
2012 SITEWIDE GROUNDWATER SAMPLING EVENT
Former Texaco Research Center
Beacon (Glenham), New York

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RCRA PERMIT# 3-1330-00048/16-0

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TABLE OF CONTENTS

	<u>Page</u>
LIST OF ACRONYMS	v
ENGINEER’S CERTIFICATION	1
EXECUTIVE SUMMARY	ES-1
SECTION 1 INTRODUCTION.....	1-1
1.1 PROJECT OBJECTIVES.....	1-1
1.2 REPORT ORGANIZATION.....	1-2
SECTION 2 SCOPE OF WORK.....	2-1
2.1 INTRODUCTION	2-1
2.2 SUMMARY OF WORK SCOPE.....	2-1
2.3 QA/QC PROGRAM	2-1
2.3.1 Field Duplicate and MS/MSD Samples, Wash Blanks, Trip Blanks	2-1
2.3.2 Sample Custody and Custody Seals	2-1
2.3.3 Laboratory Analyses.....	2-1
2.3.4 Data Validation.....	2-2
2.4 DATABASE MANAGEMENT	2-2
2.5 SELECTION OF SCREENING CRITERIA.....	2-2
2.6 INVESTIGATION METHODS	2-2
2.6.1 Groundwater Sampling.....	2-2
SECTION 3 ANALYTICAL RESULTS	3-1
3.1 BUILDING 51 AND NORTHEAST AREA.....	3-1
3.1.1 Northeast Area.....	3-1
3.1.2 Building 51 Area	3-1
3.2 WASHINGTON AVENUE TANK FARM AND RAIL SIDING AREA.....	3-2
3.3 BUILDINGS 36 AND 58/83 AREAS	3-3

TABLE OF CONTENTS (CONTINUED)

	<u>Page</u>
3.3.1 Building 36 Area	3-3
3.3.2 Building 58/83	3-3
3.4 BUILDING 45/55 AREA	3-4
3.5 CONCRETE FOUNDATION GROUNDWATER.....	3-5
3.6 ANALYTICAL DATA COMPARISON	3-5
3.7 GROUNDWATER RECEPTORS	3-6
SECTION 4 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS	4-1
4.1 INTRODUCTION	4-1
4.2 AREA SUMMARIES.....	4-1
4.2.1 Building 51 and the Northeast Area Summaries	4-1
4.2.1.1 Northeast Area	4-1
4.2.1.2 Building 51 Area	4-1
4.2.2 Washington Avenue Tank Farm and Rail Siding Area Summary	4-1
4.2.3 Buildings 36 and 58/83 Area Summaries	4-1
4.2.3.1 Building 36 Area	4-1
4.2.3.2 Building 58/83 Area	4-1
4.2.4 Building 45/55 Area Summary	4-2
4.2.5 Concrete Foundation Groundwater Sampling Summary	4-2
4.3 GROUNDWATER SAMPLING EVENT CONCLUSIONS	4-2
4.4 RECOMMENDATIONS.....	4-2
SECTION 5 REFERENCES.....	5-1

TABLE OF CONTENTS (CONTINUED)

LIST OF TABLES

- Table 1 - Groundwater Elevation Summary (October 9, 2012)
- Table 2 Groundwater Analytical Data Summary Table, Building 51 and Northeast Areas; Anions, TAL Metals, VOCs, and SVOCs
- Table 3 Groundwater Analytical Data Summary Table, Washington Avenue Tank Farm Avenue and Rail Siding Areas; Anions, TAL Metals, VOCs, and SVOCs
- Table 4 Groundwater Analytical Data Summary Table, Building 36/58/83 Areas; Anions, TAL Metals, VOCs, and SVOCs
- Table 5 Groundwater Analytical Data Summary Table, Building 45/55 Area; Anions, TAL Metals, VOCs, and SVOCs
- Table 6 Concrete Foundation Groundwater Analytical Data Summary Table; Anions, TAL Metals, VOCs, and SVOCs

LIST OF FIGURES

- Figure 1 Site Location Map
- Figure 2 Groundwater Monitoring Well Location Map
- Figure 3 Overburden Potentiometric Groundwater Surface Contour Map (October 2012)
- Figure 4 Bedrock Potentiometric Groundwater Surface Contour Map (October 2012)
- Figure 5 Groundwater Analytical Data Summary Map: Building 51 and Northeast Areas - TAL Metals, VOCs, and SVOCs
- Figure 6 Groundwater Analytical Data Summary Map: Washington Avenue Tank Farm and Rail Siding Areas - TAL Metals, VOCs, and SVOCs
- Figure 7 Groundwater Analytical Data Summary Map: Building 36 and Building 58/83 Areas - TAL Metals, VOCs, and SVOCs
- Figure 8 Groundwater Analytical Data Summary Map: Building 45/55 Areas - TAL Metals, VOCs, and SVOCs;

**TABLE OF CONTENTS
(CONTINUED)**

LIST OF APPENDICES

APPENDIX A DATA REVIEW SUMMARY REPORT

APPENDIX B GROUNDWATER SAMPLING RECORDS (OCTOBER 2012)

APPENDIX C ANALYTICAL DATA PACKAGE

APPENDIX D GIS FIGURES

APPENDIX E ANALYTICAL DATA TREND ANALYSIS GRAPHS

LIST OF ACRONYMS

µg/L	micrograms per liter (parts per billion (ppb))
ASTs	Aboveground Storage Tanks
ASP	Analytical Services Protocol
bgs	Below Ground Surface
COC	Chain of Custody
Creek	Fishkill Creek
CVOCs	Chlorinated Volatile Organic Compounds
EIM™	Environmental Information Management
ELAP	Environmental Laboratory Approval Program
EMC	Environmental Management Company
EPA	Environmental Protection Agency
FTA	Fleet Test Area
GIS	Geographic Information System
HDPE	High Density Polyethylene
ICM	Interim Corrective Measure
IDW	Investigation Derived Waste
ISS	Industrial Sewer System
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
Main Facility	Portion of the Site north of Fishkill Creek
MG/L	Milligrams/liter (parts per million, ppm)
MS/MSD	Matrix Spike and Matrix Spike Duplicate
NAPL	Non-Aqueous Phase Liquid
PAH	Polycyclic Aromatic Hydrocarbon
PVC	Polyvinyl Chloride
QA/QC	Quality Assurance and Quality Control
QAPP	Quality Assurance Project Plan
RCRA	Resource Conservation and Recovery Act
RFI	RRCA Facility Investigation
Site	Former Texaco Research Center Beacon
SRFI	Supplemental RFI

LIST OF ACRONYMS

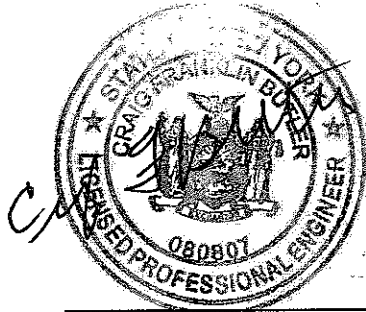
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SVOCs	Semivolatile Organic Compounds
TAL	Target Analyte List
TCE	Trichloroethene
TOGS	Technical and Operational Guidance Series
TRCB	Texaco Research Center Beacon
VOCS	Volatile Organic Compounds
WATF	Washington Avenue Tank Farm

ENGINEER'S CERTIFICATION

Certification of Completion

I certify that the 2012 Sitewide Groundwater Sampling Event has been completed as described in this document and in accordance with the Work Plan dated February 2010 for the Sitewide Groundwater Monitoring Well Program approved by the NYSDEC in the Spring of 2010.



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Parsons

04/12/13

Date

EXECUTIVE SUMMARY

The purpose of this report is to describe and document the results of the 2012 Sitewide Groundwater Sampling Event that was completed between October 9th through October 19th, 2012 at the former Texaco Research Center (TRCB) located in Beacon, New York (Site). A summary of results is provided below.

NORTHEAST AREA

- Groundwater was present in the one overburden well and in the bedrock. Groundwater in the bedrock occurs in fractures with depths greater than 35 feet below ground surface (bgs) at elevations between 200.74 and 249.32 feet (Texaco Datum).
- There were no volatile organic compounds (VOCs) or semivolatile organic compounds (SVOCs) identified in the groundwater samples collected. Metals detected at concentrations exceeding the groundwater screening criteria included magnesium, aluminum, iron, sodium, and thallium.

BUILDING 51 AREA

- Groundwater was present in the overburden and in the bedrock. Overburden groundwater occurred at depths between 8.71 and 20.38 feet bgs (197.36 and 208.03 feet Texaco Datum). Overburden groundwater tends to flow to the south toward Fishkill Creek. Groundwater in the bedrock occurred at depths between 8.61 and 47.39 feet bgs (188.95 and 197.83 feet Texaco Datum). Bedrock groundwater tends to flow to the south-southwest direction toward Fishkill Creek.
- Groundwater in both the overburden and bedrock contains VOCs and chlorinated volatile compounds (CVOCs) at concentrations exceeding screening criteria. SVOCs, polycyclic aromatic hydrocarbons (PAHs), and metal concentrations in the groundwater samples indicated some exceedances of the screening criteria.

WASHINGTON AVENUE TANK FARM (WATF) AREA AND RAIL SIDING AREA

- Groundwater was present in the overburden at depths ranging from approximately 2.72 to 12.32 feet bgs (201.04 feet to 201.38 feet Texaco Datum). Groundwater generally flows toward Fishkill Creek to the north of the Area. No floating NAPL was detected in any of the monitored wells, including well SWMW-21 which previously had NAPL detected.
- Overburden groundwater contains VOCs at concentrations exceeding screening criteria. SVOCs, PAHs, and metal concentrations in the groundwater samples indicated some exceedances of the screening criteria.

BUILDING 36 AREA

- Overburden is sparse in the area and there is only one overburden well. Overburden groundwater occurs at a depth of 3.84 feet which is lower than in 2010. Groundwater in the bedrock occurs at depths between 4.58 and 19.66 feet bgs (227.32 and 210.33 feet Texaco Datum). Groundwater flow in the overburden is assumed to flow toward the south, while flow in the bedrock is toward the south-southwest. Flow in both aquifers is toward Fishkill Creek.

- CVOCs and VOCs were detected in bedrock groundwater samples with concentrations exceeding the screening criteria. SVOCs, PAHs, and metal concentrations in the groundwater samples indicated some exceedances of the screening criteria.

BUILDING 58/83 AREA

- Overburden and bedrock groundwater elevations were generally consistent with previous measurements although they were lower than the 2010 elevations. No measureable floating NAPL was present in bedrock well SWMW-114 as was observed in previous sampling events. Groundwater flow in the overburden is toward the south, while flow in the bedrock is toward the south-southwest. Flow in both aquifers is toward Fishkill Creek.
- Groundwater from the four overburden monitoring wells sampled contained detectable CVOCs, VOCs, SVOCs, PAHs, and metals at concentrations that exceeded the screening criteria. Metal, CVOC, VOC, PAHs, and SVOC concentrations exceeded groundwater screening criteria in the bedrock wells.

NORTHWEST AREA

- Bedrock groundwater was measured at a lower elevation than in 2010. No samples were collected during field activities.

BUILDING 45/55 AREA

- Overburden and bedrock groundwater levels were generally lower than in 2010. Both overburden and bedrock groundwater flow is generally to the south toward Fishkill Creek.
- CVOCs and VOCs were detected in both the overburden and bedrock monitoring wells at concentrations that exceeded groundwater screening criteria. SVOCs, PAHs, and metals in the groundwater samples for both the overburden and bedrock wells showed some exceedances of the screening criteria.

CONCRETE FOUNDATION GROUNDWATER SAMPLING

- Thirty-one-(31) groundwater samples were collected from soil borings drilled through on site building concrete foundations. CVOCs, VOCs, PAHs, SVOCs, metals, and anions were detected at concentrations that exceeded groundwater screening criteria.

ANALYTICAL DATA COMPARISON

- Geographic Information System (GIS) contouring of groundwater constituent concentrations and analytical data trend analysis was performed for 2008, 2010, and 2012 data sets. The primary conclusion of the analysis was that natural attenuation through biodegradation (i.e., decontamination) was taking place at the Site. This conclusion was based on the observed decrease in groundwater plume boundaries, analyte concentration reduction from 2008 to 2012, and geochemical indicator parameters that indicated favorable conditions for biodegradation.

SECTION 1

INTRODUCTION

1.1 PROJECT OBJECTIVES

The purpose of this report is to describe and document the results of the sitewide groundwater sampling event that was completed from October 9th through October 19th, 2012 at the former Texaco Research Center Beacon (Site).

The results presented in the Sitewide RFI Report (Parsons, 2007a), Supplemental RFI (SRFI) (Parsons, 2009a), 2008 Sitewide Groundwater Sampling Event (Parsons, 2009b), and 2010 Sitewide Groundwater Sampling Event (Parsons, 2010) were used to identify six areas of the Site where there were indications that groundwater has been impacted by chemical constituents, namely:

- **Building 51 and Northeast Areas** - The Building 51 Area is located on the eastern side of the developed part of the Site. Historical mapping shows 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).
- **Washington Avenue Tank Farm Area** - The 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** - The Building 36 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. The Building 58/83 Area is located on the west end of the Main Facility.
- **Buildings 45/55 Area** - 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 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. 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 groundwater sampling event detailed in this report was designed to provide additional data to compare against data collected from previous groundwater sampling events. The results of the RFI, SRFI, 2008 Sitewide Groundwater Sampling Event, and 2010 Sitewide Groundwater Sampling Event were used to identify groundwater monitoring wells that historically had detected VOCs. These wells were sampled during this event.

1.2 REPORT ORGANIZATION

This report has been organized into sections similar to those presented in the RFI, SRFI, 2008 Sitewide Groundwater Sampling Event, and the 2010 Sitewide Groundwater Sampling Event Reports.

- Section 1 contains 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 recommendation for future sampling event.
- 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 sitewide groundwater sampling event was completed in accordance with the Generic Work Plan, Site Investigation Activities (Parsons, 2007b) and the project work plan (Parsons, 2011) approved by the New York State Department of Environmental Conservation (NYSDEC) via electronic mail in the Spring of 2010. In addition, groundwater samples were also collected as part of a Concrete Foundation Drilling Investigation (Parsons 2012) approved by NYSDEC via verbal approval to Parsons in the Fall of 2012. Full results of the Concrete Foundation Drilling investigation are provided in a separate Parsons report.

2.2 SUMMARY OF WORK SCOPE

The scope of work for the 2012 Sitewide Groundwater Sampling Event included the measurement of groundwater elevations and collection and analyses of groundwater samples from seventy-four (74) monitoring wells and thirty-one (31) temporary well points (part of the Concrete Foundation Drilling Investigation) located on the Site. Wells that did not contain a measurable quantity of water, contained light non-aqueous phase liquid (LNAPL), or did not indicate detectable VOC concentrations during previous sampling events, were not sampled. Analytical results included in this report were validated, as specified in the QAPP.

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 Generic Quality Assurance Project Plan (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 for the sample shipments. These logs and custody seals were used to ensure that sample integrity was not compromised during shipment. Shipment particulars, such as samples submitted, analyses requested, and sampling responsibility were recorded on the COCs. The field team retained one copy of the COC, and the laboratory received the remaining two copies 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 Lancaster Laboratories, Lancaster, Pennsylvania following the procedures outlined in the Generic QAPP (Parsons, 2007b).

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 Review Summary Report for groundwater samples is included in Appendix A, while a copy of the analytical laboratory reports with chain-of-custody documentation is 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 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, and the 2010 Sitewide Groundwater Sampling Event Reports.

2.6 INVESTIGATION METHODS

2.6.1 Groundwater Sampling

Prior to groundwater sampling, a round of water level measurements was performed at the area monitoring wells. Water level elevations have been determined and referenced to the Texaco Site Datum. A summary of the water level elevations has been included in Table 1 and plotted in Figure 3 for the overburden wells and Figure 4 for the bedrock wells.

Groundwater samples were collected from seventy-four (74) monitoring wells located at the Site. Groundwater samples were not collected from wells that did not contain a measurable

volume of water, did contain a measurable quantity of NAPL, or did not historically indicate VOCs concentrations.

Prior to sampling, wells were purged so that water representative of adjacent aquifer conditions was collected. The wells were purged using dedicated high density polyethylene (HDPE) bailers 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.

Water from each well was collected using dedicated disposable bailers. The samples collected were analyzed in accordance with the approved QAPP. Groundwater samples were analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, TAL Metals by Method 6010, California Oxygenates by EPA Method 8260, and sulfate and chloride by EPA Method 300.00.

In addition, thirty-one (31) groundwater samples were collected from Concrete Foundation Investigation boreholes as part of a Concrete Foundation Drilling Investigation that was performed in the fall of 2012. If groundwater was encountered within the borehole during the investigation, a one-inch diameter Schedule 40 polyvinyl chloride (PVC) well screen was inserted into the borehole with a small sand pack to help filter fine particulates. A minimum of three well volumes was purged from the temporary well point before groundwater samples were collected, utilizing dedicated disposable high density polyethylene (HDPE) tubing equipped with a check valve. Groundwater samples were analyzed for the same parameters as the monitoring wells.

2.6.2 Investigation Derived Wastes

The investigation derived waste (IDW) consisted of decontamination water and purged groundwater. IDW water was collected in a polyurethane tank and transported to the on-site industrial wastewater treatment system for disposal.

SECTION 3

ANALYTICAL RESULTS

3.1 BUILDING 51 AND NORTHEAST AREA

3.1.1 Northeast Area

There are seven (7) groundwater monitoring wells located in the Northeast Area. One is an overburden well, while the remaining six (6) are bedrock wells. Groundwater elevation levels in the Northeast wells were generally consistent with those of previous monitoring rounds indicating little seasonal or year-to-year variability. When compared to the 2010 elevations, well ITMW-3 exhibited a lower groundwater elevation, while the remaining wells (ITMW-4, SWMW-16, ITMW-17, SWMW-39, and SWMW-40) exhibited higher groundwater elevations. The average increase in groundwater elevations between 2010 and 2012 was 4.10 feet.

During the 2012 groundwater sampling event, only well ITMW-2 was sampled, because this well has consistently indicated detectable VOC concentrations in previous sampling events. No other wells located in the area historically exhibited VOCs and were, therefore, not sampled.

There were no VOCs or SVOCs detected above the groundwater screening criteria in the one sample collected. Metals detected above the groundwater screening criteria in the sample from the Northeast Area included aluminum, iron, magnesium, sodium, and thallium.

A summary of the groundwater analytical results from the Northeast Area is provided in Table 2 and analytical results for TAL Metals, VOCs and SVOCs are graphically depicted in Figure 5.

3.1.2 Building 51 Area

There are thirty-three (33) groundwater monitoring wells in the Building 51 Area. Six (6) of the wells are screened in the overburden groundwater and the other twenty-seven (27) are screened in the bedrock aquifer. The potentiometric surface in the overburden was generally higher than in 2010 (by less than one foot) with the exception of well SWMW-69. Groundwater in well SWMW-69 was measured at a lower elevation than in 2012. The overall flow direction in the overburden groundwater is to the south toward Fishkill Creek.

Bedrock groundwater elevations in the Building 51 Area were higher than in 2010 with the exception of wells SWMW-43 and SWMW-111. Well SWMW-43 exhibited a lower groundwater elevation in 2012 and well SWMW-111 exhibited the same elevation as in 2010. Overall groundwater flow in the bedrock is south-southwest toward Fishkill Creek.

Groundwater elevations in the overburden were higher than in 2010 by an average of 1.65 feet, while groundwater elevations in the bedrock were higher than in 2010 by an average of 1.64 feet. Groundwater elevation differences can be contributed to seasonal precipitation fluctuations.

During this sampling event, twenty-six (26) monitoring wells were sampled. The 26 wells chosen to be sampled exhibited historic concentrations of VOCs, while the remaining seven (7) wells were not sampled since they have not exhibited VOC concentrations during previous sampling events or did not contain a measurable amount of water for sampling (e.g. ITMW-7B).

Groundwater from the five (5) sampled overburden monitoring wells (SWMW-15, SWMW-58, SWMW-62, SWMW-67, and SWMW-113) contained CVOCs and VOCs at concentrations exceeding the screening criteria.

SVOC parameters that exceeded the screening criteria were detected in three (3) wells (SWMW-15, SWMW-62, and SWMW-113), while polycyclic aromatic hydrocarbons (PAHs) compounds were only detected in samples from SWMW-15 and SWMW-62.

Metals were detected in groundwater above screening criteria in all overburden monitoring wells sampled in the area. Chloride concentrations also exceeded screening criteria in wells SWMW-58 and SWMW-113.

Of the twenty-one (21) bedrock wells sampled, groundwater in ten (10) of the wells (SWMW-41, 56, 66, 68, 103, 105, 110, 112, 119, and 126) contained CVOCs and VOCs at concentrations exceeding screening criteria. PAHs and SVOCs were detected above screening criteria at five (5) sampling locations (ITMW-5 and 6, SWMW-14, 110, and 111).

Metal concentrations exceeded screening criteria in all of the groundwater samples, while chloride concentrations exceeding the NYSDEC groundwater screening criteria at four (4) locations (SWMW-12, 66, 103, and 105).

A summary of the Building 51 and Northeast Area analytical results is provided in Table 2 and analytical results for TAL Metals, VOCs, and SVOCs are graphically presented in Figure 5.

3.2 WASHINGTON AVENUE TANK FARM AND RAIL SIDING AREA

Out of the thirty-six (36) wells that exist in this area, two (2) are bedrock wells and the remaining are overburden wells. Water levels from the wells in the WATF Area varied in depth when compared to the 2010 elevations. Four (4) wells (SWMW-18, 20, 72, and 120) exhibited lower groundwater elevations (average decrease of 0.33 feet); while thirty-two (32) wells exhibited higher groundwater elevations (average increase of 0.72 feet). Differences in groundwater elevations can be contributed to seasonal precipitation fluctuations. Overall groundwater flow in the area is to the north toward Fishkill Creek.

VOCs were detected in five (5) of the sixteen (16) groundwater samples collected (SWMW-31, 32, 50, 61, and 71) at concentrations exceeding groundwater screening criteria. None of the samples contained CVOCs at concentrations exceeding screening criteria.

SVOCs and PAHs were detected in five (5) of the samples (SWMW-31, 61, 72, 102, and 127) at concentrations exceeding the screening criteria, while one (1) sample (SWMW-60) contained only SVOCs at concentrations exceeding groundwater screening criteria.

Metals were detected in all samples at concentrations exceeding the groundwater screening criteria, while chloride was detected in one (1) well (SWMW-32) at a concentration exceeding screening criteria.

A summary of the WATF and Rail Siding Area analytical results is provided in Table 3 and groundwater analytical results for TAL Metals, VOCs, and SVOCs are depicted graphically in Figure 6.

3.3 BUILDINGS 36 AND 58/83 AREAS

3.3.1 Building 36 Area

There are fourteen (14) monitoring wells in the Building 36 Area including one (1) overburden well. The overburden groundwater elevation was 0.35 feet higher than the 2010 measurement, while bedrock groundwater elevations in the Building 36 Area were generally higher than observed in 2010 (with the exception of well SWMW-45, which exhibited a lower elevation in 2012 (3.49 feet decrease)). The average increase of groundwater elevations in bedrock was 1.91 feet and can be contributed to fluctuations in precipitation. The overall groundwater flow in the overburden is toward the south, while flow in the bedrock is toward the south-southwest. Flow in both aquifers is toward Fishkill Creek.

During the sampling event, seven (7) bedrock monitoring wells were sampled because they historically have indicated VOC concentrations that exceed the groundwater screening criteria. VOC and CVOC concentrations that exceed the groundwater screening criteria were observed in four (4) samples (ITMW-22, SWMW-45, 55, and 123), while one (1) sample (ITMW-31) contained only VOCs at concentrations exceeding screening criteria.

Three (3) samples (ITMW-22, SWMW-55, and SWMW-123) contained both PAH and SVOC concentrations that were above the screening criteria, while one (1) sample (SWMW-45) contained only PAH concentrations exceeding the groundwater screening criteria.

Metal concentrations exceeded groundwater screening criteria in all seven (7) samples, while chloride concentrations exceeded the NYSDEC groundwater standard in one (1) sample (SWMW-45).

3.3.2 Building 58/83

Twenty-three (23) groundwater monitoring wells exist in the Building 58/83 Area (eight (8) overburden and fifteen (15) bedrock). Overburden groundwater elevations were generally consistent with previous measurements, although they were slightly higher (average increase of 1.20 feet) than those measured in 2010 (with the exception of well GT-2). The groundwater elevation at well GT-2 was slightly lower in 2012 (0.15 feet decrease).

Bedrock groundwater elevations in the Building 58/83 area were higher than those measured in 2010 (average increase of 1.26 feet), but are consistent with past measurements (with the exception of well SWMW-2). The groundwater elevation at well SWMW-2 was slightly lower in 2012 (0.11 feet decrease).

Groundwater flow in the overburden is toward the south, while flow in the bedrock is toward the south-southwest. Flow in both aquifers is toward Fishkill Creek.

Groundwater samples were collected from four (4) overburden wells (GT-2, Unknown Wells 1, 2, and 3) and eight (8) bedrock wells. The wells chosen to be sampled have consistently indicated VOC concentrations that exceed the groundwater screening criteria, with the exception of bedrock well SWMW-114. Well SWMW-114 has contained NAPL in the past and has not been sampled. The well did not contain NAPL during 2012 sampling activities; therefore, the well was sampled.

Samples from overburden monitoring wells (GT-2 and Unknown Wells 1, 2, and 3) contained detectable CVOCs and VOCs; while well GT-2 contained PAH and SVOC concentrations exceeding screening criteria. Unknown Wells 1, 2, and 3 contained SVOC

concentrations that exceeded groundwater screening criteria. Chloride was not detected in any sample.

Groundwater from bedrock monitoring wells (ITMW-13, SWMW-2, 114, and 125) contained CVOC and VOC concentrations that exceeded screening criteria; while groundwater from bedrock monitoring well ITMW-14 contained PAH and SVOC concentrations that were above screening criteria. Groundwater from wells ITMW-13, SWMW-114 and 125 contained SVOC concentrations that exceeded groundwater screening criteria.

Groundwater metal concentrations from all bedrock wells exceeded screening criteria, while no sample indicated chloride at a concentration above groundwater screening criteria.

A summary of the groundwater analytical results are provided in Table 4 and analytical results for TAL metals, VOCs, and SVOCs are graphically depicted in Figure 7.

3.4 BUILDING 45/55 AREA

There are twenty-four (24) monitoring wells in the Building 45/55 Area including twelve (12) overburden wells. During the 2012 sampling event, there were no measurable water levels in two of the wells (SWMW-8 and SWMW-23) and one well (ITMW-28) was inaccessible due to a large boulder lying against it. These wells were not sampled. Of the 24 wells that exist in the Area, seven (7) overburden wells (ITMW-24, 25, SWMW-10, 24, 25, 28, and SB35-1R) and five (5) bedrock wells (SWMW-9, 27, 44, 117, and 118) were sampled. These wells were sampled because they historically indicated elevated concentrations of VOCs.

Overburden groundwater levels in the Building 45/55 Area were generally higher than the 2010 levels, with the exception of wells SWMW-65 and SB35-3R. These wells had lower groundwater elevations in 2012. Decrease of 0.06 feet for well SWMW-65 and 0.45 feet for well SB35-3R. Overburden groundwater flow is generally to the south toward Fishkill Creek.

Bedrock groundwater elevations in the Building 45/55 Area were higher than the 2010 measurements, with the exception of well SWMW-118. Well SWMW-118 exhibited an elevation 0.06 feet lower in 2012. Groundwater flow in the bedrock is to the south toward Fishkill Creek.

Groundwater elevations in the overburden were higher than in 2010 by an average of 0.67 feet, while bedrock elevations were higher by an average of 1.34 feet. Elevation differences contributed to seasonal precipitation fluctuations.

Three (3) overburden groundwater samples (ITMW-25, SWMW-10, and SWMW-28) contained CVOC and VOC concentrations that exceeded the groundwater screening criteria, while six (6) overburden groundwater samples (ITMW-24, 25, SWMW-10, 24, 25, and 28) contained both PAHs and SVOCs at concentrations that exceeded screening criteria.

All overburden groundwater samples contained metals at concentrations that exceeded the screening criteria. Chloride was detected in one sample (SWMW-28) at 273 mg/L, while sulfate was detected in well SWMW-24 at 295 mg/L. Both parameters exceeded groundwater screening criteria.

CVOC, VOC, and SVOC compounds were detected in two bedrock groundwater samples (SWMW-27, and 44) at concentrations that exceeded the groundwater screening criteria. No bedrock groundwater sample contained PAH concentrations above screening criteria.

All bedrock monitoring well samples contained metal concentrations that exceeded screening criteria. Chloride was also detected in three bedrock well samples (SWMW-9, 27, and 118) at concentrations that exceeded the groundwater screening criteria.

A summary of the groundwater analytical results is provided in Table 5 and analytical results for TAC metals, VOCs, and SVOCs are graphically depicted in Figure 8.

3.5 CONCRETE FOUNDATION GROUNDWATER

During the Fall of 2012, soil borings were drilled through the Site's building foundations to determine soil quality and, if groundwater was encountered, determine whether Site constituents were detectable. Thirty-one (31) groundwater samples were collected. Depths to water varied from 2 to 10 feet bgs.

CVOCs and VOCs were detected in ten (10) samples (PCFGW-1, 2, 11, 12, 13, 16, 55, 92, 112, and 122) at concentrations that exceeded groundwater screening criteria, while five (5) samples (PCFGW-15, 21, 53, 107, and 110) contained only VOCs at concentrations that exceeded screening criteria.

PAH and SVOC concentrations that exceeded the groundwater screening criteria were detected in nine (9) samples (PCFGW-12, 13, 15, 36, 53, 57, 89, 112, and 122), while fifteen (15) samples (PCFGW-1, 2, 11, 14, 16, 21, 54, 55, 56, 85, 92, 99, 107, 108, and 110) contained only SVOCs at concentrations that exceeded groundwater screening criteria.

All samples contained metal concentrations that exceeded screening criteria. Chloride was detected in sample PCFGW-2 and sulfate was detected in three (3) samples (PCFGW-10, 36, and 110) at concentrations exceeding screening criteria. In addition, analytical results indicated three areas (Building 28/29, 42, and 52) of groundwater impact not previously identified. VOCs were the primary contaminants in these areas.

A summary of the groundwater analytical results is provided in Table 6 and analytical results for TAC metals, VOCs, and SVOCs are graphically depicted in Figures 5 through 8.

3.6 ANALYTICAL DATA COMPARISON

Four parameters (benzene, vinyl chloride, trichloroethene, and chlorobenzene) from the 2008, 2010, and 2012 sitewide sampling events were contoured using a GIS based groundwater mapping program. These four parameters were chosen because they represented 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 three monitoring 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. Upon review, it was concluded that natural attenuation through biodegradation (i.e., decontamination) of the organic parameters is taking place at the Site. This conclusion was based on the observed decrease in plume extent (boundaries) and reduction in parameter concentrations between 2008 and 2012, as well as the presence of geochemical parameters (e.g., pH, dissolved oxygen, redox potential, etc.) that indicate conditions in the aquifers are conducive to biodegradation.

Analytical data trend analysis for the four parameters, as well as total VOCs and SVOCs, was also performed for wells sampled between 2008 through 2012 (trend charts are included in Appendix E). Trend analysis corroborated the observed decrease in parameter concentrations from 2008 to 2012, thereby supporting the conclusion of active biodegradation.

3.7 GROUNDWATER RECEPTORS

Based on analytical results and observed groundwater flow directions, groundwater plumes located adjacent to Fishkill Creek (e.g., Building 51 Area, Building 45/55 Area, WATF Area, and Building 36/58/83 Area) have the potential to discharge to the creek. This conclusion is based on the assumed hydraulic connection between the overburden/bedrock aquifers and the creek.

SECTION 4

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

4.1 INTRODUCTION

The purpose of this section is to present summaries and conclusions for each Area in which groundwater wells were sampled in October 2012 and provide recommendations and logic for future sampling/field event(s).

4.2 AREA SUMMARIES

4.2.1 Building 51 and the Northeast Area Summaries

4.2.1.1 Northeast Area

The results from the 2012 Groundwater Sampling Event are generally consistent with those of previous sampling events. VOCs and SVOCs were not detected in any of the groundwater samples at concentrations exceeding the screening criteria. The metals identified in the groundwater samples and their concentrations are also consistent with the results of previous sampling events. However, not all anions were consistent with past sampling events. Chloride was not detected in 2012, where it had been previously.

Based on the results from the 2012 sampling event, groundwater has not been impacted by former operations in this area of the Site.

4.2.1.2 Building 51 Area

Analytical results from the 2012 Sitewide Groundwater Sampling event indicate groundwater in the overburden and the bedrock in the Building 51 Area continues to be primarily impacted by VOCs and SVOCs.

4.2.2 Washington avenue Tank Farm and Rail Siding Area Summary

The 2012 analytical results are generally consistent with the historical results. There continues to be an impact to the overburden groundwater within the Tank Farm. In addition, no free-phase LNAPL on the overburden groundwater was observed in 2012 (as it was in previous sampling events).

4.2.3 Buildings 36 and 58/83 Area Summaries

4.2.3.1 Building 36 Area

The bedrock groundwater in the vicinity of Building 36 continues to be impacted with VOCs, with the constituents primarily limited to petroleum-based (i.e. BTEX) products. Solvent-based (chlorinated) VOCs were identified in the bedrock groundwater northeast of Building 36. The concentrations and contaminants identified were generally consistent with results observed in previous sampling events.

4.2.3.2 Building 58/83 Area

Impacts to groundwater continue to appear to be limited to the overburden groundwater in the vicinity of Building 83 and both overburden and bedrock groundwater in the immediate vicinity of Building 58. No NAPL was observed in bedrock well SWMW-114 (as it was in

previous sampling events). Groundwater analytical results indicate the presence of BTEX compounds as well as chlorinated VOCs.

4.2.4 Building 45/55 Area SUMMARY

Overburden and bedrock groundwater in the Building 45/55 area continues to be impacted with VOCs and SVOCs.

4.2.5 CONCRETE FOUNDATION GROUNDWATER SAMPLING SUMMARY

Based on sampling activities in the Fall of 2012, VOC and SVOC impacts exist in several areas at the site underneath the building foundations where groundwater contamination in the immediate vicinity of the foundation was previously identified. In addition, sampling activities revealed three areas of groundwater impact not previously identified that primarily include VOCs. Areas of impact identified from foundation investigation are listed below.

- Under Building 28/29 concrete foundation.
- Under Building 42 concrete foundation.
- Under Building 52 concrete foundation.

4.3 GROUNDWATER SAMPLING EVENT CONCLUSIONS

Based on reviewing analytical results and the data trend analysis summarized above, the following conclusions can be made:

- Constituents are still present in groundwater at each of the Areas identified above.
- Groundwater plume boundaries are either reducing in size or remaining stable (plume boundaries not increasing). This conclusion is based on observed parameter concentration reduction between 2008 through 2012 (both in data trend analysis graphs and GIS contours).
- Groundwater plumes located adjacent to Fishkill Creek (e.g., Building 51 Area, Building 45/55 Area, WATF Area, and Building 36/58/83 Area) are potentially discharging to the creek. This conclusion is based on the assumed hydraulic connection between the overburden/bedrock aquifers and the creek.
- Three VOC groundwater plumes (one at Building 42, one at Building 28/29, and one at Building 52; see GIS contours for benzene and chlorobenzene concentrations for 2012 in Appendix D) were contoured in which no groundwater data location (monitoring well) existed to the north to validate the delineation of the plume boundary. These plumes were identified using analytical results obtained from the Concrete Foundation Drilling program completed in the Fall of 2012.

4.4 RECOMMENDATIONS

Based on the aforementioned conclusions; it is recommended that a full round of groundwater sampling, the installation of three groundwater monitoring well pairs (one well pair north of Building 42, one well pair north of Building 28, and one well pair northwest of Building 58), and the installation of one overburden monitoring well north of Building 52 be performed in 2013. The field event would involve sampling all groundwater monitoring wells that exist on site, along with wells located on the Westage and Undeveloped Properties. The installation of well pairs would involve installing one well within the overburden and one well within the bedrock for each pair. Performing this expanded groundwater sampling activity (and well installations), should provide additional data to validate GIS plume contours and provide

groundwater data to fully delineate plume boundaries for the three VOC plumes identified at Buildings 28/29, 42, and 52 during the Concrete Foundation Drilling program.

SECTION 5

REFERENCES

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TABLES

TABLE 1
GROUNDWATER ELEVATION SUMMARY
(October 9, 2012)
2012 SITEWIDE RCRA FACILITY INVESTIGATION
FORMER TEXACO RESEARCH FACILITY
BEACON, NEW YORK

Well ID	Top of Casing Elevation⁽¹⁾ (Feet)	Depth to Product (Feet)	Depth to Water (Feet)	Product Thickness (Feet)	Elevation of Water (Feet)
SWMW-1	228.91	3.03	3.03	0.00	225.88
SWMW-2	216.56	5.61	5.61	0.00	210.95
SWMW-3	221.02	5.71	5.71	0.00	215.31
SWMW-4	229.10	4.89	4.89	0.00	224.21
SWMW-5	217.18	3.73	3.73	0.00	213.45
SWMW-6	251.70	11.21	11.21	0.00	240.49
SWMW-7	238.44	9.02	9.02	0.00	229.42
SWMW-8	240.76	0.00	0.00	0.00	NM
SWMW-9	234.44	4.73	4.73	0.00	229.71
SWMW-10	231.53	3.43	3.43	0.00	228.10
SWMW-11	210.05	17.92	17.92	0.00	192.13
SWMW-12	217.07	22.65	22.65	0.00	194.42
SWMW-13	236.34	47.39	47.39	0.00	188.95
SWMW-14	206.33	9.36	9.36	0.00	196.97
SWMW-15	220.97	14.60	14.60	0.00	206.37
SWMW-16	245.39	44.03	44.03	0.00	201.36
SWMW-17	246.84	46.10	46.10	0.00	200.74
SWMW-18	204.49	7.85	7.85	0.00	196.64
SWMW-19	203.41	6.67	6.67	0.00	196.74
SWMW-20	204.83	7.95	7.95	0.00	196.88
SWMW-21	206.11	6.09	6.09	0.00	200.02
SWMW-22	207.22	8.71	8.71	0.00	198.51
SWMW-23	241.59	Dry	Dry	Dry	Dry
SWMW-24	234.03	4.85	4.85	0.00	229.18
SWMW-25	232.24	3.64	3.64	0.00	228.60
SWMW-26	232.52	3.82	3.82	0.00	228.70
SWMW-27	185.65	8.64	8.64	0.00	177.01
SWMW-28	185.61	9.99	9.99	0.00	175.62
SWMW-29	204.69	6.96	6.96	0.00	197.73
SWMW-30	205.44	8.54	8.54	0.00	196.90
SWMW-31	203.82	6.94	6.94	0.00	196.88
SWMW-32	204.46	7.75	7.75	0.00	196.71
SWMW-33	203.63	6.94	6.94	0.00	196.69
SWMW-34	203.46	6.65	6.65	0.00	196.81
SWMW-35	204.12	7.30	7.30	0.00	196.82
SWMW-36	203.29	6.55	6.55	0.00	196.74
SWMW-37	206.08	4.74	4.74	0.00	201.34
SWMW-38	204.38	7.29	7.29	0.00	197.09
SWMW-39	239.22	31.87	31.87	0.00	207.35
SWMW-40	257.29	7.97	7.97	0.00	249.32
SWMW-41	206.02	8.80	8.80	0.00	197.22
SWMW-42	221.15	5.87	5.87	0.00	215.28
SWMW-43	214.12	19.21	19.21	0.00	194.91
SWMW-44	231.45	3.37	3.37	0.00	228.08

TABLE 1
GROUNDWATER ELEVATION SUMMARY
(October 9, 2012)
2012 SITEWIDE RCRA FACILITY INVESTIGATION
FORMER TEXACO RESEARCH FACILITY
BEACON, NEW YORK

Well ID	Top of Casing Elevation⁽¹⁾ (Feet)	Depth to Product (Feet)	Depth to Water (Feet)	Product Thickness (Feet)	Elevation of Water (Feet)
SWMW-45	229.99	19.66	19.66	0.00	210.33
SWMW-46	223.31	7.02	7.02	0.00	216.29
SWMW-47	215.78	4.11	4.11	0.00	211.67
SWMW-48	228.79	6.35	6.35	0.00	222.44
SWMW-49	220.74	19.61	19.61	0.00	201.13
SWMW-50	205.54	4.69	4.69	0.00	200.85
SWMW-51	216.76	3.73	3.73	0.00	213.03
SWMW-52	223.49	7.01	7.01	0.00	216.48
SWMW-53	203.77	7.02	7.02	0.00	196.75
SWMW-54	229.93	3.84	3.84	0.00	226.09
SWMW-55	230.19	14.91	14.91	0.00	215.28
SWMW-56	221.07	19.57	19.57	0.00	201.50
SWMW-57	239.44	8.02	8.02	0.00	231.42
SWMW-58	219.38	13.15	13.15	0.00	206.23
SWMW-59	217.27	3.86	3.86	0.00	213.41
SWMW-60	206.00	4.82	4.82	0.00	201.18
SWMW-61	203.76	2.72	2.72	0.00	201.04
SWMW-62	206.07	8.71	8.71	0.00	197.36
SWMW-63	213.38	10.70	10.70	0.00	202.68
SWMW-64	184.98	8.79	8.79	0.00	176.19
SWMW-65	185.81	8.78	8.78	0.00	177.03
SWMW-66	218.82	19.13	19.13	0.00	199.69
SWMW-67	224.58	12.91	12.91	0.00	211.67
SWMW-68	224.45	24.66	24.66	0.00	199.79
SWMW-69	228.41	20.38	20.38	0.00	208.03
SWMW-70	228.45	21.86	21.86	0.00	206.59
SWMW-71	207.54	7.63	7.63	0.00	199.91
SWMW-72	205.36	4.88	4.88	0.00	200.48
SWMW-73	206.30	6.63	6.63	0.00	199.67
SWMW-74	206.35	8.02	8.02	0.00	198.33
SWMW-101	206.32	5.16	5.16	0.00	201.16
SWMW-102	207.19	5.82	5.82	0.00	201.37
SWMW-103	217.08	19.73	19.73	0.00	197.35
SWMW-104	239.51	41.32	41.32	0.00	198.19
SWMW-105	233.95	45.33	45.33	0.00	188.62
SWMW-106	225.98	32.78	32.78	0.00	193.20
SWMW-108	222.11	19.99	19.99	0.00	202.12
SWMW-109	219.60	22.85	22.85	0.00	196.75
SWMW-110	219.89	22.20	22.20	0.00	197.69
SWMW-111	217.92	19.90	19.90	0.00	198.02
SWMW-112	206.80	9.08	9.08	0.00	197.72
SWMW-113	206.48	9.44	9.44	0.00	197.04

TABLE 1
GROUNDWATER ELEVATION SUMMARY
(October 9, 2012)
2012 SITEWIDE RCRA FACILITY INVESTIGATION
FORMER TEXACO RESEARCH FACILITY
BEACON, NEW YORK

Well ID	Top of Casing Elevation⁽¹⁾ (Feet)	Depth to Product (Feet)	Depth to Water (Feet)	Product Thickness (Feet)	Elevation of Water (Feet)
SWMW-114	219.07	14.82	14.82	0.00	204.25
SWMW-115	216.37	4.99	4.99	0.00	211.38
SWMW-116	231.93	8.03	8.03	0.00	223.90
SWMW-117	232.29	3.14	3.14	0.00	229.15
SWMW-118	190.46	8.51	8.51	0.00	181.95
SWMW-119	227.67	27.74	27.74	0.00	199.93
SWMW-120	208.65	11.83	11.83	0.00	196.82
SWMW-121	207.07	7.79	7.79	0.00	199.28
SWMW-122	219.58	21.61	21.61	0.00	197.97
SWMW-123	230.39	16.89	16.89	0.00	213.50
SWMW-124	216.05	4.60	4.60	0.00	211.45
SWMW-125	219.63	11.82	11.82	0.00	207.81
SWMW-126	206.44	8.61	8.61	0.00	197.83
SWMW-127	211.05	9.82	9.82	0.00	201.23
SWMW-128	213.70	12.32	12.32	0.00	201.38
SWMW-129	213.43	10.48	10.48	0.00	202.95
SWMW-130 ⁽²⁾	NM	NM	NM	NM	NM
SWMW-131 ⁽²⁾	NM	NM	NM	NM	NM
SWMW-132 ⁽²⁾	NM	NM	NM	NM	NM
SWMW-133	222.32	46.48	46.48	0.00	175.84
SWMW-134	207.03	10.36	10.36	0.00	196.67
ITMW-2	244.10	45.89	45.89	0.00	198.21
ITMW-3	243.50	37.03	37.03	0.00	206.47
ITMW-4	222.32	18.79	18.79	0.00	203.53
ITMW-5	220.18	NM	NM	NM	NM
ITMW-6	220.16	21.09	21.09	0.00	199.07
ITMW-7	223.76	Dry	Dry	Dry	Dry
ITMW-8 ⁽³⁾	216.37	NM	NM	NM	NM
ITMW-9	241.57	12.36	12.36	0.00	229.21
ITMW-11	261.89	10.06	10.06	0.00	251.83
ITMW-12	234.36	9.30	9.30	0.00	225.06
ITMW-13	216.58	8.71	8.71	0.00	207.87
ITMW-14	216.56	4.90	4.90	0.00	211.66
ITMW-20	217.36	3.25	3.25	0.00	214.11
ITMW-21	233.62	5.93	5.93	0.00	227.69
ITMW-22	233.17	15.20	15.20	0.00	217.97
ITMW-24	236.98	7.38	7.38	0.00	229.60

TABLE 1
GROUNDWATER ELEVATION SUMMARY
(October 9, 2012)
2012 SITEWIDE RCRA FACILITY INVESTIGATION
FORMER TEXACO RESEARCH FACILITY
BEACON, NEW YORK

Well ID	Top of Casing Elevation⁽¹⁾ (Feet)	Depth to Product (Feet)	Depth to Water (Feet)	Product Thickness (Feet)	Elevation of Water (Feet)
ITMW-25	232.09	11.04	11.04	0.00	221.05
ITMW-28 ⁽⁴⁾	191.06	NM	NM	NM	NM
ITMW-29	231.90	4.58	4.58	0.00	227.32
ITMW-30	231.55	7.66	7.66	0.00	223.89
ITMW-31	232.12	6.84	6.84	0.00	225.28
SB35-1R	183.68	7.73	7.73	0.00	175.95
SB35-3R	190.89	5.06	5.06	0.00	185.83
SB35-4R	185.22	9.80	9.80	0.00	175.42
BR-2	216.93	4.68	4.68	0.00	212.25
GT-1	219.44	2.31	2.31	0.00	217.13
GT-2	217.06	4.82	4.82	0.00	212.24
TF-5	207.58	6.22	6.22	0.00	201.36
TF-6	202.63	5.76	5.76	0.00	196.87
TF-15	205.26	8.46	8.46	0.00	196.80
TF-23	207.20	6.72	6.72	0.00	200.48
TF-26	203.82	5.91	5.91	0.00	197.91
unk-1	216.73	5.17	5.17	0.00	211.56
unk-2	216.52	5.02	5.02	0.00	211.50
unk-3	216.74	5.17	5.17	0.00	211.57

Notes:

- (1) Top Casing elevations referenced to site vertical datum established by Texaco in 1957.
- (2) Well non-accessible because located on neighboring property and current Access Agreement not in-place.
- (3) Well could not be located.
- (4) Well non-accessible due to boulder lying on top of well.

TABLE 2
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
BUILDING 51 AND NORTHEAST AREA
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, AND SVOCs

			Field Sample ID	ITMW-2(101712)	ITMW-5(101612)	ITMW-6(101612)	SWMW-12(101712)	SWMW-14(101612)	SWMW-15(101612)	SWMW-41(101612)	SWMW-56(101612)	SWMW-158(101612) ⁽¹⁾	SWMW-58(101612)	SWMW-62(101212)
			Location	ITMW-2	ITMW-5	ITMW-6	SWMW-12	SWMW-14	SWMW-15	SWMW-41	SWMW-56	SWMW-58	SWMW-58	SWMW-62
			Sample Date	10/17/2012	10/16/2012	10/16/2012	10/17/2012	10/16/2012	10/16/2012	10/16/2012	10/16/2012	10/16/2012	10/16/2012	10/12/2012
			Sample Delivery Group	1343207	1342893	1342893	1343207	1342893	1342893	1342893	1342893	1342893	1342893	1342157
			Matrix	WATER	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	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
			NY_TOGS ⁽¹⁾											
Parameter Name	Units	Analytical Method												
Anions by EPA Method 300.0														
Chloride	mg/l	EPA 300.0	250	423 U	37.8	3.6	572	8.6	94	244	129	291	376	75.5
Sulfate	mg/l	EPA 300.0	250	68.1	42.7	6.9	69.5	10.8	131	32.8	40.4	65.4	66.3	72.2
Metals by EPA Method 6010B														
Aluminum	mg/l	SW-846 6010B	0.1	4.83	8.38	3.87 J	0.177 J	9.7	99.2	0.216	0.208	10.1	9.81	73.1
Antimony	mg/l	SW-846 6010B	0.003	0.0035 U	0.005 J	0.0048 J	0.0035 U	0.0035 U	0.0081 J	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U
Arsenic	mg/l	SW-846 6010B	0.025	0.0101 J	0.0171 J	0.0133 J	0.0068 U	0.0137 J	0.249	0.0068 U	0.0068 U	0.0071 J	0.0073 J	0.0512
Barium	mg/l	SW-846 6010B	1	0.101	0.186	0.112	0.0899	0.139	0.67	0.0918	0.0806	0.135	0.135	0.347
Beryllium	mg/l	SW-846 6010B	0.003	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00086 J	0.0047 J	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.0032 J
Cadmium	mg/l	SW-846 6010B	0.005	0.00036 U	0.0046 J	0.002 J	0.0005 J	0.0015 J	0.0203	0.00044 J	0.00036 U	0.00036 U	0.00036 U	0.00036 U
Calcium	mg/l	SW-846 6010B	NS	152	78	50.3	101	33.7	307	104	96.9	141	142	104
Chromium	mg/l	SW-846 6010B	0.05	0.0169	0.0168	0.0097 J	0.0014 J	0.0104 J	0.206	0.0016 J	0.0011 U	0.0194	0.0195	0.0904
Cobalt	mg/l	SW-846 6010B	0.005	0.0016 J	0.0052 U	0.005 U	0.0015 J	0.005 U	0.0798	0.005 U	0.005 U	0.005 U	0.005 U	0.04
Copper	mg/l	SW-846 6010B	0.2	0.0083 J	0.0806	0.0306	0.0021 U	0.0301	0.593	0.0021 U	0.0021 U	0.0073 J	0.0064 J	0.1
IRON	mg/l	SW-846 6010B	0.3	15.1	13.2	6.07	0.867	13.2	233	0.719	0.271	12.4	12.2	107
Lead	mg/l	SW-846 6010B	0.025	0.0088 J	0.138	0.0633	0.0067 J	0.083	1.21	0.0051 U	0.0051 U	0.0132 J	0.013 J	0.181
Magnesium	mg/l	SW-846 6010B	35	61.9	13.7	15	36.2	8.71	134	49.8	45.6	38.6	38.1	51.3
Manganese	mg/l	SW-846 6010B	0.3	0.194	0.379	0.316	1.66	0.284	8.26	0.209	0.107	1.04	1.02	5.24
Nickel	mg/l	SW-846 6010B	0.1	0.0049 J	0.0141	0.0059 J	0.0015 J	0.0097 J	0.178	0.0011 J	0.0011 U	0.0116	0.0108	0.0899
Potassium	mg/l	SW-846 6010B	NS	3.2	4.41	2.09	4.57	3.03	16.6	4.37	1.42	4.37	4.38	13
Selenium	mg/l	SW-846 6010B	0.01	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U
Silver	mg/l	SW-846 6010B	0.05	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0058	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
Sodium	mg/l	SW-846 6010B	20	149	25.2	12 J	436	7.76	76.2	79.5	32.5	147	147	114
Thallium	mg/l	SW-846 6010B	0.0005	0.007 J	0.03 U	0.03 U	0.0105 J	0.03 U	0.0057 U	0.03 U	0.03 U	0.03 U	0.03 U	0.0057 U
Vanadium	mg/l	SW-846 6010B	NS	0.0141	0.0267	0.0115	0.0013 U	0.0164	0.18	0.0013 U	0.0013 U	0.014	0.0134	0.0923
Zinc	mg/l	SW-846 6010B	2	0.0226	0.312	0.13	0.0141 J	0.29	1.97	0.0049 J	0.0093 J	0.03	0.029	0.293
Mercury by EPA Method 7470A														
Mercury	mg/l	SW-846 7470A	0.0007	0.00007 U	0.003	0.0017 J	0.00007 U	0.0025	0.001	0.00007 U	0.00007 U	0.00007 U	0.00007 U	0.002
VOCs ⁽⁴⁾ by EPA Method 8260B														
1,1,1-Trichloroethane ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	1100	0.8 U	0.8 U	0.8 U	130
1,1,2,2-Tetrachloroethane ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane ⁽²⁾	ug/l	SW-846 8260B	1	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
1,1-Dichloroethane ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	24	76	8	1 U	1 U	12
1,1-Dichloroethene (Dichloroethylene) ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	1 J	300	10	0.8 U	0.8 U	62
1,2-Dichloroethane ⁽²⁾	ug/l	SW-846 8260B	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane ⁽²⁾	ug/l	SW-846 8260B	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (Methyl ethyl ketone)	ug/l	SW-846 8260B	50	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
2-Hexanone	ug/l	SW-846 8260B	50	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
4-Methyl-2-pentanone	ug/l	SW-846 8260B	NS	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Acetone	ug/l	SW-846 8260B	50	6 U	6 U	6 U	6 U	7 J	6 U	6 U	6 U	6 U	6 U	6 U
Benzene	ug/l	SW-846 8260B	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25	9	1	0.5 U	0.5 U	0.5 U
Bromodichloromethane ⁽²⁾	ug/l	SW-846 8260B	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/l	SW-846 8260B	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane (Methyl bromide) ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	ug/l	SW-846 8260B	60	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	180	3 J	0.8 J	0.8 U	0.8 U	0.8 U
Chloroethane ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	70	1 U	1 U	1 U	1 U	1 U
Chloroform ⁽²⁾	ug/l	SW-846 8260B	7	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	24	0.8 U	0.8 U	0.8 U	1 J
Chloromethane (Methyl chloride) ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	6	310	170	33	33	3 J
cis-1,3-Dichloropropene ⁽²⁾	ug/l	SW-846 8260B	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane ⁽²⁾	ug/l	SW-846 8260B	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Diisopropyl ether	ug/l	SW-846 8260B	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Ethyl-t-butylether	ug/l	SW-846 8260B	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Ethylbenzene	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	15	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Methyl-t-butyl ether	ug/l	SW-846 8260B	10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	8	0.5 U	0.5 U	0.5 U	0.5 U
Methylene chloride (Dichloromethane) ⁽²⁾	ug/l	SW-846 8260B	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Styrene	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tert-amyl methyl ether	ug/l	SW-846 8260B	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U

TABLE 2
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
BUILDING 51 AND NORTHEAST AREA
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, AND SVOCs

