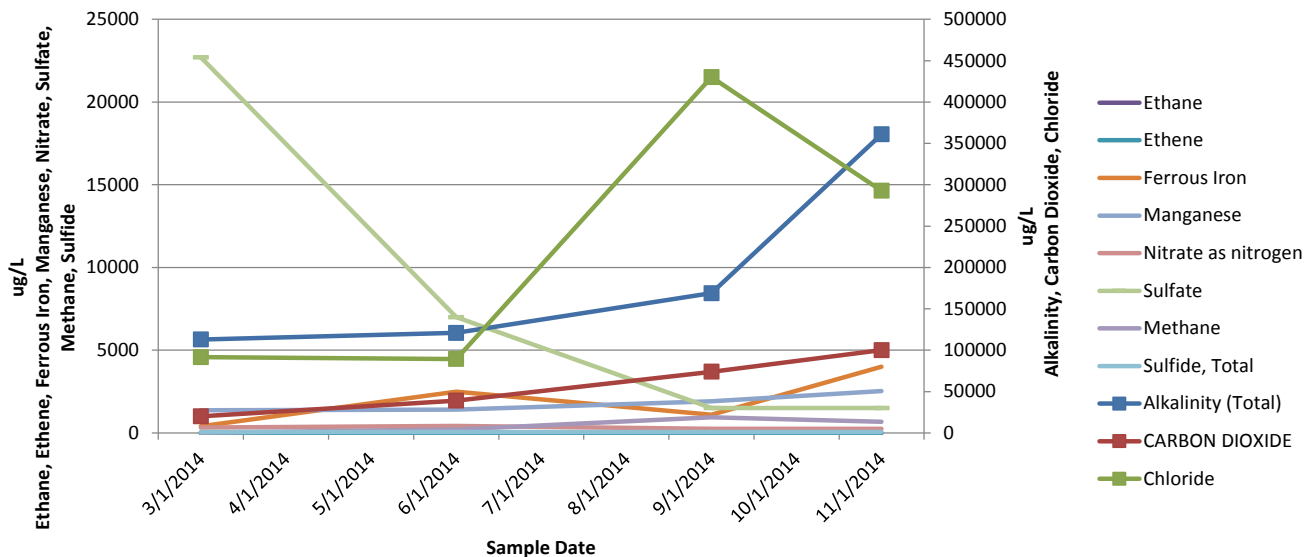




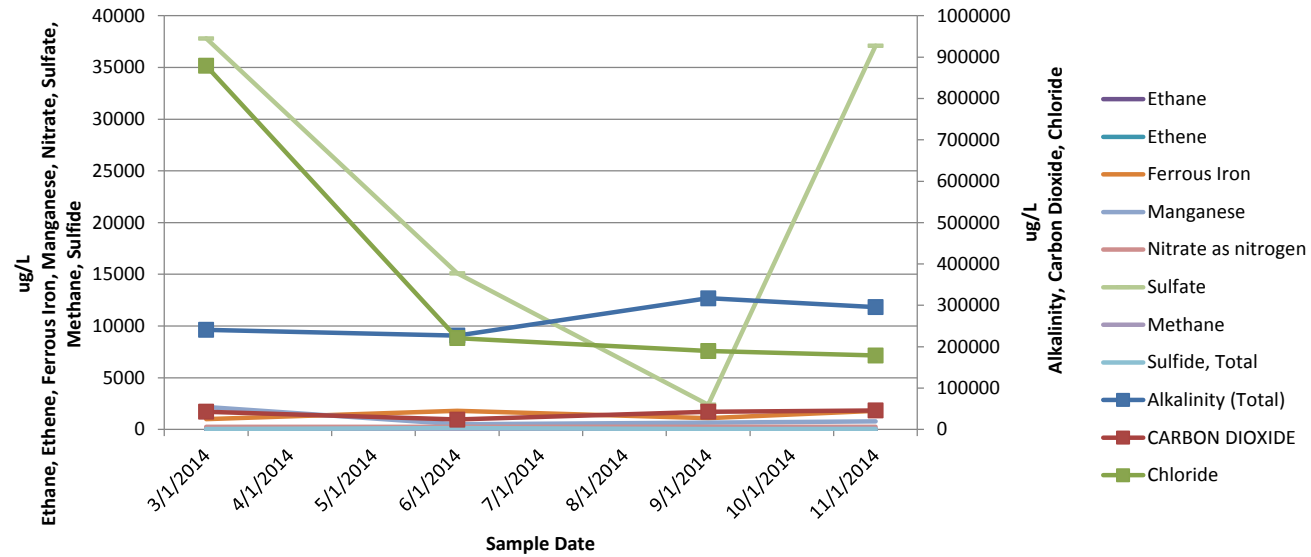