			Field Sample ID Location Sample Date Sample Delivery Group Matrix Sample Purpose Sample Type	ITMW-2(101712) ITMW-2 10/17/2012 1343207 WATER Regular sample Groundwater Sample	ITMW-5(101612) ITMW-5 10/16/2012 1342893 WATER Regular sample Groundwater Sample	ITMW-6(101612) ITMW-6 10/16/2012 1342893 WATER Regular sample Groundwater Sample	SWMW-12(101712) SWMW-12 10/17/2012 1343207 WATER Regular sample Groundwater Sample	SWMW-14(101612) SWMW-14 10/16/2012 1342893 WATER Regular sample Groundwater Sample	SWMW-15(101612) SWMW-15 10/16/2012 1342893 WATER Regular sample Groundwater Sample	SWMW-41(101612) SWMW-41 10/16/2012 1342893 WATER Regular sample Groundwater Sample	SWMW-56(101612) SWMW-56 10/16/2012 1342893 WATER Regular sample Groundwater Sample	SWMW-158(101612) ^(*) SWMW-58 10/16/2012 1342893 WATER Field Duplicate Groundwater Sample	SWMW-58(101612) SWMW-58 10/16/2012 1342893 WATER Regular sample Groundwater Sample	SWMW-62(101212) SWMW-62 10/12/2012 1342157 WATER Regular sample Groundwater Sample	
Parameter Name	Units	Analytical Method	NY_TOGS ⁽¹⁾												
Tertiary Butyl Alcohol	ug/l	SW-846 8260B	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene ^(*)	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	7	0.8 U	0.8 U	0.8 U	2 J
Toluene	ug/l	SW-846 8260B	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	2 J	2 J	2 J	0.7 U	0.7 U	0.7 U	0.7 U
trans-1,2-Dichloroethene ^(*)	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	2 J	63	0.8 U	0.8 U	0.8 U	0.8 U
trans-1,3-Dichloropropene ^(*)	ug/l	SW-846 8260B	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene (Trichloroethylene) ^(*)	ug/l	SW-846 8260B	5	1 U	2 J	1 J	1 U	1 U	4 J	250	310	17	17	8	8
Vinyl chloride (Chloroethene) ^(*)	ug/l	SW-846 8260B	2	1 U	1 U	1 U	1 U	1 U	1 J	46	4 J	1 U	1 U	1 U	1 U
Xylenes, Total	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	11	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
TOTAL CVOCs	ug/L	SW-846 8260B	NS	0	2 J	1 J	0	0	286 J	2118 J	565.8 J	50	50	218 J	218 J
TOTAL VOCs (including CVOCs)	ug/L	SW-846 8260B	NS	0	2 J	1 J	0	7 J	339 J	2137 J	566.8 J	50	50	218 J	218 J
SVOCs ⁽⁵⁾ by EPA Method 8270C															
1,2,4-Trichlorobenzene	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/l	SW-846 8270C	3	0.5 U	0.5 U	0.5 U	3	0.5 U	70	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	ug/l	SW-846 8270C	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	ug/l	SW-846 8270C	3	0.5 U	0.5 U	0.5 U	0.6 J	0.5 U	12	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4,5-Trichlorophenol	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4,6-Trichlorophenol	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dichlorophenol	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dimethylphenol	ug/l	SW-846 8270C	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dinitrophenol	ug/l	SW-846 8270C	10	10 U	9 U	10 U	9 U	10 U	100 U	9 U	9 U	9 U	9 U	10 U	10 U
2,4-Dinitrotoluene	ug/l	SW-846 8270C	5	1 U	0.9 U	1 U	0.9 U	1 U	10 U	0.9 U	0.9 U	0.9 U	0.9 U	1 U	1 U
2,6-Dinitrotoluene	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chloronaphthalene	ug/l	SW-846 8270C	10	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-Chlorophenol (o-Chlorophenol)	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Methyl-naphthalene	ug/l	SW-846 8270C	NS	0.1 U	0.1 J	0.1 U	0.09 U	0.1 U	6	0.1 J	0.09 U	0.09 U	0.09 U	0.1 U	0.1 U
2-Methylphenol (o-Cresol)	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Nitroaniline (o-Nitroaniline)	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Nitrophenol (o-Nitrophenol)	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
3,3'-Dichlorobenzidine	ug/l	SW-846 8270C	5	2 U	2 U	2 U	2 U	2 U	20 U	2 U	2 U	2 U	2 U	2 U	2 U
3-Nitroaniline	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	ug/l	SW-846 8270C	NS	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Bromophenylphenylether	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chloroaniline	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chlorophenyl phenyl ether	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Nitroaniline	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Nitrophenol	ug/l	SW-846 8270C	NS	10 U	9 U	10 U	9 U	10 U	100 U	9 U	9 U	9 U	9 U	10 U	10 U
Acenaphthene ^(*)	ug/l	SW-846 8270C	20	0.1 U	0.3 J	0.1 J	0.09 U	0.1 U	1 J	0.09 U	0.09 U	0.09 U	0.09 U	0.1 U	0.1 U
Acenaphthylene	ug/l	SW-846 8270C	NS	0.1 U	0.6	0.2 J	0.09 U	0.1 U	3 J	0.09 U	0.09 U	0.09 U	0.09 U	0.1 U	0.1 U
Anthracene ^(*)	ug/l	SW-846 8270C	50	0.1 U	0.7	0.2 J	0.09 U	0.1 U	3 J	0.09 U	0.09 U	0.09 U	0.09 U	0.1 U	0.1 U
Benzo(a)anthracene ^(*)	ug/l	SW-846 8270C	0.002	0.1 U	2	0.7	0.09 U	0.2 J	8	0.09 U	0.09 U	0.09 U	0.09 U	0.1 J	0.1 J
Benzo(a)Pyrene ^(*)	ug/l	SW-846 8270C	NS	0.1 U	3	0.8	0.09 U	0.2 J	10	0.09 U	0.09 U	0.09 U	0.09 U	0.1 J	0.1 J
Benzo(b)Fluoranthene ^(*)	ug/l	SW-846 8270C	0.002	0.1 U	4	1	0.09 U	0.3 J	17	0.09 U	0.09 U	0.09 U	0.09 U	0.1 J	0.1 J
Benzo(g,h,i)perylene ^(*)	ug/l	SW-846 8270C	NS	0.1 U	3	0.8	0.09 U	0.2 J	9	0.09 U	0.09 U	0.09 U	0.09 U	0.1 U	0.1 U
Benzo(k)Fluoranthene ^(*)	ug/l	SW-846 8270C	0.002	0.1 U	2	0.5	0.09 U	0.2 J	6	0.09 U	0.09 U	0.09 U	0.09 U	0.1 U	0.1 U
bis(2-Chloroethoxy)methane	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
bis(2-Chloroethyl) ether	ug/l	SW-846 8270C	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	11	27	0.5 U	0.5 U	0.5 U	2
Bis(2-chloroisopropyl) ether	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
bis(2-Ethylhexyl)phthalate	ug/l	SW-846 8270C	5	2 U	5	10	2 U	2 U	69	2 U	2 U	2 U	2 U	2 U	2 U
Butylbenzylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	20 U	2 U	2 U	2 U	2 U	2 U	2 U
Carbazole	ug/l	SW-846 8270C	NS	0.5 U	0.5 J	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chrysene ^(*)	ug/l	SW-846 8270C	0.002	0.1 U	3	0.9	0.09 U	0.3 J	12	0.09 U	0.09 U	0.09 U	0.09 U	0.1 J	0.1 J
Di-n-butylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	20 U	2 U	2 U	2 U	2 U	2 U	2 U
Di-n-octylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	6	2 U	66	2 U	2 U	2 U	2 U	2 U	2 U
Dibenz(a,h)anthracene ^(*)	ug/l	SW-846 8270C	NS	0.1 U	0.5 J	0.2 J	0.09 U	0.1 U	3 J	0.09 U	0.09 U	0.09 U	0.09 U	0.1 U	0.1 U
Dibenzofuran	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Diethylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	20 U	2 U	2 U	2 U	2 U	2 U	2 U
Dimethylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	20 U	2 U	2 U	2 U	2 U	2 U	2 U
Fluoranthene ^(*)	ug/l	SW-846 8270C	50	0.1 U	5	2	0.09 U	0.5 J	15	0.09 U	0.1 J	0.09 U	0.09 U	0.2 J	0.2 J
Fluorene	ug/l	SW-846 8270C	50	0.1 U	0.3 J	0.1 U	0.09 U	0.1 U	2 J	0.09 U	0.09 U	0.09 U	0.09 U	0.1 U	0.1 U
Hexachlorobenzene	ug/l	SW-846 8270C	0.04	0.1 U	0.09 U	0.1 U	0.09 U	0.1 U	1 U	0.09 U	0.09 U	0.09 U	0.09 U	0.1 U	0.1 U
Hexachlorobutadiene	ug/l	SW-846 8270C	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	ug/l	SW-846 8270C	5	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U

TABLE 2
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
BUILDING 51 AND NORTHEAST AREA
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, AND SVOCs

			Field Sample ID	ITMW-2(101712)	ITMW-5(101612)	ITMW-6(101612)	SWMW-12(101712)	SWMW-14(101612)	SWMW-15(101612)	SWMW-41(101612)	SWMW-56(101612)	SWMW-158(101612) ^(*)	SWMW-58(101612)	SWMW-62(101212)
			Location	ITMW-2	ITMW-5	ITMW-6	SWMW-12	SWMW-14	SWMW-15	SWMW-41	SWMW-56	SWMW-58	SWMW-58	SWMW-62
			Sample Date	10/17/2012	10/16/2012	10/16/2012	10/17/2012	10/16/2012	10/16/2012	10/16/2012	10/16/2012	10/16/2012	10/16/2012	10/12/2012
			Sample Delivery Group	1343207	1342893	1342893	1343207	1342893	1342893	1342893	1342893	1342893	1342893	1342157
			Matrix	WATER	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	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Parameter Name	Units	Analytical Method	NY_TOGS ⁽¹⁾											
Hexachloroethane	ug/l	SW-846 8270C	5	1 U	0.9 U	1 U	0.9 U	1 U	10 U	0.9 U	0.9 U	0.9 U	0.9 U	1 U
Indeno(1,2,3-cd)pyrene	ug/l	SW-846 8270C	0.002	0.1 U	2	0.8	0.09 U	0.1 J	7	0.09 U	0.09 U	0.09 U	0.09 U	0.1 U
Isophorone	ug/l	SW-846 8270C	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
N-Nitrosodi-n-propylamine	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
N-Nitrosodiphenylamine (Diphenylamine)	ug/l	SW-846 8270C	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene ^(*)	ug/l	SW-846 8270C	10	0.1 U	0.5 U	0.1 U	0.09 U	0.1 U	50	0.5 U	0.09 U	0.09 U	0.8 U	0.1 U
Nitrobenzene	ug/l	SW-846 8270C	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
p-Chloro-m-cresol	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
p-Cresol	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Pentachlorophenol	ug/l	SW-846 8270C	1	1 U	0.9 U	1 U	0.9 U	1 U	10 U	0.9 U	0.9 U	0.9 U	0.9 U	1 U
Phenanthrene ^(*)	ug/l	SW-846 8270C	50	0.1 U	2	0.7	0.09 U	0.2 J	6	0.09 U	0.09 U	0.09 U	0.09 U	0.1 U
Phenol	ug/l	SW-846 8270C	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Pyrene ^(*)	ug/l	SW-846 8270C	50	0.1 U	4	1	0.09 U	0.3 J	15	0.09 U	0.09 U	0.09 U	0.09 U	0.2 J
TOTAL PAHs	ug/L	SW-846 8270C	NS	0	29.5 J	8.9 J	0	2.4 J	155 J	0	0.1 J	0	0	0.8 J
TOTAL SVOCs (including PAHs)	ug/L	SW-846 8270C	NS	0	38	27.9	9.6	2.5	390	14.1	27.1	0	0	2.8

TABLE 2
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
BUILDING 51 AND NORTHEAST AREA
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, AND SVOCs

			Field Sample ID	SWMW-66(101612)	SWMW-67(101612)	SWMW-68(101612)	SWMW-103(101612)	SWMW-104(101812)	SWMW-105(101812)	SWMW-106(101812)	SWMW-108(101612)	SWMW-109(101712)	SWMW-110(101712)	SWMW-111(101612)
			Location	SWMW-66	SWMW-67	SWMW-68	SWMW-103	SWMW-104	SWMW-105	SWMW-106	SWMW-108	SWMW-109	SWMW-110	SWMW-111
			Sample Date	10/16/2012	10/16/2012	10/16/2012	10/16/2012	10/18/2012	10/18/2012	10/18/2012	10/16/2012	10/17/2012	10/17/2012	10/16/2012
			Sample Delivery Group	1342893	1342893	1342893	1342893	1343539	1343539	1343539	1342893	1343207	1343207	1342893
			Matrix	WATER	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	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Parameter Name	Units	Analytical Method	NY_TOGS ⁽¹⁾											
Anions by EPA Method 300.0														
Chloride	mg/l	EPA 300.0	250	539	5.2	53.8	427	42.4	324	79.2	96.6	97.7	40.3 U	10.5
Sulfate	mg/l	EPA 300.0	250	70.4	112	90.4	80.6	26.1	90.1	182	195	51.8	34.1	17.1
Metals by EPA Method 6010B														
Aluminum	mg/l	SW-846 6010B	0.1	0.597	1.32	0.705	1.36	0.112 J	0.888	4.98	0.085 J	0.168 J	0.628	3.86
Antimony	mg/l	SW-846 6010B	0.003	0.004 J	0.0037 J	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U
Arsenic	mg/l	SW-846 6010B	0.025	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0086 J	0.0084 J	0.0096 J	0.0068 U	0.0068 U	0.0068 U	0.0098 J
Barium	mg/l	SW-846 6010B	1	0.0841	0.0763	0.0696	0.0672	0.0242	0.061	0.0782	0.0506	0.0388	0.068	0.0583
Beryllium	mg/l	SW-846 6010B	0.003	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U
Cadmium	mg/l	SW-846 6010B	0.005	0.00036 U	0.00041 J	0.00036 U	0.00048 J	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00053 J	0.00064 J	0.0012 J
Calcium	mg/l	SW-846 6010B	NS	189	126	102	117	65.5	99.2	198	141	164	60.7	43.7
Chromium	mg/l	SW-846 6010B	0.05	0.0016 J	0.0033 J	0.0018 J	0.0031 J	0.0028 J	0.0046 J	0.0127 J	0.0013 J	0.0032 J	0.0047 J	0.0064 J
Cobalt	mg/l	SW-846 6010B	0.005	0.00066 U	0.005 U	0.005 U	0.005 U	0.00066 U	0.0012 J	0.0026 J	0.005 U	0.00066 U	0.0048 J	0.005 U
Copper	mg/l	SW-846 6010B	0.2	0.0021 U	0.0021 U	0.0021 U	0.0047 J	0.0021 U	0.0023 J	0.0083 J	0.0021 U	0.0021 U	0.0081 J	0.025
IRON	mg/l	SW-846 6010B	0.3	0.845	1.86	0.871	2.83	0.2	1.31	5.41	0.0533 J	0.296	1.78 J	5.46
Lead	mg/l	SW-846 6010B	0.025	0.0051 U	0.0051 U	0.0051 U	0.0139 J	0.0051 U	0.0051 U	0.0077 J	0.0051 U	0.0073 J	0.0051 U	0.048
Magnesium	mg/l	SW-846 6010B	35	69	31.1	38.4	61.8	27.4	37.1	69.1	52.1	25.9	26.3	4.87
Manganese	mg/l	SW-846 6010B	0.3	0.21	0.0834	0.702	0.0544	0.0037 J	0.0322	0.203	0.0017 J	0.0172	3.61	0.346
Nickel	mg/l	SW-846 6010B	0.1	0.0011 U	0.0016 J	0.0011 U	0.0024 J	0.0011 U	0.0011 U	0.0102	0.0011 U	0.0011 U	0.0067 J	0.0058 J
Potassium	mg/l	SW-846 6010B	NS	2.09	3.07	1.66	16.5	4.6	7.39	5.46	3.06	3.22	1.14	2.79
Selenium	mg/l	SW-846 6010B	0.01	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0099 J	0.0075 U	0.0075 U	0.0075 U	0.0075 U
Silver	mg/l	SW-846 6010B	0.05	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
Sodium	mg/l	SW-846 6010B	20	124	32.1	35.3	157	37.4	183	25.5	42.7	118	23.3	7.67
Thallium	mg/l	SW-846 6010B	0.0005	0.03 U	0.03 U	0.03 U	0.03 U	0.0057 U	0.03 U	0.03 U	0.03 U	0.0082 J	0.0069 J	0.03 U
Vanadium	mg/l	SW-846 6010B	NS	0.0013 U	0.0015 J	0.0013 U	0.0025 J	0.0013 U	0.0016 J	0.0109	0.0013 U	0.0013 U	0.0035 J	0.0105
Zinc	mg/l	SW-846 6010B	2	0.0077 J	0.0052 J	0.0049 J	0.104	0.0021 J	0.0041 J	0.0314	0.0039 J	0.0045 J	0.696 J	0.0809
Mercury by EPA Method 7470A														
Mercury	mg/l	SW-846 7470A	0.0007	0.00007 U	0.00007 U	0.00007 U	0.00024	0.00007 U	0.00007 U	0.00007 U	0.00007 U	0.00007 U	0.00007 U	0.0017
VOCs ⁽⁴⁾ by EPA Method 8260B														
1,1,1-Trichloroethane ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	2 J	0.8 U	1 J	0.8 J	0.8 U	0.8 U	0.8 U	0.8 U
1,1,2,2-Tetrachloroethane ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane ⁽²⁾	ug/l	SW-846 8260B	1	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
1,1-Dichloroethane ⁽²⁾	ug/l	SW-846 8260B	5	20	1 U	5 J	1 J	1 U	1 U	1 U	1 U	1 U	2 J	1 U
1,1-Dichloroethene (Dichloroethylene) ⁽²⁾	ug/l	SW-846 8260B	5	25	0.8 U	7	2 J	0.8 U	1 J	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
1,2-Dichloroethane ⁽²⁾	ug/l	SW-846 8260B	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane ⁽²⁾	ug/l	SW-846 8260B	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (Methyl ethyl ketone)	ug/l	SW-846 8260B	50	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
2-Hexanone	ug/l	SW-846 8260B	50	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
4-Methyl-2-pentanone	ug/l	SW-846 8260B	NS	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Acetone	ug/l	SW-846 8260B	50	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Benzene	ug/l	SW-846 8260B	1	3 J	0.5 U	0.6 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane ⁽²⁾	ug/l	SW-846 8260B	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/l	SW-846 8260B	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane (Methyl bromide) ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	ug/l	SW-846 8260B	60	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene ⁽²⁾	ug/l	SW-846 8260B	5	4 J	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Chloroethane ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform ⁽²⁾	ug/l	SW-846 8260B	7	0.8 U	0.8 U	0.8 U	0.9 J	0.8 U	0.9 J	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Chloromethane (Methyl chloride) ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene ⁽²⁾	ug/l	SW-846 8260B	5	780	0.8 U	82	2 J	0.8 U	1 J	0.8 U	0.8 U	0.8 U	18 J	0.8 U
cis-1,3-Dichloropropene ⁽²⁾	ug/l	SW-846 8260B	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane ⁽²⁾	ug/l	SW-846 8260B	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Diisopropyl ether	ug/l	SW-846 8260B	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Ethyl-t-butylether	ug/l	SW-846 8260B	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Ethylbenzene	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Methyl-t-butyl ether	ug/l	SW-846 8260B	10	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	0.5 U	0.5 U
Methylene chloride (Dichloromethane) ⁽²⁾	ug/l	SW-846 8260B	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Styrene	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tert-amyl methyl ether	ug/l	SW-846 8260B	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U

TABLE 2
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
BUILDING 51 AND NORTHEAST AREA
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, AND SVOCs

			Field Sample ID	SWMW-66(101612)	SWMW-67(101612)	SWMW-68(101612)	SWMW-103(101612)	SWMW-104(101812)	SWMW-105(101812)	SWMW-106(101812)	SWMW-108(101612)	SWMW-109(101712)	SWMW-110(101712)	SWMW-111(101612)
			Location	SWMW-66	SWMW-67	SWMW-68	SWMW-103	SWMW-104	SWMW-105	SWMW-106	SWMW-108	SWMW-109	SWMW-110	SWMW-111
			Sample Date	10/16/2012	10/16/2012	10/16/2012	10/16/2012	10/18/2012	10/18/2012	10/18/2012	10/16/2012	10/17/2012	10/17/2012	10/16/2012
			Sample Delivery Group	1342893	1342893	1342893	1342893	1343539	1343539	1343539	1342893	1343207	1343207	1342893
			Matrix	WATER	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	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Parameter Name	Units	Analytical Method	NY_TOGS ⁽¹⁾											
Tertiary Butyl Alcohol	ug/l	SW-846 8260B	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene ^(c)	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Toluene	ug/l	SW-846 8260B	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
trans-1,2-Dichloroethene ^(c)	ug/l	SW-846 8260B	5	2 J	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
trans-1,3-Dichloropropene ^(c)	ug/l	SW-846 8260B	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene (Trichloroethylene) ^(c)	ug/l	SW-846 8260B	5	300 J	130 J	590 J	5 J	1 U	7 J	1 U	1 U	1 J	1 U	1 J
Vinyl chloride (Chloroethene) ^(c)	ug/l	SW-846 8260B	2	78 J	1 U	2 J	1 U	1 U	1 U	1 U	1 U	1 U	1 J	1 U
Xylenes, Total	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
TOTAL CVOCS	ug/L	SW-846 8260B	NS	1209 J	130 J	686 J	12.9 J	0	10.9 J	0.8 J	0	1 J	21 J	1 J
TOTAL VOCs (including CVOCS)	ug/L	SW-846 8260B	NS	1212 J	130 J	686.6 J	12.9 J	0	10.9 J	0.8 J	0	1 J	21 J	1 J
SVOCs ⁽⁵⁾ by EPA Method 8270C														
1,2,4-Trichlorobenzene	ug/l	SW-846 8270C	5	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	0.5 U	0.5 U
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/l	SW-846 8270C	3	3 J	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	0.5 U
1,3-Dichlorobenzene	ug/l	SW-846 8270C	3	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	0.5 U	0.5 U
1,4-Dichlorobenzene	ug/l	SW-846 8270C	3	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	0.5 U	0.5 U
2,4,5-Trichlorophenol	ug/l	SW-846 8270C	NS	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	0.5 U	0.5 U
2,4,6-Trichlorophenol	ug/l	SW-846 8270C	NS	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	0.5 U	0.5 U
2,4-Dichlorophenol	ug/l	SW-846 8270C	5	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	0.5 U	0.5 U
2,4-Dimethylphenol	ug/l	SW-846 8270C	50	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	0.5 U	0.5 U
2,4-Dinitrophenol	ug/l	SW-846 8270C	10	10 U	9 U	9 U	9 U	9 U	10 U	10 U	9 U	10 U	10 U	10 U
2,4-Dinitrotoluene	ug/l	SW-846 8270C	5	1 U	0.9 U	0.9 U	0.9 U	0.9 U	1 U	1 U	0.9 U	1 U	1 U	1 U
2,6-Dinitrotoluene	ug/l	SW-846 8270C	5	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	0.5 U	0.5 U
2-Chloronaphthalene	ug/l	SW-846 8270C	10	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-Chlorophenol (o-Chlorophenol)	ug/l	SW-846 8270C	NS	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	0.5 U	0.5 U
2-Methyl-naphthalene	ug/l	SW-846 8270C	NS	0.1 U	0.09 U	0.09 U	0.09 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U	0.1 U
2-Methylphenol (o-Cresol)	ug/l	SW-846 8270C	NS	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	0.5 U	0.5 U
2-Nitroaniline (o-Nitroaniline)	ug/l	SW-846 8270C	5	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	0.5 U	0.5 U
2-Nitrophenol (o-Nitrophenol)	ug/l	SW-846 8270C	NS	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	0.5 U	0.5 U
3,3'-Dichlorobenzidine	ug/l	SW-846 8270C	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
3-Nitroaniline	ug/l	SW-846 8270C	5	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	0.5 U	0.5 U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	ug/l	SW-846 8270C	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Bromophenylphenylether	ug/l	SW-846 8270C	NS	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	0.5 U	0.5 U
4-Chloroaniline	ug/l	SW-846 8270C	5	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	0.5 U	0.5 U
4-Chlorophenyl phenyl ether	ug/l	SW-846 8270C	NS	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	0.5 U	0.5 U
4-Nitroaniline	ug/l	SW-846 8270C	5	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	0.5 U	0.5 U
4-Nitrophenol	ug/l	SW-846 8270C	NS	10 U	9 U	9 U	9 U	9 U	10 U	10 U	9 U	10 U	10 U	10 U
Acenaphthene ^(c)	ug/l	SW-846 8270C	20	0.1 U	0.09 U	0.09 U	0.09 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U	0.1 U
Acenaphthylene	ug/l	SW-846 8270C	NS	0.1 U	0.09 U	0.09 U	0.09 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U	0.1 U
Anthracene ^(c)	ug/l	SW-846 8270C	50	0.1 U	0.09 U	0.09 U	0.09 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U	0.1 J
Benzo(a)anthracene ^(c)	ug/l	SW-846 8270C	0.002	0.1 U	0.09 U	0.09 U	0.09 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U	0.3 J
Benzo(a)Pyrene ^(c)	ug/l	SW-846 8270C	NS	0.1 U	0.09 U	0.09 U	0.09 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 J	0.3 J
Benzo(b)Fluoranthene ^(c)	ug/l	SW-846 8270C	0.002	0.1 U	0.09 U	0.09 U	0.09 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.2 J	0.4 J
Benzo(g,h,i)perylene ^(c)	ug/l	SW-846 8270C	NS	0.1 U	0.09 U	0.09 U	0.09 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 J	0.3 J
Benzo(k)Fluoranthene ^(c)	ug/l	SW-846 8270C	0.002	0.1 U	0.09 U	0.09 U	0.09 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U	0.3 J
bis(2-Chloroethoxy)methane	ug/l	SW-846 8270C	5	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	0.5 U	0.5 U
bis(2-Chloroethyl) ether	ug/l	SW-846 8270C	1	2 J	0.5 U	1 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bis(2-chloroisopropyl) ether	ug/l	SW-846 8270C	5	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	0.5 U	0.5 U
bis(2-Ethylhexyl)phthalate	ug/l	SW-846 8270C	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	13 J	2 U
Butylbenzylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Carbazole	ug/l	SW-846 8270C	NS	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	0.5 U	0.5 U
Chrysene ^(c)	ug/l	SW-846 8270C	0.002	0.1 U	0.09 U	0.09 U	0.09 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 J	0.4 J
Di-n-butylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Di-n-octylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Dibenz(a,h)anthracene ^(c)	ug/l	SW-846 8270C	NS	0.1 U	0.09 U	0.09 U	0.09 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U	0.1 U
Dibenzofuran	ug/l	SW-846 8270C	NS	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	0.5 U	0.5 U
Diethylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Dimethylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Fluoranthene ^(c)	ug/l	SW-846 8270C	50	0.1 U	0.09 U	0.09 U	0.1 J	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.2 J	0.6
Fluorene	ug/l	SW-846 8270C	50	0.1 U	0.09 U	0.09 U	0.09 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U	0.1 U
Hexachlorobenzene	ug/l	SW-846 8270C	0.04	0.1 U	0.09 U	0.09 U	0.09 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U	0.1 U
Hexachlorobutadiene	ug/l	SW-846 8270C	0.5	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	0.5 U	0.5 U
Hexachlorocyclopentadiene	ug/l	SW-846 8270C	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

TABLE 2 GROUNDWATER ANALYTICAL DATA SUMMARY TABLE BUILDING 51 AND NORTHEAST AREA FORMER TEXACO RESEARCH CENTER, BEACON, NY ANIONS, TAL METALS, VOCs, AND SVOCs														
			Field Sample ID	SWMW-66(101612)	SWMW-67(101612)	SWMW-68(101612)	SWMW-103(101612)	SWMW-104(101812)	SWMW-105(101812)	SWMW-106(101812)	SWMW-108(101612)	SWMW-109(101712)	SWMW-110(101712)	SWMW-111(101612)
			Location	SWMW-66	SWMW-67	SWMW-68	SWMW-103	SWMW-104	SWMW-105	SWMW-106	SWMW-108	SWMW-109	SWMW-110	SWMW-111
			Sample Date	10/16/2012	10/16/2012	10/16/2012	10/16/2012	10/18/2012	10/18/2012	10/18/2012	10/16/2012	10/17/2012	10/17/2012	10/16/2012
			Sample Delivery Group	1342893	1342893	1342893	1342893	1343539	1343539	1343539	1342893	1343207	1343207	1342893
			Matrix	WATER	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	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Parameter Name	Units	Analytical Method	NY_TOGS ⁽¹⁾	1 U	0.9 U	0.9 U	0.9 U	0.9 U	1 U	1 U	0.9 U	1 U	1 U	1 U
Hexachloroethane	ug/l	SW-846 8270C	5											
Indeno(1,2,3-cd)pyrene	ug/l	SW-846 8270C	0.002											
Isophorone	ug/l	SW-846 8270C	50											
N-Nitrosodi-n-propylamine	ug/l	SW-846 8270C	NS											
N-Nitrosodiphenylamine (Diphenylamine)	ug/l	SW-846 8270C	50											
Naphthalene ⁽²⁾	ug/l	SW-846 8270C	10											
Nitrobenzene	ug/l	SW-846 8270C	0.4											
p-Chloro-m-cresol	ug/l	SW-846 8270C	NS											
p-Cresol	ug/l	SW-846 8270C	NS											
Pentachlorophenol	ug/l	SW-846 8270C	1											
Phenanthrene ⁽³⁾	ug/l	SW-846 8270C	50											
Phenol	ug/l	SW-846 8270C	1											
Pyrene ⁽²⁾	ug/l	SW-846 8270C	50											
TOTAL PAHs	ug/L	SW-846 8270C	NS											
TOTAL SVOCs (including PAHs)	ug/L	SW-846 8270C	NS											
			5	0	1	0.2	0	0	0	0	0	13.9	3.9	

TABLE 2
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
BUILDING 51 AND NORTHEAST AREA
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, AND SVOCs

			Field Sample ID	SWMW-112(101612)	SWMW-113(101212)	SWMW-119(101712)	SWMW-1122(101712) ^(*)	SWMW-122(101712)	SWMW-126(101612)
			Location	SWMW-112	SWMW-113	SWMW-119	SWMW-122	SWMW-122	SWMW-126
			Sample Date	10/16/2012	10/12/2012	10/17/2012	10/17/2012	10/17/2012	10/16/2012
			Sample Delivery Group	1342893	1342157	1343207	1343207	1343207	1342893
			Matrix	WATER	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Regular sample	Regular sample	Regular sample	Field Duplicate	Regular sample	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Parameter Name	Units	Analytical Method	NY_TOGS ⁽¹⁾						
Anions by EPA Method 300.0									
Chloride	mg/l	EPA 300.0	250	35.8	384	128	3.1 U	2.5 U	233
Sulfate	mg/l	EPA 300.0	250	22.1	131	31.8	41.4	41.4	23
Metals by EPA Method 6010B									
Aluminum	mg/l	SW-846 6010B	0.1	0.886	8.63 J	0.689	0.596	0.748	0.222
Antimony	mg/l	SW-846 6010B	0.003	0.0035 U	0.0036 J	0.0035 U	0.0035 U	0.0035 U	0.0035 U
Arsenic	mg/l	SW-846 6010B	0.025	0.011 J	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U
Barium	mg/l	SW-846 6010B	1	0.0311	0.132	0.0452	0.0337	0.0365	0.104
Beryllium	mg/l	SW-846 6010B	0.003	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U
Cadmium	mg/l	SW-846 6010B	0.005	0.0011 J	0.005 U	0.00036 U	0.00053 J	0.00042 J	0.00036 U
Calcium	mg/l	SW-846 6010B	NS	26.2	190	98.9	54.6	55	88
Chromium	mg/l	SW-846 6010B	0.05	0.0044 J	0.0159	0.0026 J	0.0057 J	0.0064 J	0.0028 J
Cobalt	mg/l	SW-846 6010B	0.005	0.005 U	0.0023 J	0.0015 J	0.00066 U	0.00081 J	0.005 U
Copper	mg/l	SW-846 6010B	0.2	0.0059 J	0.0042 J	0.0021 U	0.0021 U	0.0021 U	0.0021 U
IRON	mg/l	SW-846 6010B	0.3	1.84	6.48	0.581	1.07	1.22	0.41
Lead	mg/l	SW-846 6010B	0.025	0.0065 J	0.0066 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U
Magnesium	mg/l	SW-846 6010B	35	5.94	87.3	56.2	28.4	29.1	45
Manganese	mg/l	SW-846 6010B	0.3	0.114	0.344	0.0116	0.0372	0.0417	0.136
Nickel	mg/l	SW-846 6010B	0.1	0.0029 J	0.0079 J	0.0011 U	0.0034 J	0.0042 J	0.0018 J
Potassium	mg/l	SW-846 6010B	NS	2.65	11 J	NS	2.56	2.4	5.35
Selenium	mg/l	SW-846 6010B	0.01	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U
Silver	mg/l	SW-846 6010B	0.05	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
Sodium	mg/l	SW-846 6010B	20	21.6	243	46.2	24	24.8	87
Thallium	mg/l	SW-846 6010B	0.0005	0.03 U	0.03 U	0.0061 J	0.007 J	0.0076 J	0.03 U
Vanadium	mg/l	SW-846 6010B	NS	0.0026 J	0.01 U	0.0013 U	0.0015 J	0.0013 U	0.0013 U
Zinc	mg/l	SW-846 6010B	2	0.0788	0.0209 J	0.0044 J	0.0084 J	0.0085 J	0.0046 J
Mercury by EPA Method 7470A									
Mercury	mg/l	SW-846 7470A	0.0007	0.00007 U	0.00007 U	0.00007 U	0.00007 U	0.00007 U	0.00007 U
VOCs ⁽⁴⁾ by EPA Method 8260B									
1,1,1-Trichloroethane ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	2 J	0.8 U	0.8 U	0.8 U	0.8 U
1,1,2,2-Tetrachloroethane ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane ⁽²⁾	ug/l	SW-846 8260B	1	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
1,1-Dichloroethane ⁽²⁾	ug/l	SW-846 8260B	5	4 J	4 J	1 U	1 U	1 U	23
1,1-Dichloroethene (Dichloroethylene) ⁽²⁾	ug/l	SW-846 8260B	5	2 J	4 J	0.8 U	0.8 U	0.8 U	16
1,2-Dichloroethane ⁽²⁾	ug/l	SW-846 8260B	0.6	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane ⁽²⁾	ug/l	SW-846 8260B	1	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (Methyl ethyl ketone)	ug/l	SW-846 8260B	50	3 U	3 U	3 U	3 U	3 U	3 U
2-Hexanone	ug/l	SW-846 8260B	50	3 U	3 U	3 U	3 U	3 U	3 U
4-Methyl-2-pentanone	ug/l	SW-846 8260B	NS	3 U	3 U	3 U	3 U	3 U	3 U
Acetone	ug/l	SW-846 8260B	50	400	6 U	6 U	6 U	6 U	17 J
Benzene	ug/l	SW-846 8260B	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 J
Bromodichloromethane ⁽²⁾	ug/l	SW-846 8260B	50	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/l	SW-846 8260B	50	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane (Methyl bromide) ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	ug/l	SW-846 8260B	60	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	1 J	0.8 U	0.8 U	0.8 U	5 J
Chloroethane ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform ⁽²⁾	ug/l	SW-846 8260B	7	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Chloromethane (Methyl chloride) ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene ⁽²⁾	ug/l	SW-846 8260B	5	50	23	6	0.8 U	0.8 U	270
cis-1,3-Dichloropropene ⁽²⁾	ug/l	SW-846 8260B	NS	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane ⁽²⁾	ug/l	SW-846 8260B	50	1 U	1 U	1 U	1 U	1 U	1 U
Diisopropyl ether	ug/l	SW-846 8260B	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Ethyl-t-butylether	ug/l	SW-846 8260B	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Ethylbenzene	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Methyl-t-butyl ether	ug/l	SW-846 8260B	10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 J
Methylene chloride (Dichloromethane) ⁽²⁾	ug/l	SW-846 8260B	5	2 U	2 U	2 U	2 U	2 U	2 U
Styrene	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U
Tert-amyl methyl ether	ug/l	SW-846 8260B	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U

TABLE 2
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
BUILDING 51 AND NORTHEAST AREA
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, AND SVOCs

			Field Sample ID Location Sample Date Sample Delivery Group Matrix Sample Purpose Sample Type	SWMW-112(101612) SWMW-112 10/16/2012 1342893 WATER Regular sample Groundwater Sample	SWMW-113(101212) SWMW-113 10/12/2012 1342157 WATER Regular sample Groundwater Sample	SWMW-119(101712) SWMW-119 10/17/2012 1343207 WATER Regular sample Groundwater Sample	SWMW-1122(101712) ^(*) SWMW-122 10/17/2012 1343207 WATER Field Duplicate Groundwater Sample	SWMW-122(101712) SWMW-122 10/17/2012 1343207 WATER Regular sample Groundwater Sample	SWMW-126(101612) SWMW-126 10/16/2012 1342893 WATER Regular sample Groundwater Sample
Parameter Name	Units	Analytical Method	NY_TOGS ⁽¹⁾						
Tertiary Butyl Alcohol	ug/l	SW-846 8260B	NS	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene ^(*)	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Toluene	ug/l	SW-846 8260B	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
trans-1,2-Dichloroethene ^(*)	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	3 J
trans-1,3-Dichloropropene ^(*)	ug/l	SW-846 8260B	0.4	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene (Trichloroethylene) ^(*)	ug/l	SW-846 8260B	5	26	23	3 J	1 U	1 U	330
Vinyl chloride (Chloroethene) ^(*)	ug/l	SW-846 8260B	2	2 J	1 U	1 U	1 U	1 U	13
Xylenes, Total	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
TOTAL CVOCs	ug/L	SW-846 8260B	NS	84 J	41 J	9 J	0	0	660 J
TOTAL VOCs (including CVOCs)	ug/L	SW-846 8260B	NS	484 J	41 J	9 J	0	0	683 J
SVOCs ⁽⁵⁾ by EPA Method 8270C									
1,2,4-Trichlorobenzene	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/l	SW-846 8270C	3	0.5 J	0.6 J	0.5 U	0.5 U	0.5 U	3
1,3-Dichlorobenzene	ug/l	SW-846 8270C	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	ug/l	SW-846 8270C	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4,5-Trichlorophenol	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4,6-Trichlorophenol	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dichlorophenol	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dimethylphenol	ug/l	SW-846 8270C	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dinitrophenol	ug/l	SW-846 8270C	10	9 U	10 U	10 U	9 U	9 U	9 U
2,4-Dinitrotoluene	ug/l	SW-846 8270C	5	0.9 U	1 U	1 U	0.9 U	0.9 U	0.9 U
2,6-Dinitrotoluene	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chloronaphthalene	ug/l	SW-846 8270C	10	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-Chlorophenol (o-Chlorophenol)	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Methyl-naphthalene	ug/l	SW-846 8270C	NS	0.09 U	0.1 U	0.1 U	0.09 U	0.09 U	0.09 U
2-Methylphenol (o-Cresol)	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Nitroaniline (o-Nitroaniline)	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Nitrophenol (o-Nitrophenol)	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
3,3'-Dichlorobenzidine	ug/l	SW-846 8270C	5	2 U	2 U	2 U	2 U	2 U	2 U
3-Nitroaniline	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	ug/l	SW-846 8270C	NS	5 U	5 U	5 U	5 U	5 U	5 U
4-Bromophenylphenylether	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chloroaniline	ug/l	SW-846 8270C	5	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U
4-Chlorophenyl phenyl ether	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Nitroaniline	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Nitrophenol	ug/l	SW-846 8270C	NS	9 U	10 U	10 U	9 U	9 U	9 U
Acenaphthene ^(*)	ug/l	SW-846 8270C	20	0.09 U	0.1 U	0.1 U	0.09 U	0.09 U	0.09 U
Acenaphthylene	ug/l	SW-846 8270C	NS	0.09 U	0.1 U	0.1 U	0.09 U	0.09 U	0.09 U
Anthracene ^(*)	ug/l	SW-846 8270C	50	0.09 U	0.1 U	0.1 U	0.09 U	0.09 U	0.09 U
Benzo(a)anthracene ^(*)	ug/l	SW-846 8270C	0.002	0.09 U	0.1 U	0.1 U	0.09 U	0.09 U	0.09 U
Benzo(a)Pyrene ^(*)	ug/l	SW-846 8270C	NS	0.09 U	0.1 U	0.1 U	0.09 U	0.09 U	0.09 U
Benzo(b)Fluoranthene ^(*)	ug/l	SW-846 8270C	0.002	0.09 U	0.1 U	0.1 U	0.09 U	0.09 U	0.09 U
Benzo(g,h,i)perylene ^(*)	ug/l	SW-846 8270C	NS	0.09 U	0.1 U	0.1 U	0.09 U	0.09 U	0.09 U
Benzo(k)Fluoranthene ^(*)	ug/l	SW-846 8270C	0.002	0.09 U	0.1 U	0.1 U	0.09 U	0.09 U	0.09 U
bis(2-Chloroethoxy)methane	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
bis(2-Chloroethyl) ether	ug/l	SW-846 8270C	1	2	1	0.5 U	0.5 U	0.5 U	11
Bis(2-chloroisopropyl) ether	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
bis(2-Ethylhexyl)phthalate	ug/l	SW-846 8270C	5	2 U	2 U	2 U	2 U	2 U	2 U
Butylbenzylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U
Carbazole	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chrysene ^(*)	ug/l	SW-846 8270C	0.002	0.09 U	0.1 U	0.1 U	0.09 U	0.09 U	0.09 U
Di-n-butylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U
Di-n-octylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U
Dibenz(a,h)anthracene ^(*)	ug/l	SW-846 8270C	NS	0.09 U	0.1 U	0.1 U	0.09 U	0.09 U	0.09 U
Dibenzofuran	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Diethylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U
Dimethylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U
Fluoranthene ^(*)	ug/l	SW-846 8270C	50	0.09 U	0.1 U	0.1 U	0.09 U	0.09 U	0.09 U
Fluorene	ug/l	SW-846 8270C	50	0.09 U	0.1 U	0.1 U	0.09 U	0.09 U	0.09 U
Hexachlorobenzene	ug/l	SW-846 8270C	0.04	0.09 U	0.1 U	0.1 U	0.09 U	0.09 U	0.09 U
Hexachlorobutadiene	ug/l	SW-846 8270C	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	ug/l	SW-846 8270C	5	5 U	5 U	5 U	5 U	5 U	5 U

TABLE 2
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
BUILDING 51 AND NORTHEAST AREA
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, AND SVOCs

			Field Sample ID	SWMW-112(101612)	SWMW-113(101212)	SWMW-119(101712)	SWMW-1122(101712) ^(*)	SWMW-122(101712)	SWMW-126(101612)
			Location	SWMW-112	SWMW-113	SWMW-119	SWMW-122	SWMW-122	SWMW-126
			Sample Date	10/16/2012	10/12/2012	10/17/2012	10/17/2012	10/17/2012	10/16/2012
			Sample Delivery Group	1342893	1342157	1343207	1343207	1343207	1342893
			Matrix	WATER	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Regular sample	Regular sample	Regular sample	Field Duplicate	Regular sample	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Parameter Name	Units	Analytical Method	NY_TOGS ⁽¹⁾	0.9 U	1 U	1 U	0.9 U	0.9 U	0.9 U
Hexachloroethane	ug/l	SW-846 8270C	5						
Indeno(1,2,3-cd)pyrene	ug/l	SW-846 8270C	0.002						
Isophorone	ug/l	SW-846 8270C	50						
N-Nitrosodi-n-propylamine	ug/l	SW-846 8270C	NS						
N-Nitrosodiphenylamine (Diphenylamine)	ug/l	SW-846 8270C	50						
Naphthalene ^(*)	ug/l	SW-846 8270C	10						
Nitrobenzene	ug/l	SW-846 8270C	0.4						
p-Chloro-m-cresol	ug/l	SW-846 8270C	NS						
p-Cresol	ug/l	SW-846 8270C	NS						
Pentachlorophenol	ug/l	SW-846 8270C	1						
Phenanthrene ^(*)	ug/l	SW-846 8270C	50						
Phenol	ug/l	SW-846 8270C	1						
Pyrene ^(*)	ug/l	SW-846 8270C	50						
TOTAL PAHs	ug/L	SW-846 8270C	NS						
TOTAL SVOCs (including PAHs)	ug/L	SW-846 8270C	NS						
				2.5	1.6	0	0	0	14

TABLE 3
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
WASHINGTON AVENUE TANK FARM AND RAIL SIDING AREA
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, AND SVOCs

			Field Sample ID	SWMW-30(101812)	SWMW-31(101812)	SWMW-32(101812)	SWMW-33(101812)	SWMW-50(101812)	SWMW-60(101812)	SWMW-61(101812)	SWMW-171(101812) ^(*)	SWMW-71(101812)	SWMW-72(101812)
			Location	SWMW-30	SWMW-31	SWMW-32	SWMW-33	SWMW-50	SWMW-60	SWMW-61	SWMW-71	SWMW-71	SWMW-72
			Sample Date	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012
			Sample Delivery Group	1343541	1343541	1343541	1343541	1343541	1343541	1343541	1343541	1343541	1343541
			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	Field Duplicate	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
Parameter Name	Units	Analytical Method	NY_TOGS ⁽¹⁾										
Anions by EPA Method 300.0													
Chloride	mg/l	EPA 300.0	250	31.7	101	274	130	47.2	28.7	20.6	61	66.7	145
Sulfate	mg/l	EPA 300.0	250	5.3	11.5	7.1	159	10.3	4.9 J	1.5 U	13.6	3.8 J	11.7
Metals by EPA Method 6010B													
Aluminum	mg/l	SW-846 6010B	0.1	0.524	1.85	6.7	0.256	15.9	0.465	0.751	0.148 J	0.923	8.89
Antimony	mg/l	SW-846 6010B	0.003	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U
Arsenic	mg/l	SW-846 6010B	0.025	0.0926	0.0506	0.0464	0.0068 U	0.143	0.0338	0.0543	0.187	0.197	0.0208
Barium	mg/l	SW-846 6010B	1	0.0734	0.154	0.0972	0.0656	0.155	0.0249	0.0899	0.132	0.129	0.103
Beryllium	mg/l	SW-846 6010B	0.003	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U
Cadmium	mg/l	SW-846 6010B	0.005	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.002 J
Calcium	mg/l	SW-846 6010B	NS	61.2	64.8	83.3	79.6	62.4	52.7	53.2	73.5	71.4	41.8
Chromium	mg/l	SW-846 6010B	0.05	0.0013 J	0.0029 J	0.0083 J	0.0032 J	0.0196	0.0011 J	0.0014 J	0.0011 U	0.0023 J	0.0098 J
Cobalt	mg/l	SW-846 6010B	0.005	0.00066 U	0.0016 J	0.0045 J	0.0099	0.0116	0.00066 U	0.00066 U	0.00086 J	0.0014 J	0.0061
Copper	mg/l	SW-846 6010B	0.2	0.0021 U	0.0026 J	0.0208	0.0021 U	0.0417	0.0048 J	0.0023 J	0.0021 U	0.0028 J	0.0282
IRON	mg/l	SW-846 6010B	0.3	9.99	17	12.2	16.2	35.2	2.69 J	12.7	12.9	14.4	17.4
Lead	mg/l	SW-846 6010B	0.025	0.0051 U	0.0082 J	0.0156	0.0051 U	0.0228	0.0055 J	0.006 J	0.0051 U	0.0051 U	0.0222
Magnesium	mg/l	SW-846 6010B	35	14.4	14	33.9	17.2	17.7	8.64	12.6	13.3	13.2	14.8
Manganese	mg/l	SW-846 6010B	0.3	2.16	3.57	3.42	17.9	2.35	1.4	1.56	2.01	1.95	1.57
Nickel	mg/l	SW-846 6010B	0.1	0.0011 U	0.0012 J	0.009 J	0.0036 J	0.0226	0.0011 U	0.0011 U	0.0011 U	0.0016 J	0.0135
Potassium	mg/l	SW-846 6010B	NS	1.44	2.04	2.56	3.03	4.2	1.01	1.44	1.77	1.89	2.49
Selenium	mg/l	SW-846 6010B	0.01	0.0075 U	0.0075 U	0.0075 U	0.0077 J	0.0075 U	0.0075 UJ	0.0075 U	0.0075 U	0.0075 U	0.0075 U
Silver	mg/l	SW-846 6010B	0.05	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
Sodium	mg/l	SW-846 6010B	20	46	124	180	113	97.5	52.7	49.5	97.3	97	164
Thallium	mg/l	SW-846 6010B	0.0005	0.0057 U	0.0057 U	0.0057 U	0.0085 J	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U
Vanadium	mg/l	SW-846 6010B	NS	0.0013 U	0.0034 J	0.01	0.0016 J	0.0203	0.0017 J	0.0023 J	0.0014 J	0.0024 J	0.0127
Zinc	mg/l	SW-846 6010B	2	0.0041 J	0.0135 J	0.0333	0.0091 J	0.08	0.0047 J	0.0052 J	0.0031 J	0.0147 J	0.282
Mercury by EPA Method 7470A													
Mercury	mg/l	SW-846 7470A	0.0007	0.00007 U	0.00007 U	0.00007 U	0.00007 U	0.00007 U	0.00007 U	0.00007 U	0.00007 U	0.00007 U	0.00007 U
VOCs ⁽⁴⁾ by EPA Method 8260B													
1,1,1-Trichloroethane(2)	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
1,1,2,2-Tetrachloroethane ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane ⁽²⁾	ug/l	SW-846 8260B	1	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
1,1-Dichloroethane ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene (Dichloroethylene) ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
1,2-Dichloroethane ⁽²⁾	ug/l	SW-846 8260B	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane ⁽²⁾	ug/l	SW-846 8260B	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (Methyl ethyl ketone)	ug/l	SW-846 8260B	50	3 U	3 U	3 U	3 U	3 U	3 J	3 U	3 U	3 U	3 U
2-Hexanone	ug/l	SW-846 8260B	50	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
4-Methyl-2-pentanone	ug/l	SW-846 8260B	NS	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Acetone	ug/l	SW-846 8260B	50	6 U	11 J	6 U	6 U	6 U	9 J	10 J	6 U	6 U	6 U
Benzene	ug/l	SW-846 8260B	1	0.5 U	28	1 J	0.6 J	1 J	0.5 U	2 J	12	13	0.5 U
Bromodichloromethane ⁽²⁾	ug/l	SW-846 8260B	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/l	SW-846 8260B	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane (Methyl bromide) ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	ug/l	SW-846 8260B	60	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	3 J	0.8 U	0.8 U	1 J	0.8 U	1 J	4 J	4 J	0.8 U
Chloroethane ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform ⁽²⁾	ug/l	SW-846 8260B	7	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Chloromethane (Methyl chloride) ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
cis-1,3-Dichloropropene ⁽²⁾	ug/l	SW-846 8260B	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane ⁽²⁾	ug/l	SW-846 8260B	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Diisopropyl ether	ug/l	SW-846 8260B	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Ethyl-t-butylether	ug/l	SW-846 8260B	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Ethylbenzene	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	150	0.8 U	0.8 U	0.8 U
Methyl-t-butyl ether	ug/l	SW-846 8260B	10	3 J	14	21	1 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene chloride (Dichloromethane) ⁽²⁾	ug/l	SW-846 8260B	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Styrene	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tert-amyl methyl ether	ug/l	SW-846 8260B	NS	0.8 U	2 J	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Tertiary Butyl Alcohol	ug/l	SW-846 8260B	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U

TABLE 3
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
WASHINGTON AVENUE TANK FARM AND RAIL SIDING AREA
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, AND SVOCs

		Field Sample ID	SWMW-30(101812)	SWMW-31(101812)	SWMW-32(101812)	SWMW-33(101812)	SWMW-50(101812)	SWMW-60(101812)	SWMW-61(101812)	SWMW-171(101812) ^(*)	SWMW-71(101812)	SWMW-72(101812)
		Location	SWMW-30	SWMW-31	SWMW-32	SWMW-33	SWMW-50	SWMW-60	SWMW-61	SWMW-71	SWMW-71	SWMW-72
		Sample Date	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012
		Sample Delivery Group	1343541	1343541	1343541	1343541	1343541	1343541	1343541	1343541	1343541	1343541
		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	Field Duplicate	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
Parameter Name	Units	Analytical Method	NY_TOGS ⁽¹⁾									
Toluene	ug/l	SW-846 8260B	5	0.7 U	2 J	0.7 U	0.7 U	1 J	0.7 U	4 J	4 J	4 J
trans-1,2-Dichloroethene ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
trans-1,3-Dichloropropene ⁽²⁾	ug/l	SW-846 8260B	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene (Trichloroethylene) ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride (Chloroethene) ⁽²⁾	ug/l	SW-846 8260B	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	ug/l	SW-846 8260B	5	0.8 U	2 J	0.8 U	0.8 U	0.8 U	0.8 U	11	12	11
TOTAL CVOCs	ug/L	SW-846 8260B	NS	0	3 J	0	0	1 J	0	1 J	4 J	4 J
TOTAL VOCs (including CVOCs)	ug/L	SW-846 8260B	NS	3 J	62 J	22 J	1.6 J	3 J	12 J	178 J	32 J	32 J
SVOCs ⁽⁵⁾ by EPA Method 8270C												
1,2,4-Trichlorobenzene	ug/l	SW-846 8270C	5	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
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/l	SW-846 8270C	3	0.5 U	0.5 U	0.5 U	0.5 U	1 J	0.5 U	4	0.8 J	0.8 J
1,3-Dichlorobenzene	ug/l	SW-846 8270C	3	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
1,4-Dichlorobenzene	ug/l	SW-846 8270C	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.8 J	0.5 U	0.5 U
2,4,5-Trichlorophenol	ug/l	SW-846 8270C	NS	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
2,4,6-Trichlorophenol	ug/l	SW-846 8270C	NS	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
2,4-Dichlorophenol	ug/l	SW-846 8270C	5	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
2,4-Dimethylphenol	ug/l	SW-846 8270C	50	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
2,4-Dinitrophenol	ug/l	SW-846 8270C	10	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	ug/l	SW-846 8270C	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2,6-Dinitrotoluene	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.6 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chloronaphthalene	ug/l	SW-846 8270C	10	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-Chlorophenol (o-Chlorophenol)	ug/l	SW-846 8270C	NS	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
2-Methyl-naphthalene	ug/l	SW-846 8270C	NS	0.5 J	5	0.1 U	0.1 U	0.4 J	0.1 U	130	19	20
2-Methylphenol (o-Cresol)	ug/l	SW-846 8270C	NS	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
2-Nitroaniline (o-Nitroaniline)	ug/l	SW-846 8270C	5	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
2-Nitrophenol (o-Nitrophenol)	ug/l	SW-846 8270C	NS	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
3,3'-Dichlorobenzidine	ug/l	SW-846 8270C	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
3-Nitroaniline	ug/l	SW-846 8270C	5	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
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	ug/l	SW-846 8270C	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Bromophenylphenylether	ug/l	SW-846 8270C	NS	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
4-Chloroaniline	ug/l	SW-846 8270C	5	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
4-Chlorophenyl phenyl ether	ug/l	SW-846 8270C	NS	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
4-Nitroaniline	ug/l	SW-846 8270C	5	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
4-Nitrophenol	ug/l	SW-846 8270C	NS	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
Acenaphthene ⁽³⁾	ug/l	SW-846 8270C	20	1	2	0.3 J	0.1 U	0.1 U	0.1 U	3	0.7	0.1 U
Acenaphthylene	ug/l	SW-846 8270C	NS	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Anthracene ⁽³⁾	ug/l	SW-846 8270C	50	0.2 J	0.6	0.1 U	0.1 U	0.1 U	0.1 U	0.5 J	0.1 U	0.1 U
Benzo(a)anthracene ⁽³⁾	ug/l	SW-846 8270C	0.002	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(a)Pyrene ⁽³⁾	ug/l	SW-846 8270C	NS	0.1 U	0.2 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(b)Fluoranthene(3)	ug/l	SW-846 8270C	0.002	0.1 U	0.1 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(g,h,i)perylene ⁽³⁾	ug/l	SW-846 8270C	NS	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(k)Fluoranthene ⁽³⁾	ug/l	SW-846 8270C	0.002	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
bis(2-Chloroethoxy)methane	ug/l	SW-846 8270C	5	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
bis(2-Chloroethyl) ether	ug/l	SW-846 8270C	1	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
Bis(2-chloroisopropyl) ether	ug/l	SW-846 8270C	5	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
bis(2-Ethylhexyl)phthalate	ug/l	SW-846 8270C	5	2 U	2 U	2 U	2 U	2 U	5	2 J	2 U	4 J
Butylbenzylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Carbazole	ug/l	SW-846 8270C	NS	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
Chrysene ⁽³⁾	ug/l	SW-846 8270C	0.002	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 J	0.1 U	0.1 U
Di-n-butylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Di-n-octylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Dibenz(a,h)anthracene ⁽³⁾	ug/l	SW-846 8270C	NS	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Dibenzofuran	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	1	0.7 J	4	1	0.5 U
Diethylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Dimethylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Fluoranthene ⁽³⁾	ug/l	SW-846 8270C	50	0.1 U	0.2 J	0.1 U	0.1 U	0.1 U	0.3 J	0.1 J	0.1 U	0.1 U
Fluorene	ug/l	SW-846 8270C	50	3	3	0.7	0.1 J	2	1	7	2	0.1 U
Hexachlorobenzene	ug/l	SW-846 8270C	0.04	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Hexachlorobutadiene	ug/l	SW-846 8270C	0.5	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
Hexachlorocyclopentadiene	ug/l	SW-846 8270C	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

TABLE 3
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
WASHINGTON AVENUE TANK FARM AND RAIL SIDING AREA
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, AND SVOCs

			Field Sample ID	SWMW-30(101812)	SWMW-31(101812)	SWMW-32(101812)	SWMW-33(101812)	SWMW-50(101812)	SWMW-60(101812)	SWMW-61(101812)	SWMW-171(101812) ^(*)	SWMW-71(101812)	SWMW-72(101812)
			Location	SWMW-30	SWMW-31	SWMW-32	SWMW-33	SWMW-50	SWMW-60	SWMW-61	SWMW-71	SWMW-71	SWMW-72
			Sample Date	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012
			Sample Delivery Group	1343541	1343541	1343541	1343541	1343541	1343541	1343541	1343541	1343541	1343541
			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	Field Duplicate	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
Parameter Name	Units	Analytical Method	NY_TOGS ⁽¹⁾										
Hexachloroethane	ug/l	SW-846 8270C	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Indeno(1,2,3-cd)pyrene	ug/l	SW-846 8270C	0.002	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.3 J
Isophorone	ug/l	SW-846 8270C	50	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	0.5 U
N-Nitrosodi-n-propylamine	ug/l	SW-846 8270C	NS	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	0.5 U
N-Nitrosodiphenylamine (Diphenylamine)	ug/l	SW-846 8270C	50	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	0.5 U
Naphthalene ⁽³⁾	ug/l	SW-846 8270C	10	0.1 U	0.1 U	0.3 J	0.1 U	0.1 U	0.1 U	8	0.1 U	0.1 U	0.1 U
Nitrobenzene	ug/l	SW-846 8270C	0.4	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	0.5 U
p-Chloro-m-cresol	ug/l	SW-846 8270C	NS	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	0.5 U
p-Cresol	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2	0.5 U	0.5 U	0.5 U	0.5 U
Pentachlorophenol	ug/l	SW-846 8270C	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Phenanthrene ⁽³⁾	ug/l	SW-846 8270C	50	0.4 J	0.3 J	0.1 J	0.1 U	1	0.1 U	5	0.6	0.5	0.1 U
Phenol	ug/l	SW-846 8270C	1	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	0.5 U
Pyrene ⁽³⁾	ug/l	SW-846 8270C	50	0.2 J	0.5	0.1 U	0.1 U	0.1 U	0.6	0.4 J	0.1 J	0.1 J	0.9
TOTAL PAHs	ug/L	SW-846 8270C	NS	1.8 J	3.9 J	0.7 J	0	1	0.9 J	17.1 J	1.4 J	0.6 J	2.9 J
TOTAL SVOCs (including PAHs)	ug/L	SW-846 8270C	NS	5.3 J	11.9 J	1.4 J	0.7 J	5.4 J	9.6 J	164.9 J	24.2 J	24.4 J	7.2 J

TABLE 3
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
WASHINGTON AVENUE TANK FARM AND RAIL SIDING AREA
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, AND SVOCs

		Field Sample ID	SWMW-101(101812)	SWMW-102(101812)	SWMW-121(101212)	SWMW-127(101812)	SWMW-128(101812)	SWMW-129(101812)	TF-26(101812)
		Location	SWMW-101	SWMW-102	SWMW-121	SWMW-127	SWMW-128	SWMW-129	TF-26
		Sample Date	10/18/2012	10/18/2012	10/12/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012
		Sample Delivery Group	1343539	1343541	1342157	1343541	1343541	1343541	1343541
		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 Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Parameter Name	Units	Analytical Method	NY_TOGS ⁽¹⁾						
Anions by EPA Method 300.0									
Chloride	mg/l	EPA 300.0	250	148	181	2.4	132	153	2.2
Sulfate	mg/l	EPA 300.0	250	30.8	20	19.1	15.1	20.3	8.6
Metals by EPA Method 6010B									
Aluminum	mg/l	SW-846 6010B	0.1	3.1	30.2	0.52	1.77	25.2	0.267
Antimony	mg/l	SW-846 6010B	0.003	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U
Arsenic	mg/l	SW-846 6010B	0.025	0.0101 J	0.0294	0.0068 U	0.0068 U	0.0182 J	0.0275
Barium	mg/l	SW-846 6010B	1	0.0673	0.179	0.0318	0.0342	0.176	0.0726
Beryllium	mg/l	SW-846 6010B	0.003	0.00067 U	0.0017 J	0.00067 U	0.00067 U	0.0011 J	0.00067 U
Cadmium	mg/l	SW-846 6010B	0.005	0.00036 U	0.00047 J	0.005 U	0.00036 U	0.00067 J	0.00066 J
Calcium	mg/l	SW-846 6010B	NS	43.7	46.9	42.6	27.2	60.1	97
Chromium	mg/l	SW-846 6010B	0.05	0.788	0.968	0.0022 J	0.0031 J	0.0347	0.0016 J
Cobalt	mg/l	SW-846 6010B	0.005	0.0054	0.0336	0.00066 U	0.0015 J	0.0196	0.00066 U
Copper	mg/l	SW-846 6010B	0.2	0.0839	0.121	0.0021 U	0.0024 J	0.0655	0.0021 U
IRON	mg/l	SW-846 6010B	0.3	9.29	62.5	0.627	2.28	44.9	7.3
Lead	mg/l	SW-846 6010B	0.025	0.0079 J	0.0513	0.0051 U	0.0051 U	0.0263	0.0051 U
Magnesium	mg/l	SW-846 6010B	35	12.6	19.9	15.2	6.72	25	13.8
Manganese	mg/l	SW-846 6010B	0.3	0.845	3.74	0.0924	0.322	1.93	4.75
Nickel	mg/l	SW-846 6010B	0.1	0.189	0.173	0.0012 J	0.0011 J	0.0376	0.0011 U
Potassium	mg/l	SW-846 6010B	NS	1.74	5.47	1.08	1.44	4.78	0.707
Selenium	mg/l	SW-846 6010B	0.01	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U
Silver	mg/l	SW-846 6010B	0.05	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
Sodium	mg/l	SW-846 6010B	20	210	180	11.7	81.5	105	34.4
Thallium	mg/l	SW-846 6010B	0.0005	0.0057 U	0.0057 U	0.03 U	0.0057 U	0.0057 U	0.0057 U
Vanadium	mg/l	SW-846 6010B	NS	0.0055	0.045	0.0013 U	0.0033 J	0.0342	0.0035 J
Zinc	mg/l	SW-846 6010B	2	0.0145 J	0.147	0.0105 J	0.0083 J	0.137	0.0062 J
Mercury by EPA Method 7470A									
Mercury	mg/l	SW-846 7470A	0.0007	0.00007 U	0.00007 U	0.00007 U	0.00007 U	0.00007 U	0.00007 U
VOCs ⁽⁴⁾ by EPA Method 8260B									
1,1,1-Trichloroethane(2)	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
1,1,2,2-Tetrachloroethane ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane ⁽²⁾	ug/l	SW-846 8260B	1	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
1,1-Dichloroethane ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene (Dichloroethylene) ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
1,2-Dichloroethane ⁽²⁾	ug/l	SW-846 8260B	0.6	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane ⁽²⁾	ug/l	SW-846 8260B	1	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (Methyl ethyl ketone)	ug/l	SW-846 8260B	50	3 U	3 U	3 U	3 U	3 U	3 U
2-Hexanone	ug/l	SW-846 8260B	50	3 U	3 U	3 U	3 U	3 U	3 U
4-Methyl-2-pentanone	ug/l	SW-846 8260B	NS	3 U	3 U	3 U	3 U	3 U	3 U
Acetone	ug/l	SW-846 8260B	50	6 U	6 U	6 U	6 U	6 U	6 U
Benzene	ug/l	SW-846 8260B	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane ⁽²⁾	ug/l	SW-846 8260B	50	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/l	SW-846 8260B	50	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane (Methyl bromide) ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	ug/l	SW-846 8260B	60	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Chloroethane ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform ⁽²⁾	ug/l	SW-846 8260B	7	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Chloromethane (Methyl chloride) ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
cis-1,3-Dichloropropene ⁽²⁾	ug/l	SW-846 8260B	NS	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane ⁽²⁾	ug/l	SW-846 8260B	50	1 U	1 U	1 U	1 U	1 U	1 U
Diisopropyl ether	ug/l	SW-846 8260B	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Ethyl-t-butylether	ug/l	SW-846 8260B	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Ethylbenzene	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Methyl-t-butyl ether	ug/l	SW-846 8260B	10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene chloride (Dichloromethane) ⁽²⁾	ug/l	SW-846 8260B	5	2 U	2 U	2 U	2 U	2 U	2 U
Styrene	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U
Tert-amyl methyl ether	ug/l	SW-846 8260B	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Tertiary Butyl Alcohol	ug/l	SW-846 8260B	NS	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U

TABLE 3
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
WASHINGTON AVENUE TANK FARM AND RAIL SIDING AREA
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, AND SVOCs

		Field Sample ID	SWMW-101(101812)	SWMW-102(101812)	SWMW-121(101212)	SWMW-127(101812)	SWMW-128(101812)	SWMW-129(101812)	TF-26(101812)
		Location	SWMW-101	SWMW-102	SWMW-121	SWMW-127	SWMW-128	SWMW-129	TF-26
		Sample Date	10/18/2012	10/18/2012	10/12/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012
		Sample Delivery Group	1343539	1343541	1342157	1343541	1343541	1343541	1343541
		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 Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Parameter Name	Units	Analytical Method	NY_TOGS ⁽¹⁾						
Toluene	ug/l	SW-846 8260B	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
trans-1,2-Dichloroethene ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
trans-1,3-Dichloropropene ⁽²⁾	ug/l	SW-846 8260B	0.4	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene (Trichloroethylene) ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride (Chloroethene) ⁽²⁾	ug/l	SW-846 8260B	2	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
TOTAL CVOCs	ug/L	SW-846 8260B	NS	0	0	0	0	0	0
TOTAL VOCs (including CVOCs)	ug/L	SW-846 8260B	NS	0	0	0	0	0	0
SVOCs ⁽³⁾ by EPA Method 8270C									
1,2,4-Trichlorobenzene	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/l	SW-846 8270C	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	ug/l	SW-846 8270C	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	ug/l	SW-846 8270C	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4,5-Trichlorophenol	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4,6-Trichlorophenol	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dichlorophenol	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dimethylphenol	ug/l	SW-846 8270C	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dinitrophenol	ug/l	SW-846 8270C	10	9 U	9 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	ug/l	SW-846 8270C	5	0.9 U	0.9 U	1 U	1 U	0.9 U	1 U
2,6-Dinitrotoluene	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chloronaphthalene	ug/l	SW-846 8270C	10	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-Chlorophenol (o-Chlorophenol)	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Methyl-naphthlalene	ug/l	SW-846 8270C	NS	0.09 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U
2-Methylphenol (o-Cresol)	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Nitroaniline (o-Nitroaniline)	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Nitrophenol (o-Nitrophenol)	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
3,3'-Dichlorobenzidine	ug/l	SW-846 8270C	5	2 U	2 U	2 U	2 U	2 U	2 U
3-Nitroaniline	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	ug/l	SW-846 8270C	NS	5 U	5 U	5 U	5 U	5 U	5 U
4-Bromophenylphenylether	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chloroaniline	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chlorophenyl phenyl ether	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Nitroaniline	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Nitrophenol	ug/l	SW-846 8270C	NS	9 U	9 U	10 U	10 U	10 U	10 U
Acenaphthene ⁽³⁾	ug/l	SW-846 8270C	20	0.2 J	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U
Acenaphthylene	ug/l	SW-846 8270C	NS	0.09 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U
Anthracene ⁽³⁾	ug/l	SW-846 8270C	50	0.1 J	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U
Benzo(a)anthracene ⁽³⁾	ug/l	SW-846 8270C	0.002	0.09 U	0.1 J	0.1 U	0.1 U	0.09 U	0.1 U
Benzo(a)Pyrene ⁽³⁾	ug/l	SW-846 8270C	NS	0.09 U	0.1 J	0.1 U	0.1 U	0.09 U	0.1 U
Benzo(b)Fluoranthene ⁽³⁾	ug/l	SW-846 8270C	0.002	0.09 U	0.2 J	0.1 U	0.1 U	0.09 U	0.1 U
Benzo(g,h,i)perylene ⁽³⁾	ug/l	SW-846 8270C	NS	0.09 U	0.1 J	0.1 U	0.1 U	0.09 U	0.1 U
Benzo(k)Fluoranthene ⁽³⁾	ug/l	SW-846 8270C	0.002	0.09 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U
bis(2-Chloroethoxy)methane	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
bis(2-Chloroethyl) ether	ug/l	SW-846 8270C	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bis(2-chloroisopropyl) ether	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
bis(2-Ethylhexyl)phthalate	ug/l	SW-846 8270C	5	2 U	2 U	2 U	2 U	2 U	2 U
Butylbenzylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U
Carbazole	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chrysene ⁽³⁾	ug/l	SW-846 8270C	0.002	0.09 U	0.1 J	0.1 U	0.1 U	0.09 U	0.1 U
Di-n-butylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U
Di-n-octylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U
Dibenz(a,h)anthracene ⁽³⁾	ug/l	SW-846 8270C	NS	0.09 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U
Dibenzofuran	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Diethylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U
Dimethylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U
Fluoranthene ⁽³⁾	ug/l	SW-846 8270C	50	0.09 U	0.1 J	0.1 U	0.1 U	0.09 U	0.1 U
Fluorene	ug/l	SW-846 8270C	50	0.9	0.09 U	0.1 U	0.1 U	0.09 U	0.1 J
Hexachlorobenzene	ug/l	SW-846 8270C	0.04	0.09 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U
Hexachlorobutadiene	ug/l	SW-846 8270C	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	ug/l	SW-846 8270C	5	5 U	5 U	5 U	5 U	5 U	5 U

TABLE 3
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
WASHINGTON AVENUE TANK FARM AND RAIL SIDING AREA
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, AND SVOCs

			Field Sample ID	SWMW-101(101812)	SWMW-102(101812)	SWMW-121(101212)	SWMW-127(101812)	SWMW-128(101812)	SWMW-129(101812)	TF-26(101812)
			Location	SWMW-101	SWMW-102	SWMW-121	SWMW-127	SWMW-128	SWMW-129	TF-26
			Sample Date	10/18/2012	10/18/2012	10/12/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012
			Sample Delivery Group	1343539	1343541	1342157	1343541	1343541	1343541	1343541
			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 Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Parameter Name	Units	Analytical Method	NY_TOGS ⁽¹⁾	0.9 U	0.9 U	1 U	1 U	1 U	0.9 U	1 U
Hexachloroethane	ug/l	SW-846 8270C	5							
Indeno(1,2,3-cd)pyrene	ug/l	SW-846 8270C	0.002							
Isophorone	ug/l	SW-846 8270C	50							
N-Nitrosodi-n-propylamine	ug/l	SW-846 8270C	NS							
N-Nitrosodiphenylamine (Diphenylamine)	ug/l	SW-846 8270C	50							
Naphthalene ⁽³⁾	ug/l	SW-846 8270C	10							
Nitrobenzene	ug/l	SW-846 8270C	0.4							
p-Chloro-m-cresol	ug/l	SW-846 8270C	NS							
p-Cresol	ug/l	SW-846 8270C	NS							
Pentachlorophenol	ug/l	SW-846 8270C	1							
Phenanthrene ⁽³⁾	ug/l	SW-846 8270C	50							
Phenol	ug/l	SW-846 8270C	1							
Pyrene ⁽³⁾	ug/l	SW-846 8270C	50							
TOTAL PAHs	ug/L	SW-846 8270C	NS							
TOTAL SVOCs (including PAHs)	ug/L	SW-846 8270C	NS							

TABLE 4													
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE													
BUILDING 36/58/83 AREA													
FORMER TEXACO RESEARCH CENTER, BEACON, NY													
ANIONS, TAL METALS, VOCs, AND SVOCs													
			Field Sample ID	BR-2(101112)	GT-2(101112)	ITMW-13(101112)	ITMW-14(101112)	ITMW-22(101112)	ITMW-30(101812)	ITMW-31(101112)	SWMW-2(101112)	SWMW-45(101812)	SWMW-55(101812)
			Location	BR-2	GT-2	ITMW-13	ITMW-14	ITMW-22	ITMW-30	ITMW-31	SWMW-2	SWMW-45	SWMW-55
			Sample Date	10/11/2012	10/11/2012	10/11/2012	10/11/2012	10/11/2012	10/18/2012	10/11/2012	10/11/2012	10/18/2012	10/18/2012
			Sample Delivery Group	1341939	1341939	1341939	1341939	1341939	1343539	1341939	1341939	1343539	1343539
			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
Parameter Name		Units	Analytical Method	NY_TOGS ⁽¹⁾									
Anions by EPA Method 300.0													
Chloride	mg/l	EPA 300.0	250	178	106	230	58.4	4.8	15.9	6.9	59.6	644	130
Sulfate	mg/l	EPA 300.0	250	14.7	5.3	2.9 J	2.1 J	1.5 U	30.2	6.3	8.2	1.5 U	15.2
Metals by EPA Method 6010B													
Aluminum	mg/l	SW-846 6010B	0.1	0.599	8.18	0.907	3.3	0.142 J	0.0743 U	0.16 J	0.0743 U	3.63	2.36
Antimony	mg/l	SW-846 6010B	0.003	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0043 J
Arsenic	mg/l	SW-846 6010B	0.025	0.009 J	0.0432	0.0068 U	0.0086 J	0.0068 U	0.0358	0.0124 J	0.0068 U	0.0109 J	0.036
Barium	mg/l	SW-846 6010B	1	0.0738	0.368	0.176	0.0481	0.0279	0.0409	0.0309	0.0661	0.105	0.0281
Beryllium	mg/l	SW-846 6010B	0.003	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00091 J
Cadmium	mg/l	SW-846 6010B	0.005	0.00036 U	0.0021 J	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U
Calcium	mg/l	SW-846 6010B	NS	94.3	66.2	81.7	39.1	26.6	44.8	43.9	63.8	60.1	48.1
Chromium	mg/l	SW-846 6010B	0.05	0.026	0.0166	0.0013 J	0.0205	0.0011 U	0.0023 J	0.0011 U	0.0011 U	0.0053 J	0.0053 J
Cobalt	mg/l	SW-846 6010B	0.005	0.0014 J	0.0043 J	0.00066 U	0.002 J	0.00066 U	0.00066 U	0.00066 U	0.00066 U	0.0021 J	0.001 J
Copper	mg/l	SW-846 6010B	0.2	0.0045 J	0.0303	0.0021 U	0.0054 J	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0033 J	0.0045 J
IRON	mg/l	SW-846 6010B	0.3	3.27	68.6	5.54	20.5	9.54	3.52	1.29	1.08	11.2	3.83
Lead	mg/l	SW-846 6010B	0.025	0.0051 U	0.0699	0.0051 U	0.0114 J	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0088 J	0.0051 U
Magnesium	mg/l	SW-846 6010B	35	15.1	13.2	11.3	8.32	6.04	7.29	5.46	10.1	16	10
Manganese	mg/l	SW-846 6010B	0.3	1.92	2.35	1.91	3.87	5.33	1.75	1.52	1.94	3.47	4.29
Nickel	mg/l	SW-846 6010B	0.1	0.0122	0.0049 J	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U
Potassium	mg/l	SW-846 6010B	NS	2.09	4.96	2.17	2.71	2.52	2.53	1.85	3.08	6.98	3.51
Selenium	mg/l	SW-846 6010B	0.01	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U
Silver	mg/l	SW-846 6010B	0.05	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
Sodium	mg/l	SW-846 6010B	20	68.8	76.9	87.8	14.4	9.22	29.6	11.3	137	388	144
Thallium	mg/l	SW-846 6010B	0.0005	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.03 U	0.0057 U	0.0057 U	0.03 U	0.03 U
Vanadium	mg/l	SW-846 6010B	NS	0.0022 J	0.0148	0.0028 J	0.0064	0.002 J	0.0023 J	0.0013 U	0.0013 U	0.0077	0.0028 J
Zinc	mg/l	SW-846 6010B	2	0.388	1.56	0.0104 J	0.0542	0.0031 J	0.002 U	0.0021 J	0.0027 J	0.0179 J	0.0079 J
Mercury by EPA Method 7470A													
Mercury	mg/l	SW-846 7470A	0.0007	0.00007 U	0.000098 J	0.00007 U	0.00007 U	0.00007 U	0.00007 U	0.00007 U	0.00007 U	0.00007 U	0.00007 U
VOCs ⁽²⁾ by EPA Method 8260B													
1,1,1-Trichloroethane ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U	1 J	0.8 U	0.8 U	0.8 U	0.8 U	0.9 J	0.8 U	0.8 U
1,1,2,2-Tetrachloroethane ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane ⁽²⁾	ug/l	SW-846 8260B	1	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
1,1-Dichloroethane ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	31	2 J	2 J	1 U	1 U	14	1 U	1 U
1,1-Dichloroethene (Dichloroethylene) ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
1,2-Dichloroethane ⁽²⁾	ug/l	SW-846 8260B	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane ⁽²⁾	ug/l	SW-846 8260B	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (Methyl ethyl ketone)	ug/l	SW-846 8260B	50	3 U	3 U	3 U	3 U	13	3 U	3 U	3 U	3 U	3 U
2-Hexanone	ug/l	SW-846 8260B	50	3 U	3 U	3 U	3 U	6 J	3 U	3 U	3 U	3 U	3 U
4-Methyl-2-pentanone	ug/l	SW-846 8260B	NS	3 U	3 U	3 U	3 U	5 J	3 U	3 U	3 U	3 U	3 U
Acetone	ug/l	SW-846 8260B	50	6 U	6 U	6 U	6 U	40	6 U	6 U	6 U	6 U	6 U
Benzene	ug/l	SW-846 8260B	1	0.5 U	97	0.5 U	0.5 U	10	0.5 U	2 J	0.5 U	1 J	2 J
Bromodichloromethane ⁽²⁾	ug/l	SW-846 8260B	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/l	SW-846 8260B	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane (Methyl bromide) ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	ug/l	SW-846 8260B	60	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	180	96	3 J	5 J	2 J	0.8 U	56	120	700
Chloroethane ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	14	1 U	3 J	1 U	1 U	11	1 U	1 U
Chloroform ⁽²⁾	ug/l	SW-846 8260B	7	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Chloromethane (Methyl chloride) ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U	1 J	0.8 U	0.8 U	0.8 U	0.8 U	3 J	0.8 U	0.8 U
cis-1,3-Dichloropropene ⁽²⁾	ug/l	SW-846 8260B	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane ⁽²⁾	ug/l	SW-846 8260B	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Diisopropyl ether	ug/l	SW-846 8260B	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Ethyl-t-butylether	ug/l	SW-846 8260B	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 UJ	0.8 U	0.8 UJ	0.8 U	0.8 U	0.8 U
Ethylbenzene	ug/l	SW-846 8260B	5	0.8 U	1 J	2 J	0.8 U	3 J	0.8 U	18	0.8 U	0.8 U	0.8 U
Methyl-t-butyl ether	ug/l	SW-846 8260B	10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U
Methylene chloride (Dichloromethane) ⁽²⁾	ug/l	SW-846 8260B	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Styrene	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tert-amyl methyl ether	ug/l	SW-846 8260B	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Tertiary Butyl Alcohol	ug/l	SW-846 8260B	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

TABLE 4
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
BUILDING 36/58/83 AREA
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, AND SVOCs

			Field Sample ID	BR-2(101112)	GT-2(101112)	ITMW-13(101112)	ITMW-14(101112)	ITMW-22(101112)	ITMW-30(101812)	ITMW-31(101112)	SWMW-2(101112)	SWMW-45(101812)	SWMW-55(101812)
			Location	BR-2	GT-2	ITMW-13	ITMW-14	ITMW-22	ITMW-30	ITMW-31	SWMW-2	SWMW-45	SWMW-55
			Sample Date	10/11/2012	10/11/2012	10/11/2012	10/11/2012	10/11/2012	10/18/2012	10/11/2012	10/11/2012	10/18/2012	10/18/2012
			Sample Delivery Group	1341939	1341939	1341939	1341939	1341939	1343539	1341939	1341939	1343539	1343539
			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
Parameter Name	Units	Analytical Method	NY_TOGS ⁽¹⁾										
Tetrachloroethene ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Toluene	ug/l	SW-846 8260B	5	0.7 U	1 J	0.7 U	0.7 U	2 J	0.7 U	1 J	0.7 U	0.7 U	0.7 U
trans-1,2-Dichloroethene ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
trans-1,3-Dichloropropene ⁽²⁾	ug/l	SW-846 8260B	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene (Trichloroethylene) ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 J	1 U	1 U
Vinyl chloride (Chloroethene) ⁽²⁾	ug/l	SW-846 8260B	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.9 J	0.8 U	7	0.8 U	6	0.8 U	0.8 U	0.8 U
TOTAL CVOCs	ug/l	SW-846 8260B	NS	0	180	143 J	5 J	10 J	2 J	0	86.9 J	120	700
TOTAL VOCs (including CVOCs)	ug/l	SW-846 8260B	NS	0	279 J	145.9 J	5 J	96 J	2 J	27 J	86.9 J	121 J	702 J
SVOCs ⁽⁵⁾ by EPA Method 8270C													
1,2,4-Trichlorobenzene	ug/l	SW-846 8270C	5	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	0.5 U
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/l	SW-846 8270C	3	0.5 UJ	2 J	13 J	1	13	0.5 U	0.8 J	5 J	1	1
1,3-Dichlorobenzene	ug/l	SW-846 8270C	3	0.5 U	1	0.8 J	0.5 U	0.5 U	0.5 U	0.5 U	1	1	0.6 J
1,4-Dichlorobenzene	ug/l	SW-846 8270C	3	1	7	6	2	3	0.5 U	0.5 U	8	8	5
2,4,5-Trichlorophenol	ug/l	SW-846 8270C	NS	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	0.5 U
2,4,6-Trichlorophenol	ug/l	SW-846 8270C	NS	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	0.5 U
2,4-Dichlorophenol	ug/l	SW-846 8270C	5	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	0.5 U
2,4-Dimethylphenol	ug/l	SW-846 8270C	50	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	0.5 U
2,4-Dinitrophenol	ug/l	SW-846 8270C	10	10 UJ	10 UJ	9 UJ	10 U	10 U	10 U	10 UJ	10 UJ	9 U	9 U
2,4-Dinitrotoluene	ug/l	SW-846 8270C	5	1 U	1 U	0.9 U	1 U	1 U	1 U	1 U	1 U	0.9 U	0.9 U
2,6-Dinitrotoluene	ug/l	SW-846 8270C	5	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	0.5 U
2-Chloronaphthalene	ug/l	SW-846 8270C	10	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-Chlorophenol (o-Chlorophenol)	ug/l	SW-846 8270C	NS	0.5 U	0.7 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3
2-Methyl-naphthalene	ug/l	SW-846 8270C	NS	0.1 U	0.2 J	0.09 U	0.1 U	0.1 U	0.1 U	1	0.1 U	0.09 U	0.2 J
2-Methylphenol (o-Cresol)	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9 J	0.5 U
2-Nitroaniline (o-Nitroaniline)	ug/l	SW-846 8270C	5	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	0.5 U
2-Nitrophenol (o-Nitrophenol)	ug/l	SW-846 8270C	NS	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	0.5 U
3,3'-Dichlorobenzidine	ug/l	SW-846 8270C	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
3-Nitroaniline	ug/l	SW-846 8270C	5	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	0.5 U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	ug/l	SW-846 8270C	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Bromophenylphenylether	ug/l	SW-846 8270C	NS	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	0.5 U
4-Chloroaniline	ug/l	SW-846 8270C	5	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	0.5 U
4-Chlorophenyl phenyl ether	ug/l	SW-846 8270C	NS	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	0.5 U
4-Nitroaniline	ug/l	SW-846 8270C	5	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	0.5 U
4-Nitrophenol	ug/l	SW-846 8270C	NS	10 U	10 U	9 U	10 U	10 U	10 U	10 U	10 U	9 U	9 U
Acenaphthene ⁽⁵⁾	ug/l	SW-846 8270C	20	0.1 U	3	1	0.4 J	1	0.1 U	0.9	0.2 J	2	0.2 J
Acenaphthylene	ug/l	SW-846 8270C	NS	0.1 U	0.3 J	0.1 J	0.1 U	0.1 U	0.1 U	0.3 J	0.1 U	0.09 U	0.09 U
Anthracene ⁽⁵⁾	ug/l	SW-846 8270C	50	0.1 U	0.9	0.09 U	0.2 J	0.1 U	0.1 U	0.1 J	0.1 U	1	0.09 U
Benzo(a)anthracene ⁽⁵⁾	ug/l	SW-846 8270C	0.002	0.1 U	1	0.09 U	0.2 J	0.1 U	0.1 U	0.1 U	0.1 U	0.4 J	0.09 U
Benzo(a)Pyrene ⁽⁵⁾	ug/l	SW-846 8270C	NS	0.1 U	0.7	0.09 U	0.4 J	0.1 U	0.1 U	0.1 U	0.1 U	0.4 J	0.09 U
Benzo(b)Fluoranthene ⁽⁵⁾	ug/l	SW-846 8270C	0.002	0.1 U	1	0.09 U	0.3 J	0.1 U	0.1 U	0.1 U	0.1 U	0.2 J	0.09 U
Benzo(g,h,i)perylene ⁽⁵⁾	ug/l	SW-846 8270C	NS	0.1 U	0.5	0.09 U	0.4 J	0.1 U	0.1 U	0.1 U	0.1 U	0.09 U	0.09 U
Benzo(k)Fluoranthene ⁽⁵⁾	ug/l	SW-846 8270C	0.002	0.1 U	0.4 J	0.09 U	0.1 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1 J	0.09 U
bis(2-Chloroethoxy)methane	ug/l	SW-846 8270C	5	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	0.5 U
bis(2-Chloroethyl) ether	ug/l	SW-846 8270C	1	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	0.5 U
Bis(2-chloroisopropyl) ether	ug/l	SW-846 8270C	5	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	0.5 U
bis(2-Ethylhexyl)phthalate	ug/l	SW-846 8270C	5	2 U	8	2 U	310	4 J	2 U	2 U	2 U	90	2 U
Butylbenzylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Carbazole	ug/l	SW-846 8270C	NS	0.5 U	0.7 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chrysene ⁽⁵⁾	ug/l	SW-846 8270C	0.002	0.1 UJ	1 J	0.09 UJ	0.3 J	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.5	0.09 U
Di-n-butylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Di-n-octylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	14	2 U
Dibenz(a,h)anthracene ⁽⁵⁾	ug/l	SW-846 8270C	NS	0.1 U	0.1 J	0.09 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.09 U	0.09 U
Dibenzofuran	ug/l	SW-846 8270C	NS	0.5 U	0.9 J	0.6 J	0.5 U	0.5 U	0.5 U	1	0.5 U	2	0.5 U
Diethylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Dimethylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Fluoranthene ⁽⁵⁾	ug/l	SW-846 8270C	50	0.1 U	4	0.09 U	0.8	0.1 U	0.1 U	0.1 U	0.1 J	2	0.09 U
Fluorene	ug/l	SW-846 8270C	50	0.1 U	3	0.4 J	0.5	0.5	0.1 U	2	0.2 J	4	0.4 J
Hexachlorobenzene	ug/l	SW-846 8270C	0.04	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.09 U	0.09 U
Hexachlorobutadiene	ug/l	SW-846 8270C	0.5	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	0.5 U
Hexachlorocyclopentadiene	ug/l	SW-846 8270C	5	5 UJ	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ	5 UJ	5 U	5 U

TABLE 4 GROUNDWATER ANALYTICAL DATA SUMMARY TABLE BUILDING 36/58/83 AREA FORMER TEXACO RESEARCH CENTER, BEACON, NY ANIONS, TAL METALS, VOCs, AND SVOCs													
			Field Sample ID Location Sample Date Sample Delivery Group Matrix Sample Purpose Sample Type	BR-2(101112) BR-2 10/11/2012 1341939 WATER Regular sample Groundwater Sample	GT-2(101112) GT-2 10/11/2012 1341939 WATER Regular sample Groundwater Sample	ITMW-13(101112) ITMW-13 10/11/2012 1341939 WATER Regular sample Groundwater Sample	ITMW-14(101112) ITMW-14 10/11/2012 1341939 WATER Regular sample Groundwater Sample	ITMW-22(101112) ITMW-22 10/11/2012 1341939 WATER Regular sample Groundwater Sample	ITMW-30(101812) ITMW-30 10/18/2012 1343539 WATER Regular sample Groundwater Sample	ITMW-31(101112) ITMW-31 10/11/2012 1341939 WATER Regular sample Groundwater Sample	SWMW-2(101112) SWMW-2 10/11/2012 1341939 WATER Regular sample Groundwater Sample	SWMW-45(101812) SWMW-45 10/18/2012 1343539 WATER Regular sample Groundwater Sample	SWMW-55(101812) SWMW-55 10/18/2012 1343539 WATER Regular sample Groundwater Sample
Parameter Name	Units	Analytical Method	NY_TOGS ⁽¹⁾										
Hexachloroethane	ug/l	SW-846 8270C	5	1 U	1 U	0.9 U	1 U	1 U	1 U	1 U	1 U	0.9 U	0.9 U
Indeno(1,2,3-cd)pyrene	ug/l	SW-846 8270C	0.002	0.1 U	0.4 J	0.09 U	0.3 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1 J	0.09 U
Isophorone	ug/l	SW-846 8270C	50	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	0.5 U
N-Nitrosodi-n-propylamine	ug/l	SW-846 8270C	NS	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	0.5 U
N-Nitrosodiphenylamine (Diphenylamine)	ug/l	SW-846 8270C	50	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	0.5 U
Naphthalene ⁽⁹⁾	ug/l	SW-846 8270C	10	0.1 U	0.7	0.2 J	0.1 U	1	0.1 U	6	0.2 J	0.09 U	1
Nitrobenzene	ug/l	SW-846 8270C	0.4	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	0.5 U
p-Chloro-m-cresol	ug/l	SW-846 8270C	NS	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	0.5 U
p-Cresol	ug/l	SW-846 8270C	NS	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	0.5 U
Pentachlorophenol	ug/l	SW-846 8270C	1	1 U	1 U	0.9 U	1 U	1 U	1 U	1 U	1 U	0.9 U	0.9 U
Phenanthrene ⁽⁹⁾	ug/l	SW-846 8270C	50	0.1 U	2	0.09 U	0.1 U	0.2 J	0.1 U	1	0.1 U	2	0.09 U
Phenol	ug/l	SW-846 8270C	1	0.5 U	1	0.5 U	0.5 U	0.5 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Pyrene ⁽⁹⁾	ug/l	SW-846 8270C	50	0.1 U	4	0.09 U	0.8	0.2 J	0.1 U	0.1 U	0.2 J	2	0.09 U
TOTAL PAHs	ug/l	SW-846 8270C	NS	0	19.3 J	1.2 J	3.9 J	2.4 J	0	8 J	0.7 J	10.6 J	1.2 J
TOTAL SVOCs (including PAHs)	ug/l	SW-846 8270C	NS	1	44.5 J	22.1 J	317.7 J	23.4 J	0	13.1 J	14.9 J	131.6 J	11.4 J

TABLE 4
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
BUILDING 36/58/83 AREA
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, AND SVOCs

			Field Sample ID	SWMW-114(101712)	SWMW-1115(101112) ^(*)	SWMW-115(101112)	SWMW-116(101812)	SWMW-123(101812)	SWMW-124(101112)	SWMW-125(101112)	UNK-1(101112)	UNK-2(101112)	UNK-3(101112)
			Location	SWMW-114	SWMW-115	SWMW-115	SWMW-116	SWMW-123	SWMW-124	SWMW-125	Unknown Well #1	Unknown Well #2	Unknown Well #3
			Sample Date	10/17/2012	10/11/2012	10/11/2012	10/18/2012	10/18/2012	10/11/2012	10/11/2012	10/11/2012	10/11/2012	10/11/2012
			Sample Delivery Group	1343207	1341939	1341939	1343539	1343539	1341939	1341939	1341939	1341939	1341939
			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
Parameter Name	Units	Analytical Method	NY_TOGS ⁽¹⁾										
Anions by EPA Method 300.0													
Chloride	mg/l	EPA 300.0	250	43.6 U	57.5 J	75.9	71.6	151	92.9	19.3 J	23.9	54.3	112
Sulfate	mg/l	EPA 300.0	250	17	22	17.3	60.8	19.8	17.6	3.6 J	1.5 U	2.2 J	2.5 J
Metals by EPA Method 6010B													
Aluminum	mg/l	SW-846 6010B	0.1	0.0743 U	0.143 J	0.0907 J	0.572	0.0743 U	0.181 J	1.03	0.582	5.93	0.368
Antimony	mg/l	SW-846 6010B	0.003	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U
Arsenic	mg/l	SW-846 6010B	0.025	0.0068 U	0.0068 U	0.0068 U	0.0142 J	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0162 J	0.0068 U
Barium	mg/l	SW-846 6010B	1	0.0372	0.043	0.0418	0.0437	0.272	0.0175	0.0567	0.0283	0.0625	0.0405
Beryllium	mg/l	SW-846 6010B	0.003	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00068 J	0.00067 U
Cadmium	mg/l	SW-846 6010B	0.005	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00074 J	0.00036 U
Calcium	mg/l	SW-846 6010B	NS	71.5	71.8	71	53	122	89.5	89	36.9	35.7	40.3
Chromium	mg/l	SW-846 6010B	0.05	0.0011 U	0.0011 U	0.0011 U	0.0024 J	0.0018 J	0.0014 J	0.0026 J	0.002 J	0.0099 J	0.0013 J
Cobalt	mg/l	SW-846 6010B	0.005	0.00066 U	0.00066 U	0.00066 U	0.0015 J	0.00066 U	0.00066 U	0.00066 U	0.00066 U	0.0021 J	0.00066 U
Copper	mg/l	SW-846 6010B	0.2	0.0021 U	0.0021 U	0.0021 U	0.0044 J	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0026 J	0.0022 J
IRON	mg/l	SW-846 6010B	0.3	0.0443 J	0.202	0.11 J	0.832	0.143 J	0.214	1.74	15.6	30.1	17.6
Lead	mg/l	SW-846 6010B	0.025	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0076 J	0.0183	0.0103 J
Magnesium	mg/l	SW-846 6010B	35	8.97	7.75	7.71	8.19	18.4	10.7	8.44	6.72	8.06	7.39
Manganese	mg/l	SW-846 6010B	0.3	0.515	0.0184	0.0094	0.363	0.652	0.0055	3.6	3.55	2.8	2.99
Nickel	mg/l	SW-846 6010B	0.1	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0019 J	0.0011 U
Potassium	mg/l	SW-846 6010B	NS	0.582	0.931	0.883	4.65	2.48	1.44	4.14	1.43	2.7	2.06
Selenium	mg/l	SW-846 6010B	0.01	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U
Silver	mg/l	SW-846 6010B	0.05	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
Sodium	mg/l	SW-846 6010B	20	10.9	15.4	15.2	118	53.2	19.1	11.7	5.47	21.7	44.9
Thallium	mg/l	SW-846 6010B	0.0005	0.0057 U	0.0057 U	0.0057 U	0.03 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U
Vanadium	mg/l	SW-846 6010B	NS	0.0013 U	0.0014 J	0.0013 J	0.0048 J	0.0013 U	0.0013 U	0.004 J	0.0044 J	0.0142	0.0022 J
Zinc	mg/l	SW-846 6010B	2	0.0022 J	0.0072 J	0.0047 J	0.0537	0.002 U	0.0137 J	0.0049 J	0.0152 J	0.201	0.0674
Mercury by EPA Method 7470A													
Mercury	mg/l	SW-846 7470A	0.0007	0.00007 U	0.00007 U	0.00007 U	0.0001 J	0.00007 U	0.00007 U	0.00007 U	0.00007 U	0.00007 U	0.00007 U
VOCs ⁽⁴⁾ by EPA Method 8260B													
1,1,1-Trichloroethane ⁽²⁾	ug/l	SW-846 8260B	5	15	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	220	0.8 U	0.8 U	0.8 U
1,1,2,2-Tetrachloroethane ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane ⁽²⁾	ug/l	SW-846 8260B	1	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
1,1-Dichloroethane ⁽²⁾	ug/l	SW-846 8260B	5	7	1 J	1 J	1 U	11	1 U	77	4 J	1 U	1 U
1,1-Dichloroethene (Dichloroethylene) ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	2 J	0.8 U	10 J	0.8 U	0.8 U	0.8 U
1,2-Dichloroethane ⁽²⁾	ug/l	SW-846 8260B	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane ⁽²⁾	ug/l	SW-846 8260B	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (Methyl ethyl ketone)	ug/l	SW-846 8260B	50	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
2-Hexanone	ug/l	SW-846 8260B	50	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
4-Methyl-2-pentanone	ug/l	SW-846 8260B	NS	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Acetone	ug/l	SW-846 8260B	50	7 J	6 U	6 U	6 U	6 U	6 U	10 J	6 U	6 U	6 U
Benzene	ug/l	SW-846 8260B	1	0.5 U	0.5 U	0.5 U	0.5 U	3 J	0.5 U	4 J	0.6 J	0.5 U	0.5 U
Bromodichloromethane ⁽²⁾	ug/l	SW-846 8260B	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/l	SW-846 8260B	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane (Methyl bromide) ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	ug/l	SW-846 8260B	60	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene ⁽²⁾	ug/l	SW-846 8260B	5	26	0.8 U	0.8 U	0.8 U	230	0.8 U	250	160	83	10
Chloroethane ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	15	20	1 U	1 U
Chloroform ⁽²⁾	ug/l	SW-846 8260B	7	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Chloromethane (Methyl chloride) ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene ⁽²⁾	ug/l	SW-846 8260B	5	9	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	120	0.8 U	0.8 U	0.8 U
cis-1,3-Dichloropropene ⁽²⁾	ug/l	SW-846 8260B	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane ⁽²⁾	ug/l	SW-846 8260B	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Diisopropyl ether	ug/l	SW-846 8260B	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Ethyl-t-butylether	ug/l	SW-846 8260B	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Ethylbenzene	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	4 J	0.8 U	0.8 U	0.8 U
Methyl-t-butyl ether	ug/l	SW-846 8260B	10	0.5 U	0.5 U	0.5 U	0.5 U	1 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene chloride (Dichloromethane) ⁽²⁾	ug/l	SW-846 8260B	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Styrene	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tert-amyl methyl ether	ug/l	SW-846 8260B	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Tertiary Butyl Alcohol	ug/l	SW-846 8260B	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

TABLE 4
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
BUILDING 36/58/83 AREA
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, AND SVOCs

			Field Sample ID	SWMW-114(101712)	SWMW-1115(101112) ⁽¹⁾	SWMW-115(101112)	SWMW-116(101812)	SWMW-123(101812)	SWMW-124(101112)	SWMW-125(101112)	UNK-1(101112)	UNK-2(101112)	UNK-3(101112)
			Location	SWMW-114	SWMW-115	SWMW-115	SWMW-116	SWMW-123	SWMW-124	SWMW-125	Unknown Well #1	Unknown Well #2	Unknown Well #3
			Sample Date	10/17/2012	10/11/2012	10/11/2012	10/18/2012	10/18/2012	10/11/2012	10/11/2012	10/11/2012	10/11/2012	10/11/2012
			Sample Delivery Group	1343207	1341939	1341939	1343539	1343539	1341939	1341939	1341939	1341939	1341939
			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
Parameter Name	Units	Analytical Method	NY_TOGS ⁽¹⁾										
Tetrachloroethene ^(*)	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Toluene	ug/l	SW-846 8260B	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	22	0.7 U	0.7 U	0.7 U
trans-1,2-Dichloroethene ^(*)	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
trans-1,3-Dichloropropene ^(*)	ug/l	SW-846 8260B	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene (Trichloroethylene) ^(*)	ug/l	SW-846 8260B	5	230	2 J	2 J	1 U	1 U	1 J	270	1 U	1 U	1 U
Vinyl chloride (Chloroethene) ^(*)	ug/l	SW-846 8260B	2	1 U	1 U	1 U	1 U	1 U	1 U	6	1 U	1 U	1 U
Xylenes, Total	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	8	0.8 U	0.8 U	0.8 U
TOTAL CVOCs	ug/l	SW-846 8260B	NS	287	3 J	3 J	0	243 J	1 J	968 J	184 J	83	10
TOTAL VOCs (including CVOCs)	ug/l	SW-846 8260B	NS	294 J	3 J	3 J	0	247 J	1 J	1016 J	184.6 J	83	10
SVOCs ⁽⁵⁾ by EPA Method 8270C													
1,2,4-Trichlorobenzene	ug/l	SW-846 8270C	5	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	0.5 U
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/l	SW-846 8270C	3	26	0.5 UJ	0.5 UJ	0.5 U	5	0.5 UJ	390 J	9 J	1 J	0.5 J
1,3-Dichlorobenzene	ug/l	SW-846 8270C	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3	2	0.5 U	0.5 U
1,4-Dichlorobenzene	ug/l	SW-846 8270C	3	2	0.5 U	0.5 U	0.5 U	3	0.5 U	19	23	3	2
2,4,5-Trichlorophenol	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 UJ
2,4,6-Trichlorophenol	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 UJ
2,4-Dichlorophenol	ug/l	SW-846 8270C	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9 J	0.5 UJ	0.5 U	0.5 UJ
2,4-Dimethylphenol	ug/l	SW-846 8270C	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	13	0.5 UJ	0.5 U	0.5 UJ
2,4-Dinitrophenol	ug/l	SW-846 8270C	10	10 U	9 UJ	10 UJ	10 U	9 U	10 UJ	10 UJ	9 UJ	10 UJ	10 UJ
2,4-Dinitrotoluene	ug/l	SW-846 8270C	5	1 U	0.9 U	1 U	1 U	0.9 U	1 U	1 U	0.9 U	1 U	1 U
2,6-Dinitrotoluene	ug/l	SW-846 8270C	5	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	0.5 U
2-Chloronaphthalene	ug/l	SW-846 8270C	10	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-Chlorophenol (o-Chlorophenol)	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3	0.5 UJ	0.5 U	0.5 UJ
2-Methyl-naphthalene	ug/l	SW-846 8270C	NS	0.9	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	17	0.9	0.1 U	0.1 U
2-Methylphenol (o-Cresol)	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 J	0.5 UJ	0.5 U	0.5 UJ
2-Nitroaniline (o-Nitroaniline)	ug/l	SW-846 8270C	5	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	0.5 U
2-Nitrophenol (o-Nitrophenol)	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 UJ
3,3'-Dichlorobenzidine	ug/l	SW-846 8270C	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
3-Nitroaniline	ug/l	SW-846 8270C	5	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	0.5 U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	ug/l	SW-846 8270C	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 UJ
4-Bromophenylphenylether	ug/l	SW-846 8270C	NS	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	0.5 U
4-Chloroaniline	ug/l	SW-846 8270C	5	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	0.5 U
4-Chlorophenyl phenyl ether	ug/l	SW-846 8270C	NS	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	0.5 U
4-Nitroaniline	ug/l	SW-846 8270C	5	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	0.5 U
4-Nitrophenol	ug/l	SW-846 8270C	NS	10 U	9 U	10 U	10 U	9 U	10 U	10 U	9 UJ	10 U	10 UJ
Acenaphthene ^(*)	ug/l	SW-846 8270C	20	0.2 J	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	1	1	0.4 J	0.6
Acenaphthylene	ug/l	SW-846 8270C	NS	0.2 J	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.2 J	0.3 J	0.1 U	0.1 U
Anthracene ^(*)	ug/l	SW-846 8270C	50	0.1 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U	0.2 J	0.1 U	0.1 U
Benzo(a)anthracene ^(*)	ug/l	SW-846 8270C	0.002	0.1 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U
Benzo(a)Pyrene ^(*)	ug/l	SW-846 8270C	NS	0.1 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U
Benzo(b)Fluoranthene ^(*)	ug/l	SW-846 8270C	0.002	0.1 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U
Benzo(g,h,i)perylene ^(*)	ug/l	SW-846 8270C	NS	0.1 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U
Benzo(k)Fluoranthene ^(*)	ug/l	SW-846 8270C	0.002	0.1 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U
bis(2-Chloroethoxy)methane	ug/l	SW-846 8270C	5	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	0.5 U
bis(2-Chloroethyl) ether	ug/l	SW-846 8270C	1	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	0.5 U
Bis(2-chloroisopropyl) ether	ug/l	SW-846 8270C	5	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	0.5 U
bis(2-Ethylhexyl)phthalate	ug/l	SW-846 8270C	5	2 J	2 U	2 U	2 U	2 U	2 U	12	2 U	2 U	2 U
Butylbenzylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Carbazole	ug/l	SW-846 8270C	NS	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	0.5 U
Chrysene ^(*)	ug/l	SW-846 8270C	0.002	0.1 U	0.09 UJ	0.1 UJ	0.1 U	0.09 U	0.1 UJ	0.1 UJ	0.09 UJ	0.1 UJ	0.1 UJ
Di-n-butylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Di-n-octylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Dibenz(a,h)anthracene ^(*)	ug/l	SW-846 8270C	NS	0.1 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U
Dibenzofuran	ug/l	SW-846 8270C	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1	1	0.5 U	0.5 U
Diethylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Dimethylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Fluoranthene ^(*)	ug/l	SW-846 8270C	50	0.1 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U
Fluorene	ug/l	SW-846 8270C	50	0.2 J	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	1	2	0.4 J	0.8
Hexachlorobenzene	ug/l	SW-846 8270C	0.04	0.1 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U
Hexachlorobutadiene	ug/l	SW-846 8270C	0.5	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	0.5 U
Hexachlorocyclopentadiene	ug/l	SW-846 8270C	5	5 U	5 UJ	5 UJ	5 U	5 U	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ

TABLE 4 GROUNDWATER ANALYTICAL DATA SUMMARY TABLE BUILDING 36/58/83 AREA FORMER TEXACO RESEARCH CENTER, BEACON, NY ANIONS, TAL METALS, VOCs, AND SVOCs													
			Field Sample ID	SWMW-114(101712)	SWMW-1115(101112) ^(*)	SWMW-115(101112)	SWMW-116(101812)	SWMW-123(101812)	SWMW-124(101112)	SWMW-125(101112)	UNK-1(101112)	UNK-2(101112)	UNK-3(101112)
			Location	SWMW-114	SWMW-115	SWMW-115	SWMW-116	SWMW-123	SWMW-124	SWMW-125	Unknown Well #1	Unknown Well #2	Unknown Well #3
			Sample Date	10/17/2012	10/11/2012	10/11/2012	10/18/2012	10/18/2012	10/11/2012	10/11/2012	10/11/2012	10/11/2012	10/11/2012
			Sample Delivery Group	1343207	1341939	1341939	1343539	1343539	1341939	1341939	1341939	1341939	1341939
			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
Parameter Name	Units	Analytical Method	NY_TOGS ⁽¹⁾	1 U	0.9 U	1 U	1 U	0.9 U	1 U	1 U	0.9 U	1 U	1 U
Hexachloroethane	ug/l	SW-846 8270C	5										
Indeno(1,2,3-cd)pyrene	ug/l	SW-846 8270C	0.002										
Isophorone	ug/l	SW-846 8270C	50										
N-Nitrosodi-n-propylamine	ug/l	SW-846 8270C	NS										
N-Nitrosodiphenylamine (Diphenylamine)	ug/l	SW-846 8270C	50										
Naphthalene ^(*)	ug/l	SW-846 8270C	10										
Nitrobenzene	ug/l	SW-846 8270C	0.4										
p-Chloro-m-cresol	ug/l	SW-846 8270C	NS										
p-Cresol	ug/l	SW-846 8270C	NS										
Pentachlorophenol	ug/l	SW-846 8270C	1										
Phenanthrene ^(*)	ug/l	SW-846 8270C	50										
Phenol	ug/l	SW-846 8270C	1										
Pyrene ^(*)	ug/l	SW-846 8270C	50										
TOTAL PAHs	ug/l	SW-846 8270C	NS										
TOTAL SVOCs (including PAHs)	ug/l	SW-846 8270C	NS	31.9 J	0	0	0	8	0	512.4 J	43.4 J	5 J	4.2 J

TABLE 5
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
BUILDING 45/55 AREA
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, AND SVOCs

			Field Sample ID	ITMW-24(101812)	ITMW-25(101212)	SB35-1R(101112)	SWMW-9(101812)	SWMW-10(101212)	SWMW-24(101212)	SWMW-25(101212)	SWMW-27(101112)	SWMW-28(101112)	SWMW-44(101812)
			Location	ITMW-24	ITMW-25	SB35-1R	SWMW-9	SWMW-10	SWMW-24	SWMW-25	SWMW-27	SWMW-28	SWMW-44
			Sample Date	10/18/2012	10/12/2012	10/11/2012	10/18/2012	10/12/2012	10/12/2012	10/12/2012	10/11/2012	10/11/2012	10/18/2012
			Sample Delivery Group	1343539	1342157	1341939	1343539	1342157	1342157	1342157	1341939	1341939	1343539
			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
Parameter Name	Units	Analytical Method	NY_TOGS ⁽¹⁾										
Anions by EPA Method 300.0													
Chloride	mg/l	EPA 300.0	250	161	239	24.9	298	150	222	37.4	298	273	141
Sulfate	mg/l	EPA 300.0	250	36.3	19.7	23.4	74.6	3.5 J	295	120	8.6	5.6	43
Metals by EPA Method 6010B													
Aluminum	mg/l	SW-846 6010B	0.1	2.7	15	0.483	12.3	121	33.9	3.35	0.217	12.9	0.175 J
Antimony	mg/l	SW-846 6010B	0.003	0.0064 J	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0036 J	0.0035 U	0.0035 U	0.0035 U
Arsenic	mg/l	SW-846 6010B	0.025	0.0181 J	0.0085 J	0.0068 U	0.011 J	0.0609	0.125	0.0068 U	0.0068 U	0.0315	0.0075 J
Barium	mg/l	SW-846 6010B	1	0.0511	0.281	0.043	0.331	0.775	0.153	0.0731	0.477	0.353	0.0934
Beryllium	mg/l	SW-846 6010B	0.003	0.00067 U	0.00097 J	0.00067 U	0.0012 J	0.0101	0.0049 J	0.00067 U	0.00067 U	0.0014 J	0.00067 U
Cadmium	mg/l	SW-846 6010B	0.005	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.0094	0.005 U	0.005 U	0.00036 U	0.0014 J	0.00036 U
Calcium	mg/l	SW-846 6010B	NS	87.8	105	64.3	121	293	83.6	88.8	81	70.7	101
Chromium	mg/l	SW-846 6010B	0.05	0.0097 J	0.0099 J	0.0348	0.0202	0.168	0.0323	0.005 J	0.002 J	0.0894	0.0026 J
Cobalt	mg/l	SW-846 6010B	0.005	0.0026 J	0.0016 J	0.00066 U	0.0037 J	0.0628	0.0113	0.0024 J	0.00066 U	0.0068	0.00087 J
Copper	mg/l	SW-846 6010B	0.2	0.0186	0.006 J	0.0044 J	0.0134	0.77	0.0325	0.0064 J	0.0021 U	0.0389	0.0021 U
IRON	mg/l	SW-846 6010B	0.3	5.54	10.8	0.546	14.1	199	51.4	5	0.106 J	26	2.78
Lead	mg/l	SW-846 6010B	0.025	0.0493	0.0091 J	0.0051 U	0.014 J	1.49	0.0774	0.073	0.0051 U	0.0468	0.0097 J
Magnesium	mg/l	SW-846 6010B	35	13.2	21.1	11.4	18.1	108	25.7	15.9	26	27.9	15.2
Manganese	mg/l	SW-846 6010B	0.3	0.48	4.15	0.035	2.98	4.14	1.22	1.09	0.0039 J	2.05	1.53
Nickel	mg/l	SW-846 6010B	0.1	0.0054 J	0.0106	0.0011 U	0.0088 J	0.232	0.0973	0.003 J	0.0011 U	0.0133	0.0012 J
Potassium	mg/l	SW-846 6010B	NS	4.85	5.75	4.94	5.13	15	9	6.09	1.68	6.37	4.15
Selenium	mg/l	SW-846 6010B	0.01	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U
Silver	mg/l	SW-846 6010B	0.05	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
Sodium	mg/l	SW-846 6010B	20	89	122	14.7	156	129	224	68	28.9	113	107
Thallium	mg/l	SW-846 6010B	0.0005	0.0057 U	0.03 U	0.0057 U	0.0057 U	0.0057 U	0.03 U	0.03 U	0.0057 U	0.0057 U	0.03 U
Vanadium	mg/l	SW-846 6010B	NS	0.0182	0.0092	0.0031 J	0.0208	0.538	0.5	0.0067	0.0013 U	0.0216	0.0013 U
Zinc	mg/l	SW-846 6010B	2	0.0853	0.0179 J	0.0054 J	0.0366	1.66	0.179	0.0771	0.0023 J	0.374	0.0298
Mercury by EPA Method 7470A													
Mercury	mg/l	SW-846 7470A	0.0007	0.00026	0.00007 U	0.00007 U	0.00007 U	0.00022	0.00019 J	0.00018 J	0.00007 U	0.00015 J	0.00007 U
VOCs ⁽⁴⁾ by EPA Method 8260B													
1,1,1-Trichloroethane ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
1,1,2,2-Tetrachloroethane ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane ⁽²⁾	ug/l	SW-846 8260B	1	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
1,1-Dichloroethane ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	6	1 U	1 U
1,1-Dichloroethene (Dichloroethylene) ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	1 J	0.8 U	2 J
1,2-Dichloroethane ⁽²⁾	ug/l	SW-846 8260B	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 J	1 U	1 U
1,2-Dichloropropane ⁽²⁾	ug/l	SW-846 8260B	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (Methyl ethyl ketone)	ug/l	SW-846 8260B	50	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	4 J
2-Hexanone	ug/l	SW-846 8260B	50	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
4-Methyl-2-pentanone	ug/l	SW-846 8260B	NS	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Acetone	ug/l	SW-846 8260B	50	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Benzene	ug/l	SW-846 8260B	1	0.5 U	830	0.5 U	0.5 U	1 J	0.5 U	0.5 U	6	3 J	2 J
Bromodichloromethane ⁽²⁾	ug/l	SW-846 8260B	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/l	SW-846 8260B	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane (Methyl bromide) ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	ug/l	SW-846 8260B	60	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene ⁽²⁾	ug/l	SW-846 8260B	5	3 J	120	0.8 U	2 J	200	0.8 U	0.8 U	24	37	240
Chloroethane ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform ⁽²⁾	ug/l	SW-846 8260B	7	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	7	0.8 U	0.8 U
Chloromethane (Methyl chloride) ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	6	0.8 U	0.8 U	5	0.8 U	27
cis-1,3-Dichloropropene ⁽²⁾	ug/l	SW-846 8260B	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane ⁽²⁾	ug/l	SW-846 8260B	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Diisopropyl ether	ug/l	SW-846 8260B	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Ethyl-t-butylether	ug/l	SW-846 8260B	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Ethylbenzene	ug/l	SW-846 8260B	5	0.8 U	20	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 J
Methyl-t-butyl ether	ug/l	SW-846 8260B	10	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	0.5 U
Methylene chloride (Dichloromethane) ⁽²⁾	ug/l	SW-846 8260B	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Styrene	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tert-amyl methyl ether	ug/l	SW-846 8260B	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U

TABLE 5
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
BUILDING 45/55 AREA
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, AND SVOCs

			Field Sample ID	ITMW-24(101812)	ITMW-25(101212)	SB35-1R(101112)	SWMW-9(101812)	SWMW-10(101212)	SWMW-24(101212)	SWMW-25(101212)	SWMW-27(101112)	SWMW-28(101112)	SWMW-44(101812)
			Location	ITMW-24	ITMW-25	SB35-1R	SWMW-9	SWMW-10	SWMW-24	SWMW-25	SWMW-27	SWMW-28	SWMW-44
			Sample Date	10/18/2012	10/12/2012	10/11/2012	10/18/2012	10/12/2012	10/12/2012	10/12/2012	10/11/2012	10/11/2012	10/18/2012
			Sample Delivery Group	1343539	1342157	1341939	1343539	1342157	1342157	1342157	1341939	1341939	1343539
			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
Parameter Name	Units	Analytical Method	NY_TOGS ⁽¹⁾										
Tertiary Butyl Alcohol	ug/l	SW-846 8260B	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	10	0.8 U	0.8 U
Toluene	ug/l	SW-846 8260B	5	0.7 U	8	0.7 U	0.7 U	1 J	0.7 U	0.7 U	0.9 J	0.9 J	2 J
trans-1,2-Dichloroethene ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 J
trans-1,3-Dichloropropene ⁽²⁾	ug/l	SW-846 8260B	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene (Trichloroethylene) ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U	1 U	1 U	5	1 U	1 U	8	1 U	68
Vinyl chloride (Chloroethene) ⁽²⁾	ug/l	SW-846 8260B	2	1 U	1 U	1 U	1 U	1 J	1 U	1 U	2 J	1 U	13
Xylenes, Total	ug/l	SW-846 8260B	5	0.8 U	20	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	2 J	0.8 U
TOTAL CVOCS	ug/l	SW-846 8260B	NS	3 J	120	0	2 J	212 J	0	0	65 J	37	350.8 J
TOTAL VOCs (including CVOCS)	ug/l	SW-846 8260B	NS	3 J	998	0	2 J	214 J	0	0	71.9 J	42.9 J	359.6 J
SVOCs ⁽³⁾ by EPA Method 8270C													
1,2,4-Trichlorobenzene	ug/l	SW-846 8270C	5	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	0.5 U
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/l	SW-846 8270C	3	0.5 U	9	0.5 UJ	0.5 U	3	0.5 U	0.5 U	13 J	0.8 J	23
1,3-Dichlorobenzene	ug/l	SW-846 8270C	3	0.5 U	0.5 J	0.5 U	0.5 U	2	0.5 U	0.5 U	0.5 U	0.6 J	2
1,4-Dichlorobenzene	ug/l	SW-846 8270C	3	0.7 J	10	0.5 U	0.5 J	4	0.5 U	0.5 U	4	3	9
2,4,5-Trichlorophenol	ug/l	SW-846 8270C	NS	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	0.5 U
2,4,6-Trichlorophenol	ug/l	SW-846 8270C	NS	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	0.5 U
2,4-Dichlorophenol	ug/l	SW-846 8270C	5	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	0.5 U
2,4-Dimethylphenol	ug/l	SW-846 8270C	50	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	0.5 U
2,4-Dinitrophenol	ug/l	SW-846 8270C	10	9 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	9 UJ	10 U
2,4-Dinitrotoluene	ug/l	SW-846 8270C	5	0.9 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.9 U	1 U
2,6-Dinitrotoluene	ug/l	SW-846 8270C	5	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	0.5 U
2-Chloronaphthalene	ug/l	SW-846 8270C	10	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-Chlorophenol (o-Chlorophenol)	ug/l	SW-846 8270C	NS	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	0.5 U
2-Methyl-naphthalene	ug/l	SW-846 8270C	NS	0.09 U	0.1 U	0.1 U	0.1 U	4	0.1 U	0.4 J	0.1 U	4	0.1 U
2-Methylphenol (o-Cresol)	ug/l	SW-846 8270C	NS	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	0.5 U
2-Nitroaniline (o-Nitroaniline)	ug/l	SW-846 8270C	5	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	0.5 U
2-Nitrophenol (o-Nitrophenol)	ug/l	SW-846 8270C	NS	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	0.5 U
3,3'-Dichlorobenzidine	ug/l	SW-846 8270C	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
3-Nitroaniline	ug/l	SW-846 8270C	5	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	0.5 U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	ug/l	SW-846 8270C	NS	5 U	5 U	5 U	5 U	8 J	5 U	5 U	5 U	5 U	5 U
4-Bromophenylphenylether	ug/l	SW-846 8270C	NS	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	0.5 U
4-Chloroaniline	ug/l	SW-846 8270C	5	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	0.5 U
4-Chlorophenyl phenyl ether	ug/l	SW-846 8270C	NS	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	0.5 U
4-Nitroaniline	ug/l	SW-846 8270C	5	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	0.5 U
4-Nitrophenol	ug/l	SW-846 8270C	NS	9 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Acenaphthene ⁽³⁾	ug/l	SW-846 8270C	20	0.09 U	63	0.1 U	0.1 U	0.4 J	0.1 U	2	0.5 J	1	0.2 J
Acenaphthylene	ug/l	SW-846 8270C	NS	0.1 J	17	0.1 U	0.1 U	0.9	0.1 U	3	0.1 U	0.7	0.1 U
Anthracene ⁽³⁾	ug/l	SW-846 8270C	50	0.1 J	1	0.1 U	0.1 U	0.8	0.1 U	6	0.1 U	1	0.1 U
Benzo(a)anthracene ⁽³⁾	ug/l	SW-846 8270C	0.002	0.2 J	1	0.1 U	0.1 U	2	0.1 J	12	0.1 U	3	0.1 U
Benzo(a)Pyrene ⁽³⁾	ug/l	SW-846 8270C	NS	0.3 J	0.8	0.1 U	0.1 U	2	0.2 J	11	0.1 U	3	0.1 U
Benzo(b)Fluoranthene ⁽³⁾	ug/l	SW-846 8270C	0.002	0.5	0.5	0.1 U	0.1 U	3	0.2 J	14	0.1 UJ	3	0.1 U
Benzo(g,h,i)perylene ⁽³⁾	ug/l	SW-846 8270C	NS	0.3 J	0.4 J	0.1 U	0.1 U	2	0.2 J	7	0.1 U	2	0.1 U
Benzo(k)Fluoranthene ⁽³⁾	ug/l	SW-846 8270C	0.002	0.2 J	0.2 J	0.1 U	0.1 U	1	0.1 J	6	0.1 U	2	0.1 U
bis(2-Chloroethoxy)methane	ug/l	SW-846 8270C	5	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	0.5 U
bis(2-Chloroethyl) ether	ug/l	SW-846 8270C	1	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	0.5 U
Bis(2-chloroisopropyl) ether	ug/l	SW-846 8270C	5	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	0.5 U
bis(2-Ethylhexyl)phthalate	ug/l	SW-846 8270C	5	2 U	2 U	2 U	2 U	5	2 U	2 U	2 U	2 U	2 U
Butylbenzylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	3 J	2 U	2 U	2 U	2 U	2 U
Carbazole	ug/l	SW-846 8270C	NS	0.5 U	0.7 J	0.5 U	0.5 U	0.5 U	0.5 U	2	0.5 U	0.5 J	0.5 U
Chrysene ⁽³⁾	ug/l	SW-846 8270C	0.002	0.2 J	1	0.1 UJ	0.1 U	2	0.2 J	11	0.1 UJ	3 J	0.1 U
Di-n-butylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Di-n-octylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Dibenz(a,h)anthracene ⁽³⁾	ug/l	SW-846 8270C	NS	0.09 U	0.1 J	0.1 U	0.1 U	0.4 J	0.1 U	2	0.1 U	0.5	0.1 U
Dibenzofuran	ug/l	SW-846 8270C	NS	0.5 U	0.6 J	0.5 U	0.5 U	0.5 J	0.5 U	2	0.5 U	0.5 J	0.5 U
Diethylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Dimethylphthalate	ug/l	SW-846 8270C	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Fluoranthene ⁽³⁾	ug/l	SW-846 8270C	50	0.3 J	2	0.1 U	0.1 U	4	0.3 J	29	0.1 U	6	0.1 J
Fluorene	ug/l	SW-846 8270C	50	0.09 U	4	0.1 U	0.1 U	0.6	0.1 U	4	0.1 U	1	0.4 J
Hexachlorobenzene	ug/l	SW-846 8270C	0.04	0.09 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.09 U	0.1 U
Hexachlorobutadiene	ug/l	SW-846 8270C	0.5	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	0.5 U
Hexachlorocyclopentadiene	ug/l	SW-846 8270C	5	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 UJ	5 UJ	5 U