SWMW-44 Site: Beacon, NY



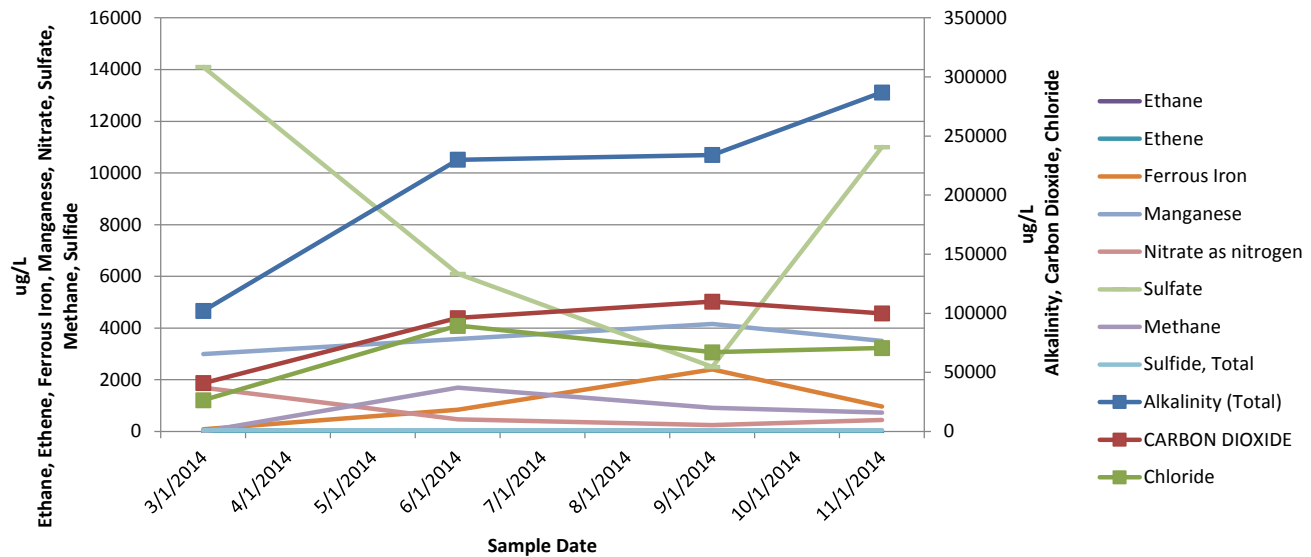
SWMW-45 Site: Beacon, NY