TABLE 5
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
BUILDING 45/55 AREA
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, AND SVOCs

			Field Sample ID	ITMW-24(101812)	ITMW-25(101212)	SB35-1R(101112)	SWMW-9(101812)	SWMW-10(101212)	SWMW-24(101212)	SWMW-25(101212)	SWMW-27(101112)	SWMW-28(101112)	SWMW-44(101812)
			Location	ITMW-24	ITMW-25	SB35-1R	SWMW-9	SWMW-10	SWMW-24	SWMW-25	SWMW-27	SWMW-28	SWMW-44
			Sample Date	10/18/2012	10/12/2012	10/11/2012	10/18/2012	10/12/2012	10/12/2012	10/12/2012	10/11/2012	10/11/2012	10/18/2012
			Sample Delivery Group	1343539	1342157	1341939	1343539	1342157	1342157	1342157	1341939	1341939	1343539
			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
Parameter Name	Units	Analytical Method	NY_TOGS ⁽¹⁾										
Hexachloroethane	ug/l	SW-846 8270C	5	0.9 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.9 U	1 U
Indeno(1,2,3-cd)pyrene	ug/l	SW-846 8270C	0.002	0.2 J	0.2 J	0.1 U	0.1 U	0.2 J	0.1 J	0.1 J	0.1 U	0.2 J	0.1 U
Isophorone	ug/l	SW-846 8270C	50	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	0.5 U
N-Nitrosodi-n-propylamine	ug/l	SW-846 8270C	NS	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	0.5 U
N-Nitrosodiphenylamine (Diphenylamine)	ug/l	SW-846 8270C	50	0.5 U	0.5 U	0.5 U	0.5 U	0.9 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene ⁽⁹⁾	ug/l	SW-846 8270C	10	0.09 U	13	0.1 U	0.1 U	0.1 U	0.1 U	0.4 J	1	1	0.5
Nitrobenzene	ug/l	SW-846 8270C	0.4	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	0.5 U
p-Chloro-m-cresol	ug/l	SW-846 8270C	NS	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	0.5 U
p-Cresol	ug/l	SW-846 8270C	NS	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	0.5 U
Pentachlorophenol	ug/l	SW-846 8270C	1	0.9 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.9 U	1 U
Phenanthrene ⁽⁹⁾	ug/l	SW-846 8270C	50	0.1 J	10	0.1 U	0.1 U	2	0.1 J	24	0.1 U	4	0.1 J
Phenol	ug/l	SW-846 8270C	1	0.5 U	2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Pyrene ⁽⁹⁾	ug/l	SW-846 8270C	50	0.4 J	5	0.1 U	0.1 U	3	0.3 J	22	0.1 U	6	0.1 J
TOTAL PAHs	ug/l	SW-846 8270C	NS	2.6 J	98 J	0	0	22.6 J	1.7 J	146.4 J	1.5 J	35.5 J	1 J
TOTAL SVOCs (including PAHs)	ug/l	SW-846 8270C	NS	3.6 J	142 J	0	0.5 J	56.5 J	1.8 J	164.8 J	18.5 J	48.6 J	35.4 J

TABLE 5
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
BUILDING 45/55 AREA
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, AND SVOCs

			Field Sample ID	SWMW-117(101712)	SWMW-118(101112)
			Location	SWMW-117	SWMW-118
			Sample Date	10/17/2012	10/11/2012
			Sample Delivery Group	1343207	1341939
			Matrix	WATER	WATER
			Sample Purpose	Regular sample	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample
Parameter Name	Units	Analytical Method	NY_TOGS ⁽¹⁾		
Anions by EPA Method 300.0					
Chloride	mg/l	EPA 300.0	250	63.2	509
Sulfate	mg/l	EPA 300.0	250	21.7	26.9
Metals by EPA Method 6010B					
Aluminum	mg/l	SW-846 6010B	0.1	0.162 J	0.317
Antimony	mg/l	SW-846 6010B	0.003	0.0035 U	0.0035 U
Arsenic	mg/l	SW-846 6010B	0.025	0.0068 U	0.0068 U
Barium	mg/l	SW-846 6010B	1	0.164	0.117
Beryllium	mg/l	SW-846 6010B	0.003	0.00067 U	0.00067 U
Cadmium	mg/l	SW-846 6010B	0.005	0.00036 U	0.00036 U
Calcium	mg/l	SW-846 6010B	NS	55.4	102
Chromium	mg/l	SW-846 6010B	0.05	0.0011 U	0.0021 J
Cobalt	mg/l	SW-846 6010B	0.005	0.00066 U	0.00066 U
Copper	mg/l	SW-846 6010B	0.2	0.0021 U	0.0021 U
IRON	mg/l	SW-846 6010B	0.3	0.248	0.469
Lead	mg/l	SW-846 6010B	0.025	0.0051 U	0.0051 U
Magnesium	mg/l	SW-846 6010B	35	11.8	38.2
Manganese	mg/l	SW-846 6010B	0.3	0.0085	0.0949
Nickel	mg/l	SW-846 6010B	0.1	0.0011 U	0.0011 U
Potassium	mg/l	SW-846 6010B	NS	0.899	2.88
Selenium	mg/l	SW-846 6010B	0.01	0.0075 U	0.0075 U
Silver	mg/l	SW-846 6010B	0.05	0.0012 U	0.0012 U
Sodium	mg/l	SW-846 6010B	20	46.4	99.4
Thallium	mg/l	SW-846 6010B	0.0005	0.0061 J	0.0057 U
Vanadium	mg/l	SW-846 6010B	NS	0.0013 U	0.0013 U
Zinc	mg/l	SW-846 6010B	2	0.0033 J	0.0137 J
Mercury by EPA Method 7470A					
Mercury	mg/l	SW-846 7470A	0.0007	0.00007 U	0.00007 U
VOCs ⁽⁴⁾ by EPA Method 8260B					
1,1,1-Trichloroethane ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U
1,1,2,2-Tetrachloroethane ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U
1,1,2-Trichloroethane ⁽²⁾	ug/l	SW-846 8260B	1	0.8 U	0.8 U
1,1-Dichloroethane ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U
1,1-Dichloroethene (Dichloroethylene) ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U
1,2-Dichloroethane ⁽²⁾	ug/l	SW-846 8260B	0.6	1 U	1 U
1,2-Dichloropropane ⁽²⁾	ug/l	SW-846 8260B	1	1 U	1 U
2-Butanone (Methyl ethyl ketone)	ug/l	SW-846 8260B	50	3 U	3 U
2-Hexanone	ug/l	SW-846 8260B	50	3 U	3 U
4-Methyl-2-pentanone	ug/l	SW-846 8260B	NS	3 U	3 U
Acetone	ug/l	SW-846 8260B	50	6 U	6 U
Benzene	ug/l	SW-846 8260B	1	0.5 U	0.5 U
Bromodichloromethane ⁽²⁾	ug/l	SW-846 8260B	50	1 U	1 U
Bromoform	ug/l	SW-846 8260B	50	1 U	1 U
Bromomethane (Methyl bromide) ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U
Carbon Disulfide	ug/l	SW-846 8260B	60	1 U	1 U
Carbon Tetrachloride ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U
Chlorobenzene ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U
Chloroethane ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U
Chloroform ⁽²⁾	ug/l	SW-846 8260B	7	0.8 U	0.8 U
Chloromethane (Methyl chloride) ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 U
cis-1,2-Dichloroethene ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U
cis-1,3-Dichloropropene ⁽²⁾	ug/l	SW-846 8260B	NS	1 U	1 U
Dibromochloromethane ⁽²⁾	ug/l	SW-846 8260B	50	1 U	1 U
Diisopropyl ether	ug/l	SW-846 8260B	NS	0.8 U	0.8 U
Ethyl-t-butylether	ug/l	SW-846 8260B	NS	0.8 U	0.8 U
Ethylbenzene	ug/l	SW-846 8260B	5	0.8 U	0.8 U
Methyl-t-butyl ether	ug/l	SW-846 8260B	10	0.5 J	0.5 U
Methylene chloride (Dichloromethane) ⁽²⁾	ug/l	SW-846 8260B	5	2 U	2 U
Styrene	ug/l	SW-846 8260B	5	1 U	1 U
Tert-amyl methyl ether	ug/l	SW-846 8260B	NS	0.8 U	0.8 U

TABLE 5
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
BUILDING 45/55 AREA
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, AND SVOCs

			Field Sample ID Location Sample Date Sample Delivery Group Matrix Sample Purpose Sample Type	SWMW-117(101712) SWMW-117 10/17/2012 1343207 WATER Regular sample Groundwater Sample	SWMW-118(101112) SWMW-118 10/11/2012 1341939 WATER Regular sample Groundwater Sample
Parameter Name	Units	Analytical Method	NY_TOGS ⁽¹⁾		
Tertiary Butyl Alcohol	ug/l	SW-846 8260B	NS	10 U	10 U
Tetrachloroethene ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U
Toluene	ug/l	SW-846 8260B	5	0.7 U	0.7 U
trans-1,2-Dichloroethene ⁽²⁾	ug/l	SW-846 8260B	5	0.8 U	0.8 U
trans-1,3-Dichloropropene ⁽²⁾	ug/l	SW-846 8260B	0.4	1 U	1 U
Trichloroethene (Trichloroethylene) ⁽²⁾	ug/l	SW-846 8260B	5	1 U	1 J
Vinyl chloride (Chloroethene) ⁽²⁾	ug/l	SW-846 8260B	2	1 U	1 U
Xylenes, Total	ug/l	SW-846 8260B	5	0.8 U	0.8 U
TOTAL CVOCs	ug/l	SW-846 8260B	NS	0	1 J
TOTAL VOCs (including CVOCs)	ug/l	SW-846 8260B	NS	0.5 J	1 J
SVOCs ⁽³⁾ by EPA Method 8270C					
1,2,4-Trichlorobenzene	ug/l	SW-846 8270C	5	0.5 U	0.5 U
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/l	SW-846 8270C	3	0.5 U	0.5 UJ
1,3-Dichlorobenzene	ug/l	SW-846 8270C	3	0.5 U	0.5 U
1,4-Dichlorobenzene	ug/l	SW-846 8270C	3	0.5 U	0.5 U
2,4,5-Trichlorophenol	ug/l	SW-846 8270C	NS	0.5 U	NS
2,4,6-Trichlorophenol	ug/l	SW-846 8270C	NS	0.5 U	0.5 U
2,4-Dichlorophenol	ug/l	SW-846 8270C	5	0.5 U	0.5 U
2,4-Dimethylphenol	ug/l	SW-846 8270C	50	0.5 U	0.5 U
2,4-Dinitrophenol	ug/l	SW-846 8270C	10	10 U	10 UJ
2,4-Dinitrotoluene	ug/l	SW-846 8270C	5	1 U	1 U
2,6-Dinitrotoluene	ug/l	SW-846 8270C	5	0.5 U	0.5 U
2-Chloronaphthalene	ug/l	SW-846 8270C	10	0.4 U	0.4 U
2-Chlorophenol (o-Chlorophenol)	ug/l	SW-846 8270C	NS	0.5 U	0.5 U
2-Methyl-naphthlalene	ug/l	SW-846 8270C	NS	0.1 U	0.1 U
2-Methylphenol (o-Cresol)	ug/l	SW-846 8270C	NS	0.5 U	0.5 U
2-Nitroaniline (o-Nitroaniline)	ug/l	SW-846 8270C	5	0.5 U	0.5 U
2-Nitrophenol (o-Nitrophenol)	ug/l	SW-846 8270C	NS	0.5 U	0.5 U
3,3'-Dichlorobenzidine	ug/l	SW-846 8270C	5	2 U	2 U
3-Nitroaniline	ug/l	SW-846 8270C	5	0.5 U	0.5 U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	ug/l	SW-846 8270C	NS	5 U	5 U
4-Bromophenylphenylether	ug/l	SW-846 8270C	NS	0.5 U	0.5 U
4-Chloroaniline	ug/l	SW-846 8270C	5	0.5 U	0.5 U
4-Chlorophenyl phenyl ether	ug/l	SW-846 8270C	NS	0.5 U	0.5 U
4-Nitroaniline	ug/l	SW-846 8270C	5	0.5 U	0.5 U
4-Nitrophenol	ug/l	SW-846 8270C	NS	10 U	10 U
Acenaphthene ⁽³⁾	ug/l	SW-846 8270C	20	0.1 U	0.1 U
Acenaphthylene	ug/l	SW-846 8270C	NS	0.1 U	0.1 U
Anthracene ⁽³⁾	ug/l	SW-846 8270C	50	0.1 U	0.1 U
Benzo(a)anthracene ⁽³⁾	ug/l	SW-846 8270C	0.002	0.1 U	0.1 U
Benzo(a)Pyrene ⁽³⁾	ug/l	SW-846 8270C	NS	0.1 U	0.1 U
Benzo(b)Fluoranthene ⁽³⁾	ug/l	SW-846 8270C	0.002	0.1 U	0.1 U
Benzo(g,h,i)perylene ⁽³⁾	ug/l	SW-846 8270C	NS	0.1 U	0.1 U
Benzo(k)Fluoranthene ⁽³⁾	ug/l	SW-846 8270C	0.002	0.1 U	0.1 U
bis(2-Chloroethoxy)methane	ug/l	SW-846 8270C	5	0.5 U	0.5 U
bis(2-Chloroethyl) ether	ug/l	SW-846 8270C	1	0.5 U	0.5 U
Bis(2-chloroisopropyl) ether	ug/l	SW-846 8270C	5	0.5 U	0.5 U
bis(2-Ethylhexyl)phthalate	ug/l	SW-846 8270C	5	2 U	2 U
Butylbenzylphthalate	ug/l	SW-846 8270C	50	2 U	2 U
Carbazole	ug/l	SW-846 8270C	NS	0.5 U	0.5 U
Chrysene ⁽³⁾	ug/l	SW-846 8270C	0.002	0.1 U	0.1 UJ
Di-n-butylphthalate	ug/l	SW-846 8270C	50	2 U	2 U
Di-n-octylphthalate	ug/l	SW-846 8270C	50	2 U	2 U
Dibenz(a,h)anthracene ⁽³⁾	ug/l	SW-846 8270C	NS	0.1 U	0.1 U
Dibenzofuran	ug/l	SW-846 8270C	NS	0.5 U	0.5 U
Diethylphthalate	ug/l	SW-846 8270C	50	2 U	2 U
Dimethylphthalate	ug/l	SW-846 8270C	50	2 U	2 U
Fluoranthene ⁽³⁾	ug/l	SW-846 8270C	50	0.1 U	0.1 U
Fluorene	ug/l	SW-846 8270C	50	0.1 U	0.1 U
Hexachlorobenzene	ug/l	SW-846 8270C	0.04	0.1 U	0.1 U
Hexachlorobutadiene	ug/l	SW-846 8270C	0.5	0.5 U	0.5 U
Hexachlorocyclopentadiene	ug/l	SW-846 8270C	5	5 U	5 UJ

TABLE 5
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
BUILDING 45/55 AREA
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, AND SVOCs

			Field Sample ID	SWMW-117(101712)	SWMW-118(101112)
			Location	SWMW-117	SWMW-118
			Sample Date	10/17/2012	10/11/2012
			Sample Delivery Group	1343207	1341939
			Matrix	WATER	WATER
			Sample Purpose	Regular sample	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample
Parameter Name	Units	Analytical Method	NY_TOGS ⁽¹⁾		
Hexachloroethane	ug/l	SW-846 8270C	5	1 U	1 U
Indeno(1,2,3-cd)pyrene	ug/l	SW-846 8270C	0.002	0.1 U	0.1 U
Isophorone	ug/l	SW-846 8270C	50	0.5 U	0.5 U
N-Nitrosodi-n-propylamine	ug/l	SW-846 8270C	NS	0.5 U	0.5 U
N-Nitrosodiphenylamine (Diphenylamine)	ug/l	SW-846 8270C	50	0.5 U	0.5 U
Naphthalene ⁽⁹⁾	ug/l	SW-846 8270C	10	0.1 U	0.1 U
Nitrobenzene	ug/l	SW-846 8270C	0.4	0.5 U	0.5 U
p-Chloro-m-cresol	ug/l	SW-846 8270C	NS	0.5 U	0.5 U
p-Cresol	ug/l	SW-846 8270C	NS	0.5 U	0.5 U
Pentachlorophenol	ug/l	SW-846 8270C	1	1 U	1 U
Phenanthrene ⁽⁹⁾	ug/l	SW-846 8270C	50	0.1 U	0.1 U
Phenol	ug/l	SW-846 8270C	1	0.5 U	0.5 U
Pyrene ⁽⁹⁾	ug/l	SW-846 8270C	50	0.1 U	0.1 U
TOTAL PAHs	ug/l	SW-846 8270C	NS	0	0
TOTAL SVOCs (including PAHs)	ug/l	SW-846 8270C	NS	0	0

TABLE 6
CONCRETE FOUNDATION GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, and SVOCs

				Field Sample ID	PCFGW-1(10-10-12)	PCFGW-2(10-10-12)	PCFGW-10(10-10-12)	PCFGW-11(10-10-12)	PCFGW-12(10-10-12)	PCFGW-13(10-10-12)	PCFGW-14(10-5-12)	PCFGW-15(10-5-12)	PCFGW-16(9-13-12)	PCFGW-21(9-13-12)	PCFGW-36(10-19-12)
				Location	PCFGW-001	PCFGW-002	PCFGW-010	PCFGW-011	PCFGW-012	PCFGW-013	PCFGW-014	PCFGW-015	PCFGW-016	PCFGW-021	PCFGW-036
				Sample Date	10/10/2012	10/10/2012	10/10/2012	10/10/2012	10/10/2012	10/10/2012	10/5/2012	10/5/2012	9/13/2012	9/13/2012	10/19/2012
				SDG	1341936	1341936	1341936	1341936	1341936	1341936	1340582	1340582	1336016	1336016	1343738
				Matrix	WATER	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	Regular sample
				Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Parameter Name	Method	Units	NY TOGS ⁽¹⁾												
Sulfate/Chloride by EPA Method 300.0															
Chloride	EPA 300.0	mg/l	250		141	483	182	206	183	200	35.3	118	76.8	96.6	31.2
Sulfate	EPA 300.0	mg/l	250		65.6	51	685	37	4.7 J	90.9	66.3	48.3	123	154	481
Metals by EPA Method 6010B															
Aluminum	SW-846 6010B	mg/l	0.1		603	7.43	26.8	384	823	464	32.8	266	1020	1000	21.3
Antimony	SW-846 6010B	mg/l	0.003		0.0175 U	0.0035 U	0.0072 J	0.0175 U	0.0175 U	0.0229 J	0.0035 U	0.0175 U	0.035 U	0.0499 J	0.0035 U
Arsenic	SW-846 6010B	mg/l	0.025		0.262	0.0068 U	0.0265	0.14	0.398	0.251	0.0207	0.269	0.704	0.475	0.0176 J
Barium	SW-846 6010B	mg/l	1		1.98	0.212	0.28	1.74	4.39	2.49	0.426	3.25	4.71	4.1 J	0.47
Beryllium	SW-846 6010B	mg/l	0.003		0.0687	0.00067 U	0.003 J	0.0645	0.112	0.0996	0.0036 J	0.0581	0.215	0.15	0.0016 J
Cadmium	SW-846 6010B	mg/l	0.005		0.0093 J	0.00036 U	0.0008 J	0.0031 J	0.0068 J	0.0034 J	0.0034 J	0.0036 U	0.0036 U	0.0025 J	0.0025 J
Calcium	SW-846 6010B	mg/l	NS		168	44.6	202	194	174	319	56.9	181	499	753 J	182
Chromium	SW-846 6010B	mg/l	0.05		0.678	0.0125 J	0.0369	0.446	0.799	2.91	0.0442	1.26	0.821	3.74 J	0.125
Cobalt	SW-846 6010B	mg/l	0.005		0.313	0.0045 J	0.0271	0.201	0.537	0.359	0.0204	0.18	0.74	0.62 J	0.0102
Copper	SW-846 6010B	mg/l	0.2		0.647	0.015 U	0.087	0.394	1.11	0.868	0.0762	0.502	1.47	1.9	0.141
IRON	SW-846 6010B	mg/l	0.3		1290	12.5	39.7	843	1070	1270	49.2	585	2470	3050	18.9
Lead	SW-846 6010B	mg/l	0.025		0.725	0.0244	0.0755	0.339	2.87	0.837	0.214	0.194	2.04	2.98 J	0.14
Magnesium	SW-846 6010B	mg/l	35		211	13.2	27.2	172	207	207	17.4	109	383	501 J	9.46
Manganese	SW-846 6010B	mg/l	0.3		18	0.919	4.56	13.5	16.5	18.7	1.43	20.4	39.5	44.3 J	0.525
Nickel	SW-846 6010B	mg/l	0.1		0.322	0.0035 J	0.0847	0.0994	0.632	0.748	0.0232	0.256	0.545	0.401	0.0231
Potassium	SW-846 6010B	mg/l	NS		33.3	21.8	11.7	38.1	44.3	40.3	8.01	39.3	71.7	90	43
Selenium	SW-846 6010B	mg/l	0.01		0.0375 U	0.0075 U	0.0075 U	0.0375 U	0.0375 U	0.0375 U	0.0075 U	0.0375 U	0.075 U	0.075 U	0.0075 U
Silver	SW-846 6010B	mg/l	0.05		0.012 U	0.0012 U	0.0041 J	0.012 U	0.006 U	0.012 U	0.0012 U	0.006 U	0.012 U	0.0202 J	0.0012 U
Sodium	SW-846 6010B	mg/l	20		150	368	218	147	103	181	79.5	129	78.3	108 J	89.7
Thallium	SW-846 6010B	mg/l	0.0005		0.0285 U	0.0057 U	0.0075 J	0.0285 U	0.0285 U	0.0285 U	0.0063 J	0.0285 U	0.115 J	0.117 J	0.0057 U
Vanadium	SW-846 6010B	mg/l	NS		0.974	0.0112	0.588	1.21	0.703	0.0512	0.384	1.17	1.73 J	0.0494	0.0494
Zinc	SW-846 6010B	mg/l	2		2.46	0.0269 U	0.166	1.74	2.65	2.08	0.325	1.48	4.52	5.7 J	0.432
Mercury by EPA Method 7470A															
Mercury	SW-846 7470A	mg/l	0.0007		0.0038	0.00007 U	0.00032	0.00091 J	0.0046	0.0101	0.0015	0.0012 J	0.0169	0.0321	0.00096
VOCs ⁽⁴⁾ by EPA Method 8260B															
1,1,1-Trichloroethane ⁽²⁾	SW-846 8260B	ug/l	5		0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
1,1,2,2-Tetrachloroethane ⁽²⁾	SW-846 8260B	ug/l	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane ⁽²⁾	SW-846 8260B	ug/l	1		0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
1,1-Dichloroethane ⁽²⁾	SW-846 8260B	ug/l	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene (Dichloroethylene) ⁽²⁾	SW-846 8260B	ug/l	5		0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
1,2-Dichloroethane ⁽²⁾	SW-846 8260B	ug/l	0.6		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane ⁽²⁾	SW-846 8260B	ug/l	1		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (Methyl ethyl ketone)	SW-846 8260B	ug/l	50		3 U	6 J	3 U	14	3 U	3 U	3 U	3 J	3 U	11	3 U
2-Hexanone	SW-846 8260B	ug/l	50		3 U	3 UJ	3 UJ	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
4-Methyl-2-pentanone	SW-846 8260B	ug/l	NS		3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Acetone	SW-846 8260B	ug/l	50		6 U	33	6 U	5800	16 J	9 J	6 U	46	15 J	43	11 J
Benzene	SW-846 8260B	ug/l	1		0.5 U	1 J	0.5 U	2 J	4 J	0.8 J	0.5 U	2 J	0.5 U	3 J	0.5 U
Bromodichloromethane ⁽²⁾	SW-846 8260B	ug/l	50		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	SW-846 8260B	ug/l	50		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane (Methyl bromide)	SW-846 8260B	ug/l	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	SW-846 8260B	ug/l	60		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride ⁽²⁾	SW-846 8260B	ug/l	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene ⁽²⁾	SW-846 8260B	ug/l	5		0.8 U	290	0.8 U	390	1300	140	0.8 U	0.8 U	4 J	1 J	0.8 U
Chloroethane ⁽²⁾	SW-846 8260B	ug/l	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	SW-846 8260B	ug/l	7		0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Chloromethane (Methyl chloride) ⁽²⁾	SW-846 8260B	ug/l	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 J	1 U
cis-1,2-Dichloroethene ⁽²⁾	SW-846 8260B	ug/l	5		2 J	0.8 U	0.8 U	0.8 U	2 J	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
cis-1,3-Dichloropropene ⁽²⁾	SW-846 8260B	ug/l	NS		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane ⁽²⁾	SW-846 8260B	ug/l	50		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Diisopropyl ether	SW-846 8260B	ug/l	NS		0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Ethyl-t-butylether	SW-846 8260B	ug/l	NS		0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Ethylbenzene	SW-846 8260B	ug/l	5		0.8 U	0.8 U	0.8 U	19	51	1 J	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Methyl-t-butyl ether	SW-846 8260B	ug/l	10		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	0.5 U	0.5 U
Methylene chloride (Dichloromethane) ⁽²⁾	SW-846 8260B	ug/l	5		2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U

TABLE 6
CONCRETE FOUNDATION GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, and SVOCs

			Field Sample ID	PCFGW-1(10-10-12)	PCFGW-2(10-10-12)	PCFGW-10(10-10-12)	PCFGW-11(10-10-12)	PCFGW-12(10-10-12)	PCFGW-13(10-10-12)	PCFGW-14(10-5-12)	PCFGW-15(10-5-12)	PCFGW-16(9-13-12)	PCFGW-21(9-13-12)	PCFGW-36(10-19-12)
			Location	PCFGW-001	PCFGW-002	PCFGW-010	PCFGW-011	PCFGW-012	PCFGW-013	PCFGW-014	PCFGW-015	PCFGW-016	PCFGW-021	PCFGW-036
			Sample Date	10/10/2012	10/10/2012	10/10/2012	10/10/2012	10/10/2012	10/10/2012	10/5/2012	10/5/2012	9/13/2012	9/13/2012	10/19/2012
			SDG	1341936	1341936	1341936	1341936	1341936	1341936	1340582	1340582	1336016	1336016	1343738
			Matrix	WATER	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	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Parameter Name	Method	Units	NY TOGS ⁽¹⁾											
Styrene	SW-846 8260B	ug/l	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tert-amyl methyl ether	SW-846 8260B	ug/l	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Tertiary Butyl Alcohol	SW-846 8260B	ug/l	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene ⁽²⁾	SW-846 8260B	ug/l	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Toluene	SW-846 8260B	ug/l	5	0.7 U	0.7 U	0.7 U	3 J	7	0.7 U	0.7 U	1 J	0.7 U	3 J	0.7 U
trans-1,2-Dichloroethene ⁽²⁾	SW-846 8260B	ug/l	5	0.8 U	0.8 U	0.8 U	0.8 U	0.9 J	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
trans-1,3-Dichloropropene ⁽²⁾	SW-846 8260B	ug/l	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene (Trichloroethylene) ⁽²⁾	SW-846 8260B	ug/l	5	21	1 U	1 U	1 U	1 U	1 U	1 U	1 U	8	4 J	1 U
Vinyl chloride (Chloroethene) ⁽²⁾	SW-846 8260B	ug/l	2	1 U	1 U	1 U	1 U	2 J	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	SW-846 8260B	ug/l	5	0.8 U	0.8 U	0.8 U	10	35	0.8 U	0.8 U	0.8 U	0.8 U	0.9 J	0.8 U
Total CVOCs	SW-846 8260B	ug/l	NS	23 J	290	0	390	1304.9 J	140	0	0	12 J	7 J	0
Total VOCs (including CVOCs)	SW-846 8260B	ug/l	NS	23 J	330 J	0	6238 J	1417.9 J	150.8 J	0	52 J	27 J	67.9 J	11 J
SVOCs ⁽⁵⁾ by EPA Method 8270C														
1,2,4-Trichlorobenzene	SW-846 8270C	ug/l	5	5 U	0.5 U	0.5 U	0.5 U	50 U	0.5 U	5 U	5 U	5 U	5 U	0.5 U
1,2-Dichlorobenzene (o-Dichlorobenzene)	SW-846 8270C	ug/l	3	5 U	1	0.5 U	1	61 J	0.9 J	5 U	5 U	5 U	5 U	0.5 U
1,3-Dichlorobenzene	SW-846 8270C	ug/l	3	5 U	5	0.5 U	3	91 J	3	5 U	5 U	5 U	5 U	0.5 U
1,4-Dichlorobenzene	SW-846 8270C	ug/l	3	5 U	5	0.5 U	3	160	3	5 U	5 U	5 U	5 U	0.5 U
2,4,5-Trichlorophenol	SW-846 8270C	ug/l	NS	5 U	0.5 U	0.5 U	0.5 U	50 U	0.5 U	5 U	5 U	5 U	5 U	0.5 U
2,4,6-Trichlorophenol	SW-846 8270C	ug/l	NS	5 U	0.5 U	0.5 U	0.5 U	50 U	0.5 U	5 U	5 U	5 U	5 U	0.5 U
2,4-Dichlorophenol	SW-846 8270C	ug/l	5	5 U	0.5 U	0.5 U	0.5 U	50 U	0.5 U	5 U	5 U	5 U	5 U	0.5 U
2,4-Dimethylphenol	SW-846 8270C	ug/l	50	5 U	0.5 U	0.5 U	0.5 U	50 U	0.5 U	5 U	5 U	5 U	5 U	0.5 U
2,4-Dinitrophenol	SW-846 8270C	ug/l	10	100 U	10 U	10 U	10 U	1000 U	11 U	100 U	100 U	100 U	100 U	10 U
2,4-Dinitrotoluene	SW-846 8270C	ug/l	5	10 U	1 U	1 U	1 U	100 U	1 U	10 U	10 U	10 U	10 U	1 U
2,6-Dinitrotoluene	SW-846 8270C	ug/l	5	5 U	0.5 U	0.5 U	0.5 U	50 U	0.5 U	5 U	5 U	5 U	5 U	0.5 U
2-Chloronaphthalene	SW-846 8270C	ug/l	10	4 U	0.4 U	0.4 U	0.4 U	40 U	0.4 U	4 U	4 U	4 U	4 U	0.4 U
2-Chlorophenol (o-Chlorophenol)	SW-846 8270C	ug/l	NS	5 U	4	0.5 U	2	50 U	0.5 U	5 U	5 U	5 U	5 U	0.5 U
2-Methyl-naphthalene	SW-846 8270C	ug/l	NS	1 U	1	0.2 J	66	8400	1	1 U	1 U	1 U	1 U	0.2 J
2-Methylphenol (o-Cresol)	SW-846 8270C	ug/l	NS	5 U	0.5 U	0.5 U	0.5 U	50 U	0.5 U	5 U	5 U	5 U	5 U	0.5 U
2-Nitroaniline (o-Nitroaniline)	SW-846 8270C	ug/l	5	5 U	0.5 U	0.5 U	0.5 U	50 U	0.5 U	5 U	5 U	5 U	5 U	0.5 U
2-Nitrophenol (o-Nitrophenol)	SW-846 8270C	ug/l	NS	5 U	0.5 U	0.5 U	0.5 U	50 U	0.5 U	5 U	5 U	5 U	5 U	0.5 U
3,3'-Dichlorobenzidine	SW-846 8270C	ug/l	5	20 U	2 U	2 U	2 U	200 U	2 U	20 U	20 U	20 U	20 U	2 U
3-Nitroaniline	SW-846 8270C	ug/l	5	5 U	0.5 U	0.5 U	0.5 U	50 U	0.5 U	5 U	5 U	5 U	5 U	0.5 U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	SW-846 8270C	ug/l	NS	50 U	5 U	5 U	5 U	500 U	5 U	50 U	50 U	50 U	50 U	5 U
4-Bromophenylphenylether	SW-846 8270C	ug/l	NS	5 U	0.5 U	0.5 U	0.5 U	50 U	0.5 U	5 U	5 U	5 U	5 U	0.5 U
4-Chloroaniline	SW-846 8270C	ug/l	5	5 U	0.5 U	0.5 U	0.5 U	50 U	0.5 U	5 U	5 U	5 U	5 U	0.5 U
4-Chlorophenyl phenyl ether	SW-846 8270C	ug/l	NS	5 U	0.5 U	0.5 U	0.5 U	50 U	0.5 U	5 U	5 U	5 U	5 U	0.5 U
4-Nitroaniline	SW-846 8270C	ug/l	5	5 U	0.5 U	0.5 U	0.5 U	50 U	0.5 U	5 U	5 U	5 U	5 U	0.5 U
4-Nitrophenol	SW-846 8270C	ug/l	NS	100 U	10 U	10 U	10 U	1000 U	11 U	100 U	100 U	100 U	100 U	10 U
Acenaphthene ⁽³⁾	SW-846 8270C	ug/l	20	1 U	0.3 J	0.1 U	0.3 J	53	1	1 U	1 U	1 U	1 U	2
Acenaphthylene	SW-846 8270C	ug/l	NS	1 U	0.4 J	0.1 U	0.2 J	100	2	1 U	9	1 U	1 U	0.1 J
Anthracene ⁽³⁾	SW-846 8270C	ug/l	50	1 U	0.2 J	0.1 U	0.1 U	32 J	1	1 U	1 U	1 U	1 U	2
Benzo(a)anthracene ⁽³⁾	SW-846 8270C	ug/l	0.002	1 U	0.1 U	0.1 U	0.1 U	19 J	1	1 U	1 U	1 U	1 U	4
Benzo(a)Pyrene ⁽³⁾	SW-846 8270C	ug/l	NS	1 U	0.1 U	0.1 U	0.1 U	15 J	0.8	1 U	1 U	1 U	1 U	4
Benzo(b)Fluoranthene ⁽³⁾	SW-846 8270C	ug/l	0.002	1 U	0.1 U	0.1 U	0.1 U	20 J	1	1 U	1 U	1 U	1 U	5
Benzo(g,h,i)perylene ⁽³⁾	SW-846 8270C	ug/l	NS	1 U	0.1 U	0.1 U	0.1 U	25 J	0.8	1 U	1 U	4 J	1 U	2
Benzo(k)Fluoranthene ⁽³⁾	SW-846 8270C	ug/l	0.002	1 U	0.1 U	0.1 U	0.1 U	10 J	0.4 J	1 U	1 U	1 U	1 U	2
bis(2-Chloroethoxy)methane	SW-846 8270C	ug/l	5	5 U	0.5 U	0.5 U	0.5 U	50 U	0.5 U	5 U	5 U	5 U	5 U	0.5 U
bis(2-Chloroethyl) ether	SW-846 8270C	ug/l	1	5 U	0.5 U	0.5 U	0.5 U	50 U	0.5 U	5 U	5 U	5 U	5 U	0.5 U
Bis(2-chloroisopropyl) ether	SW-846 8270C	ug/l	5	5 U	0.5 U	0.5 U	0.5 U	50 U	0.5 U	5 U	5 U	5 U	5 U	0.5 U
bis(2-Ethylhexyl)phthalate	SW-846 8270C	ug/l	5	88	9	2 U	3 J	730	100	99	120	270	87 J	19
Butylbenzylphthalate	SW-846 8270C	ug/l	50	20 U	2 U	2 U	2 U	200 U	2 U	20 U	20 U	20 U	20 U	12
Carbazole	SW-846 8270C	ug/l	NS	5 U	0.5 U	0.5 U	0.5 U	50 U	0.5 U	5 U	5 U	5 U	5 U	2
Chrysene ⁽³⁾	SW-846 8270C	ug/l	0.002	1 U	0.1 U	0.1 U	0.1 U	19 J	1	1 U	1 J	1 U	1 U	4
Di-n-butylphthalate	SW-846 8270C	ug/l	50	20 U	2 U	2 U	2 U	200 U	2 U	20 U	20 U	20 U	20 U	2 J
Di-n-octylphthalate	SW-846 8270C	ug/l	50	20 U	2 U	2 U	2 U	200 U	2 U	20 U	20 U	20 U	20 U	2 U
Dibenz(a,h)anthracene ⁽³⁾	SW-846 8270C	ug/l	NS	1 U	0.1 U	0.1 U	0.1 U	10 U	0.2 J	1 U	1 U	1 U	1 U	0.7
Dibenzofuran	SW-846 8270C	ug/l	NS	5 U	0.6 J	0.5 U	0.8 J	180	2	5 U	5 U	5 U	5 U	0.6 J
Diethylphthalate	SW-846 8270C	ug/l	50	20 U	2 U	2 U	2 U	200 U	2 U	20 U	20 U	20 U	20 U	2 U

TABLE 6
CONCRETE FOUNDATION GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, and SVOCs

			Field Sample ID	PCFGW-1(10-10-12)	PCFGW-2(10-10-12)	PCFGW-10(10-10-12)	PCFGW-11(10-10-12)	PCFGW-12(10-10-12)	PCFGW-13(10-10-12)	PCFGW-14(10-5-12)	PCFGW-15(10-5-12)	PCFGW-16(9-13-12)	PCFGW-21(9-13-12)	PCFGW-36(10-19-12)
			Location	PCFGW-001	PCFGW-002	PCFGW-010	PCFGW-011	PCFGW-012	PCFGW-013	PCFGW-014	PCFGW-015	PCFGW-016	PCFGW-021	PCFGW-036
			Sample Date	10/10/2012	10/10/2012	10/10/2012	10/10/2012	10/10/2012	10/10/2012	10/5/2012	10/5/2012	9/13/2012	9/13/2012	10/19/2012
			SDG	1341936	1341936	1341936	1341936	1341936	1341936	1340582	1340582	1336016	1336016	1343738
			Matrix	WATER	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	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Parameter Name	Method	Units	NY TOGS ⁽¹⁾											
Dimethylphthalate	SW-846 8270C	ug/l	50	20 U	2 U	2 U	2 U	200 U	2 U	20 U	20 U	20 U	20 U	2 U
Fluoranthene ⁽³⁾	SW-846 8270C	ug/l	50	1 U	0.2 J	0.1 U	0.1 U	53	3	1 J	1 U	4 J	1 U	10
Fluorene	SW-846 8270C	ug/l	50	1 U	0.8	0.1 U	0.8	210	2	1 U	4 J	1 U	1 U	0.9
Hexachlorobenzene	SW-846 8270C	ug/l	0.04	1 U	0.1 U	0.1 U	0.1 U	10 U	0.1 U	1 U	1 U	1 U	1 U	0.1 U
Hexachlorobutadiene	SW-846 8270C	ug/l	0.5	5 U	0.5 U	0.5 U	0.5 U	50 U	0.5 U	5 U	5 U	5 U	5 U	0.5 U
Hexachlorocyclopentadiene	SW-846 8270C	ug/l	5	50 U	5 U	5 U	5 U	500 U	5 U	50 U	50 U	50 U	50 U	5 U
Hexachloroethane	SW-846 8270C	ug/l	5	10 U	1 U	1 U	1 U	100 U	1 U	10 U	10 U	10 U	10 U	1 U
Indeno(1,2,3-cd)pyrene	SW-846 8270C	ug/l	0.002	1 U	0.1 U	0.1 U	0.1 U	11 J	0.5 J	1 U	1 U	1 U	1 U	2
Isophorone	SW-846 8270C	ug/l	50	5 U	0.5 U	0.5 U	0.5 U	50 U	0.5 U	5 U	5 U	5 U	5 U	0.5 U
N-Nitrosodi-n-propylamine	SW-846 8270C	ug/l	NS	5 U	0.5 U	0.5 U	0.5 U	50 U	0.5 U	5 U	5 U	5 U	5 U	0.5 U
N-Nitrosodiphenylamine (Diphenylamine)	SW-846 8270C	ug/l	50	5 U	0.5 U	0.5 U	0.5 U	50 U	0.5 U	5 U	5 U	5 U	5 U	0.5 U
Naphthalene ⁽³⁾	SW-846 8270C	ug/l	10	1 U	4	0.3 J	15	1500	1	1 U	1 U	1 U	1 U	0.4 J
Nitrobenzene	SW-846 8270C	ug/l	0.4	5 U	0.5 U	0.5 U	0.5 U	50 U	0.5 U	5 U	5 U	5 U	5 U	0.5 U
p-Chloro-m-cresol	SW-846 8270C	ug/l	NS	5 U	0.5 U	0.5 U	0.5 U	50 U	0.5 U	5 U	5 U	5 U	5 U	0.5 U
p-Cresol	SW-846 8270C	ug/l	NS	5 U	0.5 U	0.5 U	0.5 U	97 J	0.5 U	5 U	5 U	5 U	5 U	0.5 U
Pentachlorophenol	SW-846 8270C	ug/l	1	10 U	1 U	1 U	1 U	100 U	1 U	10 U	10 U	10 U	10 U	2 J
Phenanthrene ⁽³⁾	SW-846 8270C	ug/l	50	1 U	0.5	0.1 U	0.8	340	2	1 U	1 U	1 U	1 U	6
Phenol	SW-846 8270C	ug/l	1	5 U	0.5 U	0.5 U	0.5 U	50 U	0.5 U	5 U	5 U	5 U	5 U	0.5 U
Pyrene ⁽³⁾	SW-846 8270C	ug/l	50	1 U	0.2 J	0.1 U	0.1 U	49 J	3	1 J	3 J	5	1 U	8
Total PAHs	SW-846 8270C	ug/l	NS	0	5.4 J	0.3 J	16.1 J	2135 J	16.2 J	2 J	4 J	13 J	0	50.1 J
Total SVOCs (including PAHs)	SW-846 8270C	ug/l	NS	88	32.2 J	0.5 J	95.9 J	12175 J	130.6 J	101 J	137 J	283 J	87 J	90.9 J

TABLE 6
CONCRETE FOUNDATION GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, and SVOCs

			Field Sample ID	PCFGW-53(10-5-12)	PCFGW-54(10-4-12)	PCFGW-55(10-3-12)	PCFGW-56(10-2-12)	PCFGW-57(10-1-12)	PCFGW-72(10-5-12)	PCFGW-74(10-3-12)	PCFGW-75(10-5-12)	PCFGW-85(10-5-12)	PCFGW-89(10-1-12)	PCFGW-89(9-27-12)
			Location	PCFGW-053	PCFGW-054	PCFGW-055	PCFGW-056	PCFGW-057	PCFGW-072	PCFGW-074	PCFGW-075	PCFGW-085	PCFGW-089	PCFGW-089
			Sample Date	10/5/2012	10/4/2012	10/3/2012	10/2/2012	10/1/2012	10/5/2012	10/3/2012	10/5/2012	10/5/2012	10/1/2012	9/27/2012
			SDG	1340582	1340582	1340582	1340582	1340582	1340582	1340582	1340582	1340582	1340582	1338916
			Matrix	WATER	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	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Parameter Name	Method	Units	NY TOGS ⁽¹⁾											
Sulfate/Chloride by EPA Method 300.0														
Chloride	EPA 300.0	mg/l	250	64.8	27.7	29.1 J	166	56	57.9	22.5	96	33.9	NA	100
Sulfate	EPA 300.0	mg/l	250	104	53.3	109	69	147	39.9	70.4	93	75.1	NA	79.5
Metals by EPA Method 6010B														
Aluminum	SW-846 6010B	mg/l	0.1	85.5	127	16.4	134	659	25.2	148	10.4	335	246	NA
Antimony	SW-846 6010B	mg/l	0.003	0.0035 U	0.0035 U	0.0035 U	0.0052 J	0.015 J	0.0035 U	0.005 J	0.0035 U	0.0035 U	0.0035 U	NA
Arsenic	SW-846 6010B	mg/l	0.025	0.0499	0.0687	0.0095 J	0.0634	0.39	0.014 J	0.0572	0.0071 J	0.146	0.147	NA
Barium	SW-846 6010B	mg/l	1	1.78	0.927	0.233	0.767	4.79	0.16	0.901	0.19	2.76	1.77	NA
Beryllium	SW-846 6010B	mg/l	0.003	0.0126	0.0086	0.0014 J	0.0072	0.0517	0.0021 J	0.0091	0.0011 J	0.0215	0.0199	NA
Cadmium	SW-846 6010B	mg/l	0.005	0.0048 J	0.0015 J	0.00036 U	0.0015 J	0.0178 J	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	NA
Calcium	SW-846 6010B	mg/l	NS	972	605	99.6	246	487	62.4	189	129	596	395	NA
Chromium	SW-846 6010B	mg/l	0.05	0.154	0.229	0.0213	0.251	0.89	0.0415	0.299	0.0375	0.479	0.297	NA
Cobalt	SW-846 6010B	mg/l	0.005	0.16	0.124	0.01	0.126	0.441	0.0267	0.156	0.0117	0.366	0.227	NA
Copper	SW-846 6010B	mg/l	0.2	0.295	0.325	0.0301	0.32	1.93	0.0512	0.324	0.0324	0.746	0.758	NA
IRON	SW-846 6010B	mg/l	0.3	127	249	25.1	268	1220	46.7	270	19.7	723	468	NA
Lead	SW-846 6010B	mg/l	0.025	0.794	0.297	0.0749 J	0.243	4.9	0.0687	0.252	0.05	0.531	1.17	NA
Magnesium	SW-846 6010B	mg/l	35	450	313	20.2	132	295	20.6	84.1	43.2	249	215	NA
Manganese	SW-846 6010B	mg/l	0.3	21.1	12	1.36 J	10.6	39.3	2.07	11.3	1.41	33.9	20	NA
Nickel	SW-846 6010B	mg/l	0.1	0.171	0.233	0.0199	0.23	0.721	0.0388	0.254	0.0177	0.575	0.39	NA
Potassium	SW-846 6010B	mg/l	NS	15.8	18.2	8.76	17.7	41	5.98	19.1	9.84	27.4	31.3	NA
Selenium	SW-846 6010B	mg/l	0.01	0.0107 J	0.0075 U	0.0164 J	0.0112 J	0.0433	0.0075 U	0.0075 U	0.0075 U	0.014 J	0.0075 U	NA
Silver	SW-846 6010B	mg/l	0.05	0.0012 U	0.002 J	0.0012 U	0.0048 J	0.0079 J	0.0012 U	0.0067	0.0012 U	0.0376	0.0158	NA
Sodium	SW-846 6010B	mg/l	20	128	44.5	40.7	110	136	91.2	37.8	84.3	50.1	59	NA
Thallium	SW-846 6010B	mg/l	0.0005	0.0262 J	0.0252 J	0.0057 U	0.0254 J	0.0901	0.008 J	0.025 J	0.0064 J	0.0591	0.0407	NA
Vanadium	SW-846 6010B	mg/l	NS	0.147	0.168	0.021	0.171	0.81	0.0317	0.175	0.0167	0.397	0.334	NA
Zinc	SW-846 6010B	mg/l	2	1.08	0.684	0.0846	0.71	4.37	0.131	0.736	0.0835	1.69	1.4	NA
Mercury by EPA Method 7470A														
Mercury	SW-846 7470A	mg/l	0.0007	0.0084	0.0021	0.00031 J	0.00091 J	0.0896	0.000094 J	0.00038	0.000072 J	0.0027	0.0135	NA
VOCs ⁽⁴⁾ by EPA Method 8260B														
1,1,1-Trichloroethane ⁽²⁾	SW-846 8260B	ug/l	5	0.8 U	2 J	900 J	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	NA	0.8 U
1,1,2,2-Tetrachloroethane ⁽²⁾	SW-846 8260B	ug/l	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U
1,1,2-Trichloroethane ⁽²⁾	SW-846 8260B	ug/l	1	0.8 U	0.8 U	1 J	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	NA	0.8 U
1,1-Dichloroethane ⁽²⁾	SW-846 8260B	ug/l	5	1 U	2 J	220 J	1 U	2 J	1 U	1 U	1 U	1 U	NA	1 U
1,1-Dichloroethene (Dichloroethylene) ⁽²⁾	SW-846 8260B	ug/l	5	0.8 U	2 J	240 J	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	NA	0.8 U
1,2-Dichloroethane ⁽²⁾	SW-846 8260B	ug/l	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U
1,2-Dichloropropane ⁽²⁾	SW-846 8260B	ug/l	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U
2-Butanone (Methyl ethyl ketone)	SW-846 8260B	ug/l	50	3 U	3 U	3 U	4 J	3 U	3 U	3 U	3 U	3 U	NA	3 U
2-Hexanone	SW-846 8260B	ug/l	50	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	NA	3 U
4-Methyl-2-pentanone	SW-846 8260B	ug/l	NS	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	NA	3 U
Acetone	SW-846 8260B	ug/l	50	3500	6 U	6 U	30	6 U	6 U	6 U	6 U	6 U	NA	6 U
Benzene	SW-846 8260B	ug/l	1	0.5 U	0.5 U	10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U
Bromodichloromethane ⁽²⁾	SW-846 8260B	ug/l	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U
Bromoform	SW-846 8260B	ug/l	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 J
Bromomethane (Methyl bromide)	SW-846 8260B	ug/l	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U
Carbon Disulfide	SW-846 8260B	ug/l	60	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U
Carbon Tetrachloride ⁽²⁾	SW-846 8260B	ug/l	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U
Chlorobenzene ⁽²⁾	SW-846 8260B	ug/l	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	NA	0.8 U
Chloroethane ⁽²⁾	SW-846 8260B	ug/l	5	1 U	1 U	2 J	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U
Chloroform	SW-846 8260B	ug/l	7	0.8 U	0.8 U	1 J	0.8 U	2 J	0.8 U	0.8 U	0.8 U	0.8 U	NA	0.8 U
Chloromethane (Methyl chloride) ⁽²⁾	SW-846 8260B	ug/l	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U
cis-1,2-Dichloroethene ⁽²⁾	SW-846 8260B	ug/l	5	0.8 U	0.8 U	1 J	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	NA	0.8 U
cis-1,3-Dichloropropene ⁽²⁾	SW-846 8260B	ug/l	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U
Dibromochloromethane ⁽²⁾	SW-846 8260B	ug/l	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U
Diisopropyl ether	SW-846 8260B	ug/l	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	NA	0.8 U
Ethyl-t-butylether	SW-846 8260B	ug/l	NS	0.8 U	0.8 U	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	NA	0.8 U
Ethylbenzene	SW-846 8260B	ug/l	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	NA	0.8 U
Methyl-t-butyl ether	SW-846 8260B	ug/l	10	0.5 U	0.5 U	0.5 U	2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U
Methylene chloride (Dichloromethane) ⁽²⁾	SW-846 8260B	ug/l	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	2 U

TABLE 6
CONCRETE FOUNDATION GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, and SVOCs

			Field Sample ID	PCFGW-53(10-5-12)	PCFGW-54(10-4-12)	PCFGW-55(10-3-12)	PCFGW-56(10-2-12)	PCFGW-57(10-1-12)	PCFGW-72(10-5-12)	PCFGW-74(10-3-12)	PCFGW-75(10-5-12)	PCFGW-85(10-5-12)	PCFGW-89(10-1-12)	PCFGW-89(9-27-12)
			Location	PCFGW-053	PCFGW-054	PCFGW-055	PCFGW-056	PCFGW-057	PCFGW-072	PCFGW-074	PCFGW-075	PCFGW-085	PCFGW-089	PCFGW-089
			Sample Date	10/5/2012	10/4/2012	10/3/2012	10/2/2012	10/1/2012	10/5/2012	10/3/2012	10/5/2012	10/5/2012	10/1/2012	9/27/2012
			SDG	1340582	1340582	1340582	1340582	1340582	1340582	1340582	1340582	1340582	1340582	1338916
			Matrix	WATER	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	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Parameter Name	Method	Units	NY TOGS ⁽¹⁾											
Styrene	SW-846 8260B	ug/l	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U
Tert-amyl methyl ether	SW-846 8260B	ug/l	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	NA	0.8 U
Tertiary Butyl Alcohol	SW-846 8260B	ug/l	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U
Tetrachloroethene ⁽²⁾	SW-846 8260B	ug/l	5	0.8 U	0.8 U	15	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	NA	0.8 U
Toluene	SW-846 8260B	ug/l	5	0.7 U	0.7 U	29 J	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	NA	0.7 U
trans-1,2-Dichloroethene ⁽²⁾	SW-846 8260B	ug/l	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	NA	0.8 U
trans-1,3-Dichloropropene ⁽²⁾	SW-846 8260B	ug/l	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U
Trichloroethene (Trichloroethylene) ⁽²⁾	SW-846 8260B	ug/l	5	1 U	1 U	8	1 U	2 J	1 U	1 U	1 U	1 U	NA	2 J
Vinyl chloride (Chloroethene) ⁽²⁾	SW-846 8260B	ug/l	2	1 U	1 U	1 J	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U
Xylenes, Total	SW-846 8260B	ug/l	5	0.8 U	0.8 U	3 J	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	NA	0.8 U
Total CVOCs	SW-846 8260B	ug/l	NS	0	6 J	1388 J	0	4 J	0	0	0	0	NA	2 J
Total VOCs (including CVOCs)	SW-846 8260B	ug/l	NS	3500	6 J	1431 J	36 J	6 J	0	0	0	0	NA	3 J
SVOCs ⁽³⁾ by EPA Method 8270C														
1,2,4-Trichlorobenzene	SW-846 8270C	ug/l	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	NA
1,2-Dichlorobenzene (o-Dichlorobenzene)	SW-846 8270C	ug/l	3	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	NA
1,3-Dichlorobenzene	SW-846 8270C	ug/l	3	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	NA
1,4-Dichlorobenzene	SW-846 8270C	ug/l	3	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	NA
2,4,5-Trichlorophenol	SW-846 8270C	ug/l	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	NA
2,4,6-Trichlorophenol	SW-846 8270C	ug/l	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	NA
2,4-Dichlorophenol	SW-846 8270C	ug/l	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	NA
2,4-Dimethylphenol	SW-846 8270C	ug/l	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	NA
2,4-Dinitrophenol	SW-846 8270C	ug/l	10	100 U	100 U	100 U	100 U	100 U	100 U	100 U	9 U	100 U	100 U	NA
2,4-Dinitrotoluene	SW-846 8270C	ug/l	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.9 U	10 U	10 U	NA
2,6-Dinitrotoluene	SW-846 8270C	ug/l	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	NA
2-Chloronaphthalene	SW-846 8270C	ug/l	10	4 U	4 U	4 U	4 U	4 U	4 U	4 U	0.4 U	4 U	4 U	NA
2-Chlorophenol (o-Chlorophenol)	SW-846 8270C	ug/l	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	NA
2-Methyl-naphthalene	SW-846 8270C	ug/l	NS	1 U	1 U	1 U	1 U	2 J	1 U	1 U	0.09 U	1 U	1 J	NA
2-Methylphenol (o-Cresol)	SW-846 8270C	ug/l	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	NA
2-Nitroaniline (o-Nitroaniline)	SW-846 8270C	ug/l	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	NA
2-Nitrophenol (o-Nitrophenol)	SW-846 8270C	ug/l	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	NA
3,3'-Dichlorobenzidine	SW-846 8270C	ug/l	5	20 U	20 U	20 U	20 U	20 U	20 U	20 U	2 U	20 U	20 U	NA
3-Nitroaniline	SW-846 8270C	ug/l	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	NA
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	SW-846 8270C	ug/l	NS	50 U	50 U	50 U	50 U	50 U	50 U	50 U	5 U	50 U	50 U	NA
4-Bromophenylphenylether	SW-846 8270C	ug/l	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	NA
4-Chloroaniline	SW-846 8270C	ug/l	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	NA
4-Chlorophenyl phenyl ether	SW-846 8270C	ug/l	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	NA
4-Nitroaniline	SW-846 8270C	ug/l	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	NA
4-Nitrophenol	SW-846 8270C	ug/l	NS	100 U	100 U	100 U	100 U	100 U	100 U	100 U	9 U	100 U	100 U	NA
Acenaphthene ⁽³⁾	SW-846 8270C	ug/l	20	1 U	1 U	1 U	1 U	2 J	1 U	1 U	0.09 U	1 U	1 J	NA
Acenaphthylene	SW-846 8270C	ug/l	NS	1 U	1 U	1 U	1 U	4 J	1 U	1 U	0.09 U	1 U	7	NA
Anthracene ⁽³⁾	SW-846 8270C	ug/l	50	1 U	1 U	1 U	1 U	5	1 U	1 U	0.09 U	1 U	5	NA
Benzo(a)anthracene ⁽³⁾	SW-846 8270C	ug/l	0.002	1 J	1 U	1 U	1 U	18	1 U	1 U	0.09 U	1 U	26	NA
Benzo(a)Pyrene ⁽³⁾	SW-846 8270C	ug/l	NS	1 U	1 U	1 U	1 U	18	1 U	1 U	0.09 U	1 U	27	NA
Benzo(b)Fluoranthene ⁽³⁾	SW-846 8270C	ug/l	0.002	2 J	1 U	1 U	1 U	23	1 U	1 U	0.09 U	1 U	37	NA
Benzo(g,h,i)perylene ⁽³⁾	SW-846 8270C	ug/l	NS	1 U	1 U	1 U	1 U	12	1 U	1 U	0.09 U	1 U	17	NA
Benzo(k)Fluoranthene ⁽³⁾	SW-846 8270C	ug/l	0.002	1 U	1 U	1 U	1 U	10	1 U	1 U	0.09 U	1 U	13	NA
bis(2-Chloroethoxy)methane	SW-846 8270C	ug/l	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	NA
bis(2-Chloroethyl) ether	SW-846 8270C	ug/l	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	NA
Bis(2-chloroisopropyl) ether	SW-846 8270C	ug/l	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	NA
bis(2-Ethylhexyl)phthalate	SW-846 8270C	ug/l	5	2800	180	30 J	56	280	20 U	20 U	4 J	52	860	NA
Butylbenzylphthalate	SW-846 8270C	ug/l	50	20 U	20 U	20 U	20 U	20 U	20 U	20 U	2 U	20 U	20 U	NA
Carbazole	SW-846 8270C	ug/l	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	NA
Chrysene ⁽³⁾	SW-846 8270C	ug/l	0.002	2 J	1 U	1 U	1 U	19	1 U	1 U	0.09 U	1 U	26	NA
Di-n-butylphthalate	SW-846 8270C	ug/l	50	20 U	20 U	20 U	20 U	20 U	20 U	20 U	2 U	20 U	20 U	NA
Di-n-octylphthalate	SW-846 8270C	ug/l	50	20 U	20 U	20 U	20 U	20 U	20 U	20 U	2 U	20 U	20 U	NA
Dibenz(a,h)anthracene ⁽³⁾	SW-846 8270C	ug/l	NS	1 U	1 U	1 U	1 U	3 J	1 U	1 U	0.09 U	1 U	5 J	NA
Dibenzofuran	SW-846 8270C	ug/l	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	NA
Diethylphthalate	SW-846 8270C	ug/l	50	20 U	20 U	20 U	20 U	20 U	20 U	20 U	2 U	20 U	20 U	NA

TABLE 6
CONCRETE FOUNDATION GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, and SVOCs

			Field Sample ID	PCFGW-53(10-5-12)	PCFGW-54(10-4-12)	PCFGW-55(10-3-12)	PCFGW-56(10-2-12)	PCFGW-57(10-1-12)	PCFGW-72(10-5-12)	PCFGW-74(10-3-12)	PCFGW-75(10-5-12)	PCFGW-85(10-5-12)	PCFGW-89(10-1-12)	PCFGW-89(9-27-12)
			Location	PCFGW-053	PCFGW-054	PCFGW-055	PCFGW-056	PCFGW-057	PCFGW-072	PCFGW-074	PCFGW-075	PCFGW-085	PCFGW-089	PCFGW-089
			Sample Date	10/5/2012	10/4/2012	10/3/2012	10/2/2012	10/1/2012	10/5/2012	10/3/2012	10/5/2012	10/5/2012	10/1/2012	9/27/2012
			SDG	1340582	1340582	1340582	1340582	1340582	1340582	1340582	1340582	1340582	1340582	1338916
			Matrix	WATER	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	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample	Groundwater Sample
Parameter Name	Method	Units	NY TOGS ⁽¹⁾	20 U	20 U	20 U	20 U	20 U	20 U	20 U	2 U	20 U	20 U	NA
Dimethylphthalate	SW-846 8270C	ug/l	50											
Fluoranthene ⁽³⁾	SW-846 8270C	ug/l	50											
Fluorene	SW-846 8270C	ug/l	50											
Hexachlorobenzene	SW-846 8270C	ug/l	0.04											
Hexachlorobutadiene	SW-846 8270C	ug/l	0.5											
Hexachlorocyclopentadiene	SW-846 8270C	ug/l	5											
Hexachloroethane	SW-846 8270C	ug/l	5											
Indeno(1,2,3-cd)pyrene	SW-846 8270C	ug/l	0.002											
Isophorone	SW-846 8270C	ug/l	50											
N-Nitrosodi-n-propylamine	SW-846 8270C	ug/l	NS											
N-Nitrosodiphenylamine (Diphenylamine)	SW-846 8270C	ug/l	50											
Naphthalene ⁽³⁾	SW-846 8270C	ug/l	10											
Nitrobenzene	SW-846 8270C	ug/l	0.4											
p-Chloro-m-cresol	SW-846 8270C	ug/l	NS											
p-Cresol	SW-846 8270C	ug/l	NS											
Pentachlorophenol	SW-846 8270C	ug/l	1											
Phenanthrene ⁽³⁾	SW-846 8270C	ug/l	50											
Phenol	SW-846 8270C	ug/l	1											
Pyrene ⁽³⁾	SW-846 8270C	ug/l	50											
Total PAHs	SW-846 8270C	ug/l	NS	11 J	1 J	0	0	201 J	0	0	0	5 J	283 J	NA
Total SVOCs (including PAHs)	SW-846 8270C	ug/l	NS	2811 J	181 J	30 J	56	499 J	0	0	4 J	57 J	1166 J	NA

TABLE 6
CONCRETE FOUNDATION GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, and SVOCs

			Field Sample ID	PCFGW-190(10-2-12) ⁽¹⁾	PCFGW-90(10-2-12)	PCFGW-92(10-4-12)	PCFGW-99(10-5-12)	PCFGW-107(10-5-12)	PCFGW-108(10-5-12)	PCFGW-110(9-13-12)	PCFGW-112(9-13-12)	PCFGW-121(10-10-12)	PCFGW-122(10-10-12)
			Location	PCFGW-090	PCFGW-090	PCFGW-092	PCFGW-099	PCFGW-107	PCFGW-108	PCFGW-110	PCFGW-112	PCFGW-121	PCFGW-122
			Sample Date	10/2/2012	10/2/2012	10/4/2012	10/5/2012	10/5/2012	10/5/2012	9/13/2012	9/13/2012	10/10/2012	10/10/2012
			SDG	1340582	1340582	1340582	1340582	1340582	1340582	1336016	1336016	1341936	1341936
			Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Field Duplicate	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
Parameter Name	Method	Units	NY TOGS ⁽¹⁾										
Sulfate/Chloride by EPA Method 300.0													
Chloride	EPA 300.0	mg/l	250	36.6	36.8	20.5	1.3 J	83.3	182	91.7	113	65.8	143
Sulfate	EPA 300.0	mg/l	250	70.8	78.1	111	10.4	171	101	444	161	51.1	10.7
Metals by EPA Method 6010B													
Aluminum	SW-846 6010B	mg/l	0.1	229	137	5.02	287	6.74	514	398	700	183	459
Antimony	SW-846 6010B	mg/l	0.003	0.0075 J	0.0037 J	0.0035 U	0.0044 J	0.0035 U	0.0175 U	0.0175 U	0.0175 U	0.0175 U	0.0175 U
Arsenic	SW-846 6010B	mg/l	0.025	0.102	0.0704	0.0068 U	0.0874	0.0068 U	0.0894 J	0.311	0.442	0.102	0.166
Barium	SW-846 6010B	mg/l	1	2.14	1.59	0.123	2.54	0.125	2.78	1.43	2.88	1	2.09
Beryllium	SW-846 6010B	mg/l	0.003	0.0176	0.0114	0.00067 U	0.0272	0.0014 J	0.113	0.0434	0.128	0.0282	0.0663
Cadmium	SW-846 6010B	mg/l	0.005	0.00063 J	0.0016 J	0.00036 U	0.0016 U	0.00036 U	0.007 J	0.005 J	0.0018 U	0.0027 J	0.0048 J
Calcium	SW-846 6010B	mg/l	NS	184	140	59.4	61.8	60	166	1550	472	161	186
Chromium	SW-846 6010B	mg/l	0.05	0.253	0.142	0.0098 J	0.327	0.0103 J	0.457	0.915	0.96	0.459	1.01
Cobalt	SW-846 6010B	mg/l	0.005	0.271	0.121	0.0051	0.185	0.0041 J	0.322	0.231	0.52	0.324	0.47
Copper	SW-846 6010B	mg/l	0.2	0.634	0.497	0.0098 J	0.302	0.0067 J	0.429	0.682	1.14	0.35	0.5
IRON	SW-846 6010B	mg/l	0.3	398	201	9.13	416	12	1150	635	2010	401	971
Lead	SW-846 6010B	mg/l	0.025	1.37	1.83	0.0177	0.297	0.0234	0.231	7.4	2.09	1.39	2.59
Magnesium	SW-846 6010B	mg/l	35	106	54.4	15.1	69.7	14.7	237	274	299	88.8	151
Manganese	SW-846 6010B	mg/l	0.3	27.9	12.9	1.01	18.4	0.518	34.5	30.5	25.1	15	18.3
Nickel	SW-846 6010B	mg/l	0.1	0.351	0.171	0.0076 J	0.249	0.0023 J	0.144	0.172	0.491	0.116	0.147
Potassium	SW-846 6010B	mg/l	NS	23.7	17.8	4.69	16.1	9.33	48.5	81.6	56.1	17.6	48
Selenium	SW-846 6010B	mg/l	0.01	0.0075 U	0.0078 J	0.0075 U	0.0078 U	0.0075 U	0.0375 U	0.0375 U	0.0375 U	0.0375 U	0.0375 U
Silver	SW-846 6010B	mg/l	0.05	0.0159	0.0029 J	0.0012 U	0.0114	0.0012 U	0.006 U	0.006 U	0.0754	0.006 U	0.012 U
Sodium	SW-846 6010B	mg/l	20	87.1	86.5	83.8	7.05	151	135	168	108	62.1	104
Thallium	SW-846 6010B	mg/l	0.0005	0.0476	0.0234 J	0.0058 J	0.0362	0.0086 J	0.0285 U	0.0342 J	0.0864 J	0.0285 U	0.0285 U
Vanadium	SW-846 6010B	mg/l	NS	0.249	0.147	0.0076	0.358	0.01	0.831	0.47	1.25	0.32	0.572
Zinc	SW-846 6010B	mg/l	2	1.35	1.01	0.0242	0.859	0.0291	3.07	2.63	3.98	1	1.72
Mercury by EPA Method 7470A													
Mercury	SW-846 7470A	mg/l	0.0007	0.0118	0.0132	0.00007 U	0.0026	0.00007 U	0.00099 J	0.0791	0.0073	0.0024	0.004
VOCs ⁽⁴⁾ by EPA Method 8260B													
1,1,1-Trichloroethane ⁽²⁾	SW-846 8260B	ug/l	5	2 J	3 J	23	0.8 U	0.8 U	0.8 U	0.8 U	2 U	0.8 U	0.8 U
1,1,2,2-Tetrachloroethane ⁽²⁾	SW-846 8260B	ug/l	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
1,1,2-Trichloroethane ⁽²⁾	SW-846 8260B	ug/l	1	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	2 U	0.8 U	0.8 U
1,1-Dichloroethane ⁽²⁾	SW-846 8260B	ug/l	5	1 U	1 J	25	1 U	1 U	1 U	1 U	2 U	1 U	1 U
1,1-Dichloroethene (Dichloroethylene) ⁽²⁾	SW-846 8260B	ug/l	5	0.8 U	0.8 U	32	0.8 U	0.8 U	0.8 U	0.8 U	2 U	0.8 U	0.8 U
1,2-Dichloroethane ⁽²⁾	SW-846 8260B	ug/l	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
1,2-Dichloropropane ⁽²⁾	SW-846 8260B	ug/l	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
2-Butanone (Methyl ethyl ketone)	SW-846 8260B	ug/l	50	3 U	3 U	3 U	3 U	9 J	3 U	19	18 J	3 U	5 J
2-Hexanone	SW-846 8260B	ug/l	50	3 U	3 U	3 U	3 U	3 U	3 U	3 U	6 U	3 U	3 UJ
4-Methyl-2-pentanone	SW-846 8260B	ug/l	NS	3 U	3 U	3 U	3 U	3 U	3 U	3 U	6 U	3 U	3 U
Acetone	SW-846 8260B	ug/l	50	6 U	6 U	6 U	13 J	61	9 J	110	26 J	7 J	12 J
Benzene	SW-846 8260B	ug/l	1	0.5 U	0.5 U	2 J	0.5 U	0.5 U	0.5 U	5 J	3 J	0.5 J	1 J
Bromodichloromethane ⁽²⁾	SW-846 8260B	ug/l	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Bromoform	SW-846 8260B	ug/l	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Bromomethane (Methyl bromide)	SW-846 8260B	ug/l	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Carbon Disulfide	SW-846 8260B	ug/l	60	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Carbon Tetrachloride ⁽²⁾	SW-846 8260B	ug/l	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Chlorobenzene ⁽²⁾	SW-846 8260B	ug/l	5	0.8 U	0.8 U	21	0.8 U	0.8 U	0.8 U	0.8 U	1100	0.8 U	14
Chloroethane ⁽²⁾	SW-846 8260B	ug/l	5	1 U	1 U	4 J	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Chloroform	SW-846 8260B	ug/l	7	2 J	3 J	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	2 U	0.8 U	0.8 U
Chloromethane (Methyl chloride) ⁽²⁾	SW-846 8260B	ug/l	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
cis-1,2-Dichloroethene ⁽²⁾	SW-846 8260B	ug/l	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	2 U	0.8 U	0.9 J
cis-1,3-Dichloropropene ⁽²⁾	SW-846 8260B	ug/l	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Dibromochloromethane ⁽²⁾	SW-846 8260B	ug/l	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Diisopropyl ether	SW-846 8260B	ug/l	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	2 U	0.8 U	0.8 U
Ethyl-t-butylether	SW-846 8260B	ug/l	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	2 U	0.8 U	0.8 U
Ethylbenzene	SW-846 8260B	ug/l	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	16	0.8 U	0.8 U
Methyl-t-butyl ether	SW-846 8260B	ug/l	10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Methylene chloride (Dichloromethane) ⁽²⁾	SW-846 8260B	ug/l	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	4 U	2 U	2 U

TABLE 6
CONCRETE FOUNDATION GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, and SVOCs

				Field Sample ID	PCFGW-190(10-2-12) ⁽¹⁾	PCFGW-90(10-2-12)	PCFGW-92(10-4-12)	PCFGW-99(10-5-12)	PCFGW-107(10-5-12)	PCFGW-108(10-5-12)	PCFGW-110(9-13-12)	PCFGW-112(9-13-12)	PCFGW-121(10-10-12)	PCFGW-122(10-10-12)
				Location	PCFGW-090	PCFGW-090	PCFGW-092	PCFGW-099	PCFGW-107	PCFGW-108	PCFGW-110	PCFGW-112	PCFGW-121	PCFGW-122
				Sample Date	10/2/2012	10/2/2012	10/4/2012	10/5/2012	10/5/2012	10/5/2012	9/13/2012	9/13/2012	10/10/2012	10/10/2012
				SDG	1340582	1340582	1340582	1340582	1340582	1340582	1336016	1336016	1341936	1341936
				Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
				Sample Purpose	Field Duplicate	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
Parameter Name	Method	Units	NY TOGS ⁽¹⁾											
Styrene	SW-846 8260B	ug/l	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Tert-amyl methyl ether	SW-846 8260B	ug/l	NS	0.8 U		0.8 U	0.8 U	0.8 U	0.8 U	0.8 U		2 U	0.8 U	0.8 U
Tertiary Butyl Alcohol	SW-846 8260B	ug/l	NS	10 U		10 U	10 U	56 J	10 U	10 U	10 U	20 U	10 U	10 U
Tetrachloroethene ⁽²⁾	SW-846 8260B	ug/l	5	0.8 U	0.8 U	0.8 U	2 J	0.8 U	0.8 U	0.8 U	0.8 U	2 U	0.8 U	0.8 U
Toluene	SW-846 8260B	ug/l	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	2 J	4 J	0.7 U	0.9 J
trans-1,2-Dichloroethene ⁽²⁾	SW-846 8260B	ug/l	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	2 U	0.8 U	0.8 U
trans-1,3-Dichloropropene ⁽²⁾	SW-846 8260B	ug/l	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Trichloroethene (Trichloroethylene) ⁽²⁾	SW-846 8260B	ug/l	5	2 J	3 J	2 J	2 J	1 U	1 U	1 U	1 U	14	1 U	1 U
Vinyl chloride (Chloroethene) ⁽²⁾	SW-846 8260B	ug/l	2	1 U	1 U	2 J	2 J	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Xylenes, Total	SW-846 8260B	ug/l	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	2 J	3 J	0.9 J	0.8 U
Total CVOCs	SW-846 8260B	ug/l	NS	4 J	7 J	111 J	111 J	0	0	0	0	1114	0	14.9 J
Total VOCs (including CVOCs)	SW-846 8260B	ug/l	NS	6 J	10 J	113 J	113 J	69 J	71 J	9 J	138 J	1184 J	8.4 J	33.8 J
SVOCs ⁽⁵⁾ by EPA Method 8270C														
1,2,4-Trichlorobenzene	SW-846 8270C	ug/l	5	5 U	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U
1,2-Dichlorobenzene (o-Dichlorobenzene)	SW-846 8270C	ug/l	3	5 U	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.8 J
1,3-Dichlorobenzene	SW-846 8270C	ug/l	3	5 U	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	SW-846 8270C	ug/l	3	5 U	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	2
2,4,5-Trichlorophenol	SW-846 8270C	ug/l	NS	5 U	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U
2,4,6-Trichlorophenol	SW-846 8270C	ug/l	NS	5 U	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U
2,4-Dichlorophenol	SW-846 8270C	ug/l	5	5 U	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U
2,4-Dimethylphenol	SW-846 8270C	ug/l	50	5 U	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U
2,4-Dinitrophenol	SW-846 8270C	ug/l	10	100 U	100 U	100 U	10 U	100 U	10 U	100 U	100 U	100 U	10 U	10 U
2,4-Dinitrotoluene	SW-846 8270C	ug/l	5	10 U	10 U	10 U	1 U	10 U	1 U	10 U	10 U	10 U	1 U	1 U
2,6-Dinitrotoluene	SW-846 8270C	ug/l	5	5 U	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U
2-Chloronaphthalene	SW-846 8270C	ug/l	10	4 U	4 U	4 U	0.4 U	4 U	0.4 U	4 U	4 U	4 U	0.4 U	0.4 U
2-Chlorophenol (o-Chlorophenol)	SW-846 8270C	ug/l	NS	5 U	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U
2-Methyl-naphthalene	SW-846 8270C	ug/l	NS	1 U	1 U	2	2	1 U	0.1 U	1 U	1 J	440	0.1 U	1
2-Methylphenol (o-Cresol)	SW-846 8270C	ug/l	NS	5 U	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U
2-Nitroaniline (o-Nitroaniline)	SW-846 8270C	ug/l	5	5 U	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U
2-Nitrophenol (o-Nitrophenol)	SW-846 8270C	ug/l	NS	5 U	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U
3,3'-Dichlorobenzidine	SW-846 8270C	ug/l	5	20 U	20 U	20 U	2 U	20 U	2 U	20 U	20 U	20 U	2 U	2 U
3-Nitroaniline	SW-846 8270C	ug/l	5	5 U	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	SW-846 8270C	ug/l	NS	50 U	50 U	50 U	5 U	50 U	5 U	50 U	50 U	50 U	5 U	5 U
4-Bromophenylphenylether	SW-846 8270C	ug/l	NS	5 U	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U
4-Chloroaniline	SW-846 8270C	ug/l	5	5 U	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U
4-Chlorophenyl phenyl ether	SW-846 8270C	ug/l	NS	5 U	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U
4-Nitroaniline	SW-846 8270C	ug/l	5	5 U	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U
4-Nitrophenol	SW-846 8270C	ug/l	NS	100 U	100 U	100 U	10 U	100 U	10 U	100 U	100 U	100 U	10 U	10 U
Acenaphthene ⁽³⁾	SW-846 8270C	ug/l	20	1 U	1 U	1 U	0.1 U	1 U	0.1 U	1 U	1 U	1 U	0.1 U	0.7
Acenaphthylene	SW-846 8270C	ug/l	NS	1 U	1 U	1 U	0.1 U	1 U	0.4 J	1 U	1 U	1 U	0.1 U	0.8
Anthracene ⁽³⁾	SW-846 8270C	ug/l	50	1 U	1 U	1 U	0.1 U	1 U	0.1 U	1 U	1 U	10	0.1 U	0.1 J
Benzo(a)anthracene ⁽³⁾	SW-846 8270C	ug/l	0.002	1 U	1 U	1 U	0.1 U	1 U	0.1 U	1 U	1 U	8	0.1 U	0.1 J
Benzo(a)Pyrene ⁽³⁾	SW-846 8270C	ug/l	NS	1 U	1 U	1 U	0.1 U	1 U	0.1 U	1 U	1 U	6	0.1 U	0.1 U
Benzo(b)Fluoranthene ⁽³⁾	SW-846 8270C	ug/l	0.002	1 U	1 U	1 U	0.1 U	1 U	0.1 U	1 U	1 U	8	0.1 U	0.1 J
Benzo(g,h,i)perylene ⁽³⁾	SW-846 8270C	ug/l	NS	1 U	1 U	1 U	0.1 U	1 U	0.1 U	1 U	1 U	6	0.1 U	0.1 U
Benzo(k)Fluoranthene ⁽³⁾	SW-846 8270C	ug/l	0.002	1 U	1 U	1 U	0.1 U	1 U	0.1 U	1 U	1 U	4 J	0.1 U	0.1 U
bis(2-Chloroethoxy)methane	SW-846 8270C	ug/l	5	5 U	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U
bis(2-Chloroethyl) ether	SW-846 8270C	ug/l	1	5 U	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U
Bis(2-chloroisopropyl) ether	SW-846 8270C	ug/l	5	5 U	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U
bis(2-Ethylhexyl)phthalate	SW-846 8270C	ug/l	5	20 U	20 U	20 U	5 J	68	7	160	20 U	200	2 J	25
Butylbenzylphthalate	SW-846 8270C	ug/l	50	20 U	20 U	20 U	2 U	20 U	2 U	20 U	20 U	20 U	2 U	2 U
Carbazole	SW-846 8270C	ug/l	NS	5 U	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U
Chrysene ⁽³⁾	SW-846 8270C	ug/l	0.002	1 U	1 U	1 U	0.1 U	1 U	0.1 U	1 U	1 U	8	0.1 U	0.1 J
Di-n-butylphthalate	SW-846 8270C	ug/l	50	20 U	20 U	20 U	2 U	20 U	2 U	20 U	20 U	20 U	2 U	2 U
Di-n-octylphthalate	SW-846 8270C	ug/l	50	20 U	20 U	20 U	2 U	20 U	2 U	20 U	20 U	20 U	2 U	2 U
Dibenz(a,h)anthracene ⁽³⁾	SW-846 8270C	ug/l	NS	1 U	1 U	1 U	0.1 U	1 U	0.1 U	1 U	1 U	1 U	0.1 U	0.1 U
Dibenzofuran	SW-846 8270C	ug/l	NS	5 U	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	1 J
Diethylphthalate	SW-846 8270C	ug/l	50	20 U	20 U	20 U	2 U	20 U	2 U	20 U	20 U	20 U	2 U	2 U

TABLE 6
CONCRETE FOUNDATION GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, and SVOCs

			Field Sample ID	PCFGW-190(10-2-12) ⁽¹⁾	PCFGW-90(10-2-12)	PCFGW-92(10-4-12)	PCFGW-99(10-5-12)	PCFGW-107(10-5-12)	PCFGW-108(10-5-12)	PCFGW-110(9-13-12)	PCFGW-112(9-13-12)	PCFGW-121(10-10-12)	PCFGW-122(10-10-12)
			Location	PCFGW-090	PCFGW-090	PCFGW-092	PCFGW-099	PCFGW-107	PCFGW-108	PCFGW-110	PCFGW-112	PCFGW-121	PCFGW-122
			Sample Date	10/2/2012	10/2/2012	10/4/2012	10/5/2012	10/5/2012	10/5/2012	9/13/2012	9/13/2012	10/10/2012	10/10/2012
			SDG	1340582	1340582	1340582	1340582	1340582	1340582	1336016	1336016	1341936	1341936
			Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Field Duplicate	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
Parameter Name	Method	Units	NY TOGS ⁽¹⁾										
Dimethylphthalate	SW-846 8270C	ug/l	50	20 U	20 U	2 U	20 U	2 U	20 U	20 U	20 U	2 U	2 U
Fluoranthene ⁽³⁾	SW-846 8270C	ug/l	50	1 U	1 J	0.1 U	1 U	0.1 U	1 U	2 J	29	0.1 U	0.3 J
Fluorene	SW-846 8270C	ug/l	50	1 U	1 U	0.1 U	1 U	0.2 J	1 U	1 J	28	0.1 U	1
Hexachlorobenzene	SW-846 8270C	ug/l	0.04	1 U	1 U	0.1 U	1 U	0.1 U	1 U	1 U	1 U	0.1 U	0.1 U
Hexachlorobutadiene	SW-846 8270C	ug/l	0.5	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	SW-846 8270C	ug/l	5	50 U	50 U	5 U	50 U	5 U	50 U	50 U	50 U	5 U	5 U
Hexachloroethane	SW-846 8270C	ug/l	5	10 U	10 U	1 U	10 U	1 U	10 U	10 U	10 U	1 U	1 U
Indeno(1,2,3-cd)pyrene	SW-846 8270C	ug/l	0.002	1 U	1 U	0.1 U	1 U	0.1 U	1 U	1 U	4 J	0.1 U	0.1 U
Isophorone	SW-846 8270C	ug/l	50	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U
N-Nitrosodi-n-propylamine	SW-846 8270C	ug/l	NS	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U
N-Nitrosodiphenylamine (Diphenylamine)	SW-846 8270C	ug/l	50	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U
Naphthalene ⁽³⁾	SW-846 8270C	ug/l	10	1 U	1 U	0.1 U	1 U	0.1 U	1 U	1 J	160	0.2 J	1
Nitrobenzene	SW-846 8270C	ug/l	0.4	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U
p-Chloro-m-cresol	SW-846 8270C	ug/l	NS	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U
p-Cresol	SW-846 8270C	ug/l	NS	5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U
Pentachlorophenol	SW-846 8270C	ug/l	1	10 U	10 U	1 U	10 U	1 U	10 U	10 U	10 U	1 U	1 U
Phenanthrene ⁽³⁾	SW-846 8270C	ug/l	50	1 U	1 U	0.1 J	1 U	0.1 U	1 U	1 U	53	0.1 U	0.9
Phenol	SW-846 8270C	ug/l	1	5 U	5 U	0.5 U	5 U	0.5 U	5 U	11	5 U	0.5 U	0.5 U
Pyrene ⁽³⁾	SW-846 8270C	ug/l	50	1 J	1 J	0.1 U	1 U	0.1 U	1 U	2 J	22	0.1 U	0.3 J
Total PAHs	SW-846 8270C	ug/l	NS	1 J	2 J	0.1 J	0	0	0	5 J	314 J	0.2 J	3.6 J
Total SVOCs (including PAHs)	SW-846 8270C	ug/l	NS	1 J	2 J	7.1 J	68	7.6 J	160	18 J	986 J	2.2 J	35.2 J

TABLE 6
CONCRETE FOUNDATION GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, and SVOCs

			Field Sample ID	PCFGW-1123(10-11-12) ⁽¹⁾	PCFGW-123(10-11-12)
			Location	PCFGW-123	PCFGW-123
			Sample Date	10/11/2012	10/11/2012
			SDG	1341936	1341936
			Matrix	WATER	WATER
			Sample Purpose	Field Duplicate	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample
Parameter Name	Method	Units	NY TOGS ⁽¹⁾		
Sulfate/Chloride by EPA Method 300.0					
Chloride	EPA 300.0	mg/l	250	177	108 J
Sulfate	EPA 300.0	mg/l	250	101	48
Metals by EPA Method 6010B					
Aluminum	SW-846 6010B	mg/l	0.1	185	327
Antimony	SW-846 6010B	mg/l	0.003	0.0049 J	0.0175 UJ
Arsenic	SW-846 6010B	mg/l	0.025	0.0691	0.121 J
Barium	SW-846 6010B	mg/l	1	0.837	1.12 J
Beryllium	SW-846 6010B	mg/l	0.003	0.017	0.0249 J
Cadmium	SW-846 6010B	mg/l	0.005	0.00036 U	0.0018 U
Calcium	SW-846 6010B	mg/l	NS	112	110
Chromium	SW-846 6010B	mg/l	0.05	0.214	0.398 J
Cobalt	SW-846 6010B	mg/l	0.005	0.091	0.15 J
Copper	SW-846 6010B	mg/l	0.2	0.277	0.44 J
IRON	SW-846 6010B	mg/l	0.3	267	475
Lead	SW-846 6010B	mg/l	0.025	0.376	0.556 J
Magnesium	SW-846 6010B	mg/l	35	68.1	94.3
Manganese	SW-846 6010B	mg/l	0.3	10.1	13.3
Nickel	SW-846 6010B	mg/l	0.1	0.162	0.286 J
Potassium	SW-846 6010B	mg/l	NS	18.2	22.5 J
Selenium	SW-846 6010B	mg/l	0.01	0.0075 U	0.0375 U
Silver	SW-846 6010B	mg/l	0.05	0.0012 U	0.006 U
Sodium	SW-846 6010B	mg/l	20	90	89.5
Thallium	SW-846 6010B	mg/l	0.0005	0.0057 U	0.0285 UJ
Vanadium	SW-846 6010B	mg/l	NS	0.244	0.428 J
Zinc	SW-846 6010B	mg/l	2	0.773	1.35 J
Mercury by EPA Method 7470A					
Mercury	SW-846 7470A	mg/l	0.0007	0.0023	0.0024 J
VOCs ⁽⁴⁾ by EPA Method 8260B					
1,1,1-Trichloroethane ⁽²⁾	SW-846 8260B	ug/l	5	0.8 U	0.8 U
1,1,2,2-Tetrachloroethane ⁽²⁾	SW-846 8260B	ug/l	5	1 U	1 U
1,1,2-Trichloroethane ⁽²⁾	SW-846 8260B	ug/l	1	0.8 U	0.8 U
1,1-Dichloroethane ⁽²⁾	SW-846 8260B	ug/l	5	1 U	1 U
1,1-Dichloroethene (Dichloroethylene) ⁽²⁾	SW-846 8260B	ug/l	5	0.8 U	0.8 U
1,2-Dichloroethane ⁽²⁾	SW-846 8260B	ug/l	0.6	1 U	1 U
1,2-Dichloropropane ⁽²⁾	SW-846 8260B	ug/l	1	1 U	1 U
2-Butanone (Methyl ethyl ketone)	SW-846 8260B	ug/l	50	3 U	3 U
2-Hexanone	SW-846 8260B	ug/l	50	3 U	3 U
4-Methyl-2-pentanone	SW-846 8260B	ug/l	NS	3 U	3 U
Acetone	SW-846 8260B	ug/l	50	13 J	13 J
Benzene	SW-846 8260B	ug/l	1	0.5 U	0.5 U
Bromodichloromethane ⁽²⁾	SW-846 8260B	ug/l	50	1 U	1 U
Bromoform	SW-846 8260B	ug/l	50	1 U	1 U
Bromomethane (Methyl bromide)	SW-846 8260B	ug/l	5	1 U	1 U
Carbon Disulfide	SW-846 8260B	ug/l	60	1 U	1 U
Carbon Tetrachloride ⁽²⁾	SW-846 8260B	ug/l	5	1 U	1 U
Chlorobenzene ⁽²⁾	SW-846 8260B	ug/l	5	0.8 U	0.8 U
Chloroethane ⁽²⁾	SW-846 8260B	ug/l	5	1 U	1 U
Chloroform	SW-846 8260B	ug/l	7	0.8 U	0.8 U
Chloromethane (Methyl chloride) ⁽²⁾	SW-846 8260B	ug/l	5	1 U	1 U
cis-1,2-Dichloroethene ⁽²⁾	SW-846 8260B	ug/l	5	0.8 U	0.8 U
cis-1,3-Dichloropropene ⁽²⁾	SW-846 8260B	ug/l	NS	1 U	1 U
Dibromochloromethane ⁽²⁾	SW-846 8260B	ug/l	50	1 U	1 U
Diisopropyl ether	SW-846 8260B	ug/l	NS	0.8 U	0.8 U
Ethyl-t-butylether	SW-846 8260B	ug/l	NS	0.8 U	0.8 U
Ethylbenzene	SW-846 8260B	ug/l	5	0.8 U	0.8 U
Methyl-t-butyl ether	SW-846 8260B	ug/l	10	0.5 U	0.5 U
Methylene chloride (Dichloromethane) ⁽²⁾	SW-846 8260B	ug/l	5	2 U	2 U

TABLE 6
CONCRETE FOUNDATION GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, and SVOCs

			Field Sample ID	PCFGW-1123(10-11-12) ^(*)	PCFGW-123(10-11-12)
			Location	PCFGW-123	PCFGW-123
			Sample Date	10/11/2012	10/11/2012
			SDG	1341936	1341936
			Matrix	WATER	WATER
			Sample Purpose	Field Duplicate	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample
Parameter Name	Method	Units	NY TOGS ⁽¹⁾		
Styrene	SW-846 8260B	ug/l	5	1 U	1 U
Tert-amyl methyl ether	SW-846 8260B	ug/l	NS	0.8 U	0.8 U
Tertiary Butyl Alcohol	SW-846 8260B	ug/l	NS	10 U	10 U
Tetrachloroethene ⁽²⁾	SW-846 8260B	ug/l	5	0.8 U	0.8 U
Toluene	SW-846 8260B	ug/l	5	0.7 U	0.7 U
trans-1,2-Dichloroethene ⁽²⁾	SW-846 8260B	ug/l	5	0.8 U	0.8 U
trans-1,3-Dichloropropene ⁽²⁾	SW-846 8260B	ug/l	0.4	1 U	1 U
Trichloroethene (Trichloroethylene) ⁽²⁾	SW-846 8260B	ug/l	5	1 U	1 U
Vinyl chloride (Chloroethene) ⁽²⁾	SW-846 8260B	ug/l	2	1 U	1 U
Xylenes, Total	SW-846 8260B	ug/l	5	0.8 U	0.8 U
Total CVOCs	SW-846 8260B	ug/l	NS	0	0
Total VOCs (including CVOCs)	SW-846 8260B	ug/l	NS	13 J	13 J
SVOCs ⁽⁵⁾ by EPA Method 8270C					
1,2,4-Trichlorobenzene	SW-846 8270C	ug/l	5	0.5 U	5 U
1,2-Dichlorobenzene (o-Dichlorobenzene)	SW-846 8270C	ug/l	3	0.5 U	5 U
1,3-Dichlorobenzene	SW-846 8270C	ug/l	3	0.5 U	5 U
1,4-Dichlorobenzene	SW-846 8270C	ug/l	3	0.5 U	5 U
2,4,5-Trichlorophenol	SW-846 8270C	ug/l	NS	0.5 U	5 U
2,4,6-Trichlorophenol	SW-846 8270C	ug/l	NS	0.5 U	5 U
2,4-Dichlorophenol	SW-846 8270C	ug/l	5	0.5 U	5 U
2,4-Dimethylphenol	SW-846 8270C	ug/l	50	0.5 U	5 U
2,4-Dinitrophenol	SW-846 8270C	ug/l	10	10 U	100 UJ
2,4-Dinitrotoluene	SW-846 8270C	ug/l	5	1 U	10 U
2,6-Dinitrotoluene	SW-846 8270C	ug/l	5	0.5 U	5 U
2-Chloronaphthalene	SW-846 8270C	ug/l	10	0.4 U	4 U
2-Chlorophenol (o-Chlorophenol)	SW-846 8270C	ug/l	NS	0.5 U	5 U
2-Methyl-naphthalene	SW-846 8270C	ug/l	NS	0.1 U	1 U
2-Methylphenol (o-Cresol)	SW-846 8270C	ug/l	NS	0.5 U	5 U
2-Nitroaniline (o-Nitroaniline)	SW-846 8270C	ug/l	5	0.5 U	5 U
2-Nitrophenol (o-Nitrophenol)	SW-846 8270C	ug/l	NS	0.5 U	5 U
3,3'-Dichlorobenzidine	SW-846 8270C	ug/l	5	2 U	20 U
3-Nitroaniline	SW-846 8270C	ug/l	5	0.5 U	5 U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	SW-846 8270C	ug/l	NS	5 U	50 UJ
4-Bromophenylphenylether	SW-846 8270C	ug/l	NS	0.5 U	5 U
4-Chloroaniline	SW-846 8270C	ug/l	5	0.5 U	5 U
4-Chlorophenyl phenyl ether	SW-846 8270C	ug/l	NS	0.5 U	5 U
4-Nitroaniline	SW-846 8270C	ug/l	5	0.5 U	5 U
4-Nitrophenol	SW-846 8270C	ug/l	NS	10 U	100 UJ
Acenaphthene ⁽³⁾	SW-846 8270C	ug/l	20	0.1 U	1 U
Acenaphthylene	SW-846 8270C	ug/l	NS	0.1 U	1 U
Anthracene ⁽³⁾	SW-846 8270C	ug/l	50	0.1 U	1 U
Benzo(a)anthracene ⁽³⁾	SW-846 8270C	ug/l	0.002	0.1 U	2 U
Benzo(a)Pyrene ⁽³⁾	SW-846 8270C	ug/l	NS	0.1 U	2 U
Benzo(b)Fluoranthene ⁽³⁾	SW-846 8270C	ug/l	0.002	0.1 U	3 U
Benzo(g,h,i)perylene ⁽³⁾	SW-846 8270C	ug/l	NS	0.1 U	2 U
Benzo(k)Fluoranthene ⁽³⁾	SW-846 8270C	ug/l	0.002	0.1 U	1 U
bis(2-Chloroethoxy)methane	SW-846 8270C	ug/l	5	0.5 U	5 U
bis(2-Chloroethyl) ether	SW-846 8270C	ug/l	1	0.5 U	5 U
Bis(2-chloroisopropyl) ether	SW-846 8270C	ug/l	5	0.5 U	5 U
bis(2-Ethylhexyl)phthalate	SW-846 8270C	ug/l	5	4 J	170
Butylbenzylphthalate	SW-846 8270C	ug/l	50	2 U	20 U
Carbazole	SW-846 8270C	ug/l	NS	0.5 U	5 U
Chrysene ⁽³⁾	SW-846 8270C	ug/l	0.002	0.1 U	2 U
Di-n-butylphthalate	SW-846 8270C	ug/l	50	2 U	20 U
Di-n-octylphthalate	SW-846 8270C	ug/l	50	2 U	20 U
Dibenz(a,h)anthracene ⁽³⁾	SW-846 8270C	ug/l	NS	0.1 U	1 U
Dibenzofuran	SW-846 8270C	ug/l	NS	0.5 U	5 U
Diethylphthalate	SW-846 8270C	ug/l	50	2 U	20 U

TABLE 6
CONCRETE FOUNDATION GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
FORMER TEXACO RESEARCH CENTER, BEACON, NY
ANIONS, TAL METALS, VOCs, and SVOCs

			Field Sample ID	PCFGW-1123(10-11-12) ⁽¹⁾	PCFGW-123(10-11-12)
			Location	PCFGW-123	PCFGW-123
			Sample Date	10/11/2012	10/11/2012
			SDG	1341936	1341936
			Matrix	WATER	WATER
			Sample Purpose	Field Duplicate	Regular sample
			Sample Type	Groundwater Sample	Groundwater Sample
Parameter Name	Method	Units	NY TOGS ⁽¹⁾		
Dimethylphthalate	SW-846 8270C	ug/l	50	2 U	20 U
Fluoranthene ⁽³⁾	SW-846 8270C	ug/l	50	0.1 U	4 J
Fluorene	SW-846 8270C	ug/l	50	0.1 U	1 U
Hexachlorobenzene	SW-846 8270C	ug/l	0.04	0.1 U	1 U
Hexachlorobutadiene	SW-846 8270C	ug/l	0.5	0.5 U	5 U
Hexachlorocyclopentadiene	SW-846 8270C	ug/l	5	5 U	50 U
Hexachloroethane	SW-846 8270C	ug/l	5	1 U	10 U
Indeno(1,2,3-cd)pyrene	SW-846 8270C	ug/l	0.002	0.1 U	1 U
Isophorone	SW-846 8270C	ug/l	50	0.5 U	5 U
N-Nitrosodi-n-propylamine	SW-846 8270C	ug/l	NS	0.5 U	5 U
N-Nitrosodiphenylamine (Diphenylamine)	SW-846 8270C	ug/l	50	0.5 U	5 U
Naphthalene ⁽³⁾	SW-846 8270C	ug/l	10	0.2 J	1 U
Nitrobenzene	SW-846 8270C	ug/l	0.4	0.5 U	5 U
p-Chloro-m-cresol	SW-846 8270C	ug/l	NS	0.5 U	5 U
p-Cresol	SW-846 8270C	ug/l	NS	0.5 U	5 U
Pentachlorophenol	SW-846 8270C	ug/l	1	1 U	10 UJ
Phenanthrene ⁽³⁾	SW-846 8270C	ug/l	50	0.1 U	2 J
Phenol	SW-846 8270C	ug/l	1	0.5 U	5 U
Pyrene ⁽³⁾	SW-846 8270C	ug/l	50	0.1 U	4 J
Total PAHs	SW-846 8270C	ug/l	NS	0.2 J	22 J
Total SVOCs (including PAHs)	SW-846 8270C	ug/l	NS	4.2 J	193 J

Notes for Tables 2, 3, 4, 5, and 6

	Concentration of parameter(s) exceeds regulatory groundwater screening criterion.
J	The analyte was positively identified, But the quantitation is an estimation.
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 detedted; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.
ug/L	Micrograms per liter.
mg/L	Milligrams per liter.
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),
(2)	Chlorinated Volatile Organic Compounds (CVOCs).
(3)	Polycyclic Aromatic Hydrocarbons (PAHs).
(4)	Volatile Organic Compounds (VOCs).
(5)	Semi-Volatile Organic Compounds (SVOCs).

FIGURES

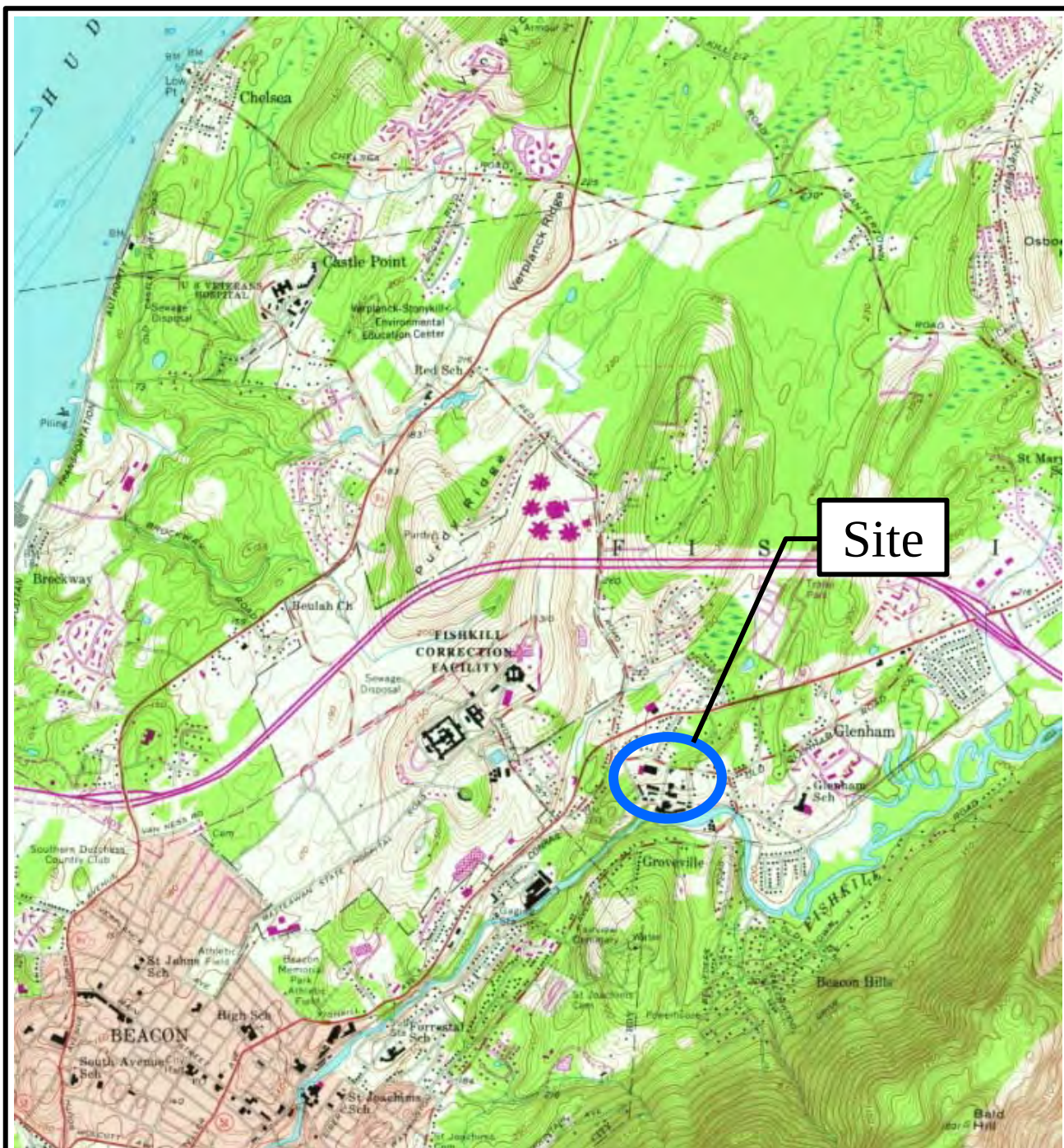
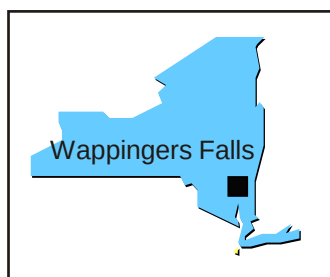


FIGURE 1



New York Quadrangle



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

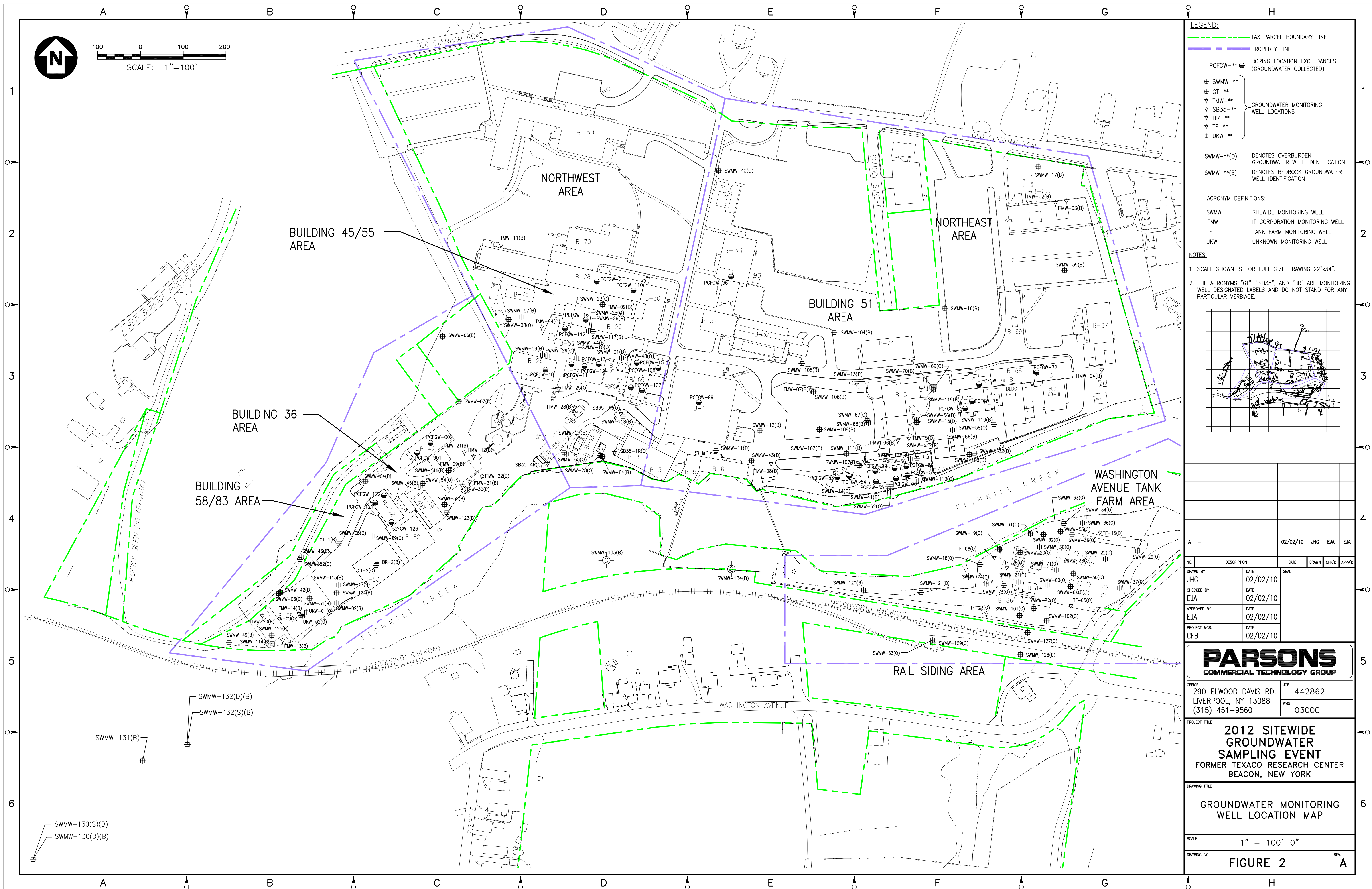


Chevron Environmental Management Company
(EMC)
Former Texaco Research Facility
Beacon, New York

SITE LOCATION MAP

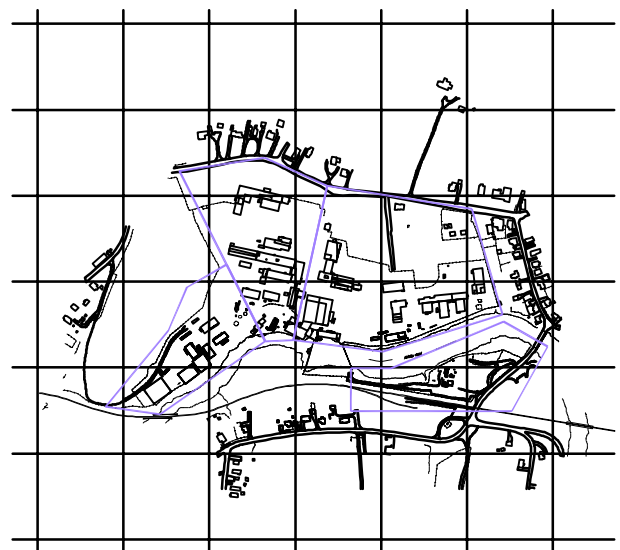
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- LEGEND:**
- TAX PARCEL BOUNDARY LINE
 - PROPERTY LINE
 - PCFGW-**-** BORING LOCATION EXCEEDANCES (GROUNDWATER COLLECTED)
 - GROUNDWATER MONITORING WELL LOCATIONS
 - SWMW-**-**
 - GT-**-**
 - ITMW-**-**
 - SB35-**-**
 - BR-**-**
 - TF-**-**
 - UKW-**-**
 - SWMW-**-*(O) DENOTES OVERBURDEN GROUNDWATER WELL IDENTIFICATION
 - SWMW-**-*(B) DENOTES BEDROCK GROUNDWATER WELL IDENTIFICATION
- ACRONYM DEFINITIONS:**
- SWMW SITEWIDE MONITORING WELL
 - ITMW IT CORPORATION MONITORING WELL
 - TF TANK FARM MONITORING WELL
 - UKW UNKNOWN MONITORING WELL

- NOTES:**
- SCALE SHOWN IS FOR FULL SIZE DRAWING 22"x34".
 - THE ACRONYMS "GT", "SB35", AND "BR" ARE MONITORING WELL DESIGNATED LABELS AND DO NOT STAND FOR ANY PARTICULAR VERBIAGE.