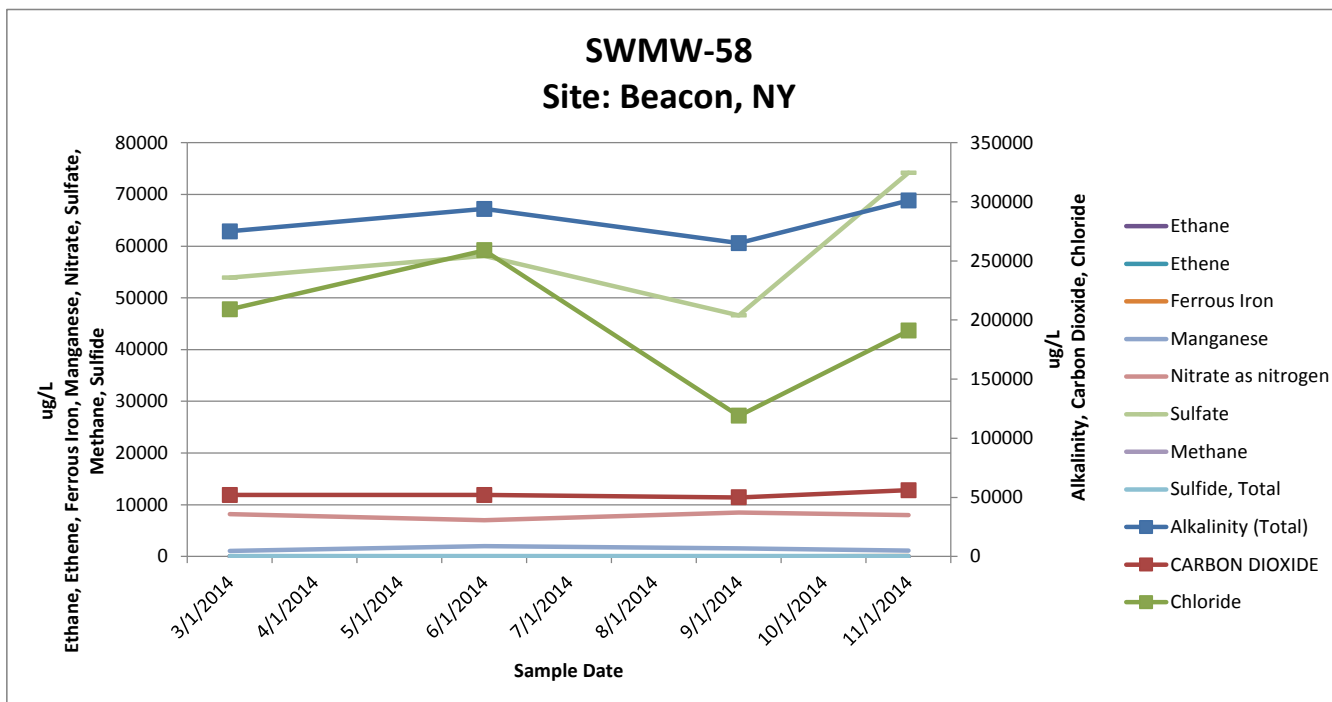
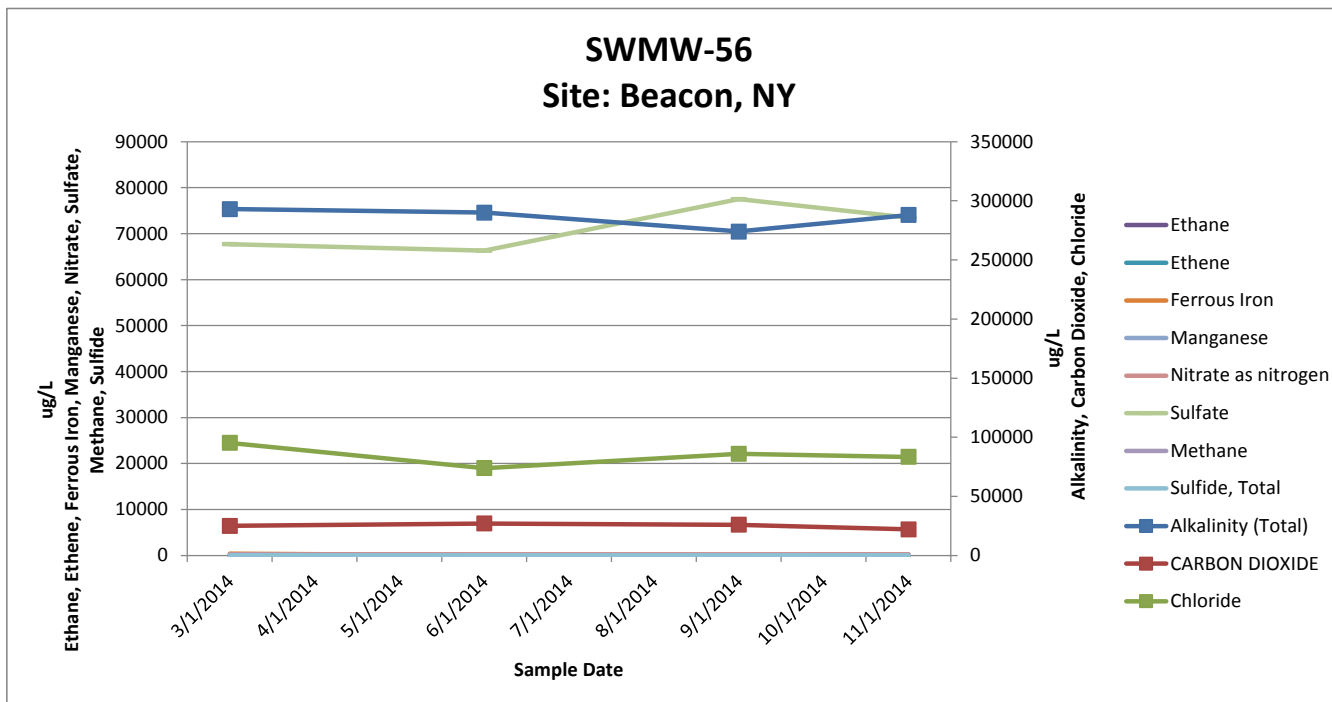