A		02/02/10		JHG	EJA
NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APP'VD
DRAWN BY	JHG	DATE	02/02/10	SEAL	
CHECKED BY	EJA	DATE	02/02/10		
APPROVED BY	EJA	DATE	02/02/10		
PROJECT MGR.	CFB	DATE	02/02/10		

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COMMERCIAL TECHNOLOGY GROUP

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JOB: 442862
WBS: 03000

PROJECT TITLE

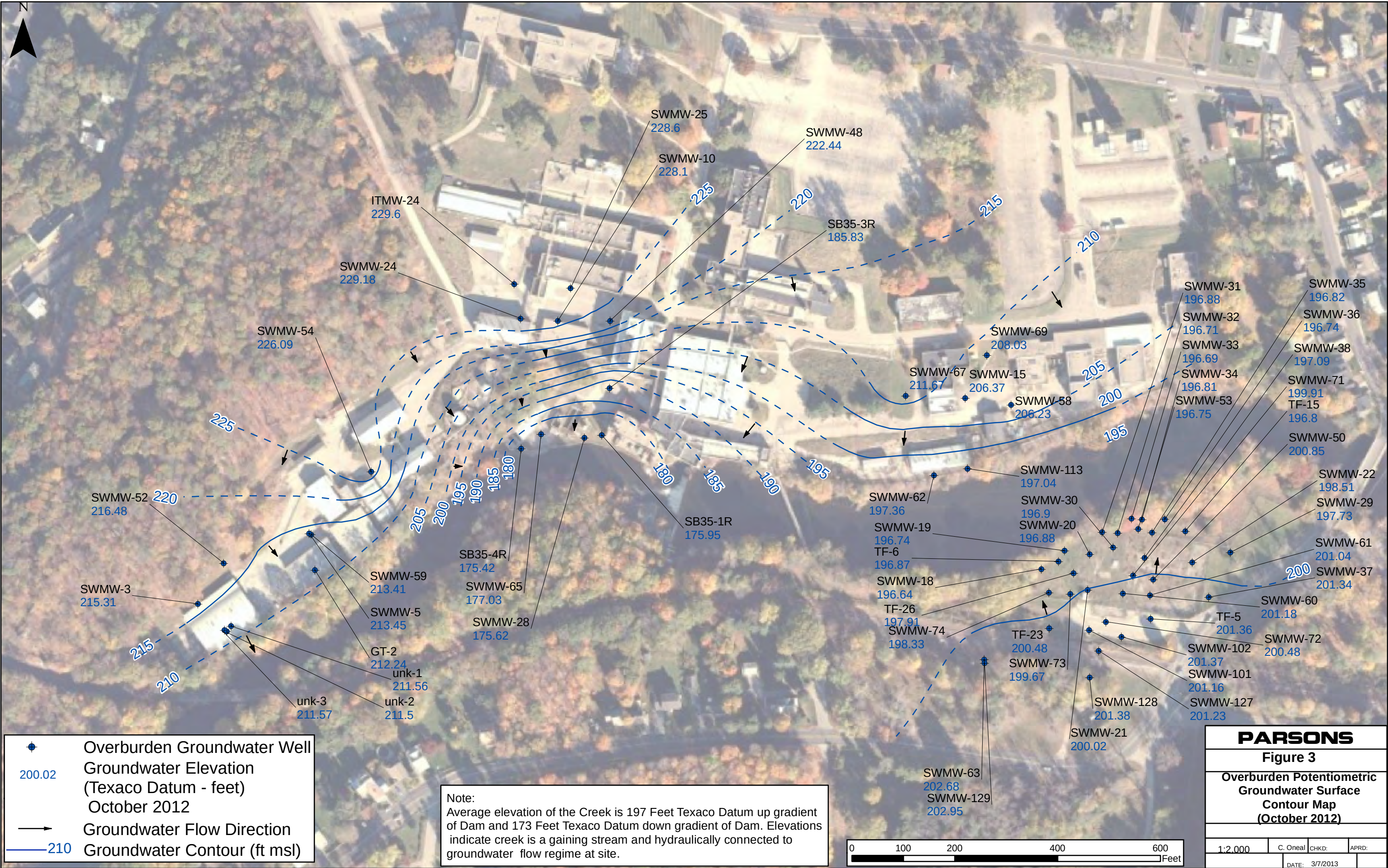
2012 SITEWIDE GROUNDWATER SAMPLING EVENT
FORMER TEXACO RESEARCH CENTER
BEACON, NEW YORK

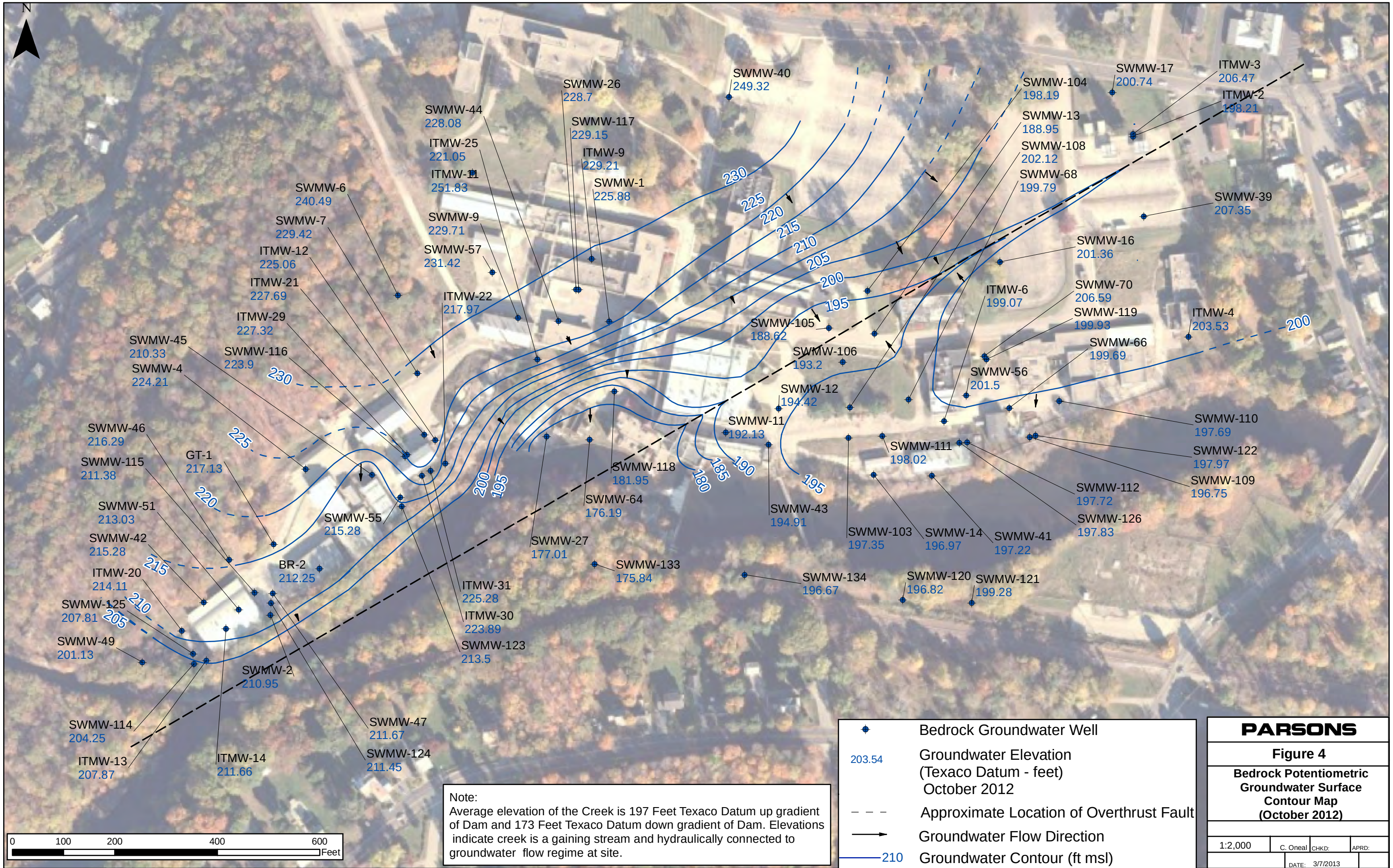
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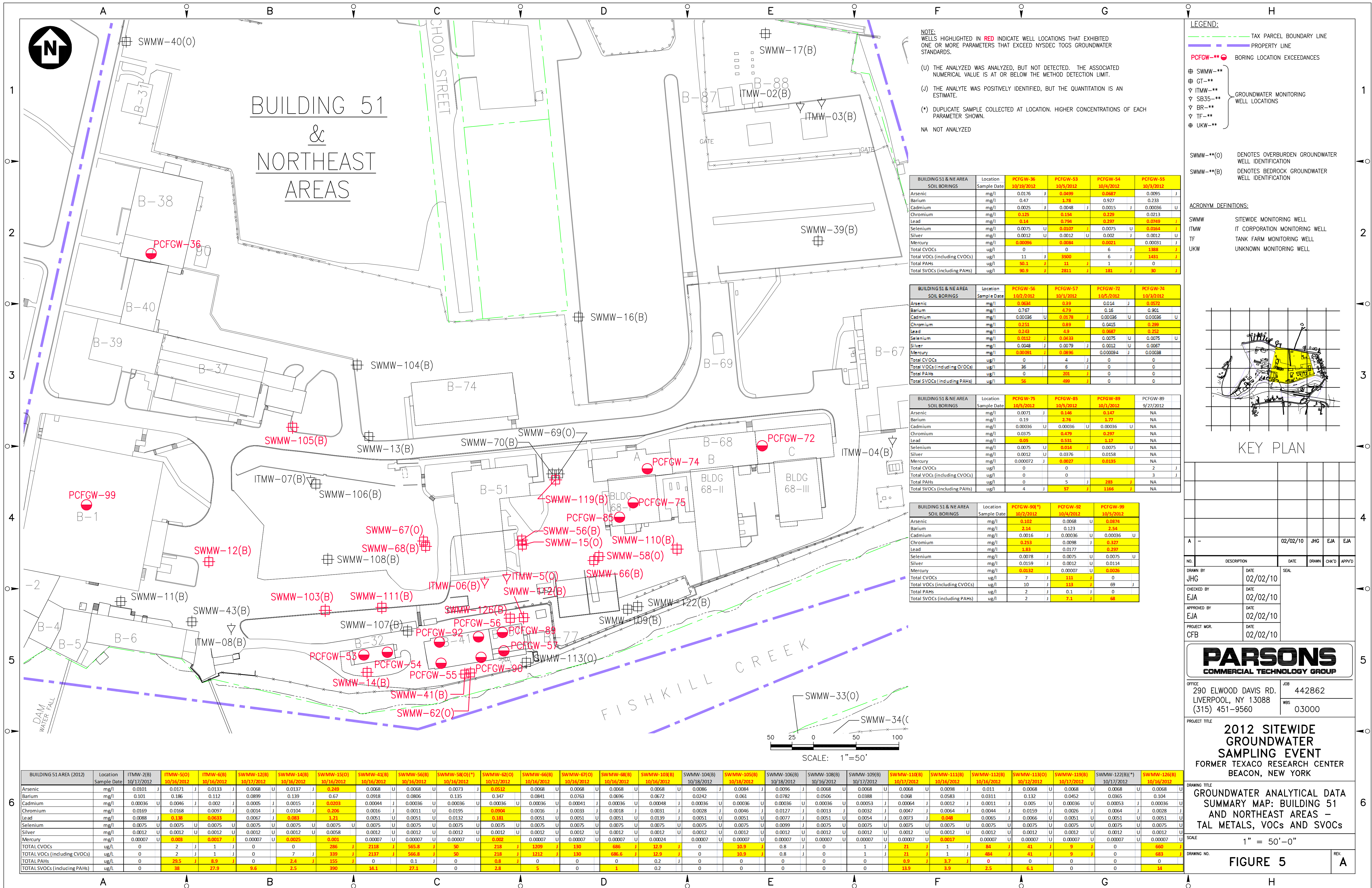
GROUNDWATER MONITORING WELL LOCATION MAP

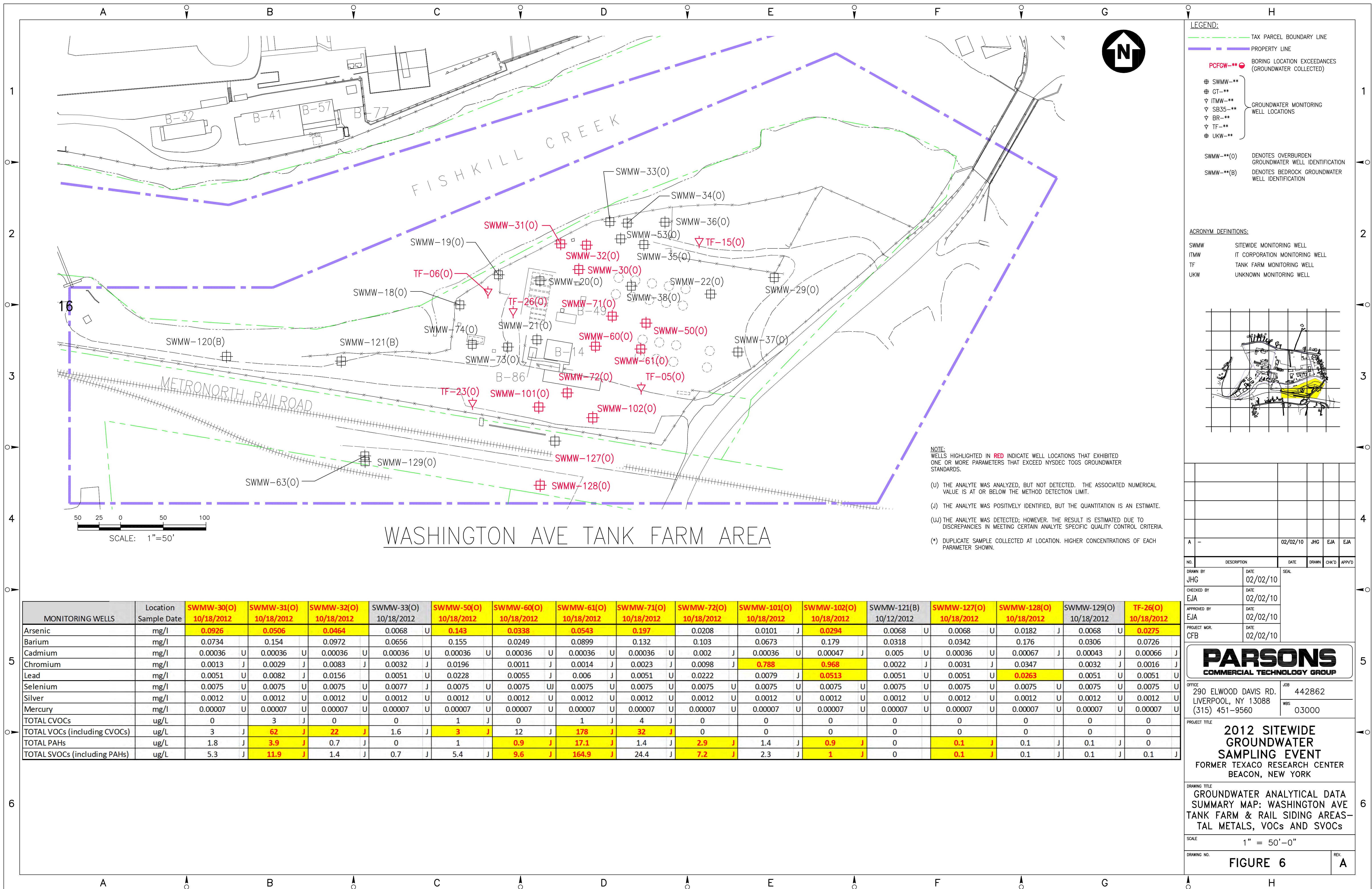
SCALE: 1" = 100'-0"

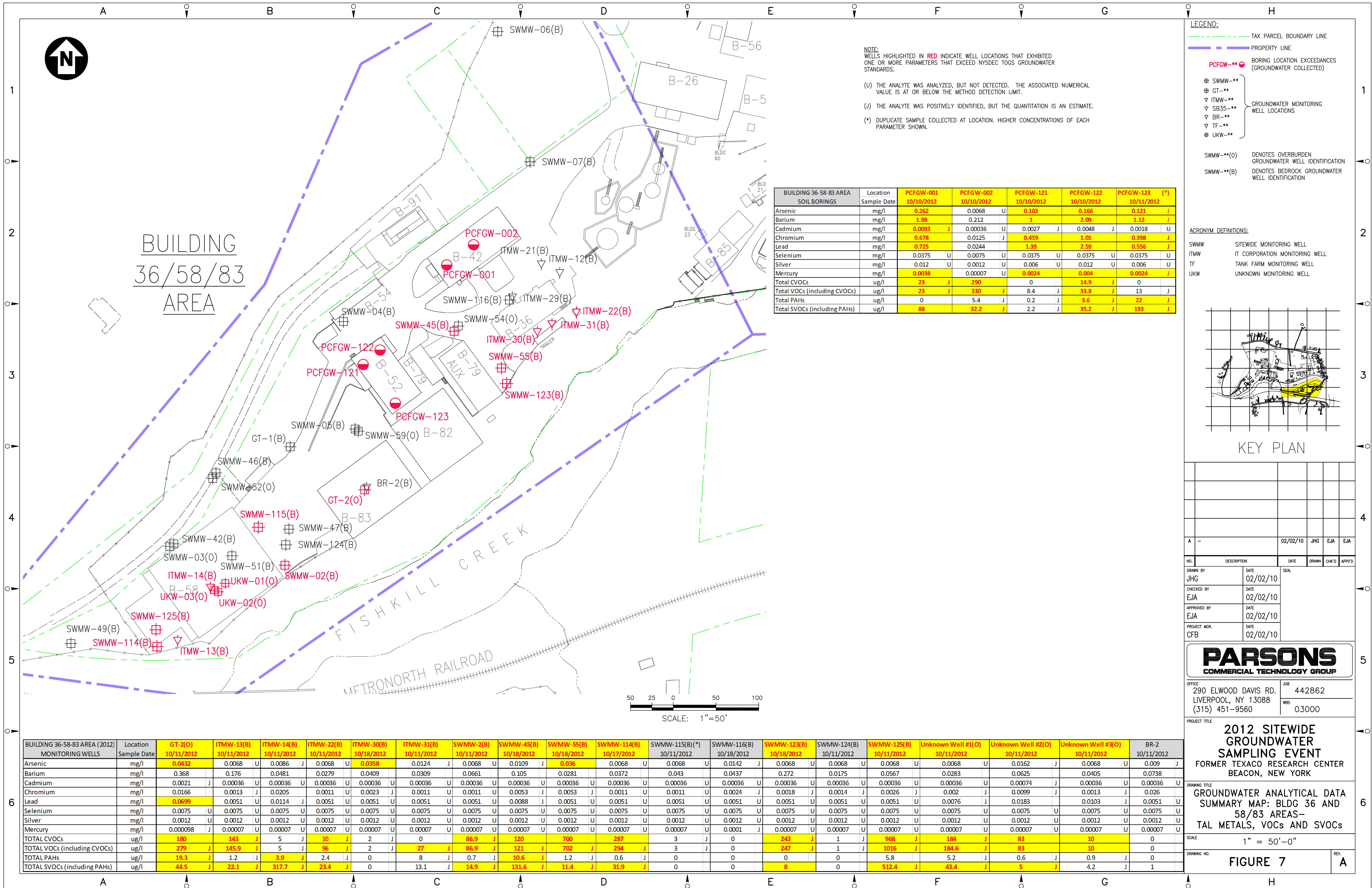
DRAWING NO. **FIGURE 2** REV. **A**

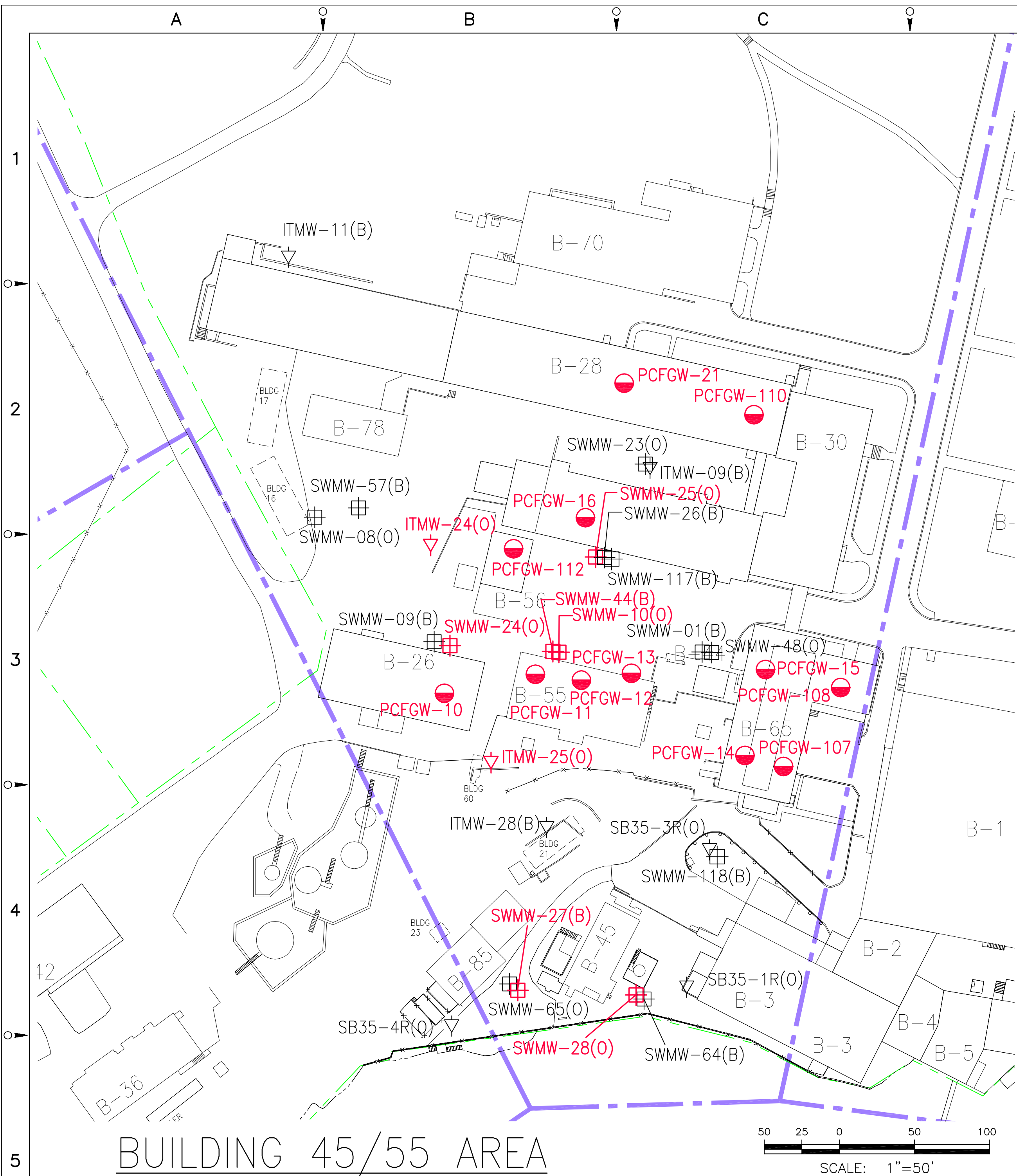












NOTE:
WELLS HIGHLIGHTED IN RED INDICATE WELL LOCATIONS THAT EXHIBITED ONE OR MORE PARAMETERS THAT EXCEED NYSDEC TOGS GROUNDWATER STANDARDS.

(U) THE ANALYTE WAS ANALYZED, BUT NOT DETECTED. THE ASSOCIATED NUMERICAL VALUE IS AT OR BELOW THE METHOD DETECTION LIMIT.

(J) THE ANALYTE WAS POSITIVELY IDENTIFIED, BUT THE QUANTITATION IS AN ESTIMATE.

(UJ) THE ANALYTE WAS DETECTED; HOWEVER, THE RESULT IS ESTIMATED DUE TO DISCREPANCIES IN MEETING CERTAIN ANALYTE SPECIFIC QUALITY CONTROL CRITERIA.

(*) DUPLICATE SAMPLE COLLECTED AT LOCATION. HIGHER CONCENTRATIONS OF EACH PARAMETER SHOWN.

BUILDING 45-55 AREA SOIL BORINGS		Location	Sample Date	PCFGW-10 10/10/2012	PCFGW-11 10/10/2012	PCFGW-12 10/10/2012	PCFGW-13 10/10/2012
Arsenic	mg/l			0.0265	0.14	0.398	0.251
Barium	mg/l			0.28	1.74	4.39	2.49
Cadmium	mg/l			0.0008 J	0.0031 J	0.0068 J	0.0076 J
Chromium	mg/l			0.0369	0.446	0.799	2.91
Lead	mg/l			0.0755	0.339	2.87	0.837
Selenium	mg/l			0.0075 U	0.0375 U	0.0375 U	0.0375 U
Silver	mg/l			0.0041 J	0.012 U	0.006 U	0.012 U
Mercury	mg/l			0.00032	0.00091 J	0.0046	0.0101
Total CVOCs	ug/l			0	390	1304.9 J	140
Total VOCs (including CVOCs)	ug/l			0	6238 J	1417.9 J	150.8 J
Total PAHs	ug/l			0.3 J	16.1 J	2135 J	16.2 J
Total SVOCs (including PAHs)	ug/l			0.5 J	95.9 J	12175 J	130.6 J

BUILDING 45-55 AREA SOIL BORINGS		Location	Sample Date	PCFGW-14 10/5/2012	PCFGW-15 10/5/2012	PCFGW-16 9/13/2012	PCFGW-21 9/13/2012
Arsenic	mg/l			0.0207	0.269	0.704	0.475
Barium	mg/l			0.426	3.25	4.71	4.1 J
Cadmium	mg/l			0.00062 J	0.0034 J	0.0036 U	0.0036 UJ
Chromium	mg/l			0.0442	1.26	0.821	3.74 J
Lead	mg/l			0.214	0.194	2.04	2.98 J
Selenium	mg/l			0.0075 U	0.0375 U	0.075 U	0.075 U
Silver	mg/l			0.0012 U	0.006 U	0.012 U	0.0202 J
Mercury	mg/l			0.0015	0.0012 J	0.0169	0.0321
Total CVOCs	ug/l			0	0	12 J	7 J
Total VOCs (including CVOCs)	ug/l			0	52 J	27 J	67.9 J
Total PAHs	ug/l			2 J	4 J	13 J	0
Total SVOCs (including PAHs)	ug/l			101 J	137 J	283 J	87 J

BUILDING 45-55 AREA SOIL BORINGS		Location	Sample Date	PCFGW-107 10/5/2012	PCFGW-108 10/5/2012	PCFGW-110 9/13/2012	PCFGW-112 9/13/2012
Arsenic	mg/l			0.0068 U	0.0894 J	0.311	0.442
Barium	mg/l			0.125	2.78	1.43	2.88
Cadmium	mg/l			0.00036 U	0.007 J	0.005 J	0.0018 U
Chromium	mg/l			0.0103 J	0.457	0.915	0.96
Lead	mg/l			0.0234	0.231	7.4	2.09
Selenium	mg/l			0.0075 U	0.0375 U	0.0375 U	0.0375 U
Silver	mg/l			0.0012 U	0.006 U	0.006 U	0.0754
Mercury	mg/l			0.00007 U	0.00099 J	0.0791	0.0073
Total CVOCs	ug/l			0	0	0	1114
Total VOCs (including CVOCs)	ug/l			71 J	9 J	138 J	1184 J
Total PAHs	ug/l			0	0	5 J	314 J
Total SVOCs (including PAHs)	ug/l			7.6 J	160	18 J	986 J

BUILDING 45-55 AREA MONITORING WELLS		Location	Sample Date	ITMW-24(O) 10/18/2012	ITMW-25(O) 10/12/2012	SB35-1R(O) 10/11/2012	SWMW-9(B) 10/18/2012	SWMW-10(O) 10/12/2012	SWMW-24(O) 10/12/2012	SWMW-25(O) 10/12/2012	SWMW-27(B) 10/11/2012	SWMW-28(O) 10/11/2012	SWMW-44(B) 10/18/2012	SWMW-117(B) 10/17/2012	SWMW-118(B) 10/11/2012
Arsenic	mg/l			0.0181 J	0.0085 J	0.0068 U	0.011 J	0.0609	0.125	0.0068 U	0.0068 U	0.0315	0.0075 J	0.0068 U	0.0068 U
Barium	mg/l			0.0511	0.281	0.043	0.331	0.775	0.153	0.0731	0.477	0.353	0.0934	0.164	0.117
Cadmium	mg/l			0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.0094	0.005 U	0.005 U	0.00036 U	0.0014 J	0.00036 U	0.00036 U	0.00036 U
Chromium	mg/l			0.0097 J	0.0099 J	0.0348	0.0202	0.168	0.0323	0.005 J	0.002 J	0.0894	0.0026 J	0.0011 U	0.0021 J
Lead	mg/l			0.0493	0.0091 J	0.0051 U	0.014 J	1.49	0.0774	0.073	0.0051 U	0.0468	0.0097 J	0.0051 U	0.0051 U
Selenium	mg/l			0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U
Silver	mg/l			0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
Mercury	mg/l			0.00026	0.00007 U	0.00007 U	0.00007 U	0.00022	0.00019 J	0.00018 J	0.00007 U	0.00015 J	0.00007 U	0.00007 U	0.00007 U
TOTAL CVOCs	ug/l			3 J	120	0	2 J	212 J	0	0	65 J	37	350.8 J	0	1 J
TOTAL VOCs (including CVOCs)	ug/l			3 J	998	0	2 J	214 J	0	0	71.9 J	42.9 J	359.6 J	0.5 J	1 J
TOTAL PAHs	ug/l			2.6 J	98 J	0	0	22.6 J	1.7 J	146.4 J	1.5 J	35.5 J	1 J	0	0
TOTAL SVOCs (including PAHs)	ug/l			3.6 J	142 J	0	0.5 J	56.5 J	1.8 J	164.8 J	18.5 J	48.6 J	35.4 J	0	0

LEGEND:

- TAX PARCEL BOUNDARY LINE
- PROPERTY LINE
- PCFGW-** BORING LOCATION EXCEEDANCES (GROUNDWATER COLLECTED)
- SWMW-** GROUNDWATER MONITORING WELL LOCATIONS
- ITMW-**
- SB35-**
- BR-**
- TF-**
- UKW-**

SWMW-**(O) DENOTES OVERBURDEN GROUNDWATER WELL IDENTIFICATION

SWMW-**(B) DENOTES BEDROCK GROUNDWATER WELL IDENTIFICATION

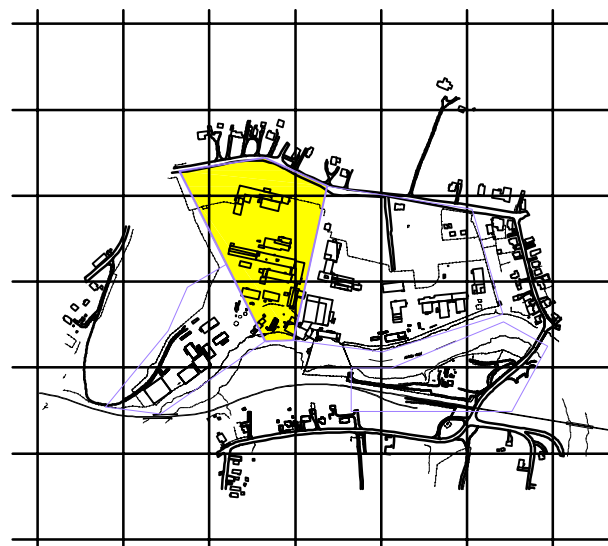
ACRONYM DEFINITIONS:

SWMW SITEWIDE MONITORING WELL

ITMW IT CORPORATION MONITORING WELL

TF TANK FARM MONITORING WELL

UKW UNKNOWN MONITORING WELL



KEY PLAN

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APP'VD
A		02/02/10	JHG	EJA	EJA
NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APP'VD
DRAWN BY	JHG	DATE	02/02/10	SEAL	
CHECKED BY	EJA	DATE	02/02/10		
APPROVED BY	EJA	DATE	02/02/10		
PROJECT MGR.	CFB	DATE	02/02/10		

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LIVERPOOL, NY 13088
(315) 451-9560

JOB
442862
WBS
03000

PROJECT TITLE
2012 SITEWIDE GROUNDWATER SAMPLING EVENT
FORMER TEXACO RESEARCH CENTER
BEACON, NEW YORK

DRAWING TITLE
GROUNDWATER ANALYTICAL DATA SUMMARY MAP:
BLDGS 45/55 AREA -
TAL METALS, VOCs AND SVOCs

SCALE
1" = 50'-0"

DRAWING NO.
FIGURE 8

REV.
A

APPENDIX A

DATA REVIEW SUMMARY REPORT

**DATA REVIEW SUMMARY REPORT
FOR SAMPLES COLLECTED FOR
SITE-WIDE GROUNDWATER SAMPLING
DURING OCTOBER 2012
AT
FORMER TEXACO RESEARCH CENTER
BEACON, NY**

Data Review by: Richard Cheatham
Parsons – Denver, Colorado

1.0 INTRODUCTION

The following data review summary report covers water samples and the associated field quality control (QC) samples collected as part of the sampling associated with the Sitewide Groundwater Sampling at the Former Texaco Research Center in Beacon, NY (Site ID#314004) during the period of October 11-18, 2012. Field program quality control samples included field duplicate samples for waters, as well as equipment blank samples and trip blank samples. All samples were collected by Parsons and analyzed by Lancaster Laboratories, Lancaster, PA (Lancaster) following the procedures outlined in the Generic Quality Assurance Project Plan for the Former Chevron Research Center, dated August 2007 (i.e. project QAPP).

The data submitted by the laboratory has been reviewed and validated, as described below, following the guidelines outlined in the project QAPP to assess the precision, accuracy, representativeness, completeness, and comparability (PARCC) of the analytical data.

Analytical results were reported in the Lancaster Sample Delivery Groups (SDG)/Sample Groups identified on Table 1, with sample groups associated with an SDG# being reported in a NYSDEC ASP Category B deliverables package. Samples were analyzed, as identified on the chain-of-custody record (COC), for one or more of the following types of analyses: target compound list (TCL) volatile organic compounds (VOCs) plus methyl tertiary butyl ether (MTBE), TCL semivolatile organic compounds (SVOCs), target analyte list (TAL) metals, and anions (chloride and sulfate).

The sample data that has been reviewed is summarized on Table 1. The data validation qualifiers and qualification reasons are summarized on Table 2. Field duplicate sample results are summarized on Table 3 of this report. Data use selection decisions for instances where laboratory reported more than one result for a given analyte are summarized on Table 4.

1.1 Sampling, Chain-of-Custody, and Sample Identification

The groundwater samples were collected, properly preserved, shipped under COC, and received at Lancaster within one or two days of sampling. All samples were received intact and in good condition at Lancaster. Water samples for VOCs analysis were not chemically preserved with acid. Sample documentation discrepancies were noted on the laboratory sample receipt log and are summarized below.

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In CBC10, laboratory noted in case narrative that sample VO0424 ("Trip Blank") was received with collection date and time not noted (on COC record).

2.0 DATA REVIEW CRITERIA

Information reviewed and evaluated as part of the validation process included sample results; calibration results; instrument tuning results (for methods SW8260B and SW8270C), laboratory control sample/laboratory control sample duplicate (LCS/LCSD); laboratory duplicate sample results (for methods SW6010B, SW7470A, and EPA 300.0), matrix spike/matrix spike duplicate (MS/MSD) results; parent sample/field duplicate (FD) results; field QC blank results (trip blank and equipment blank; method blanks; "laboratory comments"; and chain-of-custody (COC) forms. The specific data reviewed for each analytical method is listed in the sections below pertaining to each method.

In addition, the summarized sample analysis results for one water sample (SWMW-125(1011212, lab ID 6821809), which was analyzed in CBC10/sample group 1341939, as well as the associated QC sample results and QA/QC data were verified from the "raw" analytical data as part of the raw data verification "spot check".

The data packages were evaluated for deliverables completeness with reference to the project QAPP requirements.

The analyses and findings presented in this report are based on the reviewed information, and whether requirements in the project QAPP were met.

2.1 Accuracy

Accuracy was evaluated using the percent recovery (%R) obtained from LCS, LCSD, MS, and MSD analyses, as well as using the internal standard results and surrogate compound recoveries for each project sample.

2.2 Precision

Analytical precision was evaluated based on the relative percent difference (RPD) of LCS/LCSD results, MS/MSD results, and internal laboratory duplicate results.

Overall precision (of the sampling and analysis process) was evaluated based on the RPD of parent sample/field duplicate results.

2.3 Representativeness

Representativeness expresses the degree to which sample data accurately and precisely represents actual site conditions. Representativeness has been evaluated by:

- Comparing the COC procedures to those described in the project QAPP;
- Comparing actual analytical procedures to those described in the project QAPP;
- Evaluating calibration and calibration verification information;
- Evaluating instrument tuning information;
- Evaluating analytical holding times;
- Examining trip blanks for contamination of, or cross-contamination of, samples during sample handling and shipment;

- Examining equipment blanks for contamination of, or cross-contamination of, samples during sample collection;
- Examining laboratory blanks for cross contamination of samples during sample preparation and analysis; and,
- Evaluating field duplicate sample results.

2.4 Completeness (laboratory completeness)

Laboratory completeness has been evaluated by comparing the total number of samples collected with the total number of samples with valid analytical data, calculating a “percent completeness” value, and comparing the “percent completeness” with the project QAPP criterion of 90% for each type of analysis.

2.5 Comparability

Comparability has been evaluated by:

- Evaluating the sample analysis methods used; and,
- Confirming the use, by the laboratory, of standard reporting units and reporting formats, including for reporting of QC data.

3.0 DELIVERABLES (DATA PACKAGE) COMPLETENESS AND COMPLIANCE

Deliverables Completeness is considered acceptable. The data for the groundwater samples were reported in NYSDEC ASP Category B (type) deliverables packages identified as SDGs CBC10, CBC12, CBC13, CBC14, and CBC15. These packages contained all sample COC forms, case narratives including sample/analysis summary forms, QA/QC summaries with supporting documentation, relevant calibration data, instrument and method performance data, documentation of the laboratories ability to attain the method detection limits for target analytes in required matrices, data report forms with examples of calculations, and raw data.

Deliverables Compliance is considered acceptable. The data was produced and reported consistent with the project QAPP and the requested data package deliverables, protocol-required QA/QC criteria were met, and problems encountered during the analytical process and actions taken to correct the problems were reported in the data packages. NYSDEC ASP Category B data deliverables packages were requested and provided for all Baseline samples.

4.0 PARCC ASSESSMENT SUMMARY

4.1 Accuracy

Accuracy for groundwater sample analyses is considered acceptable for all analyses, with the exception of certain sample results associated with a non-compliant QC results as discussed in Section 5.0. Laboratory reported in case narrative that 3-Methylphenol and 4-Methylphenol cannot be resolved under the chromatographic conditions used for sample analysis; therefore, the reported 4-Methylphenol value is a combination of results from both compounds. Also laboratory reported that N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine; therefore, the reported result for N-nitrosodiphenylamine represents the combined total of both compounds.

Evaluation results are as follows:

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- Surrogate compound recoveries (%R) for samples were within applicable (laboratory) control limits (and also within Project QAPP control limits for water samples), with exceptions discussed in Section 5.0.
- LCS recoveries (%R) were within applicable (laboratory) control limits (and also within QAPP control limits for water samples), with exceptions discussed in Section 5.0.
- MS/MSD recoveries (%R) were within applicable (laboratory) control limits (and also within Project QAPP control limits for water samples), with exceptions discussed in Section 5.0.
- Internal standard results were within applicable (laboratory) control limits (and also within Project QAPP control limits for water samples).

4.2 Precision

Analytical Precision is considered acceptable for all groundwater sample analyses. Evaluation results are as follows:

- MS/MSD RPD values were within applicable (laboratory) control limits (and also within project QAPP control limits for water samples), with exceptions discussed in Section 5.0.
- LCS/LCSD RPD value were within applicable (laboratory) control limits (and also within Project QAPP control limits for water samples), with exceptions discussed in Section 5.0.
- Laboratory duplicate RPD values were within applicable (laboratory) control limits (and also within project QAPP control limits for water samples) for Mercury and metals analyses, with exceptions discussed in Section 5.0.

Overall Precision is considered acceptable for groundwater sample analyses. Evaluation results are as follows:

- Sample results are not qualified based on field duplicate RPD results; they are advisory only. The project QAPP does not include a criterion for field duplicate RPD.
- Analysis results for the field duplicate pairs are summarized on Table 3.

4.3 Representativeness

Representativeness is considered acceptable for groundwater sample analyses. Based on associated blank contamination (method blank or equipment blank), the associated sample results were qualified as undetected (“U”) and are considered as possible false-positive results with the low analyte concentration being attributed to sample contamination. Evaluation results are as follows:

- Analytical holding times, as specified in the project QAPP were met for all sample analyses.
- The method blanks associated with each sample analysis were generally free of target analytes at a reportable level, with exceptions discussed in Section 5.0.
- The trip blanks associated with the VOCs sample analysis were free of any target analyte at a reportable level.

PARSONS

- The equipment blanks associated with the sample analyses were generally free of target analytes at a reportable level, with exceptions discussed in Section 5.0.
- The samples were analyzed using the methods specified in the Project QAPP.
- Instrument tuning was acceptable for all sample analyses
- Instrument calibration and continuing calibration verification were compliant, with the exception of the minor exceptions discussed in Section 5.0.
- Certain samples were analyzed at dilution to provide results with all target analyte concentrations within the calibration range; in these instances, all data sets and sample results were reported by the laboratory. However, only one set of results was reported by laboratory in on sample result report forms in analytical report. Data selection decisions based on this data review are summarized on Table 4.

4.3 Completeness

Completeness is considered acceptable for all groundwater sample analyses. Sample results are considered as usable for project purposes.

4.4 Comparability

Comparability is considered acceptable for all groundwater sample analyses. The samples were analyzed using the methods specified in the project QAPP and data, including QC results, were reported using industry-standard reporting units and reporting formats

5.0 DATA REVIEW RESULTS

5.1 Method SW8260B VOCs Analysis Data

The following items were reviewed for compliancy in the analysis by Lancaster using Method SW8260B and following NYSDEC Method 95-1 (10/95):

- Custody documentation;
- Sample preservation;
- Analytical holding times;
- Initial calibration;
- Instrument performance criteria;
- Initial calibration verification (ICV);
- Continuing calibration verification (CCV);
- Internal standard area counts and retention times;
- Surrogate recoveries;
- Method blank results;
- MS/MSD precision and accuracy;
- LCS/LCSD precision and accuracy;
- Laboratory method blank contamination;
- Field duplicate precision;
- Field QC blank samples (trip blank, equipment blank) contamination;

- Sample result verification and identification;
- Analysis sequence;
- Quantitation limits;
- Sample quantitation; and,
- Data completeness.

For sample group 1341939, SDG CBC10, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of LCS/LCSD results, CCV results, and sample quantitation. An MS/MSD was not analysed with this sample group. Trip blank "Trip Blank" was analyzed in this sample group. All samples were preserved with hydrochloric acid (HCl) to pH<2 as measured by laboratory at time of analysis. Field duplicate sample pair SWMW-115(101112)/SWMW-1115(101112) was analyzed in this sample group; results are summarized on Table 3.

For sample group 1342157, SDG CBC12, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of MS/MSD results, and sample quantitation. Equipment blank EB-1(101212) was analyzed in this sample group. Trip blank "Trip Blank" was analyzed in this sample group. Sample SWMW-113(101212) (lab ID 6822988) was used for MS/MSD analyses. All samples were preserved with hydrochloric acid (HCl) to pH<2 as measured by laboratory at time of analysis.

For sample group 1343539, SDG CBC12, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of sample quantitation. An MS/MSD was not analyzed with this sample group. Trip blank "Trip Blank" was analyzed in this sample group. All samples were preserved with hydrochloric acid (HCl) to pH<2 as measured by laboratory at time of analysis.

For sample group 1342893, SDG CBC13, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of MS/MSD results, CCV results, and sample quantitation. Sample ITMW-6(101612) (lab ID 6826956) was used for MS/MSD analyses. Trip blank "Trip Blank" was analyzed in this sample group. Equipment blank EB-2(101612) was analyzed with this sample group. Field duplicate sample pair SWMW-158(101612)/SWMW-58(101612) was analyzed in this sample group; results are summarized on Table 3. All samples were preserved with hydrochloric acid (HCl) to pH<2 as measured by laboratory at time of analysis.

For sample group 1343207, SDG CBC14, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of MS/MSD results and sample quantitation. Sample SWMW-110(101712) (lab ID 6828408) was used for MS/MSD analyses. Trip blank "Trip Blank" was analyzed in this sample group. Equipment blank EB-3(101712) was analyzed with this sample group. Field duplicate sample pair SWMW-1122(101712)/SWMW-122(101712) was analyzed in this sample group; results are summarized on Table 3. All samples were preserved with hydrochloric acid (HCl) to pH<2 as measured by laboratory at time of analysis.

For sample group 1343541, SDG CBC15, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of MS/MSD results.

Sample SWMW-60(101812) (lab ID 6830382) was used for MS/MSD analyses. Equipment blank EB-4(101812) was analyzed with this sample group. Field duplicate sample pair SWMW-171(101812)/SWMW-71(101812) was analyzed in this sample group; results are summarized on Table 3. All samples were preserved with hydrochloric acid (HCl) to pH<2 as measured by laboratory at time of analysis.

LCS/LCSD Precision and Accuracy

LCS/LCD precision (RPDs) and accuracy (%Rs) measurements were within QC acceptance limits and considered acceptable, with the exceptions noted below. Non-detect sample results associated with a non-compliant LCS/LCSD result exhibiting high bias (high %R) were not qualified.

SDG/ Sample Group	LCS ID/ QC Batch	Analyte	LCS/ LCS %R	QC Limit	LCS/ LCSD RPD	QC Limit	Associated Samples	Data Qualifier
CBC10/ 1341939	LCSL48/ L122901AA	1,1-Dichloroethene	131/130	76-124			6821810 6821811 6821812 6821813 6821814 6821815 6821816 6821817 6821818 6121819 6821820 6821821 6821824 6821825 6821827	None, ND
CBC10/ 1341939	LCSL48/ L122901AA	1,1-Dichloroethene	131/130	76-124			6821809 6821826	J

MS/MSD Precision and Accuracy

MS/MSD precision (RPDs) and accuracy (%Rs) measurements were within QC acceptance limits and considered acceptable, with the exceptions noted below. Sample result qualification was not required if non-compliant MS/MSD recoveries indicate potential high bias of results and associated sample result was reported as undetected (“U”) or if sample concentration is greater than four times the spike amount. Unless all MS/MSD were similarly non-compliant for a given analyte; any non-compliant MS/MSD results were considered to pertain only to the sample used for MS/MSD.

SDG/ Sample Group	Sample ID	Lab Sample ID	Analyte	MS/MSD %R	QC Limit	Affected Samples	Data Qualifier
CBC12/ 1342157	SWMW- 113(101212)	6822988	Acetone	161/157	33-159	6822988	None, ND
CBC13/1342893	ITMW-6(101612)	6826956	Acetone	199/202	33-159	6826956	None, ND
CBC14/1343207	SWMU- 110(101712)	6828408	1,1- Dichloroethene	136/156	85-142	6828408	J
CBC14/1343207	SWMU- 110(101712)	6828408	cis-1,2- Dichloroethene	117/148	85-125	6828408	J
CBC14/1343207	SWMU- 110(101712)	6828408	37 Other VOCs	MSD similarly elevated		6288408	None, ND
CBC15/1343541	SWMW- 60(101812)	6830382	Acetone	191/168	33-159	6380382	None, ND

CCV Results

CCV compound results (all target analytes) were compliant with a maximum percent difference (%D) of $\pm 20\%$, with the exceptions shown below. Non-detect sample results associated with a non-compliant CCV exhibiting high bias (high %D) were not qualified.

SDG/Sample Group	CCV File ID	Target Analyte	%D	Samples Affected	Data Qualifier
CBC10/1341939	LC16Cc01.D	Methyl tertiary butyl ether	-26	6821822	UJ
				6821823	UJ
CBC10/1341939	LC16Cc01.D	Ethyl t-butyl ether	-23	6821822	UJ
				6821823	UJ
CBC10/1341939	LC16Cc01.D	Trichloroethene	+28	6821822	None, ND
				6821823	None, ND
CBC10/1341939	LC16Cc01.D	4-Methyl-2- pentanone	+25	6821822	J
				6821823	None, ND
CBC10/1341939	LC16Cc01.D	2-Hexanone	+22	6821822	J
				6821823	None, ND
CBC13/1342893	WC22C01.D	4-Methyl-2- pentanone	+21	None, all ND	None, ND

Sample Quantitation (Calibration range exceedance)

Sample results were within the calibration range with the exceptions shown below. Results exceeding the calibration curve were flagged “E” by the laboratory and have been qualified as estimated (“J”); these samples were then analyzed at higher dilution with both sets of results reported. Data selection decisions for samples for which multiple results were reported by the laboratory are summarized on Table 4.

SDG/ Sample Group	Lab Sample ID	QC Batch/ Dilution Factor	Analyte	Sample Conc. (µg/L)	Lab Flag	Data Qualifier
CBC10/1341939	6821809	L122901AA/ 1.0	Trichloroethene	350	E	J
CBC10/1341939	6821809	L122901AA/ 1.0	Chlorobenzene	300	E	J
CBC12/1342157	6822984	T122912AA/ 1.0	Benzene	570	E	J
CBC12/1343539	6830364	Y122971AA/ 1.0	Chlorobenzene	670	E	J
CBC13/1342893	6826946	W122931AA/ 1.0	Trichloroethene	390	E	J
CBC13/1342893	6826949	W122931AA/ 1.0	cis-1,2-Dichloroethene	380	E	J
CBC13/1342893	6826949	W122931AA/ 1.0	1,1,1-Trichloroethane	1500	E	J
CBC13/1342893	6826954	W122931AA/ 1.0	Trichloroethene	710	E	J
CBC13/1342893	6826961	W122931AA/ 1.0	Trichloroethene	360	E	J
CBC13/1342893	6826964	W122931AA/ 1.0	cis-1,2Dichloroethene	960	E	J
CBC13/1342893	6826964	W122931AA/ 1.0	Trichloroethene	390	E	J
CBC14/1343207	6828415	Y122971AA	Trichloroethene	310	E	J

5.2 Method SW8270C SVOCs Analysis Data

The following items were reviewed for compliancy in the analysis by Lancaster using Method Sw8270C:

- Custody documentation;
- Sample preservation;
- Holding times;
- Initial calibration;
- GC/MS instrument performance criteria;
- ICV;
- CCV;
- Internal standard area counts and retention times;

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- Method blank;
- Surrogate recoveries;
- MS/MSD precision and accuracy;
- LCS/LCSD precision and accuracy;
- Laboratory method blank contamination;
- Field duplicate precision;
- Field QC blank samples (equipment blank) contamination;
- Sample result verification and identification;
- Analysis sequence;
- Quantitation limits;
- Sample quantitation; and,
- Data completeness.

For sample group 1341939, SDG CBC73, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of surrogate results, LCS/LCSD results, CCV results, and sample quantitation. Field duplicate sample pair SWMW-115(101112)/SWMW1115(101112) was analyzed in this sample group; results are summarized on Table 3.

For sample group 1342157, SDG CBC12, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of MS/MSD results. Equipment blank EB-1(101212) was analyzed in this sample group. Sample SWMW-113(101212) (lab ID 6822988) was used for MS/MSD analyses.

For sample group 1343539, SDG CBC12, these items were considered compliant and acceptable in accordance with the validation protocols. An MS/MSD was not analyzed with this sample group.

For sample group 1342893, SDG CBC13, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of equipment blank results, and MS/MSD results. Sample ITMW-6(101612) (lab ID 6826956) was used for MS/MSD analyses. Equipment blank EB-2(101612) was analyzed with this sample group. Field duplicate sample pair SWMW-158(101612)/SWMW-58(101612) was analyzed in this sample group; results are summarized on Table 3.

For sample group 1343207, SDG CBC14, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of MS/MSD results. Sample SWMW-110(101712) (lab ID 6828408) was used for MS/MSD analyses. Equipment blank EB-3(101712) was analyzed with this sample group. Field duplicate sample pair SWMW-1122(101712)/SWMW-122(101712) was analyzed in this sample group; results are summarized on Table 3.

For sample group 1343541, SDG CBC15, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of MS/MSD results and sample quantitation. Sample SWMW-60(101812) (lab ID 6830382) was used for MS/MSD analyses. Equipment blank EB-4(101812) was analyzed with this sample group. Field duplicate

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sample pair SWMW-171(101812)/SWMW-71(101812) was analyzed in this sample group; results are summarized on Table 3.

LCS/LCSD Precision and Accuracy

LCS/LCD precision (RPDs) and accuracy (%Rs) measurements were within QC acceptance limits and considered acceptable, with the exceptions noted below. Non-detect sample results associated with a non-compliant LCS/LCSD result exhibiting high bias (high %R) were not qualified.

SDG/ Sample Group	LCS ID/ QC batch	Analyte	LCS/ LCS D %R	QC Limit	LCS/ LCSD RPD	QC Limit	Associated Samples	Data Qualifier
CBC10/ 1341939	289WGLCS/ 12289WAG026	1,2-Dichlorobenzene	72/68	73-103			6821809	J
							6821809RE	J
							6821811	J
							6821812	J
							6821813	J
							8621814	J
							6821816	UJ
							8621817	J
							6821818	J
							6821819	UJ
							6821820	UJ
							6821821	UJ
							6821823	J
							6821824	UJ
							8621825	UJ
							6821826	J
							6821827	J
CBC10/ 1341939	289WGLCS/ 12289WAG026	Hexachlorocyclopentadiene	61/33	36-118	60	30	6821809	All UJ
							6821809RE	
							6821811	
							6821812	
							6821813	
							8621814	
							6821816	
							8621817	
							6821818	
							6821819	
							6821820	
							6821821	
							6821823	
							6821824	
							8621825	
							6821826	
							6821827	

SDG/ Sample Group	LCS ID/ QC batch	Analyte	LCS/ LCS D %R	QC Limit	LCS/ LCSD RPD	QC Limit	Associated Samples	Data Qualifier
CBC10/ 1341939	289WGLCS/ 12289WAG026	2,4-Dinitrophenol	108/72	52-131	39	30	6821809 6821809RE 6821811 6821812 6821813 8621814 6821816 8621817 6821818 6821819 6821820 6821821 6821823 6821824 8621825 6821826 6821827	All UJ
CBC10/ 1341939	289WGLCS/ 12289WAG026	Chrysene	85/71	76-116			6821809 6821809RE 6821811 6821812 6821813 8621814 6821816 8621817 6821818 6821819 6821820 6821821 6821823 6821824 8621825 6821826 6821827	UJ UJ UJ UJ UJ UJ J UJ UJ UJ UJ UJ UJ UJ UJ UJ UJ J

MS/MSD Precision and Accuracy

MS/MSD precision (RPDs) and accuracy (%Rs) measurements were within QC acceptance limits and considered acceptable, with the exceptions noted below. Non-detect sample results associated with a non-compliant MS/MSD result exhibiting high bias (high %R) were not qualified. Unless all MS/MSD were similarly non-compliant for a given analyte; any non-compliant MS/MSD results were considered to pertain only to the sample used for MS/MSD.

SDG/ Sample Group	MS/MSD Lab Sample ID	Analyte	MS/MSD %R	QC Limit	MS/MSD RPD	QC Limit	Affected Samples	Data Qualifier
CBC12/1342157	6822988	4-Chloroaniline	48/68	43-116	34	30	6822988	UJ
CBC13/1342893	6826956	bis(2-Chloroethyl)ether	73/68	78-115			6826956	UJ
CBC13/1342893	6826956	2,2'-oxybis(1-Chloropropane)	67/66	68-119			6826956	None, marginal exceedance
CBC13/1342893	6826956	bis(2-Chloroethyl)methane	79/78	80-117			6826956	None, marginal exceedance
CBC13/1342893	6826956	bis(2-Chloroethyl)phthalate	71/83	72-122			6826956	None, marginal exceedance
CBC13/1342893	6826956	Chrysene	76/80	78-116			6826956	None, marginal exceedance
CBC14/1343207	6828408	2,2'-oxybis(1-Chloropropane)	67/70	68-119			6828408	None, marginal exceedance
CBC15/1343541	6830382	4-Nitrophenol	52/36	10-109	36	30	6830382	UJ

Surrogate Compound Recovery

Surrogate compound recoveries were compliant, with the exceptions shown below. Data was not qualified unless two or more of the three surrogate compounds for a given analysis fraction (base-neutral or acid) exhibited non-compliant recovery. Evaluation results are shown below.

In sample group 1341939, CBC10, samples 6821811 and 6821813 were re-extracted outside of holding time to confirm surrogate recovery matrix effect; both sets of data were reported and data use selection decisions are summarized on Table 4.

SDG/ Sample Group	Lab Sample ID	QC Batch	Surrogate (%R)	QC limit	Fraction Affected	Analytes Affected	Data Qualifier
CBC10/1341939	6821811	12289WAG026	2-Fluorophenol (4%) Phenol-d6 (2%)	10-74 10-74	Acid (phenols)	All Phenols	UJ
CBC10/1341939	6821811	12292WAD026	2-Fluorophenol (5%) Phenol-d6 (2%)	10-74 10-74	Acid (phenols)	All Phenols	UJ
CBC10/1341939	6821813	12289WAG026	2-Fluorophenol (5%) Phenol-d6 (2%)	10-74 10-74	Acid (phenols)	All Phenols	UJ
CBC10/1341939	6821813	12292WAD026	2-Fluorophenol (6%) Phenol-d6 (3%)	10-74 10-74	Acid (phenols)	All Phenols	UJ

Equipment Contamination

Sample results less than five times (5x) the equipment blank concentration were qualified as undetected ("U") and are considered to be potential false-positive results. Sample results less than the reporting limit are qualified as "U" at the reporting limit.

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SDG/ Sample Group	Equipment Blank ID	Analyte	Blank Conc. (µg/L)	Affected Samples	Sample Conc. (µg/L)	EBx 5Xx DF	Lab Flag	Data Qualifier
CBC13/134 2893	EB-2(101612)	Naphthalene	0.2	6826949	0.2	1.0	J	0.5U
				6824955	0.2	1.0	J	0.5U
				6826960	50	1.0		None, >5x
				6826962	0.8	1.0		U

CCV Results

CCV compound results (all target analytes) were compliant with a maximum percent difference (%D) of $\pm 20\%$, with the exceptions shown below. Non-detect sample results associated with a non-compliant CCV exhibiting high bias (high %D) were not qualified.

SDG/Sample Group	CCV File ID	Target Analyte	%D	Samples Affected	Data Qualifier
CBC10/1341939	ej0741.d	Benzoic acid	+24	None, ND	None
CBC10/1341939	ej0741.d	2,4-Dinitrophenol	+40	None, ND	None
CBC10/1341939	ej0741.d	4,6-Dinitro-2-methylphenol	+28	None, ND	None
CBC10/1341939	hj0791.d	2-Chloronaphthalene	+38	None, ND	None

Sample Quantitation (Calibration range exceedance)

Sample results were within the calibration range with the exceptions shown below. Results exceeding the calibration curve were flagged “E” by the laboratory and have been qualified as estimated (“J”); these samples were then analyzed at dilution. Data selection decisions for samples for which multiple results were reported by the laboratory are summarized on Table 4.

SDG/ Sample Group	Lab Sample ID	Dilution Factor	Analyte	Sample Conc. (µg/L)	Lab Flag	Data Qualifier
CBC10/1341939	6821809	1.0	1,2-Dichlorobenzene	310	E	J
CBC10/1341939	6821815	1.0	bis(2-ethylhexyl)phthalate	250	E	J
CBC15/1343541	6830368	1.0	2-Methylnaphthalene	130	E	J

Sample Result Verification and Identification

Laboratory reported in case narratives and on sample result report forms that 3-Methylphenol and 4-Methylphenol cannot be resolved under the chromatographic conditions used for sample analysis; therefore, the reported 4-Methylphenol value is a combination of results from both compounds. Laboratory reported that N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine; therefore, the reported result for N-nitrosodiphenylamine represents the combined total of both compounds. Laboratory reported that bis(2-chloroisopropyl) ether (CAS#39638-32-9) and 2,2'-oxybis(1-chloropropane) (CAS #108-60-1) cannot be separated chromatographically and therefore the reported result represents the combined total of both compounds.

5.3 Method SW7471A Mercury Analysis Data

The following items were reviewed for compliancy in the Mercury analysis by Lancaster using Method SW7471A:

- Custody documentation;
- Sample preservation;
- Holding times;
- Initial calibration;
- Continuing calibration verifications;
- Initial and continuing calibration blanks;
- Low-level check standard;
- Method (preparation) blanks;
- Continuing calibration blanks;
- MS/MSD precision and accuracy;
- Laboratory duplicate precision;
- LCS accuracy;
- Field duplicate precision;
- Sample result verification and identification;
- Analysis sequence;
- Quantitation limits; and,
- Data completeness.

For sample group 1341939, SDG CBC73, these items were considered compliant and acceptable in accordance with the validation protocols. Sample SWMW-115(10111210) was used for MS analyses and for laboratory duplicate analysis. Field duplicate sample pair SWMW-115(101112)/SWMW1115(101112) was analyzed in this sample group; results are summarized on Table 3.

For sample group 1342157, SDG CBC12, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of LCS/LCSD results, CCV results, and sample quantitation. Equipment blank EB-1(101212) was analyzed in this sample group. Sample SWMW-113(101212) (lab ID 6822988) was used for MS/MSD analyses and laboratory duplicate analysis.

For sample group 1343539, SDG CBC12, these items were considered compliant and acceptable in accordance with the validation protocols. . Sample SWMW-44(101812) (lab ID 6830360) was used for MS/MSD analyses and laboratory duplicate analysis.

For sample group 1342893, SDG CBC13, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of MS/MSD results. Sample ITMW-6(101612) (lab ID 6826956) was used for MS/MSD analyses and for laboratory duplicate analysis. Equipment blank EB-2(101612) was analyzed with this sample group. Field

duplicate sample pair SWMW-158(101612)/SWMW-58(101612) was analyzed in this sample group; results are summarized on Table 3.

For sample group 1343207, SDG CBC14, these items were considered compliant and acceptable in accordance with the validation protocols. Sample SWMW-110(101712) (lab ID 6828408) was used for MS/MSD analyses and for laboratory duplicate analysis. Equipment blank EB-3(101712) was analyzed with this sample group. Field duplicate sample pair SWMW-1122(101712)/SWMW-122(101712) was analyzed in this sample group; results are summarized on Table 3.

For sample group 1343541, SDG CBC15, these items were considered compliant and acceptable in accordance with the validation protocols. Sample SWMW-60(101812) (lab ID 6830382) was used for MS/MSD analyses and for laboratory duplicate analysis. Equipment blank EB-4(101812) was analyzed with this sample group. Field duplicate sample pair SWMW-171(101812)/SWMW-71(101812) was analyzed in this sample group; results are summarized on Table 3.

MS/MSD Precision and Accuracy

MS/MSD precision (relative percent differences; RPDs) and accuracy (percent recoveries; %Rs) measurements were within QC acceptance limits and considered acceptable, with the exceptions noted below. Unless all MS/MSD were similarly non-compliant for a given analyte; any non-compliant MS/MSD results were considered to pertain only to the sample used for MS/MSD. Non-detect sample results associated with a non-compliant MS or MSD exhibiting high bias (high %R) are not required to be qualified.

SDG/ Sample Group	Sample ID	Analyte	MS/MSD %R	QC Limit	MS/MSD %RPD	QC Limit	Affected Samples	Data Qualifier
CBC13/1342893	6826956	Mercury	54/105	80-120	21	20	6826956	J

5.4 Method SW6010B Metals Analysis

The following items were reviewed for compliancy in the metals analysis by Lancaster using Method SW6010A:

- Custody documentation;
- Sample preservation;
- Holding times;
- Initial calibration;
- Continuing calibration verifications;
- Initial and continuing calibration blanks;
- Low-level check standard'
- Method (preparation) blanks
- Continuing calibration blank;
- MS/MSD accuracy and precision;
- Laboratory duplicate precision;
- LCS accuracy;

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- Interference check sample (ICS);
- Serial dilution results;
- Post-digestion spike results;
- Field duplicate sample analyses;
- Sample result verification and identification;
- Analysis sequence;
- Quantitation limits; and,
- Data completeness.

For sample group 1341939, SDG CBC10, these items were considered compliant and acceptable in accordance with the validation protocols. Field duplicate sample pair SWMW-115(101112)/SWMW1115(101112) was analyzed in this sample group; results are summarized on Table 3.

For sample group 1342157, SDG CBC12, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of equipment blank results and MS/MSD results. Equipment blank EB-1(101212) was analyzed in this sample group. Sample SWMW-113(101212) (lab ID 6822988) was used for MS/MSD analyses and for laboratory duplicate analysis.

For sample group 1343539, SDG CBC12, these items were considered compliant and acceptable in accordance with the validation protocols. Sample SWMW-44(101812) (lab ID 6830360) was used for MS/MSD analyses.

For sample group 1342893, SDG CBC13, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of equipment blank results, method blank results, and MS/MSD results. Sample ITMW-6(101612) (lab ID 6826956) was used for MS/MSD analyses and for laboratory duplicate analysis. Equipment blank EB-2(101612) was analyzed with this sample group. Field duplicate sample pair SWMW-158(101612)/SWMW-58(101612) was analyzed in this sample group; results are summarized on Table 3.

For sample group 1343207, SDG CBC14, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of equipment blank results and MS/MSD results. Sample SWMW-110(101712) (lab ID 6828408) was used for MS/MSD analyses and for laboratory duplicate analysis. Equipment blank EB-3(101712) was analyzed with this sample group. Field duplicate sample pair SWMW-1122(101712)/SWMW-122(101712) was analyzed in this sample group; results are summarized on Table 3.

For sample group 1343541, SDG CBC15, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of MS/MSD results. Sample SWMW-60(101812) (lab ID 6830382) was used for MS/MSD analyses and for laboratory duplicate analysis. Equipment blank EB-4(101812) was analyzed with this sample group. Field duplicate sample pair SWMW-171(101812)/SWMW-71(101812) was analyzed in this sample group; results are summarized on Table 3.

Method Blank Contamination

Sample results less than 5x the method blank concentration were qualified as undetected ("U") [(times the sample dilution factor (DF))] and are considered to be potential false-positive results. Evaluation results are shown below.

SDG/ Sample Group/ QC Batch	Method Blank ID	Analyte	Blank Conc. (µg/L)	Affected Samples	Sample Conc. (mg/L)	Sample DF	MBx5 XxDF (mg/L)	Lab Flag	Data Qualifier
CBC12/ 1342157 P20995A	P20995AB	Cadmium	0.360 (0.00036 mg/L)	6822983 6822985 6822986 6822988 6822993	0.0094 0.0017 0.00093 0.00043 0.00088	1 1 1 1 1	0.0018		None, >5x 0.005U 0.005U 0.005U 0.005U
CBC12/ 1342157 P20995A	P20995AB	Thallium	6.830 (0.00683 mg/L)	6822984 6822985 6822986 6822888 6822993	0.0096J 0.0076J 0.0108J 0.0091J 0.0077J	1 1 1 1 1	0.0349		0.03U 0.03U 0.03U 0.03U 0.03U
CBC13/134 2983/P2920 5C	P29205CB	Nickel	1.620 (0.00162 mg/L)	6826960	0.0178	1	0.0081		None, >5x
CBC13/134 2983/P2920 5C	P29205CB	Thallium	6.290 (0.00629 mg/L)	None, ND					None
CBC13/134 2983/P2910 5A	P29105AB	Cobalt	0.830 (0.0083 mg/L)	6826946 6826947 6826948 6826949 6826950 6826951 6826952 6896953 6826954 6826955 6826956 6926961 6826962 6826963	0.0012 0.0011 0.0044 0.0014 0.0013 0.00075 0.0029 0.0016 0.0014 0.0052 0.0028 0.0012 0.007 0.007	1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.0415		0.005U 0.005U 0.005U 0.005U 0.005U 0.005U 0.005U 0.005U 0.005U 0.005U 0.005U 0.005U 0.005U 0.005U
CBC13/134 2983/P2910 5A	P29105AB	Thallium	7.170 (0.00717 mg/L)	6826946 6826947 6826948 6826949 6826950 6826951 6826952 6896953 6826954 6826955 6826956 6926961 6826962 6826963 6826964	0.0075J 0.007J 0.0073J 0.0094J 0.0077J 0.0069J 0.0067J 0.0074J 0.0079J 0.0072J 0.009J 0.008J 0.0082J 0.0083J 0.0084J	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.0358 5		0.03U 0.03U 0.03U 0.03U 0.03U 0.03U 0.03U 0.03U 0.03U 0.03U 0.03U 0.03U 0.03U 0.03U 0.03U

PARSONS

Equipment Blank Contamination

Sample results less than 5x the equipment blank concentration were qualified as undetected (“U”) [(times the sample dilution factor (DF))and are considered to be potential false-positive results. Evaluation results are shown below.

SDG/ Sample Group	Equipment Blank ID	Analyte	Blank Conc. (mg/L)	Affected Samples	Sample Conc. (mg/L)	Sam ple DF	EBx5X xDF	Lab Flag	Data Qualifier
CBC12/ 1342157	EB-1(101212)	Cadmium	0.00043J	6822983 6822985 6822986 6822988 6822993	0.0094 0.0017 0.00093 0.00043 0.00088	1 1 1 1 1	0.00215		None, >5x 0.005U 0.005U 0.005U 0.005U
CBC12/ 1342157	EB-1(101212)	Thallium	0.0072J	6822984 6822985 6822986 6822888 6822993	0.0096J 0.0076J 0.0108J 0.0091J 0.0077J	1 1 1 1 1	0.0360		0.03U 0.03U 0.03U 0.03U 0.03U
CBC12/ 1343539	EB-1(101212)	Cadmium	0.00043J	None, all ND			0.00215		None
CBC12/ 1343539	EB-1(101212)	Thallium	0.0072J	6830356 6830358 6830359 6830360 6830361 6830364 6800365	0.0061 0.0065 0.0069 0.0058 0.0061 0.0069 0.0061	1 1 1 1 1 1 1	0.0360		0.03U 0.03U 0.03U 0.03U 0.03U 0.03U 0.03U
CBC13/134 2893	EB-2(101612)	Thallium	0.0066J	6826946 6826947 6826948 6826949 6826950 6826951 6826952 6896953 6826954 6826955 6826956 6926961 6826962 6826963 6826964	0.0075J 0.007J 0.0073J 0.0094J 0.0077J 0.0069J 0.0067J 0.0074J 0.0079J 0.0072J 0.009J 0.008J 0.0082J 0.0083J 0.0084J	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.033		0.03U 0.03U 0.03U 0.03U 0.03U 0.03U 0.03U 0.03U 0.03U 0.03U 0.03U 0.03U 0.03U 0.03U 0.03U
CBC14/134 3207	EB-3(101712)	Barium	0.006	None, all >5x			0.030		None
CBC14/134 3207	EB-3(101712)	Manganese	0.0011J	None, all >5x			0.0055		None
CBC14/134 3207	EB-3(101712)	Sodium	0.167J	None, all >5x			0.835		None

MS/MSD Precision and Accuracy

MS/MSD precision (relative percent differences; RPDs) and accuracy (percent recoveries; %Rs) measurements were within QC acceptance limits and considered acceptable, with the

PARSONS

exceptions noted below. Unless all MS/MSD were similarly non-compliant for a given analyte; any non-compliant MS/MSD results were considered to pertain only to the sample used for MS/MSD. MS/MSD results are not reliable or meaningful, and were not evaluated, if sample concentration was greater than four times (4x) the spike amount.

SDG/ Sample Group	Lab Sample ID	Analyte	MS/MSD %R	QC Limit	MS/MSD %RPD	QC Limit	Affected Samples	Data Qualifier
CBC12/1342157	6822988	Aluminum	151/168	75-125			6822988	J
CBC12/1342157	6822988	Iron	139/178	75-125			6822988	J
CBC12/1342157	6822988	Potassium	124/128	75-125			6822988	J
CBC13/1342893	6826956	Aluminum	131/219	75-125	24	20	6826956	J
CBC13/1342893	6826956	Sodium	163/47	75-125	52	20	6826956	J
CBC14/1343207	6828408/	Iron	65/61	75-125			6828408	J
CBC14/1343207	6828408	Zinc	15/29	75-125			6828408	J
CBC15/1343541	6830382	Iron	373/458	75-125			6830382	J
CBC15/1343541	6830382	Selenium	67/64	75-125			6830382	UJ

5.5 Method E300.0 Anions Analysis Data

The following items were reviewed for compliancy in the analysis by Lancaster using Method EPA 300.0:

- Custody documentation;
- Analytical holding time;
- MS/MSD accuracy and precision;
- LCS/LCSD precision and accuracy;
- Laboratory duplicate precision
- Laboratory method blank contamination;
- Initial calibration;
- Initial calibration blank;
- ICV results;
- Continuing calibration blank;
- CCV results;
- Sample result verification and identification;
- Field duplicate sample analyses;
- Quantitation limits; and
- Data completeness.

For sample group 1341939, SDG CBC10, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of MS/MSD results. Samples SWMW-125(101112) and SWMW-1115(101112) were used for MS analyses and for laboratory duplicate analysis. Field duplicate sample pair SWMW-115(101112)/SWMW1115 (101112) was analyzed in this sample group; results are summarized on Table 3.

For sample group 1342157, SDG CBC12, these items were considered compliant and acceptable in accordance with the validation protocols. Equipment blank EB-1(101212) was

PARSONS

analyzed in this sample group. Sample SWMW-113(101212) (lab ID 6822988) was used for MS/MSD analyses and for laboratory duplicate sample analysis.

For sample group 1343539, SDG CBC12, these items were considered compliant and acceptable in accordance with the validation protocols. Sample SWMW-1116(101812) (lab ID 6830356) was used for MS/MSD analyses and laboratory duplicate sample analysis.

For sample group 1342893, SDG CBC13, these items were considered compliant and acceptable in accordance with the validation protocols. Samples ITMW-6(101612) (lab ID 6826956) and ITMW-5(101612) (lab ID 6826955) were used for MS/MSD analyses and for laboratory duplicate analysis. Equipment blank EB-2(101612) was analyzed with this sample group. Field duplicate sample pair SWMW-158(101612)/SWMW-58(101612) was analyzed in this sample group; results are summarized on Table 3.

For sample group 1343207, SDG CBC14, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of equipment blank results. Sample SWMW-110(101712) (lab ID 6828408) was used for MS/MSD analyses and for laboratory duplicate analysis. Equipment blank EB-3(101712) was analyzed with this sample group. Field duplicate sample pair SWMW-1122(101712)/SWMW-122(101712) was analyzed in this sample group; results are summarized on Table 3.

For sample group 1343541, SDG CBC15, these items were considered compliant and acceptable in accordance with the validation protocols. Sample SWMW-60(101812) (lab ID 6830382) was used for MS/MSD analyses and for laboratory duplicate analysis. Equipment blank EB-4(101812) was analyzed with this sample group. Field duplicate sample pair SWMW-171(101812)/SWMW-71(101812) was analyzed in this sample group; results are summarized on Table 3.

Equipment Blank Contamination

Sample results less than 5x the equipment blank concentration were qualified as undetected (“U”) [(times the sample dilution factor (DF))]and are considered to be potential false-positive results. Evaluation results are shown below.

SDG/ Sample Group	Equipment Blank ID	Analyte	Blank Conc. (mg/L)	Affected Samples	Sample Conc. (mg/L)	Sam ple DF	EBx5X xDF	Lab Flag	Data Qualifier
CBC14/134 3207	EB-3(101712)	Chloride	1.3J (DF=5)	6828402	572	200	260		None, >5x
				6828404	128	50	65		None, >5x
				6828405	97.7	50	65		None, >5x
				6828406	2.5	5	6.5		U
				6828407	3.1	5	6.5		U
				6828408	40.3	50	65		U
				6828412	530	500	650		U
				6828413	423	500	650		U
				6828414	63.2	25	33		None, >5x
				6828415	43.6	50	65		U

MS/MSD Accuracy and Precision

MS/MSD accuracy (%Rs) and precision (RPD) measurements were within QC acceptance limits and considered acceptable, with the exceptions noted below. Unless all MS/MSD were similarly non-compliant for a given analyte; any non-compliant MS/MSD results were considered to pertain only to the sample used for MS/MSD.

SDG/ Sample Group	Sample ID	Lab Sample ID	Analyte	MS %R	QC Limit	Affected Samples	Data Qualifier
CBC10/1341939	SWMU-125(101112)	6821809	Chloride	80	90-110	6821809	J
CBC10/1341939	SWMW-1115(101112)	6821820	Chloride	35	90-110	6821820	J

TABLE 1 – VALIDATED SAMPLES AND ANALYSES PERFORMED**CVX-BEACON, NY****OCTOBER 2012 SITE-WIDE GROUNDWATER SAMPLING**

Lancaster SDG/ Sample Group	Lancaster Sample No.	Parsons Field Sample ID	Sample Date	Matrix/ Sample Type	VOCs (SW8260B)	California Oxygenates (SW8260B)	SVOCs (SW8270C)	Metals (SW6010B)	Mercury (SW7471A)	Anions (EPA 300.0)
CBC10/1341939	6821809	SWMW-125(101112)	10/11/12	WG/N	X	X	X	X	X	X
CBC10/1341939	6821810	Trip_Blank_101112	10/11/12	WQ/TB	X	X	-	-	-	-
CBC10/1341939	6821811	UNK-1(101112)	10/11/12	WG/N	X	X	X	X	X	X
CBC10/1341939	6821812	UNK-2(101112)	10/11/12	WG/N	X	X	X	X	X	X
CBC10/1341939	6821813	UNK-3(101112)	10/11/12	WG/N	X	X	X	X	X	X
CBC10/1341939	6821814	ITMW-13(101112)	10/11/12	WG/N	X	X	X	X	X	X
CBC10/1341939	6821815	ITMW-14(101112)	10/11/12	WG/N	X	X	X	X	X	X
CBC10/1341939	6821816	BR-2(101112)	10/11/12	WG/N	X	X	X	X	X	X
CBC10/1341939	6821817	GT-2(101112)	10/11/12	WG/N	X	X	X	X	X	X
CBC10/1341939	6821818	SWMW-2(101112)	10/11/12	WG/N	X	X	X	X	X	X
CBC10/1341939	6821819	SWMW-115(101112)	10/11/12	WG/N	X	X	X	X	X	X
CBC10/1341939	6821820	SWMW-1115(101112)	10/11/12	WG/FD	X	X	X	X	X	X
CBC10/1341939	6821821	SWMW-124(101112)	10/11/12	WG/N	X	X	X	X	X	X
CBC10/1341939	6821822	ITMW-22(101112)	10/11/12	WG/N	X	X	X	X	X	X
CBC10/1341939	6821823	ITMW-31(101112)	10/11/12	WG/N	X	X	X	X	X	X
CBC10/1341939	6821824	SWMW-118(101112)	10/11/12	WG/N	X	X	X	X	X	X
CBC10/1341939	6821825	SB35-1R(101112)	10/11/12	WG/N	X	X	X	X	X	X
CBC10/1341939	6821826	SWMW-27(101112)	10/11/12	WG/N	X	X	X	X	X	X
CBC10/1341939	6821827	SWMW-28(101112)	10/11/12	WG/N	X	X	X	X	X	X
CBC12/1342157	6822982	Trip_blank_101212	10/12/12	WQ/TB	X	X	-	-	-	-
CBC12/1342157	6822983	SWMW-10(101212)	10/12/12	WG/N	X	X	X	X	X	X
CBC12/1342157	6822984	ITMW-25(101212)	10/12/12	WG/N	X	X	X	X	X	X
CBC12/1342157	6822985	SWMW-24(101212)	10/12/12	WG/N	X	X	X	X	X	X
CBC12/1342157	6822986	SWMW-25(101212)	10/12/12	WG/N	X	X	X	X	X	X
CBC12/1342157	6822987	SWMW-62(101212)	10/12/12	WG/N	X	X	X	X	X	X
CBC12/1342157	6822988	SWMW-113(101212)	10/12/12	WG/N	X	X	X	X	X	X
CBC12/1342157	6822988	SWMW-113(101212)MS	10/12/12	Wq/MS	X	X	X	X	X	X
CBC12/1342157	6822988	SWMW-113(101212)MSD	10/12/12	WQ/MSD	X	X	X	X	X	X
CBC12/1342157	6822992	EB-1(101212)	10/12/12	WQ/EB	X	X	X	X	X	X

Lancaster SDG/ Sample Group	Lancaster Sample No.	Parsons Field Sample ID	Sample Date	Matrix/ Sample Type	VOCs (SW8260B)	California Oxygenates (SW8260B)	SVOCs (SW8270C)	Metals (SW6010B)	Mercury (SW7471A)	Anions (EPA 300.0)
CBC12/1342157	6822993	SWMW-121(101212)	10/12/12	WG/N	X	X	X	X	X	X
CBC12/1343539	6830354	Trip_Blank_101812	10/18/12	WQ/TB	X	X	-	-	-	-
CBC12/1343539	6830355	SWMW-123(101812)	10/18/12	WG/N	X	X	X	X	X	X
CBC12/1343539	6830356	SWMW-116(101812)	10/18/12	WG/N	X	X	X	X	X	X
CBC12/1343539	6830357	SWMW-104(101812)	10/18/12	WG/N	X	X	X	X	X	X
CBC12/1343539	6830358	SWMW-105(101812)	10/18/12	WG/N	X	X	X	X	X	X
CBC12/1343539	6830359	SWMW-106(101812)	10/18/12	WG/N	X	X	X	X	X	X
CBC12/1343539	6830360	SWMW-44(101812)	10/18/12	WG/N	X	X	X	X	X	X
CBC12/1343539	6830361	ITMW-30(101812)	10/18/12	WG/N	X	X	X	X	X	X
CBC12/1343539	6830362	SWMW-9(101812)	10/18/12	WG/N	X	X	X	X	X	X
CBC12/1343539	6830363	ITMW-24(101812)	10/18/12	WG/N	X	X	X	X	X	X
CBC12/1343539	6830364	SWMW-55(101812)	10/18/12	WG/N	X	X	X	X	X	X
CBC12/1343539	6830365	SWMW-45(101812)	10/18/12	WG/N	X	X	X	X	X	X
CBC12/1343539	6830366	SWMW-101(101812)	10/18/12	WG/N	X	X	X	X	X	X
CBC13/1342893	6826944	Trip Blank_101612	10/16/12	WQ/TB	X	X	-	-	-	-
CBC13/1342893	6826945	EB-2(101612)	10/16/12	WQ/EB	X	X	X	X	X	X
CBC13/1342893	6826946	SWMW-126(101612)	10/16/12	WG/N	X	X	X	X	X	X
CBC13/1342893	6826947	SWMW-112(101612)	10/16/12	WG/N	X	X	X	X	X	X
CBC13/1342893	6826948	SWMW-14(101612)	10/16/12	WG/N	X	X	X	X	X	X
CBC13/1342893	6826949	SWMW-41(101612)	10/16/12	WG/N	X	X	X	X	X	X
CBC13/1342893	6826950	SWMW-103(101612)	10/16/12	WG/N	X	X	X	X	X	X
CBC13/1342893	6826951	SWMW-108(101612)	10/16/12	WG/N	X	X	X	X	X	X
CBC13/1342893	6826952	SWMW-111(101612)	10/16/12	WG/N	X	X	X	X	X	X
CBC13/1342893	6826953	SWMW-67(101612)	10/16/12	WG/N	X	X	X	X	X	X
CBC13/1342893	6826954	SWMW-68(101612)	10/16/12	WG/N	X	X	X	X	X	X
CBC13/1342893	6826955	ITMW-5(101612)	10/16/12	WG/N	X	X	X	X	X	X
CBC13/1342893	6826956	ITMW-6(101612)	10/16/12	WG/N	X	X	X	X	X	X
CBC13/1342893	6826956	ITMW-6(101612)MS	10/16/12	WQ/MS	X	X	X	X	X	X
CBC13/1342893	6826956	ITMW-6(101612)MSD	10/16/12	WQ/MSD	X	X	X	X	X	X
CBC13/1342893	6826960	SWMW-15(101612)	10/16/12	WG/N	X	X	X	X	X	X
CBC13/1342893	6826961	SWMW-56(101612)	10/16/12	WG/N	X	X	X	X	X	X
CBC13/1342893	6826962	SWMW-58(101612)	10/16/12	WG/N	X	X	X	X	X	X
CBC13/1342893	6826963	SWMW-158(101612)	10/16/12	WG/FD	X	X	X	X	X	X
CBC13/1342893	6826964	SWMW-66(101612)	10/16/12	WG/N	X	X	X	X	X	X

Lancaster SDG/ Sample Group	Lancaster Sample No.	Parsons Field Sample ID	Sample Date	Matrix/ Sample Type	VOCs (SW8260B)	California Oxygenates (SW8260B)	SVOCs (SW8270C)	Metals (SW6010B)	Mercury (SW7471A)	Anions (EPA 300.0)
CBC14/1343207	6828401	TripBlank_101712	10/17/12	WQ/TB	X	X	-	-	-	-
CBC14/1343207	6828402	SWMW-12(101712)	10/17/12	WG/N	X	X	X	X	X	X
CBC14/1343207	6828403	EB-3(101712)	10/17/12	WQ/EB	X	X	X	X	X	X
CBC14/1343207	6828404	SWMW-119(101712)	10/17/12	WG/N	X	X	X	X	X	X
CBC14/1343207	6828405	SWMW-109(101712)	10/17/12	WG/N	X	X	X	X	X	X
CBC14/1343207	6828406	SWMW-122(101712)	10/17/12	WG/N	X	X	X	X	X	X
CBC14/1343207	6828407	SWMW-1122(101712)	10/17/12	WG/FD	X	X	X	X	X	X
CBC14/1343207	6828408	SWMW-110(101712)	10/17/12	WG/N	X	X	X	X	X	X
CBC14/1343207	6828408	SWMW-110(101712)MS	10/17/12	WQ/MS	X	X	X	X	X	X
CBC14/1343207	6828408	SWMW-110(101712)MSD	10/17/12	WQ/MSD	X	X	X	X	X	X
CBC14/1343207	6828412	SWMW-113(101712)	10/17/12	WG/N	X	X	X	X	X	X
CBC14/1343207	6828413	ITMW-2(101712)	10/17/12	WG/N	X	X	X	X	X	X
CBC14/1343207	6828414	SWMW-117(101712)	10/17/12	WG/N	X	X	X	X	X	X
CBC14/1343207	6828415	SWMW-114(101712)	10/17/12	WG/N	X	X	X	X	X	X
CBC15/1343541	6830368	SWMW-61(101812)	10/18/12	WG/N	X	X	X	X	X	X
CBC15/1343541	6830369	TF-26(101812)	10/18/12	WG/N	X	X	X	X	X	X
CBC15/1343541	6830370	SWMW-72(101812)	10/18/12	WG/N	X	X	X	X	X	X
CBC15/1343541	6830371	SWMW-102(101812)	10/18/12	WG/N	X	X	X	X	X	X
CBC15/1343541	6830372	SWMW-127(101812)	10/18/12	WG/N	X	X	X	X	X	X
CBC15/1343541	6830373	SWMW-128(101812)	10/18/12	WG/N	X	X	X	X	X	X
CBC15/1343541	6830374	SWMW-129(101812)	10/18/12	WG/N	X	X	X	X	X	X
CBC15/1343541	6830375	SWMW-33(101812)	10/18/12	WG/N	X	X	X	X	X	X
CBC15/1343541	6830376	SWMW-30(101812)	10/18/12	WG/N	X	X	X	X	X	X
CBC15/1343541	6830377	SWMW-31(101812)	10/18/12	WG/N	X	X	X	X	X	X
CBC15/1343541	6830378	SWMW-32(101812)	10/18/12	WG/N	X	X	X	X	X	X
CBC15/1343541	6830379	SWMW-71(101812)	10/18/12	WG/N	X	X	X	X	X	X
CBC15/1343541	6830380	SWMW-171(101812)	10/18/12	WG/FD	X	X	X	X	X	X
CBC15/1343541	6830381	SWMW-50(101812)	10/18/12	WG/N	X	X	X	X	X	X
CBC15/1343541	6830382	SWMW-60(101812)	10/18/12	WG/N	X	X	X	X	X	X
CBC15/1343541	6830382	SWMW-60(101812)MS	10/18/12	WQ/MS	X	X	X	X	X	X
CBC15/1343541	6830382	SWMW-60(101812)MSD	10/18/12	WQ/MSD	X	X	X	X	X	X
CBC15/1343541	6830386	EB-4(101812)	10/18/12	WQ/EB	X	X	X	X	X	X

GW=groundwater. AQ=aqueous. N=normal sample. FD=field duplicate. TB=trip blank. EB=equipment blank. MS=matrix spike. MSD=matrix spike duplicate.

TABLE 2
DATA VALIDATION DATA QUALIFIERS AND DATA FLAG CHANGES
CVX-BEACON, NY
OCTOBER 2012 SITE-WIDE GROUNDWATER SAMPLING

SDG/Sample Group	Lab ID/ QC Batch	Sample ID	Analyte	Reported Concentration	Units	Old Flag (lab flag)	New Flag (Data Qualifier)	Final Q (summary)	Reason
CBC10/1341939	6821809/ L122901AA	SWMW-125(101112)	<i>1,1-Dichloroethene</i>	10	µg/L	-	J	J	LCS/LCSD %R
CBC10/1341939	6821826/ L122901AA	SWMW-27(101112)	<i>1,1-Dichloroethene</i>	1	µg/L	J	J	J	LCS/LCSD %R
CBC10/1341939	6821809/ L122901AA	SWMW-125(101112)	<i>Trichloroethene</i>	350	µg/L	E	J	J	Calibration range exceeded
CBC10/1341939	6821809/ L122901AA	SWMW-125(101112)	<i>Trichloroethene</i>	350	µg/L	E	J	J	Calibration range exceeded
CBC10/1341939	6821822/ L122911AA	ITMW-22(101112)	<i>Methyl tertiary butyl ether</i>	ND	µg/L		J	UJ	CCV %D
CBC10/1341939	6821822/ L122911AA	ITMW-22(101112)	<i>Ethyl t-butyl ether</i>	ND	µg/L		J	UJ	CCV %D
CBC10/1341939	6821822/ L122911AA	ITMW-22(101112)	<i>4-Methyl-2-pentanone</i>	5	µg/L	J	J	J	CCV %D
CBC10/1341939	6821822/ L122911AA	ITMW-22(101112)	<i>2-Hexanone</i>	6	µg/L	J	J	J	CCV %D
CBC10/1341939	6821823/ L122911AA	ITMW-31(101112)	<i>Methyl tertiary butyl ether</i>	ND	µg/L		J	UJ	CCV %D
CBC10/1341939	6821823/ L122911AA	ITMW-31(101112)	<i>Ethyl t-butyl ether</i>	ND	µg/L		J	UJ	CCV %D
CBC10/1341939	6821811/ 12289WAG026	UNK-1(101112)	4-Chloro-3-methylphenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821811/ 12289WAG026	UNK-1(101112)	2-Chlorophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821811/ 12289WAG026	UNK-1(101112)	2,4-Dichlorophenol	ND	µg/L		J	UJ	Surrogate %R

SDG/Sample Group	Lab ID/ QC Batch	Sample ID	Analyte	Reported Concentration	Units	Old Flag (lab flag)	New Flag (Data Qualifier)	Final Q (summary)	Reason
CBC10/1341939	6821811/ 12289WAG026	UNK-1(101112)	2,4-Dimethylphenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821811/ 12289WAG026	UNK-1(101112)	4,6-Dinitro-2-methylphenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821811/ 12289WAG026	UNK-1(101112)	2,4-Dinitrophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821811/ 12289WAG026	UNK-1(101112)	2-Methylphenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821811/ 12289WAG026	UNK-1(101112)	4-Methylphenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821811/ 12289WAG026	UNK-1(101112)	2-Nitrophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821811/ 12289WAG026	UNK-1(101112)	4-Nitrophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821811/ 12289WAG026	UNK-1(101112)	Pentachlorophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821811/ 12289WAG026	UNK-1(101112)	Phenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821811/ 12289WAG026	UNK-1(101112)	2,4,5-Trichlorophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821811/ 12289WAG026	UNK-1(101112)	2,4,6-Trichlorophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821811/ 12292WAD026	UNK-1(101112)	4-Chloro-3-methylphenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821811/ 12292WAD026	UNK-1(101112)	2-Chlorophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821811/ 12292WAD026	UNK-1(101112)	2,4-Dichlorophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821811/ 12292WAD026	UNK-1(101112)	2,4-Dimethylphenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821811/ 12292WAD026	UNK-1(101112)	4,6-Dinitro-2-methylphenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821811/ 12292WAD026	UNK-1(101112)	2,4-Dinitrophenol	ND	µg/L		J	UJ	Surrogate %R

SDG/Sample Group	Lab ID/ QC Batch	Sample ID	Analyte	Reported Concentration	Units	Old Flag (lab flag)	New Flag (Data Qualifier)	Final Q (summary)	Reason
CBC10/1341939	6821811/ 12292WAD026	UNK-1(101112)	2-Methylphenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821811/ 12292WAD026	UNK-1(101112)	4-Methylphenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821811/ 12292WAD026	UNK-1(101112)	2-Nitrophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821811/ 12292WAD026	UNK-1(101112)	4-Nitrophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821811/ 12292WAD026	UNK-1(101112)	Pentachlorophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821811/ 12292WAD026	UNK-1(101112)	Phenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821811/ 12292WAD026	UNK-1(101112)	2,4,5-Trichlorophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821811/ 12292WAD026	UNK-1(101112)	2,4,6-Trichlorophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821813/ 12289WAG026	UNK-3(101112)	4-Chloro-3-methylphenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821813/ 12289WAG026	UNK-3(101112)	2-Chlorophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821813/ 12289WAG026	UNK-3(101112)	2,4-Dichlorophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821813/ 12289WAG026	UNK-3(101112)	2,4-Dimethylphenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821813/ 12289WAG026	UNK-3(101112)	4,6-Dinitro-2-methylphenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821813/ 12289WAG026	UNK-3(101112)	2,4-Dinitrophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821813/ 12289WAG026	UNK-3(101112)	2-Methylphenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821813/ 12289WAG026	UNK-3(101112)	4-Methylphenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821813/ 12289WAG026	UNK-3(101112)	2-Nitrophenol	ND	µg/L		J	UJ	Surrogate %R

SDG/Sample Group	Lab ID/ QC Batch	Sample ID	Analyte	Reported Concentration	Units	Old Flag (lab flag)	New Flag (Data Qualifier)	Final Q (summary)	Reason
CBC10/1341939	6821813/ 12289WAG026	UNK-3(101112)	4-Nitrophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821813/ 12289WAG026	UNK-3(101112)	Pentachlorophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821813/ 12289WAG026	UNK-3(101112)	Phenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821813/ 12289WAG026	UNK-3(101112)	2,4,5-Trichlorophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821813/ 12289WAG026	UNK-3(101112)	2,4,6-Trichlorophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821813/ 12292WAD026	UNK-3(101112)	4-Chloro-3-methylphenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821813/ 12292WAD026	UNK-3(101112)	2-Chlorophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821813/ 12292WAD026	UNK-3(101112)	2,4-Dichlorophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821813/ 12292WAD026	UNK-3(101112)	2,4-Dimethylphenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821813/ 12292WAD026	UNK-3(101112)	4,6-Dinitro-2-methylphenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821813/ 12292WAD026	UNK-3(101112)	2,4-Dinitrophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821813/ 12292WAD026	UNK-3(101112)	2-Methylphenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821813/ 12292WAD026	UNK-3(101112)	4-Methylphenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821813/ 12292WAD026	UNK-3(101112)	2-Nitrophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821813/ 12292WAD026	UNK-3(101112)	4-Nitrophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821813/ 12292WAD026	UNK-3(101112)	Pentachlorophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821813/ 12292WAD026	UNK-3(101112)	Phenol	ND	µg/L		J	UJ	Surrogate %R

SDG/Sample Group	Lab ID/ QC Batch	Sample ID	Analyte	Reported Concentration	Units	Old Flag (lab flag)	New Flag (Data Qualifier)	Final Q (summary)	Reason
CBC10/1341939	6821813/ 12292WAD026	UNK-3(101112)	2,4,5-Trichlorophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821813/ 12292WAD026	UNK-3(101112)	2,4,6-Trichlorophenol	ND	µg/L		J	UJ	Surrogate %R
CBC10/1341939	6821809/ 12289WAG026	SWMW-125(101112)	1,2-Dichlorobenzene	310	µg/L	E	J	J	Calibration range exceeded
CBC10/1341939	6821815/ 12292WAD026	ITMW-14(101112)	bis(2-ethylhexylphthalate)	250	µg/L	E	J	J	Calibration range exceeded
CBC10/1341939	6821809/ 12289373901A	SWMW-125(101112)	Chloride	19.3	mg/L		J	J	MS %R
CBC10/1341939	6821820/ 12289373901B	SWMW-1115(101112)	Chloride	57.5	mg/L		J	J	MS %R
CBC10/1341939	6821809/ 12289WAG026	SWMW-125(101112)	1,2-Dichlorobenzene	390	µg/L		J	J	CCV %D
CBC10/1341939	6821809/ 12289WAG026	SWMW-125(101112)	1,2-Dichlorobenzene	310	µg/L	E	J	J	CCV %D
CBC10/1341939	6821811/ 12289WAG026	UNK-1(101112)	1,2-Dichlorobenzene	9.0	µg/L		J	J	CCV %D
CBC10/1341939	6821812/ 12289WAG026	UNK-2(101112)	1,2-Dichlorobenzene	1.0	µg/L		J	J	CCV %D
CBC10/1341939	6821813/ 12289WAG026	UNK-3(101112)	1,2-Dichlorobenzene	0.5	µg/L	J	J	J	CCV %D
CBC10/1341939	6821814/ 12289WAG026	ITMW-13(101112)	1,2-Dichlorobenzene	13	µg/L		J	J	CCV %D
CBC10/1341939	6821816/ 12289WAG026	BR-2(101112)	1,2-Dichlorobenzene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821817/ 12289WAG026	GT-2(101112)	1,2-Dichlorobenzene	2.0	µg/L		J	J	CCV %D
CBC10/1341939	6821818/ 12289WAG026	SWMW-2(101112)	1,2-Dichlorobenzene	5.0	µg/L		J	J	CCV %D
CBC10/1341939	6821819/ 12289WAG026	SWMW-115(101112)	1,2-Dichlorobenzene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821820/ 12289WAG026	SWMW-1115(101112)	1,2-Dichlorobenzene	U	µg/L		J	UJ	CCV %D

SDG/Sample Group	Lab ID/ QC Batch	Sample ID	Analyte	Reported Concentration	Units	Old Flag (lab flag)	New Flag (Data Qualifier)	Final Q (summary)	Reason
CBC10/1341939	6821821/ 12289WAG026	SWMW-124(101112)	1,2-Dichlorobenzene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821823/ 12289WAG026	ITMW-31(101112)	1,2-Dichlorobenzene	0.8	µg/L	J	J	J	CCV %D
CBC10/1341939	6821824/ 12289WAG026	SWMW-118(101112)	1,2-Dichlorobenzene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821825/ 12289WAG026	SB35-1R(101112)	1,2-Dichlorobenzene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821826/ 12289WAG026	SWMW-27(101112)	1,2-Dichlorobenzene	13	µg/L		J	J	CCV %D
CBC10/1341939	6821827/ 12289WAG026	SWMW-28(101112)	1,2-Dichlorobenzene	0.8	µg/L	J	J	J	CCV %D
CBC10/1341939	6821809/ 12289WAG026	SWMW-125(101112)	Hexachlorocyclopentadiene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821809/ 12289WAG026	SWMW-125(101112)	Hexachlorocyclopentadiene	U	µg/L	E	J	UJ	CCV %D
CBC10/1341939	6821811/ 12289WAG026	UNK-1(101112)	Hexachlorocyclopentadiene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821812/ 12289WAG026	UNK-2(101112)	Hexachlorocyclopentadiene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821813/ 12289WAG026	UNK-3(101112)	Hexachlorocyclopentadiene	U	µg/L	J	J	UJ	CCV %D
CBC10/1341939	6821814/ 12289WAG026	ITMW-13(101112)	Hexachlorocyclopentadiene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821816/ 12289WAG026	BR-2(101112)	Hexachlorocyclopentadiene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821817/ 12289WAG026	GT-2(101112)	Hexachlorocyclopentadiene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821818/ 12289WAG026	SWMW-2(101112)	Hexachlorocyclopentadiene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821819/ 12289WAG026	SWMW-115(101112)	Hexachlorocyclopentadiene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821820/ 12289WAG026	SWMW-1115(101112)	Hexachlorocyclopentadiene	U	µg/L		J	UJ	CCV %D

SDG/Sample Group	Lab ID/ QC Batch	Sample ID	Analyte	Reported Concentration	Units	Old Flag (lab flag)	New Flag (Data Qualifier)	Final Q (summary)	Reason
CBC10/1341939	6821821/ 12289WAG026	SWMW-124(101112)	Hexachlorocyclopentadiene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821823/ 12289WAG026	ITMW-31(101112)	Hexachlorocyclopentadiene	U	µg/L	J	J	UJ	CCV %D
CBC10/1341939	6821824/ 12289WAG026	SWMW-118(101112)	Hexachlorocyclopentadiene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821825/ 12289WAG026	SB35-1R(101112)	Hexachlorocyclopentadiene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821826/ 12289WAG026	SWMW-27(101112)	Hexachlorocyclopentadiene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821827/ 12289WAG026	SWMW-28(101112)	Hexachlorocyclopentadiene	U	µg/L	J	J	UJ	CCV %D
CBC10/1341939	6821809/ 12289WAG026	SWMW-125(101112)	2,4-Dinitrophenol	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821809/ 12289WAG026	SWMW-125(101112)	2,4-Dinitrophenol	U	µg/L	E	J	UJ	CCV %D
CBC10/1341939	6821811/ 12289WAG026	UNK-1(101112)	2,4-Dinitrophenol	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821812/ 12289WAG026	UNK-2(101112)	2,4-Dinitrophenol	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821813/ 12289WAG026	UNK-3(101112)	2,4-Dinitrophenol	U	µg/L	J	J	UJ	CCV %D
CBC10/1341939	6821814/ 12289WAG026	ITMW-13(101112)	2,4-Dinitrophenol	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821816/ 12289WAG026	BR-2(101112)	2,4-Dinitrophenol	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821817/ 12289WAG026	GT-2(101112)	2,4-Dinitrophenol	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821818/ 12289WAG026	SWMW-2(101112)	2,4-Dinitrophenol	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821819/ 12289WAG026	SWMW-115(101112)	2,4-Dinitrophenol	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821820/ 12289WAG026	SWMW-1115(101112)	2,4-Dinitrophenol	U	µg/L		J	UJ	CCV %D

SDG/Sample Group	Lab ID/ QC Batch	Sample ID	Analyte	Reported Concentration	Units	Old Flag (lab flag)	New Flag (Data Qualifier)	Final Q (summary)	Reason
CBC10/1341939	6821821/ 12289WAG026	SWMW-124(101112)	2,4-Dinitrophenol	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821823/ 12289WAG026	ITMW-31(101112)	2,4-Dinitrophenol	U	µg/L	J	J	UJ	CCV %D
CBC10/1341939	6821824/ 12289WAG026	SWMW-118(101112)	2,4-Dinitrophenol	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821825/ 12289WAG026	SB35-1R(101112)	2,4-Dinitrophenol	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821826/ 12289WAG026	SWMW-27(101112)	2,4-Dinitrophenol	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821827/ 12289WAG026	SWMW-28(101112)	2,4-Dinitrophenol	U	µg/L	J	J	UJ	CCV %D
CBC10/1341939	6821809/ 12289WAG026	SWMW-125(101112)	Chrysene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821809/ 12289WAG026	SWMW-125(101112)	Chrysene	U	µg/L	E	J	UJ	CCV %D
CBC10/1341939	6821811/ 12289WAG026	UNK-1(101112)	Chrysene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821812/ 12289WAG026	UNK-2(101112)	Chrysene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821813/ 12289WAG026	UNK-3(101112)	Chrysene	U	µg/L	J	J	UJ	CCV %D
CBC10/1341939	6821814/ 12289WAG026	ITMW-13(101112)	Chrysene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821816/ 12289WAG026	BR-2(101112)	Chrysene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821817/ 12289WAG026	GT-2(101112)	Chrysene	1	µg/L	J	J	J	CCV %D
CBC10/1341939	6821818/ 12289WAG026	SWMW-2(101112)	Chrysene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821819/ 12289WAG026	SWMW-115(101112)	Chrysene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821820/ 12289WAG026	SWMW-1115(101112)	Chrysene	U	µg/L		J	UJ	CCV %D

SDG/Sample Group	Lab ID/ QC Batch	Sample ID	Analyte	Reported Concentration	Units	Old Flag (lab flag)	New Flag (Data Qualifier)	Final Q (summary)	Reason
CBC10/1341939	6821821/ 12289WAG026	SWMW-124(101112)	Chrysene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821823/ 12289WAG026	ITMW-31(101112)	Chrysene	U	µg/L	J	J	UJ	CCV %D
CBC10/1341939	6821824/ 12289WAG026	SWMW-118(101112)	Chrysene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821825/ 12289WAG026	SB35-1R(101112)	Chrysene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821826/ 12289WAG026	SWMW-27(101112)	Chrysene	U	µg/L		J	UJ	CCV %D
CBC10/1341939	6821827/ 12289WAG026	SWMW-28(101112)	Chrysene	3	µg/L		J	J	CCV %D
CBC12/1342157	6822985/ P29005A	SWMW-24(101212)	Cadmium	0.0017	mg/L	J	U	0.005U	Method blank, Equipment blank
CBC12/1342157	6822986/ P29005A	SWMW-25(101212)	Cadmium	0.00093	mg/L	J	U	0.005U	Method blank, Equipment blank
CBC12/1342157	6822988/ P29005A	SWMW-113(101212)	Cadmium	0.00043	mg/L	J	U	0.005U	Method blank, Equipment blank
CBC12/1342157	6822993/ P29005A	SWMW-121(101212)	Cadmium	0.00088	mg/L	J	U	0.005U	Method blank, Equipment blank
CBC12/1342157	6822984/ P29005A	ITMW-25(101212)	Thallium	0.0096	mg/L	J	U	0.03U	Method blank, Equipment blank
CBC12/1342157	6822985/ P29005A	SWMW-24(101212)	Thallium	0.0076	mg/L	J	U	0.03U	Method blank, Equipment blank
CBC12/1342157	6822986/ P29005A	SWMW-25(101212)	Thallium	0.0108	mg/L	J	U	0.03U	Method blank, Equipment blank
CBC12/1342157	6822988/ P29005A	SWMW-113(101212)	Thallium	0.0091	mg/L	J	U	0.03U	Method blank, Equipment blank
CBC12/1342157	6822993/ P29005A	SWMW-121(101212)	Thallium	0.0077	mg/L	J	U	0.03U	Method blank, Equipment blank
CBC12/1343539	6830356/ P29905A	SWMW-116(101812)	Thallium	0.0061	mg/L	J	U	0.03U	Equipment blank
CBC12/1343539	6830358/ P29905A	SWMW-105(101812)	Thallium	0.0065	mg/L	J	U	0.03U	Equipment blank

SDG/Sample Group	Lab ID/ QC Batch	Sample ID	Analyte	Reported Concentration	Units	Old Flag (lab flag)	New Flag (Data Qualifier)	Final Q (summary)	Reason
CBC12/1343539	6830359/ P29905A	SWMW-106(101812)	Thallium	0.0069	mg/L	J	U	0.03U	Equipment blank
CBC12/1343539	6830360/ P29905A	SWMW-44(101812)	Thallium	0.0058	mg/L	J	U	0.03U	Equipment blank
CBC12/1343539	6830361/ P29905A	ITMW-30(101812)	Thallium	0.0061	mg/L	J	U	0.03U	Equipment blank
CBC12/1343539	6830364/ P29905A	SWMW-55(101812)	Thallium	0.0069	mg/L	J	U	0.03U	Equipment blank
CBC12/1343539	6830365/ P29905A	SWMW-45(101812)	Thallium	0.0061	mg/L	J	U	0.03U	Equipment blank
CBC12/1342157	6822984/ T122912AA	ITMW-25(101212)	Benzene	570	µg/L	E	J	J	Calibration range exceeded
CBC12/1343539	6830364/ Y122971AA	SWMW-55(101812)	Chlorobenzene	670	µg/L	E	J	J	Calibration range exceeded
CBC12/1342157	6822988/ 12290WAD026	SWMW-113(101212)	4-Chloroaniline	U	mg/L		J	UJ	MS/MSD RPD
CBC12/1342157	6822988/ P29005A	SWMW-113(101212)	Aluminum	0.652	mg/L		J	J	MS/MSD %R
CBC12/1342157	6822988/ P29005A	SWMW-113(101212)	Iron	1.150	mg/L		J	J	MS/MSD %R
CBC12/1342157	6822988/ P29005A	SWMW-113(101212)	Potassium	4.840	mg/L		J	J	MSD %R
CBC13/1342893	6826949/ 12292WAG026	SWMW-41(101612)	Napthalene	0.2	µg/L	J	U	0.5U	Equipment blank
CBC13/1342893	6826955/ 12292WAG026	ITMW-5(101612)	Napthalene	0.2	µg/L	J	U	0.5U	Equipment blank
CBC13/1342893	6826962/ 12292WAG026	SWMW-58(101612)	Napthalene	0.8	µg/L		U	U	Equipment blank
CBC13/1342893	6826946/ P29113A	SWMW-126(101612)	Thallium	0.0075	mg/L		U	0.03U	Method blank, Equipment blank
CBC13/1342893	6826947/ P29113A	SWMW-112(101612)	Thallium	0.007	mg/L		U	0.03U	Method blank, Equipment blank
CBC13/1342893	6826948/ P29113A	SWMW-14(101612)	Thallium	0.0073	mg/L		U	0.03U	Method blank, Equipment blank

SDG/Sample Group	Lab ID/ QC Batch	Sample ID	Analyte	Reported Concentration	Units	Old Flag (lab flag)	New Flag (Data Qualifier)	Final Q (summary)	Reason
CBC13/1342893	6826949/ P29113A	SWMW-41(101612)	Thallium	0.0094	mg/L		U	0.03U	Method blank, Equipment blank
CBC13/1342893	6826950/ P29113A	SWMW-103(101612)	Thallium	0.0077	mg/L		U	0.03U	Method blank, Equipment blank
CBC13/1342893	6826951/ P29113A	SWMW-108(101612)	Thallium	0.0069	mg/L		U	0.03U	Method blank, Equipment blank
CBC13/1342893	6826952/ P29113A	SWMW-111(101612)	Thallium	0.0067	mg/L		U	0.03U	Method blank, Equipment blank
CBC13/1342893	6826953/ P29113A	SWMW-67(101612)	Thallium	0.0074	mg/L		U	0.03U	Method blank, Equipment blank
CBC13/1342893	6826954/ P29113A	SWMW-68(101612)	Thallium	0.0079	mg/L		U	0.03U	Method blank, Equipment blank
CBC13/1342893	6826955/ P29113A	ITMW-5(101612)	Thallium	0.0072	mg/L		U	0.03U	Method blank, Equipment blank
CBC13/1342893	6826956/ P29113A	ITMW-6(101612)	Thallium	0.009	mg/L		U	0.03U	Method blank, Equipment blank
CBC13/1342893	6826961/ P29113A	SWMW-56(101612)	Thallium	0.008	mg/L		U	0.03U	Method blank, Equipment blank
CBC13/1342893	6826962/ P29113A	SWMW-58(101612)	Thallium	0.0082	mg/L		U	0.03U	Method blank, Equipment blank
CBC13/1342893	6826963/ P29113A	SWMW-158(101612)	Thallium	0.0083	mg/L		U	0.03U	Method blank, Equipment blank
CBC13/1342893	6826964/ P29113A	SWMW-66(101612)	Thallium	0.0084	mg/L		U	0.03U	Method blank, Equipment blank
CBC13/1342893	6826946/ P29113A	SWMW-126(101612)	Cobalt	0.0012	mg/L	J	U	0.005U	Method blank
CBC13/1342893	6826947/ P29113A	SWMW-112(101612)	Cobalt	0.0011	mg/L	J	U	0.005U	Method blank
CBC13/1342893	6826948/ P29113A	SWMW-14(101612)	Cobalt	0.0044	mg/L	J	U	0.005U	Method blank
CBC13/1342893	6826949/ P29113A	SWMW-41(101612)	Cobalt	0.0014	mg/L	J	U	0.005U	Method blank
CBC13/1342893	6826950/ P29113A	SWMW-103(101612)	Cobalt	0.0013	mg/L	J	U	0.005U	Method blank

SDG/Sample Group	Lab ID/ QC Batch	Sample ID	Analyte	Reported Concentration	Units	Old Flag (lab flag)	New Flag (Data Qualifier)	Final Q (summary)	Reason
CBC13/1342893	6826951/ P29113A	SWMW-108(101612)	Cobalt	0.00075	mg/L	J	U	0.005U	Method blank
CBC13/1342893	6826952/ P29113A	SWMW-111(101612)	Cobalt	0.0029	mg/L	J	U	0.005U	Method blank
CBC13/1342893	6826953/ P29113A	SWMW-67(101612)	Cobalt	0.0016	mg/L	J	U	0.005U	Method blank
CBC13/1342893	6826954/ P29113A	SWMW-68(101612)	Cobalt	0.0014	mg/L	J	U	0.005U	Method blank
CBC13/1342893	6826955/ P29113A	ITMW-5(101612)	Cobalt	0.0052	mg/L		U	U	Method blank
CBC13/1342893	6826956/ P29113A	ITMW-6(101612)	Cobalt	0.0028	mg/L	J	U	0.005U	Method blank
CBC13/1342893	6826961/ P29113A	SWMW-56(101612)	Cobalt	0.0012	mg/L	J	U	0.005U	Method blank
CBC13/1342893	6826962/ P29113A	SWMW-58(101612)	Cobalt	0.007	mg/L		U	0.005U	Method blank
CBC13/1342893	6826963/ P29113A	SWMW-158(101612)	Cobalt	0.007	mg/L		U	0.005U	Method blank
CBC13/1342893	6826946/ W122931AA	SWMW-126(101612)	Trichloroethene	390	µg/L	E	J	J	Calibration range exceeded
CBC13/1342893	6826949/ W122931AA	SWMW-41(101612)	cis-1,2-Dichloroethene	380	µg/L	E	J	J	Calibration range exceeded
CBC13/1342893	6826949/ W122931AA	SWMW-41(101612)	1,1,1-Trichloroethane	1500	µg/L	E	J	J	Calibration range exceeded
CBC13/1342893	6826954/ W122931AA	SWMW-68(101612)	Trichloroethene	710	µg/L	E	J	J	Calibration range exceeded
CBC13/1342893	6826961/ W122931AA	SWMW-56(101612)	Trichloroethene	360	µg/L	E	J	J	Calibration range exceeded
CBC13/1342893	6826964/ W122934AA	SWMW-66(101612)	cis-1,2Dichloroethene	960	µg/L	E	J	J	Calibration range exceeded
CBC13/1342893	6826961/W122 931AA	SWMW-66(101612)	Trichloroethene	390	µg/L	E	J	J	Calibration range exceeded
CBC13/1342983	6826956/ 12292WAG026	ITMW-6(101612)	bis(2-Chloroethyl)ether	8	µg/L		J	J	MS%R

SDG/Sample Group	Lab ID/ QC Batch	Sample ID	Analyte	Reported Concentration	Units	Old Flag (lab flag)	New Flag (Data Qualifier)	Final Q (summary)	Reason
CBC13/1342893	6826956/ P29113A	ITMW-6(101612)	Mercury	0.0017	mg/L		J	J	MS %R, MS/MSD RPD
CBC13/1342893	6826956/ P29105A	ITMW-6(101512)	Aluminum	3.870	mg/L		J	J	MS/MSD %R, MS/MSD RPD
CBC13/1342893	6826956/ P29105A	ITMW-6(101612)	Sodium	12.000	mg/L		J	J	MS %R, MS/MSD RPD
CBC14/1343207	6828406/ 12304655601A	SWMW-122(101712)	Chloride	2.5	mg/L		U	U	Equipment blank
CBC14/1343207	6828407/ 12304655601A	SWMW-1122(101712)	Chloride	3.1	mg/L		U	U	Equipment blank
CBC14/1343207	6828408/ 12304655601A	SWMW-110(101712)	Chloride	40.3	mg/L		U	U	Equipment blank
CBC14/1343207	6828412/ 12304655601A	SWMW-113(101712)	Chloride	530	mg/L		U	U	Equipment blank
CBC14/1343207	6828413/ 12304655601A	ITMW-2(101712)	Chloride	423	mg/L		U	U	Equipment blank
CBC14/1343207	6828415/ 12304655601A	SWMW-114(101712)	Chloride	43.6	mg/L		U	U	Equipment blank
CBC14-1343207	6828408/ Y122951AA	SWMW-110(101712)	1,1-Dichloroethene	0.8	µg/L	U	J	UJ	MSD %R
CBC14-1343207	6828408/ Y122951AA	SWMW-110(101712)	cis-1,2-Dichloroethene	18	µg/L		J	J	MSD %R
CBC14/1343207	6828415/ Y122971AA	SWMW-114(101712)	Trichloroethene	310	µg/L	E	J	J	Calibration range exceeded
CBC14/1343207	6828408/ 12294WAF026	SWMW-110(101712)	2,4-Dinitrophenol	U	µg/L		J	UJ	MS %R, MS/MSD RPD
CBC14/1343207	6828408/ 12294WAF026	SWMW-110(101712)	4-Nitrophenol	U	µg/L		J	UJ	MS %R, MS/MSD RPD
CBC14/1343207	6828408/ P29605A	SWMW-110(101712)	Iron	1.780	mg/L		J	J	MS/MSD %R
CBC14/1343207	6828408/ P29605A	SWMW-110(101712)	Zinc	0.696	mg/L		J	J	MS/MSD %R
CBC15/1343541	6830382/ 12296WAA026	SWMW-60(101812)	4-Nitrophenol	U	µg/L		J	UJ	MS/MSD RPD

SDG/Sample Group	Lab ID/ QC Batch	Sample ID	Analyte	Reported Concentration	Units	Old Flag (lab flag)	New Flag (Data Qualifier)	Final Q (summary)	Reason
CBC15/1343541	6830368/ 12296WAA026	SWMW-61(101812)	2-Methylnaphthalene	130	µg/L	E	J	J	Calibration range exceeded
CBC15/1343541	6830382/ P29795E	SWMW-60(101812)	Iron	2.690	mg/L		J	J	MS/MSD %R
CBC15/1343541	6830382/ P29705E	SWMW-60(101812)	Selenium	U	mg/L		J	UJ	MS/MSD %R

TABLE 3 – FIELD DUPLICATE SAMPLE RESULTS
CVX-BEACON, NY
OCTOBER 2012 SITE-WIDE GROUNDWATER SAMPLING

Analyte	Collection Date	Field Sample ID	Field Sample Value	Units	Replicate Sample ID	Replicate Sample Value	RPD*
1,1-Dichloroethane	10/11/12	SWMW-115	1J	µg/L	SWMU-1115	1J	n/a
Trichloroethene	10/11/12	SWMW-115	2J	µg/L	SWMU-1115	2J	n/a
All SVOCs	10/11/12	SWMW-115	ND	µg/L	SWMU-1115	ND	n/a
Aluminum	10/11/12	SWMW-115	0.0907J	mg/L	SWMU-1115	0.143J	n/a
Barium	10/11/12	SWMW-115	0.0418	mg/L	SWMU-1115	0.0430	2.83%
Calcium	10/11/12	SWMW-115	71.0	mg/L	SWMU-1115	71.8	1.12%
Iron	10/11/12	SWMW-115	0.110J	mg/L	SWMU-1115	0.202	58.97%
Magnesium	10/11/12	SWMW-115	7.71	mg/L	SWMU-1115	7.75	0.52%
Manganese	10/11/12	SWMW-115	0.0094	mg/L	SWMU-1115	0.0184	64.75%
Potassium	10/11/12	SWMW-115	0.883	mg/L	SWMU-1115	0.931	5.29%
Sodium	10/11/12	SWMW-115	15.2	mg/L	SWMU-1115	15.4	1.31%
Vanadium	10/11/12	SWMW-115	0.0013J	mg/L	SWMU-1115	0.0014J	n/a
Zinc	10/11/12	SWMW-115	0.0047J	mg/L	SWMU-1115	0.0072J	n/a
Mercury	10/11/12	SWMW-115	ND	mg/L	SWMU-1115	ND	n/a
Chloride	10/11/12	SWMW-115	75.9	mg/L	SWMU-1115	57.5	27.59%
Sulfate	10/11/12	SWMW-115	17.3	mg/L	SWMU-1115	22.0	23.92%
cis-1,2-Dichloroethene	10/16/12	SWMW-58	33	µg/L	SWMU-158	33	0.00%
Trichloroethene	10/16/12	SWMW-58	17	µg/L	SWMU-158	17	0.00%
Naphthalene	10/16/12	SWMW-58	0.8	µg/L	SWMU-158	0.09U	159.55%
Aluminum	10/16/12	SWMW-58	9.81	mg/L	SWMU-158	10.1	2.91%
Arsenic	10/16/12	SWMW-58	0.0073J	mg/L	SWMU-158	0.0071J	n/a
Barium	10/16/12	SWMW-58	0.135	mg/L	SWMU-158	0.135	0.00%
Calcium	10/16/12	SWMW-58	142	mg/L	SWMU-158	141	0.71%
Chromium	10/16/12	SWMW-58	0.0195	mg/L	SWMU-158	0.0194	0.51%
Cobalt	10/16/12	SWMW-58	0.007	mg/L	SWMU-158	0.007	0.00%
Copper	10/16/12	SWMW-58	0.0064J	mg/L	SWMU-158	0.0073J	n/a

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March 8, 2013

Analyte	Collection Date	Field Sample ID	Field Sample Value	Units	Replicate Sample ID	Replicate Sample Value	RPD*
Iron	10/16/12	SWMW-58	12.2	mg/L	SWMU-158	12.4	1.63%
Lead	10/16/12	SWMW-58	0.013J	mg/L	SWMU-158	0.0132J	n/a
Magnesium	10/16/12	SWMW-58	38.1	mg/L	SWMU-158	38.6	1.30%
Manganese	10/16/12	SWMW-58	1.02	mg/L	SWMU-158	1.04	1.94%
Nickel	10/16/12	SWMW-58	0.0108	mg/L	SWMU-158	0.0116	7.14%
Potassium	10/16/12	SWMW-58	4.38	mg/L	SWMU-158	4.37	0.23%
Sodium	10/16/12	SWMW-58	147	mg/L	SWMU-158	147	0.00%
Thallium	10/16/12	SWMW-58	0.0082J	mg/L	SWMU-158	0.0083J	n/a
Vanadium	10/16/12	SWMW-58	0.0134	mg/L	SWMU-158	0.014	4.38%
Zinc	10/16/12	SWMW-58	0.029	mg/L	SWMU-158	0.03	3.39%
Mercury	10/16/12	SWMW-58	0.0017	mg/L	SWMU-158	0.0010	51.85%
Chloride	10/16/12	SWMW-58	376	mg/L	SWMU-158	291	25.49%
Sulfate	10/16/12	SWMW-58	66.3	mg/L	SWMU-158	65.4	1.37%
All VOCs	10/17/12	SWMW-122	ND	mg/L	SWMW-1122	ND	n/a
All SVOCs	10/17/12	SWMW-122	ND	mg/L	SWMW-1122	ND	n/a
Mercury	10/17/12	SWMW-122	ND	mg/L	SWMW-1122	ND	n/a
Aluminum	10/17/12	SWMW-122	0.748	mg/L	SWMW-1122	0.596	22.62%
Barium	10/17/12	SWMW-122	0.0365	mg/L	SWMW-1122	0.0337	7.98%
Cadmium	10/17/12	SWMW-122	0.00042J	mg/L	SWMW-1122	0.00053J	n/a
Calcium	10/17/12	SWMW-122	55	mg/L	SWMW-1122	54.6	0.73%
Chromium	10/17/12	SWMW-122	0.0064J	mg/L	SWMW-1122	0.0057J	n/a
Cobalt	10/17/12	SWMW-122	0.00081J	mg/L	SWMW-1122	U	n/a
Iron	10/17/12	SWMW-122	1.22	mg/L	SWMW-	1.07	13.10%

Analyte	Collection Date	Field Sample ID	Field Sample Value	Units	Replicate Sample ID	Replicate Sample Value	RPD*
					1122		
Magnesium	10/17/12	SWMW-122	29.1	mg/L	SWMW-1122	28.4	2.43%
Manganese	10/17/12	SWMW-122	0.0417	mg/L	SWMW-1122	0.0372	11.41%
Nickel	10/17/12	SWMW-122	0.0042J	mg/L	SWMW-1122	0.0034J	n/a
Potassium	10/17/12	SWMW-122	2.4	mg/L	SWMW-1122	2.08	14.29%
Sodium	10/17/12	SWMW-122	24.8	mg/L	SWMW-1122	24	3.28%
Thallium	10/17/12	SWMW-122	0.0076J	mg/L	SWMW-1122	0.007J	n/a
Vanadium	10/17/12	SWMW-122	U	mg/L	SWMW-1122	0.0015J	n/a
Zinc	10/17/12	SWMW-122	0.0085J	mg/L	SWMW-1122	0.0084J	n/a
Chloride	10/17/12	SWMW-122	2.5	mg/L	SWMW-1122	3.1	21.43%
Sulfate	10/17/12	SWMW-122	41.4	mg/L	SWMW-1122	41.4	0.00%

*RPD calculated only if both results are detected and one is >LOQ. Field duplicate RPD limits are advisory only; sample results are not qualified based on RPD. N/A = not applicable.