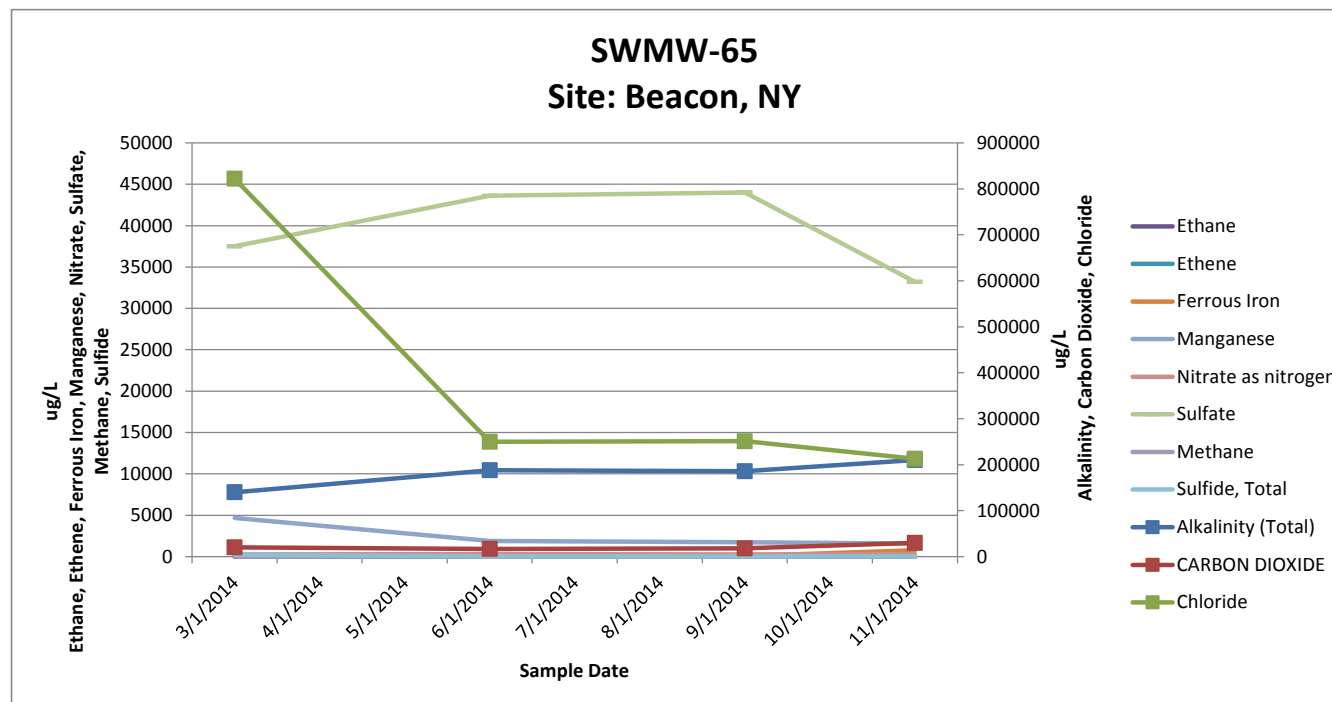
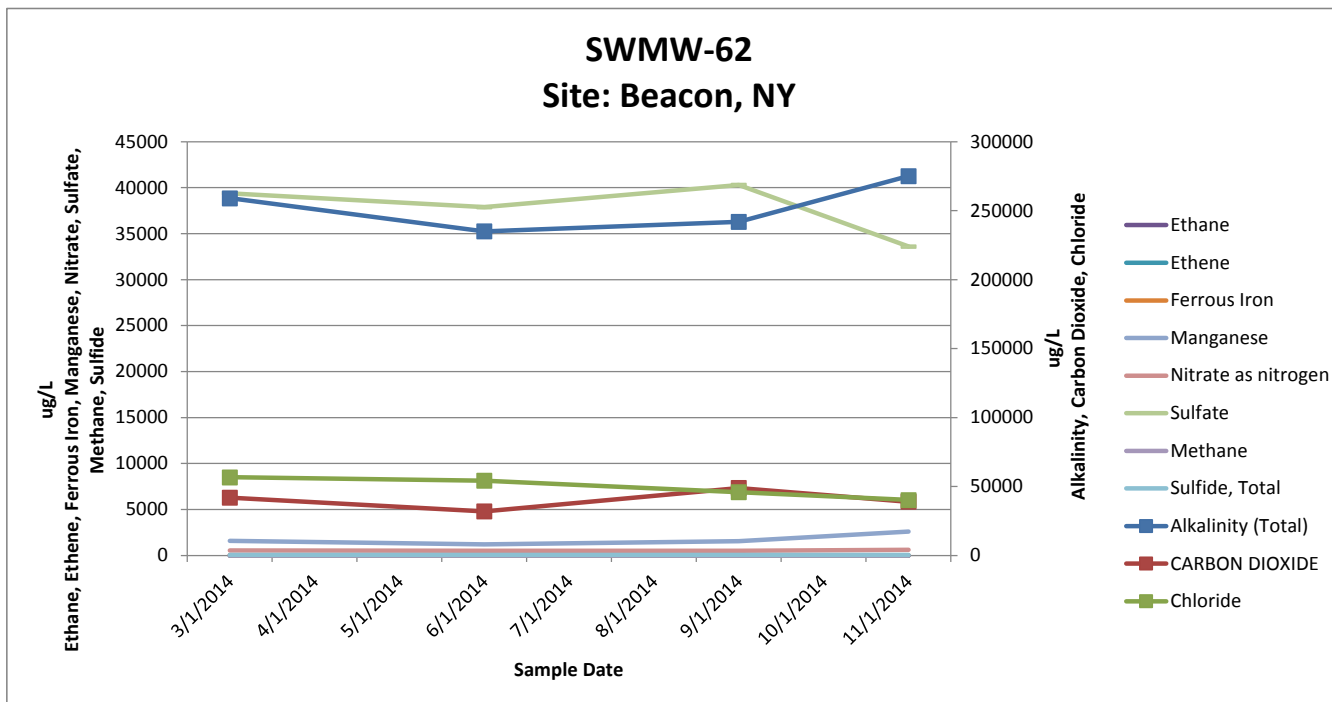
SWMW-48 Site: Beacon, NY

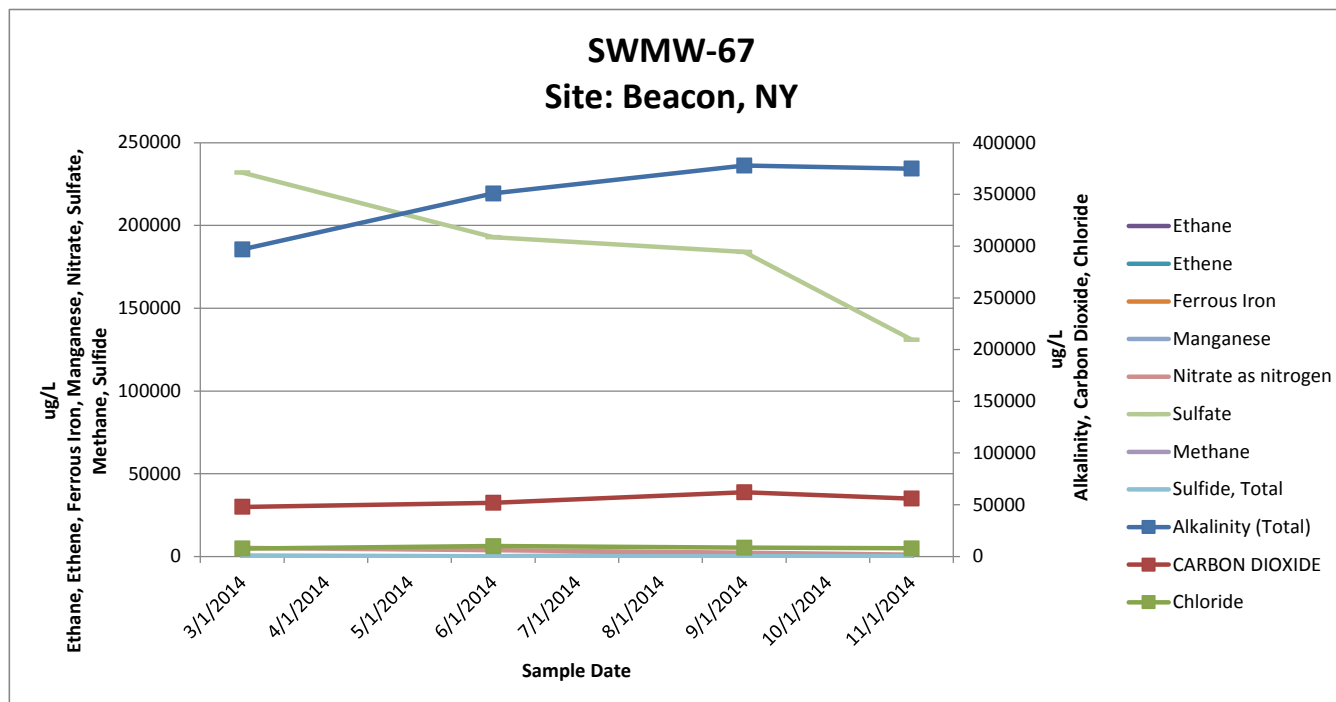
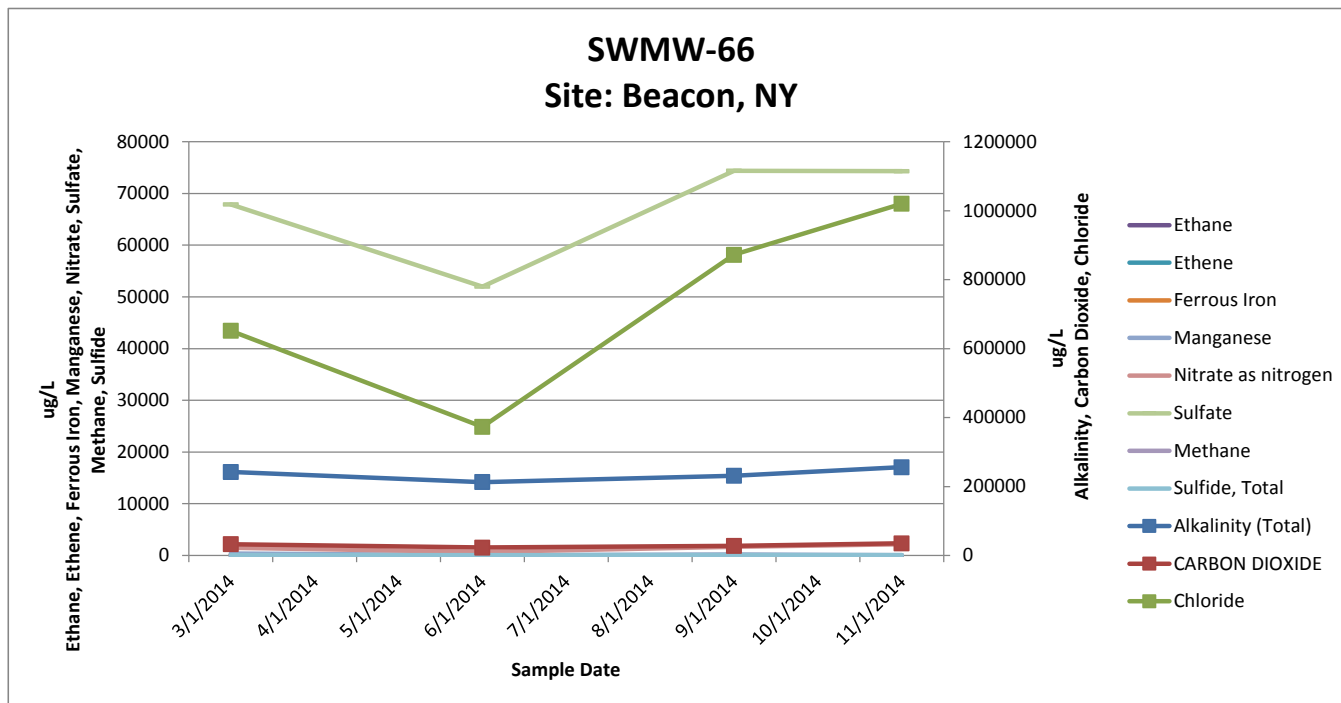


SWMW-55 Site: Beacon, NY

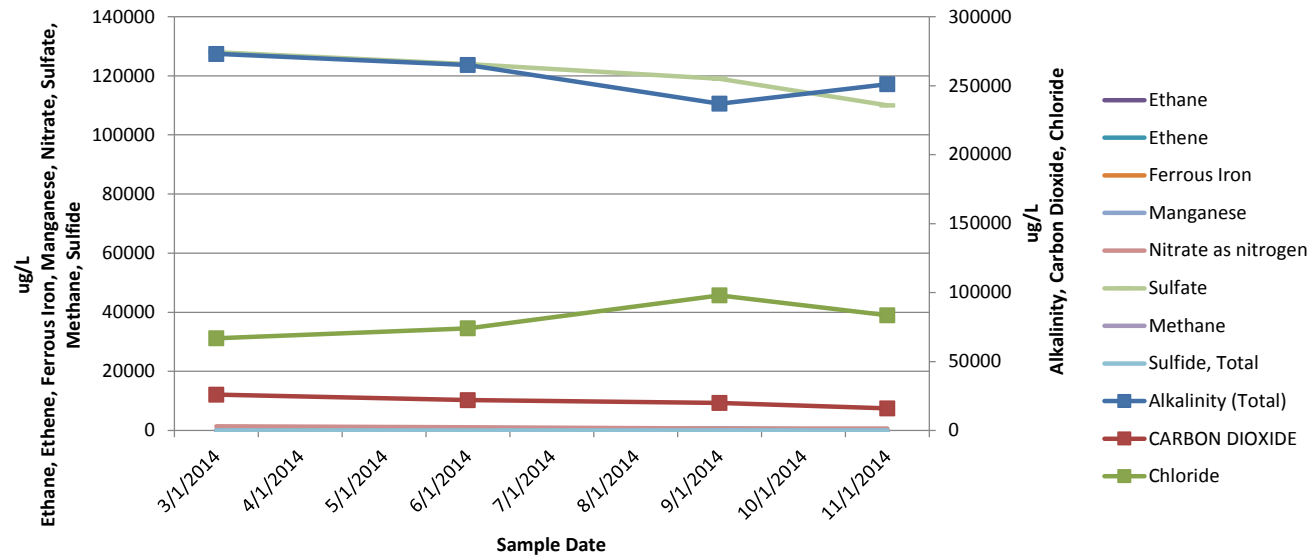




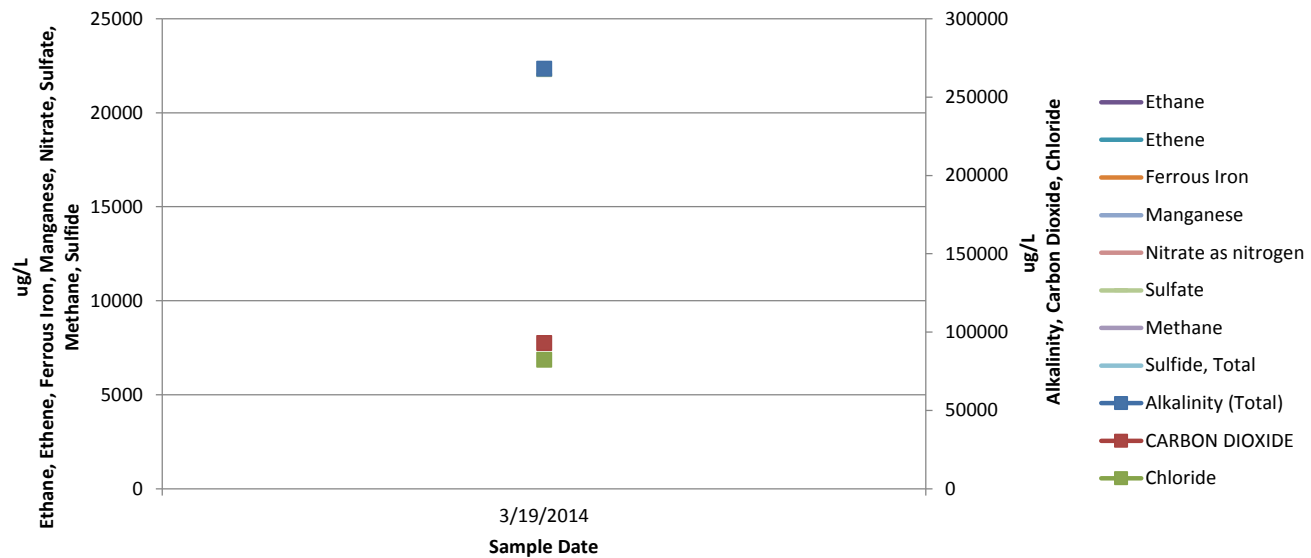


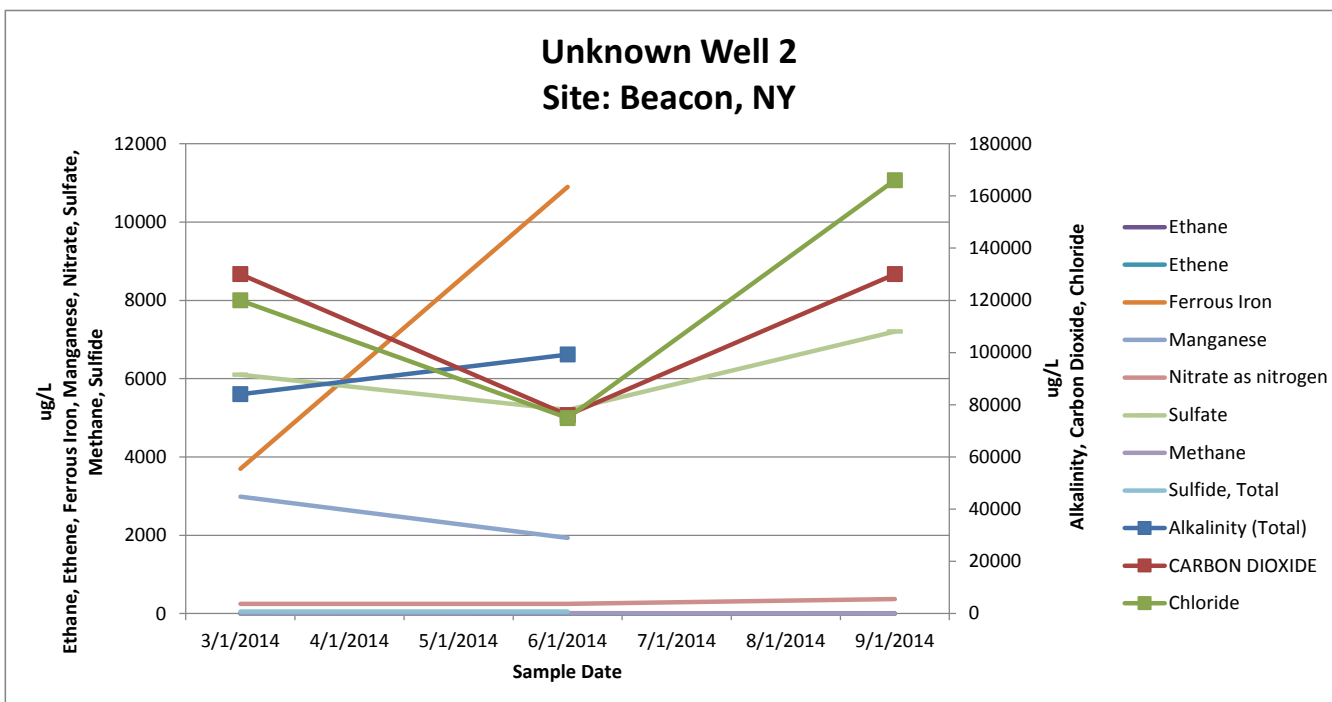
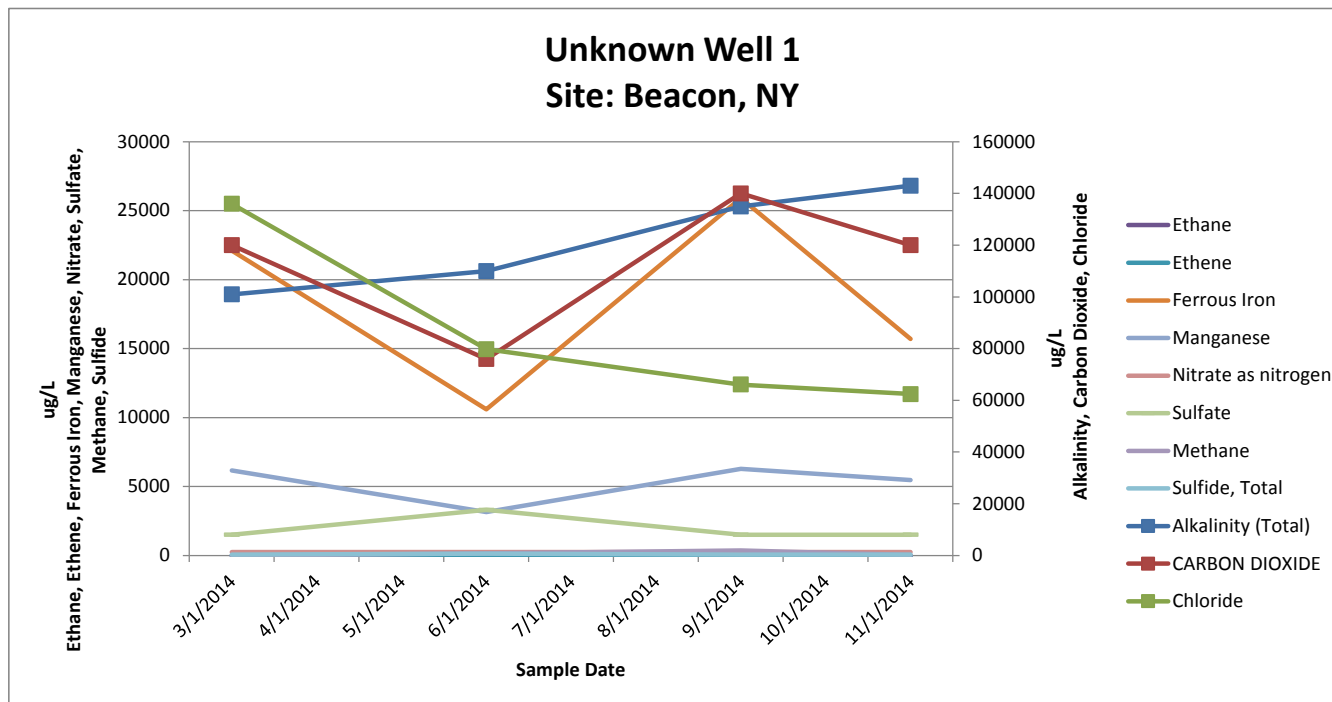


SWMW-68 Site: Beacon, NY



SWMW-71 Site: Beacon, NY





Unknown Well 3 Site: Beacon, NY