TABLE 4
DATA USE SELECTION DECISIONS
OCTOBER 2012 SITE-WIDE GROUNDWATER SAMPLING

SDG/Sample Group	Field Sample ID	Lab Sample ID	QC Batch/ Dilution	Analyte	Result	Units	Lab Flag	VAL Flag (Data Usability Flag)	Data Selection Decision	Reason
CBC10/1341939	SWMW-125(101112)	6821809	L122901AA/ 1.0	Trichloroethene	350	µg/L	E	J	Don't Use	Calibration range exceeded
CBC10/1341939	SWMW-125(101112)	6821809	L122901AA/ 1.0	Chlorobenzene	300	µg/L	E	J	Don't Use	Calibration range exceeded
CBC10/1341939	SWMW-125(101112)	6821809	L122901AA/ 10	Trichloroethene	270	µg/L			Use	
CBC10/1341939	SWMW-125(101112)	6821809	L122901AA/ 10	Chlorobenzene	250	µg/L			Use	
CBC10/1341939	SWMW-125(101112)	6821809	L122901AA/ 10	All other VOCs		µg/L			Don't Use	Use 1.0 dilution results
CBC10/1341939	UNK-1(101112)	6821811	12289WAG026/ 1.0	All SVOCs		µg/L			Use	
CBC10/1341939	UNK-1(101112)	6821811	12292WAD026/ 1.0	All SVOCs		µg/L			Don't Use	Surrogate Non-compliance Confirmation
CBC10/1341939	UNK-3(101112)	6821813	12289WAG026/ 1.0	All SVOCs		µg/L			Use	
CBC10/1341939	UNK-3(101112)	6821813	12292WAD026/ 1.0	All SVOCs		µg/L			Don't Use	Surrogate Non-compliance Confirmation
CBC10/1341939	SWMW-125(101112)	6821809	12289WAG026/ 1.0	1,2-Dichlorobenzene	310	µg/L	E	J	Don't Use	Calibration range exceeded
CBC10/1341939	SWMW-125(101112)	6821809	12289WAG026/ 10.0	1,2-Dichlorobenzene		µg/L			Use	
CBC10/1341939	SWMW-125(101112)	6821809	12289WAG026/ 10.0	All Other VOCs	390	µg/L			Don't Use	Use

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March 8, 2013

SDG/Sample Group	Field Sample ID	Lab Sample ID	QC Batch/ Dilution	Analyte	Result	Units	Lab Flag	VAL Flag (Data Usability Flag)	Data Selection Decision	Reason
CBC10/1341939	ITMW-14(101112)	6821815	12289WAG026/ 1.0	bis(2-ethylhexyl)phthalate	250	µg/L	E	J	Don't Use	Calibration range exceeded
CBC10/1341939	ITMW-14(101112)	6821815	12292WAD026/ 5.0	bis(2-ethylhexyl)phthalate	310	µg/L			Use	
CBC10/1341939	ITMW-14(101112)	6821815	12292WAD026/ 5.0	All Other VOCs	390	µg/L			Don't Use	Use 1x results
CBC12/1342157	ITMW-25(101212)	6822984	T122912A/1.0	Benzene	570	µg/L	E	J	Don't Use	Calibration range exceeded
CBC12/1342157	ITMW-25(101212)	6822984	T122912AA/10	Benzene	830	µg/L			Use	
CBC12/1342157	ITMW-25(101212)	6822984	T122912AA/10	All Other VOCs	390	µg/L			Don't Use	Use 1x results
CBC12/1343539	SWMW-55(101812)	6830364	Y122971AA/1.0	Chlorobenzene	670	µg/L	E	J	Don't Use	Calibration range exceeded
CBC12/1343539	SWMW-55(101812)	6830364	Y122971AA/10.0	Chlorobenzene	700	µg/L			Use	
CBC12/1343539	SWMW-55(101812)	6830364	Y122971AA/10.0	All Other VOCs		µg/L			Don't Use	Use 1x results
CBC13/342983	SWMW-126(101612)	6826946	W122931AA/1.0	Trichloroethene	390	µg/L	E	J	Don't Use	Calibration range exceeded
CBC13/342983	SWMW-126(101612)	6826946	W122931AA/10.0	Trichloroethene	330	µg/L			Use	
CBC13/342983	SWMW-126(101612)	6826946	W122931AA/1.0	All Other VOCs		µg/L			Don't Use	Use 1x results
CBC13/342983	SWMW-41(101612)	6826949	W122931AA/1.0	cis-1,2-Dichloroethene	380	µg/L	E	J	Don't Use	Calibration range exceeded
CBC13/342983	SWMW-41(101612)	6826949	W122931AA/1.0	1,1,1-Trichloroethane	1500	µg/L	E	J	Don't Use	Calibration range exceeded
CBC13/342983	SWMW-41(101612)	6826949	W122931AA/10.0	cis-1,2-Dichloroethene	310	µg/L			Use	
CBC13/342983	SWMW-41(101612)	6826949	W122931AA/10.0	1,1,1-Trichloroethane	1100	µg/L			Use	
CBC13/342983	SWMW-41(101612)	6826949	W122931AA/1.0	All Other VOCs		µg/L			Don't Use	Use 1x results
CBC13/342983	SWMW-68(101612)	6826954	W122931AA/1.0	Trichloroethene	710	µg/L	E	J	Don't Use	Calibration range exceeded
CBC13/342983	SWMW-68(101612)	6826954	W122931AA/10.0	Trichloroethene	590	µg/L			Use	
CBC13/342983	SWMW-68(101612)	6826954	W122931AA/1.0	All Other VOCs		µg/L			Don't Use	Use 1x results

PARSONS

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March 8, 2013

SDG/Sample Group	Field Sample ID	Lab Sample ID	QC Batch/ Dilution	Analyte	Result	Units	Lab Flag	VAL Flag (Data Usability Flag)	Data Selection Decision	Reason
CBC13/1342983	SWMW-61(101612)	6826956	W122931AA/1.0	Trichloroethene	360	µg/L	E	J	Don't Use	Calibration range exceeded
CBC13/1342983	SWMW-61(101612)	6826956	W122931AA/10.0	Trichloroethene	310	µg/L			Use	
CBC13/1342983	SWMW-61(101612)	6826956	W122931AA/1.0	All Other VOCs		µg/L			Don't Use	Use 1x results
CBC13/1342983	SWMW-66(101612)	6826964	W122931AA/1.0	cis-1,2Dichloroethene	960	µg/L	E	J	Don't Use	Calibration range exceeded
CBC13/1342983	SWMW-66(101612)	6826964	W122931AA/1.0	Trichloroethene	390	µg/L	E	J	Don't Use	Calibration range exceeded
CBC13/1342983	SWMW-66(101612)	6826964	W122931AA/10.0	cis-1,2Dichloroethene	780	µg/L			Use	
CBC13/1342983	SWMW-66(101612)	6826964	W122931AA/10.0	Trichloroethene	300	µg/L			Use	
CBC13/1342983	SWMW-66(101612)	6826964	W122931AA/1.0	All Other VOCs		µg/L			Don't Use	Use 1x results
CBC14/1343207	SWMW-114(101712)	6828415	Y122971AA/1.0	Trichloroethene	310	µg/L	E	J	Don't Use	Calibration range exceeded
CBC14/1343207	SWMW-114(101712)	6828415	Y122971AA/10.0	Trichloroethene	230	µg/L			Use	
CBC14/1343207	SWMW-114(101712)	6828415	Y1229171AA/10.0	All Other VOCs		µg/L			Don't Use	Use 1x results
CBC15/1343541	SWMU-61(101812)	6830368	12296WA026/1.0	2-Methylnaphthalene	130	µg/L	E	J	Don't Use	Calibration range exceeded
CBC15/1343541	SWMU-61(101812)	6830368	12296WA026/2.0	2-Methylnaphthalene	130	µg/L			Use	
CBC15/1343541	SWMU-61(101812)	6830368	12296WA026/2.0	All Other SVOCs		µg/L			Don't Use	Use 1x results

APPENDIX B

GROUNDWATER SAMPLING RECORDS
(OCTOBER 2012)

6.35 WELL 002,

Well Purge Summary Table

Well ID TWL-2

3 well volumes = 19.05 μ l.

[illegible]

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570, 01000

SAMPLE NUMBER: ITMW-2 (101712)
DATE: 10-17-12

WEATHER: SUNNY, MID 50's
TIME: 1235

SAMPLERS: HUEY, BURKETT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- ITMW-2
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING:

Initial Static Water Level: 45.89 TD = 85.6'
One Well Volume: 3 Volumes
2-Inch Casing: 39.71 Feet of Water x 0.16 Gallons/Foot = 6.35 Gallons 19.05
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY - 13.5 ^{est} Gallons
Purging Device: GRUNDFOS Pump, HDPE TUBING, DEDICATED TUBING
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: Clear, yellowish
Odor: none
Other: NA
Sample Analyzed for: VOCs, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 16.47°C
pH: 5.91
Conductivity (µohms/cm): 1.35 ms/cm
Turbidity (NTU): 18.1
Dissolved Oxygen: 5.74 mg/L
Eh (Redox Potential): +141

SAMPLE CUSTODY

Chain of Custody Number: _____
Shipped Via: FEDEX
Laboratory: LAKASTER LABS
Airbill Number: _____

COMMENTS PID - 0.2 ppm

212 Well Val,

William T. M. S.

$$3 \text{ cubic volumes} = 4,36 \text{ g of}$$
[illegible]

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: ITMW-5 (101612) WEATHER: SUNNY, LOW 60's
DATE: 10-16-12 TIME: 1300

SAMPLERS: HUGG/BURKETT of Parsons
KIRK/MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- ITMW-5
Screen/Sample Depth: _____
Sampling Method: HDPG DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 15.72 (10-15-12) ^{CWT} TD = 28.95'
One Well Volume: 3 Volumes
2-Inch Casing: 13.23 Feet of Water x 0.16 Gallons/Foot = 2.12 Gallons 6.36
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY - 5.5 Gallons
Purging Device: HDPG DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: cloudy, yellowish
Odor: none
Other: NA
Sample Analyzed for: VOCs, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 13.04°C Dissolved Oxygen: 10.48 mg/L
pH: 7.58 Eh (Redox Potential): +152V
Conductivity (µohms/cm): 0.474 ms/cm
Turbidity (NTU): 0.0

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: Fedex Airbill Number: _____

COMMENTS PID - 0.1 ppm

$$TD = 48.0 \text{ DTW} = 21.09 = 26.91$$

$$\times 0.16$$

$$\frac{4.3 \text{ well vol.}}{}$$

$$3 \text{ well volumes} = 12.9 \text{ gal}$$

Well Purge Summary Table

Well ID 1TMD-6

Date	Time	gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/15/12	14:07	4	7.32	0.673	994	15.62	1.63	22			
10/15/12	14:11	6	7.01	0.867	933	15.31	8.28	-11			
10/15/12	14:17	8	6.96	0.887	338	15.09	2.24	-25			
10/15/12	14:21	10	6.92	0.893	26.1	14.92	1.74	-48			
10/15/12	14:25	12	6.87	0.935	18.7	14.95	2.26	-59			
10/15/12	14:27	13	6.86	0.963	17.2	14.86	2.16	-61	0	80	0

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: ITMW-6(101612)
DATE: 10-16-12

WEATHER: SUNNY, LOW 60's
TIME: 1315

SAMPLERS: HUGY, BURKEST of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- ITMW-6
Screen/Sample Depth: _____
Sampling Method: HOPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 21.09 (10-9-12) TD = 48.0'
One Well Volume: _____
2-Inch Casing: 26.91 Feet of Water x 0.16 Gallons/Foot = 4.3 Gallons 3 Volumes
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons 12.9
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: 13.0 Gallons
Purging Device: GRUNDFOS PUMP, HOPE TUBING, DEDICATED TUBING
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: SLIGHTLY CLOUDY
Odor: NONE
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: MS/MSD - SAME SAMPLE TIME
QC Samples Analyzed for: SAME AS SAMPLE

FIELD MEASUREMENTS

Temperature (C/F): 15.17°C Dissolved Oxygen: 9.76 mg/L
pH: 8.26 Eh (Redox Potential): +138
Conductivity (µohms/cm): 0.117 mS/cm
Turbidity (NTU): 1.3

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID - 0.0 ppm

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC-CHEVRON BEACON, NY
PROJECT NUMBER: 447570, 01000

SAMPLE NUMBER: FMW-13 (10/11/12) WEATHER: MOSTLY SUNNY, LOW 50's
DATE: 10-11-12 TIME: 0950

SAMPLERS: C. Huey of Parsons
D. Burkert of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW-
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 8.71 (10/9/12) TD = 20.0'
One Well Volume: 3 Volumes
2-Inch Casing: 11.29 Feet of Water x 0.16 Gallons/Foot = 1.8 Gallons 5.4
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY 2.0 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: CLEAR
Odor: NONE
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 14.75°C Dissolved Oxygen: 6.88
pH: 5.96 Eh (Redox Potential): -2
Conductivity (µohms/cm): 0.619
Turbidity (NTU): 9.8

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID - 0.0 ppm

$$\frac{20.16}{0.26 \text{ mol vol}}$$

Well ID TW-14

3 well volumes = 0.78 gal.

[illegible]

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC-CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: ITMW-14(101112) WEATHER: PARTLY SUNNY, MID 40's
DATE: 10-11-12 TIME: 0920

SAMPLERS: C. HUEY of Parsons
D. BURKERT of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- ITMW-14
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 4.90 (10/9/12) TD = 6.55'
One Well Volume: _____ 3 Volumes
2-Inch Casing: 1.65 Feet of Water x 0.16 Gallons/Foot = 0.26 Gallons 0.78
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY - 0.5 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: SLIGHTLY CLOUDY
Odor: NONE
Other: NA
Sample Analyzed for: VOCs, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 14.99 Dissolved Oxygen: 7.12
pH: 6.19 Eh (Redox Potential): -3
Conductivity (μ ohms/cm): 0.612
Turbidity (NTU): 54.5

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID - 16.7 ppm

$$TD = 40.0 \text{ DTW} = 15.20 = 24.8$$

$$\times 0.16$$

$$4.0 \text{ well vol.}$$

$$3 \text{ well volumes} = 12.0 \text{ gal.}$$

Well Purge Summary Table

Well ID TMW-22

Date	Time	gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/10/12	16:10	4	6.88	0.383	77	16.56	8.40	-42			
"	16:20	8	6.61	0.346	36.6	15.48	7.75	-78			
"	16:30	12	6.65	0.360	78.6	14.99	5.77	49	0	120	1.2

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC-CHEVRON BEACON, NY
PROJECT NUMBER: 447570, 01000

SAMPLE NUMBER: ITMW-22 (101112) WEATHER: MOSTLY SUNNY, HIGH 50's
DATE: 10-11-12 TIME: 1230

SAMPLERS: C. Huey of Parsons
D. Buckert of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- ITMW- 22
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 15.20 (10/9/12) TD = 40.0'
One Well Volume: _____
2-Inch Casing: 24.8 Feet of Water x 0.16 Gallons/Foot = 4.0 Gallons 3 Volumes
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons

Volume of groundwater purged: 12.0 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: CLEAR
Odor: NONE
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 16.27°C Dissolved Oxygen: 5.35
pH: 6.38 Eh (Redox Potential): 21
Conductivity (µohms/cm): 0.258
Turbidity (NTU): 23

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID - 1367 ppm

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC-CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: ITMW-24 (101812) WEATHER: SUNNY, LOW 50^s
DATE: 10-18-12 TIME: 0945

SAMPLERS: HUEY, BURKERT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- ITMW-24
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 7.38 (10-9-12) TD = 13.11
One Well Volume: 3 Volumes
2-Inch Casing: 5.73 Feet of Water x 0.16 Gallons/Foot = 3.72 Gallons 11.16
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY - 6.0 Gallons
Purging Device: PVC BAILER WITH POLY ROPE
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: Clear
Odor: none
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 16.59°C Dissolved Oxygen: 5.45 mg/L
pH: 6.66 Eh (Redox Potential): +5
Conductivity (uohms/cm): 1.09 mS/cm
Turbidity (NTU): 31.9

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID = 0.0 ppm

2.20 Well Vol.

Well ID ITW-25

3 well volumes = 6.6 gal.

[illegible]

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: ITMW-25 (10/12/12) WEATHER: MOSTLY CLOUDY, LOW 40's
DATE: 10-12-12 TIME: 0750

SAMPLERS: C. HUGY / J. KIRK of Parsons
D. BURKERT of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- ITMW-25
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 11.04 (10/9/12) TD = 24.8'
One Well Volume: _____ 3 Volumes
2-Inch Casing: 13.76 Feet of Water x 0.16 Gallons/Foot = 2.20 Gallons 6.6
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY 4.0 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: CLOUDY
Odor: SLIGHT ODOR
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 15.04 °C Dissolved Oxygen: 5.78
pH: 6.30 Eh (Redox Potential): 118
Conductivity (µohms/cm): 1.27
Turbidity (NTU): 129

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID - 0.0 ppm

5.17 well vol,

3 well volumes = 15.51 gal.

Well Purge Summary Table

Well ID TNW-30[illegible]

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC-CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: 1TMW-30(101812)

WEATHER: SUNNY, CLEAR MID 40's

DATE: 10-18-12

TIME: 0810

SAMPLERS: HUEY, BURKEET of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- 1TMW-30
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 7.66 (10-9-12) TD = 40.0'
One Well Volume: _____
2-Inch Casing: 32.34 Feet of Water x 0.16 Gallons/Foot = 5.17 Gallons 3 Volumes
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons 15.51
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY - 9.0 Gallons

Purging Device: HDPE DISPOSABLE BAILER

Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: clear
Odor: slight
Other: NA
Sample Analyzed for: VOCs, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 15.31°C
pH: 6.48
Conductivity (µohms/cm): 0.474 mS/cm
Turbidity (NTU): 9.8
Dissolved Oxygen: 3.97 mg/L
Eh (Redox Potential): +52

SAMPLE CUSTODY

Chain of Custody Number: _____
Shipped Via: FEDEX
Laboratory: LANCASTER LABS
Airbill Number: _____

COMMENTS PID - 0.0 ppm

$$TD = 40.0 \text{ DTW} = 6.84 = 33.16$$

$$\times 0.16$$

$$5.38 \text{ well vol.}$$

$$3 \text{ well volumes} = 15.9 \text{ gal.}$$

Well Purge Summary Table

Well ID 1TMO-31

Date	Time	gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/10/12	16:14	4.0	6.72	0.349	110	16.51	7.84	-83			
10/10/12	16:22	8.0	6.59	0.344	107	15.96	7.58	-91			
10/10/12	16:31	12.0	6.59	0.343	211	15.74	7.17	-780			
10/10/12	16:36	16.0	6.66	0.343	216	15.64	7.27	-78	0	140	0.8

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC CHEVRON BEACON, NY
PROJECT NUMBER: 447570, 01000

SAMPLE NUMBER: 1TMW-31 (101112) WEATHER: MOSTLY SUNNY, HIGH 50's
DATE: 10-11-12 TIME: 1245

SAMPLERS: C. Huey of Parsons
D. BURKEAT of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- 1TMW-31
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 6.84 (10/9/12) TD = 40.0'
One Well Volume: 3 Volumes
2-Inch Casing: 33.16 Feet of Water x 0.16 Gallons/Foot = 5.3 Gallons 15.9
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____
Volume of groundwater purged: 16.0 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: CLEAR
Odor: NONE
Other: NA
Sample Analyzed for: VOCs, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL. METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 17.33 °C Dissolved Oxygen: 3.22
pH: 6.44 Eh (Redox Potential): -37
Conductivity (µohms/cm): 0.347
Turbidity (NTU): 8.9

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEx Airbill Number: _____

COMMENTS PID - 11.8 ppm

TD - 23.6 DTW - 5.61 = 17.99
 x 0.16
 well volume - 2.9 gal. 2.87

8.7 gal. Total (3)

Well Purge Summary Table

Well ID Summ - 2

Date	Time	gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/10/12	1319	2.9	6.23	1.14	104	14.96	7.22	+26			
10/10/12	1323	4.5	6.26	1.14	667	14.60	3.31	+2	Deple 4.5 gal.		
									0	200	0.0

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-2(101112) WEATHER: MOSTLY SUNNY, LOW 50^s
DATE: 10-11-12 TIME: 1055

SAMPLERS: C. HUEY of Parsons
D. BURKETT of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-2
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 5.61 (10/9/12) TD = 23.6'
One Well Volume: 3 Volumes
2-Inch Casing: 17.99 Feet of Water x 0.16 Gallons/Foot = 2.87 Gallons 8.7
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY - 4.5 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: SLIGHT RUST COLOR
Odor: NONE
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 14.54 Dissolved Oxygen: 4.66
pH: 6.27 Eh (Redox Potential): 13
Conductivity (µohms/cm): 1.16
Turbidity (NTU): 24.1

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PLD - 0.0 ppm

35.27
x .16
5.643

TD = 40.0 DTW = 4.73 -

3 well volumes - 16.9 gal

Well Purge Summary Table

Well ID sumw-9

Date	Time	Gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/17/12	10:12	4	6.83	1.46	208	16.35	3.80	-66			
10/17/12	10:25	8	6.89	1.53	215	15.41	4.80	-76	0	240	0
			0.45 @ 8.5 gal.								

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEARON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-9 (101812) WEATHER: SUNNY, MID 40's
DATE: 10-18-12 TIME: 0917

SAMPLERS: HUEY, BURKERT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-9
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 4.73 (10-9-12) TD = 40.0'
One Well Volume: _____
2-Inch Casing: 35.27 Feet of Water x 0.16 Gallons/Foot = 5.64 Gallons 3 Volumes
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons 16.9
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY - 8.5 Gallons
Purging Device: HDPE ^{CHT} DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: CLEAR
Odor: NONE
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 16.90°C Dissolved Oxygen: 6.27 mg/L
pH: 6.64 Eh (Redox Potential): +132 V
Conductivity (µohms/cm): 1.43 ms/cm
Turbidity (NTU): 19.8

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID - 0.0 ppm

Well Purge Summary Table

Well ID: S3FW-10

[illegible]

PARSONS GROUNDWATER SAMPLING RECORD

SITE NAME:

Former Tric-Chloride, Beacon, NY

PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SUMW-10 (1012/12)

WEATHER: mostly cloudy, low 40°

DATE: 10-12-12

TIME: 0800

SAMPLERS: A. Huey

of Parsons

D. Buckner

of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location:

Monitoring well MW- SUMW-10

Screen/Sample Depth:

HDFE Disposable Bailor

Sampling Method:

GROUNDWATER PURGING

Initial Static Water Level:

3.43 (10/9/12)

TD = 9.0'

One Well Volume:

2-inch Casing:

5.57

Feet of Water x 0.16 Gallons/Foot =

0.89

Gallons

3-inch Casing:

Feet of Water x 0.36 Gallons/Foot =

Gallons

4-inch Casing:

Feet of Water x 0.65 Gallons/Foot =

Gallons

Volume of groundwater purged:

Dry - 1.3

Gallons

Purging Device:

HDFE Disposable Bailor

Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: cloudy

Odor: SLIGHT odor AND SHERM

Other: NA

Sample Analyzed for:

VOCs, CALIFORNIA OXYGENATES, CHLORIDES, SULFATE, TAL METALS, SVOCs

QC Samples at this Location:

NA

QC Samples Analyzed for:

NA

FIELD MEASUREMENTS

Temperature (C/F):

17.58°C

pH:

6.35

Conductivity (uohms/cm):

1.23

Turbidity (NTU):

310

SAMPLE CUSTODY

Chain of Custody Number:

Shipped Via: FedEx

Airbill Number:

LAMCASTER LABS

COMMENTS: P10 - 0.0 ppm

USED Pump

TD = 55.50 DTW = 22.65 = 32.85
 x 0.16
 well vol. 5.26

3 well volumes = 15.8 gal.

Well Purge Summary Table

Well ID ~~S2012~~ S2012 - 12

Date	Time	gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/16/12	0953	4.0	6.11	3.36	179	11.91	5.44	132			
10/16/12	0956	8.0	6.44	3.29	157	13.30	2.66	94			
10/16/12	0959	12.0	6.51	3.27	132	13.60	2.81	91			
10/16/12	1002	16.0	6.53	3.27	115	13.63	2.21	88	0	360	0

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHESEBON BEACON, NY
PROJECT NUMBER: 447570, 01000

SAMPLE NUMBER: SWMW-12(101712)
DATE: 10-17-12

WEATHER: CLEAR LOW 40°
TIME: 0815

SAMPLERS: HUEY, BARKERT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-12
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAULER

GROUNDWATER PURGING

Initial Static Water Level: 22.65 (10-9-12) TD = 55.50'
One Well Volume: _____
2-Inch Casing: 32.85 Feet of Water x 0.16 Gallons/Foot = 5.26 Gallons 3 Volumes
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons

Volume of groundwater purged: 16.0 Gallons
Purging Device: GRANDFOS Pump, HDPE TUBING
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: Clear
Odor: NONE
Other: NA

Sample Analyzed for: VOCs, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA EQUIPMENT BLANK = EB-03(101712) @
QC Samples Analyzed for: NA SAME AS SAMPLE, COLLECTED WITH BAULER BEFORE SAMPLING THIS WELL.

FIELD MEASUREMENTS

Temperature (C/F): 10.32 °C
pH: 6.23
Conductivity (µohms/cm): 3.02 ms/cm
Turbidity (NTU): 3.6

Dissolved Oxygen: 4.12 mg/L
Eh (Redox Potential): +197

SAMPLE CUSTODY

Chain of Custody Number: _____
Shipped Via: FEDEX
Laboratory: LANCASTER LABS
Airbill Number: _____

COMMENTS PID - 0.0 ppm

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: Former TRC - CHEVRON BENCON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-13 (101712)
DATE: 10-17-12

WEATHER: SUNNY, LOW 50's
TIME: 1105

SAMPLERS: HUGO, BURKERT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-13
Screen/Sample Depth: _____
Sampling Method: HOPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 47.39 (10-9-12) TD = 73.5'

One Well Volume:					<u>3 Volumes</u>
2-Inch Casing:	<u>26.11</u>	Feet of Water x 0.16 Gallons/Foot =	<u>4.18</u>	Gallons	<u>12.5</u>
3-Inch Casing:	_____	Feet of Water x 0.36 Gallons/Foot =	_____	Gallons	_____
4-Inch Casing:	_____	Feet of Water x 0.65 Gallons/Foot =	_____	Gallons	_____

Volume of groundwater purged: DRY - 7.5 GW Gallons
Purging Device: GRANDFOS PUMP, HOPE TUBING, DEDICATED TUBING
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: Cloudy, yellowish
Odor: none
Other: NA
Sample Analyzed for: VOCs, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 15.14°C
pH: 6.67
Conductivity (µohms/cm): 2.25 mskm
Turbidity (NTU): 109
Dissolved Oxygen: 6.57 mg/L
Eh (Redox Potential): +200

SAMPLE CUSTODY

Chain of Custody Number: _____
Shipped Via: FEDEX
Laboratory: LANCASTER LABS
Airbill Number: _____

COMMENTS PID - 1.1 ppm

TD = 40.0 DTW = 9,36 = 30.64
 x 0.16
 well vol = 4.9
 3 well volumes = 14.7 gal.

Well Purge Summary Table

Well ID SUMW-14

Date	Time	Gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/15/12	10:25	4.0	6.93	1.35	891	15.00	7.34	-54			
10/15/12	10:24	9	6.84	1.43	>5000 v. 5:17	14.48	2.65	-49			
10/16/12	08:40								0	180	0

PCY @ 9.5 gallons

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570, 01000

SAMPLE NUMBER: SWMW-14 (101612) WEATHER: clear, 55°F
DATE: 10-16-12 TIME: 0840

SAMPLERS: HUGH, BUCKERT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-14
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 9.36 (10-9-12) TD=40.0'
One Well Volume: 3 Volumes
2-Inch Casing: 30.64 Feet of Water x 0.16 Gallons/Foot = 4.9 Gallons 14.7
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY - 9.0 Gallons
Purging Device: GRUNDFOS PUMP, HOPE TUBING, DEDICATED TUBING
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: SLIGHTLY REDDISH COLOR
Odor: NONE
Other: NA
Sample Analyzed for: VOCs, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SUOCS
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 14.54 Dissolved Oxygen: 10.34
pH: 7.40 Eh (Redox Potential): 164
Conductivity (uohms/cm): 0.153
Turbidity (NTU): 276

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID - 0 ppm

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRL - CHEVRON BEACON, NY
PROJECT NUMBER: 447570, 01000

SAMPLE NUMBER: SWMW-15(101612) WEATHER: SUNNY, LOW 60¹
DATE: 10-16-12 TIME: 1355

SAMPLERS: HUEY, BURKERT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-15
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 14.60 (10-9-12) TD = 25.0'
One Well Volume: 3 Volumes
2-Inch Casing: 10.40 Feet of Water x 0.16 Gallons/Foot = 1.664 Gallons 5.0
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY - 3.5 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: yellowish, cloudy
Odor: none
Other: NA
Sample Analyzed for: VOCs, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 16.4/°C Dissolved Oxygen: 3.16 mg/L
pH: 6.62 Eh (Redox Potential): -45
Conductivity (µohms/cm): 108 mS/cm
Turbidity (NTU): 54.8

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID - 0.0 ppm

3 cube volumes = 2.23 gal.

Well Purge Summary Table

Well ID: 50412-24

[illegible]

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC-CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-24 (101212) WEATHER: MOSTLY CLOUDY, LOW 40's
DATE: 10-12-12 TIME: 0815

SAMPLERS: C. HUGY of Parsons
D. BURKERT of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-24
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 4.85 (10/9/12) TD = 9.5'
One Well Volume: _____ 3 Volumes
2-Inch Casing: 4.65 Feet of Water x 0.16 Gallons/Foot = 0.744 Gallons 2.23
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____
Volume of groundwater purged: 2.75 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: CLOUDY, SLIGHT RUST COLOR
Odor: NONE
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 16.94 °C Dissolved Oxygen: 2.60
pH: 6.44 Eh (Redox Potential): 10
Conductivity (µohms/cm): 1.55
Turbidity (NTU): 565

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEx Airbill Number: _____

COMMENTS PID - 0.0 ppm

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC- ^{CAS} CHEVRON BEA BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-25 (101212) WEATHER: MOSTLY CLOUDY, LOW 40's
DATE: 10-12-12 TIME: 0830

SAMPLERS: C. HUGY / J. KIRK of Parsons
D. BURKERT of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-25
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 3.64 (10/9/12) TD = 10.5'
One Well Volume: 3 Volumes
2-Inch Casing: 6.86 Feet of Water x 0.16 Gallons/Foot = 1.1 Gallons 3.3
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: 3.3 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: CLEAR
Odor: NONE
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 17.43 Dissolved Oxygen: 7.43
pH: 6.96 Eh (Redox Potential): 36
Conductivity (µohms/cm): 0.786
Turbidity (NTU): 1.6

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID - 0.0 ppm

$$TD = 56.0 \quad \text{OTW} = 8.64 = 47.36$$

$$\times 0.16$$

$$\text{Wet Vol } 7.58$$

3 well volumes = 22.74 μ l.

Well ID 7E-MWS

[illegible]

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER CHEVRON - BEACON, NY (TRC)
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-27 (101112) WEATHER: MOSTLY SUNNY, LOW 60's
DATE: 10-11-12 TIME: 1345

SAMPLERS: C. HUGH / D. BURKERT of Parsons
of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-27
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER, POLY TWINE

GROUNDWATER PURGING

Initial Static Water Level: 8.64 (10/9/12) TD = 56.0'
One Well Volume: 758 3 Volumes
2-Inch Casing: 47.36 Feet of Water x 0.16 Gallons/Foot = CAN 0.16 Gallons 22.74
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY - 10.0 Gallons
Purging Device: HDPE DISPOSABLE BAILER CAN GRUNDOS PUMP / HDPE TUBING
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT.

SAMPLE DESCRIPTION

Color: CLEAR
Odor: NONE
Other: N/A
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: N/A
QC Samples Analyzed for: N/A

FIELD MEASUREMENTS

Temperature (C/F): 18.26°C Dissolved Oxygen: 7.30
pH: 7.68 Eh (Redox Potential): 46
Conductivity (uohms/cm): 0.909
Turbidity (NTU): 0.0

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS P10-0.0 ppm

$$\begin{array}{r} 1.04 \\ \times 0.16 \\ \hline \end{array}$$
Well ID: SW-78

3 cell volumes = 3.12 gal,

[illegible]

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER CHEVRON - BEACON, NY (TRC)
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-28(101112) WEATHER: MOSTLY SUNNY, LOW 60s
DATE: 10-11-12 TIME: 1355

SAMPLERS: C. HUEY of Parsons
D. BURKERT of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-28
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 9.99 (10-9-12) TD = 16.5'
One Well Volume: _____ **3 Volumes**
2-Inch Casing: 6.51 Feet of Water x 0.16 Gallons/Foot = 1.04 Gallons 3.12
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: _____ Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: CLOUDY
Odor: NONE
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 18.84 Dissolved Oxygen: 1.63
pH: 7.17 Eh (Redox Potential): -96
Conductivity (µohms/cm): 1.09
Turbidity (NTU): 94.1

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID - 0.0 ppm

$$TD = 14.78 \text{ DTW} = 8.54 = 6.24$$

$$\times 0.16$$

$$\text{Well Vol. } 1.0$$

$$3 \text{ Well VOLUMES} = 3.0 \text{ gal}$$

Well Purge Summary Table

Well ID SumW-30

Date	Time	Gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/18/12	0857 0858	1	6.36	1.17	940	13.31	3.15	-51			
10/18/12	0900	1.75	6.58	0.932	568	14.23	2.96	-72			
10/18/12	0903	2.5	6.49	0.816	389	14.20	18.20	-72			
10/18/12	0906	3.5	6.47	0.736	342	14.98	3.20	-73	0	180	1.0

PID = 27.4

Brown silty purge water

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC-CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-30 (101812) WEATHER: SWAMPY, BREEZY, HIGH 60'S
DATE: 10-18-12 TIME: 1340

SAMPLERS: HUEY, BURKERT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-30
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 8.54 (10-9-12) T.D. = 14.78'
One Well Volume: _____
2-Inch Casing: 6.24 Feet of Water x 0.16 Gallons/Foot = 1.0 Gallons 3 Volumes
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons 3.0
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: 3.5 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: CLEAR
Odor: SLIGHT ODOR
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 16.78 Dissolved Oxygen: 5.12
pH: 6.61 Eh (Redox Potential): -66
Conductivity (µohms/cm): 0.812
Turbidity (NTU): 16.3

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS 27.4 CML
PID - 0.0 ppm

$$T_D = 11.2 \quad \sigma_{TD} = 6.94 = 4.26$$
~~59.0~~ 0.65 X

CAH $\frac{2.8 - 0.68}{2.8 - 0.68}$ 66.6 VOL.

3 wheel volumes = 2.0×8.4 gal.

Well Purge Summary Table

Well ID Sand-31

[illegible]

P:\Chevron Beacon\Farms\Well Purge Summaries

077

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-31 (101812)
DATE: 10-18-12

WEATHER: SUNNY, BREEZY, HIGH 60¹
TIME: 1355

SAMPLERS: HUEY, BURKERT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-31
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 6.94 (10-9-12) TD = 11.2'

One Well Volume:					3 Volumes
2-Inch Casing:	<u>CAL 4.26</u>	Feet of Water x 0.16 Gallons/Foot =	<u>0.68</u> ^{CAL}	Gallons	<u>2.0</u>
3-Inch Casing:	<u>7.26</u>	Feet of Water x 0.36 Gallons/Foot =	<u>2.6</u>	Gallons	<u>8.4</u>
4-Inch Casing:	<u>4.26</u>	Feet of Water x 0.65 Gallons/Foot =	<u>2.8</u>	Gallons	<u>8.4</u>

Volume of groundwater purged: DRY - 3.5 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: CLOUDY
Odor: NONE
Other: NA
Sample Analyzed for: VOCs, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F):	<u>18.21</u>	Dissolved Oxygen:	<u>7.89</u>
pH:	<u>6.55</u>	Eh (Redox Potential):	<u>-71</u>
Conductivity (µohms/cm):	<u>0.966</u>		
Turbidity (NTU):	<u>21.0</u>		

SAMPLE CUSTODY

Chain of Custody Number: _____
Shipped Via: FEDEX
Laboratory: LANCASTER LABS
Airbill Number: _____

COMMENTS PID - 0.0 ppm

$$TD = 14.4 \text{ DTW} = 7.75 = 6.65$$

$$\times 0.16$$

$$1.06 \text{ well vol.}$$

$$3 \text{ well volumes} = 3.2 \text{ gal.}$$

Well Purge Summary Table

Well ID Summ-32

Date	Time	Gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/18/12	09:16	0.8	6.52	1.82	972	14.60	3.02	-59			
10/18/12	09:19	1.6	6.62	1.71	71000	15.07	2.94	-64			
10/18/12	09:22	2.4	6.63	1.41	71000	15.25	8.11	-77			
10/18/12	09:25	3.25	6.63	1.30	857	15.31	8.17	-79	0	260	0.5

OID = 0

brown silty purge water

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC-CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-32 (10/8/12)
DATE: 10-18-12

WEATHER: SUNNY, BREEZY, HIGH 60'S
TIME: 1405

SAMPLERS: HUEY, BURKERT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-32
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 7.75 (10-9-12) TD=14.4'

One Well Volume:					<u>3 Volumes</u>
2-Inch Casing:	<u>6.65</u>	Feet of Water x 0.16 Gallons/Foot =	<u>1.06</u>	Gallons	<u>3.2</u>
3-Inch Casing:	_____	Feet of Water x 0.36 Gallons/Foot =	_____	Gallons	_____
4-Inch Casing:	_____	Feet of Water x 0.65 Gallons/Foot =	_____	Gallons	_____

Volume of groundwater purged: 3.25 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: SLIGHTLY CLOUDY
Odor: SLIGHT
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F):	<u>17.12</u>	Dissolved Oxygen:	<u>8.43</u>
pH:	<u>6.65</u>	Eh (Redox Potential):	<u>-69</u>
Conductivity (μ ohms/cm):	<u>1.28</u>		
Turbidity (NTU):	<u>92.8</u>		

SAMPLE CUSTODY

Chain of Custody Number: _____
Shipped Via: FEDEX
Laboratory: LANCASTER LABS
Airbill Number: _____

COMMENTS PID - 0.0ppm

2.5 well vol.

Well ID SWMD-33[illegible]
$$0 = IT$$

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-33(101812) WEATHER: SUNNY, BREEZY, HIGH 60's
DATE: 10-18-12 TIME: 1330

SAMPLERS: HUEY, BURKERT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-33
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 6.94 (10-9-12) TD = 10.8'
One Well Volume: _____
2-Inch Casing: 3.36 CAN Feet of Water x 0.16 Gallons/Foot = 2.5 Gallons 3 Volumes
3-Inch Casing: 3.86 Feet of Water x 0.36 Gallons/Foot = 2.5 Gallons CAN 7.5
4-Inch Casing: 3.86 Feet of Water x 0.65 Gallons/Foot = 2.5 Gallons 7.5

Volume of groundwater purged: dry - 2.5 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: CLEAR
Odor: SUGAR ODOR
Other: NA
Sample Analyzed for: VOCs, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 18.55 Dissolved Oxygen: 3.12
pH: 6.34 Eh (Redox Potential): -45
Conductivity (µohms/cm): 1.11
Turbidity (NTU): 0.5

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID - 0.0 ppm

$$TD = 45.0 \text{ DTW} = 8.80 = 36.2$$

$$\times 0.16$$

$$\frac{5.79}{\text{Well Vols}}$$

$$3 \text{ Well Volumes} = 17.4 \text{ gal.}$$

Well Purge Summary Table

Well ID Somew-41

Date	Time	gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/15/12	10:01	3	7.11	1.32	> 1000 - very silty	15.91	4.85	-49			
10/15/12	10:06	6	6.96	1.36	914	15.06	2.20	-52			
10/15/12	10:11	9	6.80	1.38	415	15.08	2.92	-59			
10/15/12	10:16	12	6.88	1.38	162	14.89	5.12	-50			
10/15/12	10:21	15	6.82	1.38	28.4	15.91	5.28	-57			
10/15/12	10:24	18	6.81	1.38	24.8	15.04	2.54	-58	0	240	0

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC-CHEVRON BEACON, NY
PROJECT NUMBER: 447570, 01000

SAMPLE NUMBER: SWMW-41 (101612) WEATHER: CLEAR 45°F
DATE: 10-16-12 TIME: 0915

SAMPLERS: HUEY, BURKERT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-41
Screen/Sample Depth: _____
Sampling Method: HOPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 8.80 (10-9-12) TD = 45.0'
One Well Volume: 3 Volumes
2-Inch Casing: 36.2 Feet of Water x 0.16 Gallons/Foot = 5.79 Gallons 17.4
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: 18.0 Gallons
Purging Device: GRANDPOS PUMP, HOPE TUBING
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: Clear
Odor: no odor
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 15.14°C Dissolved Oxygen: 1.67 mg/L
pH: 6.71 Eh (Redox Potential): +203
Conductivity (µohms/cm): 1.30 mS/cm
Turbidity (NTU): 11.7

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS P10 - 0.0 ppm

$$TD = 30.0 = DTW = 3.37 = 26.63$$

$$\times 0.16$$

$$\frac{4.26 \text{ well vol.}}{}$$

$$: 3 \text{ well volumes} = 12.8 \text{ gal.}$$

Well Purge Summary Table

Well ID SOMW-44

Date	Time	Gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/17/12	1008	3.0	6.75	1.02	32.9	17.83	6.41	-52			
10/17/12	1012	6.5	6.77	1.10	37.9	18.00	3.19	-72			
10/17/12	1017	10.0	6.84	1.16	13.0	17.27	2.90	-75			
10/17/12	1021	13.0	6.70	1.12	1.2	17.68	4.66	-79	0	280	1.0

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC-CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-44(101812) WEATHER: SUNNY, MID 40's
DATE: 10-18-12 TIME: 0855

SAMPLERS: HUEY, BURKETT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-44
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 3.37 (10-9-12) TD = 30.0'
One Well Volume: _____ 3 Volumes
2-Inch Casing: 26.63 Feet of Water x 0.16 Gallons/Foot = 4.26 Gallons 12.8
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: 13.0 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: Clear
Odor: malodorous
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 16.38°C Dissolved Oxygen: 5.30 mg/L
pH: 6.16 Eh (Redox Potential): -57
Conductivity (µohms/cm): 57 ms/cm 1.14 ms/cm
Turbidity (NTU): 10.4

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID - 0.0 ppm

3 well volumes = 5.43 g/L

Well ID SUMW-45

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-45 (101812) WEATHER: SUNNY, HIGH 40°
DATE: 10-18-12 TIME: 1045

SAMPLERS: HUEY, BURKETT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-45
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 19.66 (10-9-12) TD = 31.0'
One Well Volume: _____ 3 Volumes
2-Inch Casing: 11.34 Feet of Water x 0.16 Gallons/Foot = 1.81 Gallons 5.43
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY - 3.0 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: Clear
Odor: Strong
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 19.45°C Dissolved Oxygen: 7.04 mg/L
pH: 6.14 Eh (Redox Potential): -20 V
Conductivity (µohms/cm): 2.30 ms/cm
Turbidity (NTU): 9.0

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID - 15.3 ppm

$$TD = 14.9 \text{ DTW} = 4.69 = 10.21$$

$$\times 0.16$$

$$\frac{1.634 \text{ well vol.}}{3 \text{ well volumes} = 4.9 \text{ gal.}}$$

Well Purge Summary Table

Well ID SWPWL-50

Date	Time	Gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/18/12	0922	1.5	6.67	0.951	402	15.22	8.15	-80			
10/18/12	0926	2.75	6.72	0.897	551	15.25	7.59	-88			
10/18/12	0930	4.0	6.70	0.879	636	15.25	7.20	-91			
10/18/12	0933	5.25	6.72	0.857	933	15.04	8.16	-93	0	320	1.3

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC-CHEVRON BEACON, NY
PROJECT NUMBER: 447570, 01000

SAMPLE NUMBER: SWMW-50(101812) WEATHER: SUNNY, BREEZY, HIGH 60^{LS}
DATE: 10-18-12 TIME: 1416

SAMPLERS: HUEY, BURKERT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-50
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 4.69 (10-9-12) TD = 14.9'
One Well Volume: 3 Volumes
2-Inch Casing: 10.21 Feet of Water x 0.16 Gallons/Foot = 1.634 Gallons 4.9
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: 5.25 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: SLIGHTLY CLOUDY
Odor: YES
Other: NA
Sample Analyzed for: VOCs, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 22.25 Dissolved Oxygen: 10.01
pH: 7.22 Eh (Redox Potential): -103
Conductivity (µohms/cm): 0.487
Turbidity (NTU): 228

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEx Airbill Number: _____

COMMENTS P10-0.0 ppm

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SLMW-55(101812) WEATHER: SUNNY, LOW 50's
DATE: 10-18-12 TIME: 1025

SAMPLERS: HUGH, BURKETT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SLMW-55
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 14.91 (10-9-12) TD = 20.0'
One Well Volume: _____ 3 Volumes
2-Inch Casing: 5.09 Feet of Water x 0.16 Gallons/Foot = 0.814 Gallons 2.44
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY - 0.6 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: Clear
Odor: None
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 18.58°C Dissolved Oxygen: 5.78 mg/L
pH: 6.35 Eh (Redox Potential): -40
Conductivity (µohms/cm): 0.987 ms/cm
Turbidity (NTU): 103

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS P10 - 0.0 ppm

XOib

5.66 Wei Vol.

3 well volumes = 17.0 μ l.

Well ID SWMW-56

[illegible]

**PARSONS
GROUNDWATER SAMPLING RECORD**

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-56 (101612) WEATHER: SUNNY, LOW 60's
DATE: 10-16-12 TIME: 1422

SAMPLERS: HUEY/BURKE of Parsons
KIRK/MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-56
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 19.57 (10-9-12) TD = 55.0

One Well Volume: _____ 3 Volumes

2-Inch Casing: 35.43 Feet of Water x 0.16 Gallons/Foot = 5.66 Gallons 17.0

3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____

4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY - 6.75 Gallons

Purging Device: GRUNDFOS PUMP, ~~HDPE TUBING~~ DEDICATED TUBING

Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: Clear

Odor: None

Other: NA

Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs

QC Samples at this Location: NA

QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 14.87°C

Dissolved Oxygen: 7.53 mg/L

pH: 7.22

Eh (Redox Potential): +52

Conductivity (μ ohms/cm): 1.02 ms/cm

Turbidity (NTU): 13.5

SAMPLE CUSTODY

Chain of Custody Number: _____

Laboratory: LANCASTER LABS

Shipped Via: FedEx

Airbill Number: _____

COMMENTS PIB = 0.0 ppm

$$TD = 30.0 \text{ DTW} = 13.15 = 16.85$$

$$\times 0.16$$

$$\frac{2.7}{2.7} \text{ well vol.}$$

$$3 \text{ well volumes} = 8.1 \text{ gal.}$$

Well Purge Summary Table

Well ID SUMW-58

Date	Time	gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/15/12	1538	2.0	6.59	1.78	877	16.95	2.80	-21			
10/15/12	1542	4.0	6.60	1.79	281	16.37	6.57	-7			
10/15/12	1545	6.0	6.79	1.76	513	16.46	3.36	1			
10/15/12	1549	8.2	6.69	1.79	922	15.97	2.19	13	0	260	0

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570, 01000

SAMPLE NUMBER: SWMW-58(101612)
DATE: 10-16-12

WEATHER: SUNNY, LOW 60's
TIME: 15:1452

SAMPLERS: HUGH, BUCKLEY of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-58
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 13.15 TD = 30.0'
One Well Volume: _____
2-Inch Casing: 16.85 Feet of Water x 0.16 Gallons/Foot = 2.7 Gallons 3 Volumes
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons 8.1
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: 8.2 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: Clear
Odor: none
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES (ALCOHOLS, SULFATE, TAL METALS, SUDES
QC Samples at this Location: DUPLICATE SWMW-158(101612) @ 1502
QC Samples Analyzed for: SAME AS SAMPLE

FIELD MEASUREMENTS

Temperature (C/F): 15/69°C
pH: 6.68
Conductivity (µohms/cm): 177 ms/cm
Turbidity (NTU): 9.0
Dissolved Oxygen: 10.00 mg/L
Eh (Redox Potential): +143

SAMPLE CUSTODY

Chain of Custody Number: _____
Shipped Via: FEDEX
Laboratory: LANCASTER LABS
Airbill Number: _____

COMMENTS P10 - 0.0 ppm

$$TD = 14.8 \quad DTW = 4.82 = 9.98$$

$$\times 0.16$$

$$\frac{1.6}{1.6} \text{ well vol.}$$

$$3 \text{ well volumes} = 4.8 \text{ gal.}$$

Well Purge Summary Table

Well ID Sumo-60

Date	Time	Gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/18/12	09:44	1.2	6.63	0.614	601	15.21	2.26	-77			
10/18/12	09:51	2.4	6.68	0.619	71000	14.87	8.21	-79			
10/18/12	09:55	3.6	6.74	0.624	788	15.06	8.25	-81			
10/18/12	09:59	4.8	6.68	0.621	296	15.29	2.36	-79	0	280	0.8

PID = 77.4 Gray silty purg. water

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRE-CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-60(101812)
DATE: 10-18-12

WEATHER: SWNNY, BREEZY, HIGH 60's
TIME: 1435

SAMPLERS: HUEY, BURKERT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-60
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 4.82 (10-9-12) TD = 14.8'
One Well Volume: _____
2-Inch Casing: 9.98 Feet of Water x 0.16 Gallons/Foot = 1.6 Gallons 3 Volumes
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons

Volume of groundwater purged: 4.8 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: CLEAR
Odor: NONE
Other: NA
Sample Analyzed for: VOCs, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: MS/MSD
QC Samples Analyzed for: SAME AS SAMPLE

FIELD MEASUREMENTS

Temperature (C/F): 18.66 Dissolved Oxygen: 1.72
pH: 7.23 Eh (Redox Potential): -85
Conductivity (uohms/cm): 0.570
Turbidity (NTU): 16.8

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS 7.4
PID - 0.1 ppm
cm

$$TD = 14.65 \quad DTW = 2.72 = 11.93$$

$$\times 0.16$$

$$\frac{1.9 \text{ Well Vol.}}{3 \text{ Well Volumes} = 5.7 \text{ gal.}}$$

Well Purge Summary Table

Well ID Summary-61

Date	Time	Gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/18/12	0949	1.5	6.79	0.640	195	14.57	7.09	-94			
10/18/12	0953	3.0	6.74	0.630	222	14.99	5.91	-93			
10/18/12	0959	4.5	6.80	0.619	152	15.14	6.18	-98			
10/18/12	1004	6.0	6.86	0.615	146	15.37	8.26	-98	0	320	1.6

$$PID = 8.4$$

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC-CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-61 (101812)
DATE: 10-18-12

WEATHER: SUNNY, BREEZY, HIGH 60's
TIME: 1500

SAMPLERS: HUEY, BURKEAT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-61
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 2.72 (10-9-12) TD = 14.65'
One Well Volume: _____
2-Inch Casing: 11.93 Feet of Water x 0.16 Gallons/Foot = 1.9 Gallons 3 Volumes
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons

Volume of groundwater purged: 6.0 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: SLIGHTLY CLOUDY
Odor: YES
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: COLLECTED EQUIPMENT BLANK - EB-4(101812) @ 1510
QC Samples Analyzed for: SAME AS SAMPLE.

FIELD MEASUREMENTS

Temperature (O/F): 18.14 Dissolved Oxygen: 2.68
pH: 6.47 Eh (Redox Potential): -53
Conductivity (µohms/cm): 0.594
Turbidity (NTU): 945

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS 8.4
PID - 0.0ppm
CAH

x 0.16

x 0.16

$$\Delta T_3 = 8.71 = 10.29$$

x 0.16

Well Purge Summary Table

Well ID Sidmwa-62

3 well volumes = 4.95 μ l

[illegible]

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570, 01000

SAMPLE NUMBER: SWMW-62(101212)
DATE: 10-12-12

WEATHER: CLOUDY, LOW 40's
TIME: 0855

SAMPLERS: C. HUGY of Parsons
D. BURKERT of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-62
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 8.71 (10/9/12) TD = 19.0'
One Well Volume: _____ 3 Volumes
2-Inch Casing: 10.29 Feet of Water x 0.16 Gallons/Foot = 1.65 Gallons 9.95
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY 4.0 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: CLOUDY, LIGHT BROWN
Odor: NONE
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 13.34°C Dissolved Oxygen: 8.01
pH: 7.16 Eh (Redox Potential): 43
Conductivity (µohms/cm): 1.61
Turbidity (NTU): 248

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID - 0.0 ppm

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570, 01000

SAMPLE NUMBER: SWMW-66(101612) WEATHER: SUNNY, LOW 60'S
DATE: 10-16-12 TIME: 1510

SAMPLERS: HUGH, BURKERT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-66
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 19.13 (10-9-12) TD = 62.0'
One Well Volume: 3 Volumes
2-Inch Casing: 42.87 Feet of Water x 0.16 Gallons/Foot = 6.86 Gallons 20.6
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY - 12 gal. Gallons
Purging Device: GRUNDFOS PUMP, HDPE TUBING, DEDICATED TUBING
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: Clear
Odor: None
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 15.59°C Dissolved Oxygen: 9.44 mg/L
pH: 6.96 Eh (Redox Potential): +148
Conductivity (µohms/cm): 211 ns/cm
Turbidity (NTU): 0.4

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LAKESIDE LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID - 0.0 ppm

$$TD = 22.64 \text{ DTW} = 12.91 = 16.73$$

$$\times 0.16$$

$$2.68 \text{ well vol.}$$

$$3 \text{ well volumes} = 8.04 \text{ gal.}$$

Well Purge Summary Table

Well ID SUMW-67

Date	Time	Gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/15/12	1322	2.0	7.24	0.9477	486	17.00	4.93	89	4		
10/15/12	1326	4.0	6.60	0.969	510	16.08	7.86	103			
10/15/12	1330	6.0	6.68	0.977	594	15.28	3.29	105	0	340	0
			DATA @ 6.5 gal.								

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC-CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-67 (101612) WEATHER: SUNNY, HIGH 50¹⁵
DATE: 10-16-12 TIME: 1120

SAMPLERS: HUEY, BURKEAT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-67
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 12.91 (10-9-12) TD = 29.64'
One Well Volume: 3 Volumes
2-Inch Casing: 16.73 Feet of Water x 0.16 Gallons/Foot = 2.68 Gallons 8.04
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____
Volume of groundwater purged: DRY - 6.5 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: Clear, slightly cloudy
Odor: no odor
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 14.49°C Dissolved Oxygen: 9.24 mg/l
pH: 6.85 Eh (Redox Potential): +207
Conductivity (µohms/cm): 0.917 ms/cm
Turbidity (NTU): 12.5

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: Fedex Airbill Number: _____

COMMENTS PLD - 0.0 ppm

$$TD = 53.62 \text{ DTW} = 24.66 = 28.96$$

$$\frac{4.63}{4.63} \text{ well vol.}$$

3 well volumes = 13.9 gal

Well Purge Summary Table

Well ID Sumw-68

Date	Time	gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/15/12	1321	3.5	7.54	0.455	52.5	18.46	3.96	67			
10/15/12	1328	7.0	7.06	0.897	49.1	15.94	3.61	91			
10/15/12	1332	10.5	6.86	0.883	94.4	15.39	5.84	97			
10/15/12	1337	14.0	6.92	0.890	109	15.37	3.92	99	0	280	0

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-68 (101612) WEATHER: SUNNY, MID 50's
DATE: 10-16-12 TIME: 1100

SAMPLERS: HUGH/BURKERT of Parsons
KIRK/MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-68
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 24.66 (10-9-12) TD = 53.62'
One Well Volume: _____ 3 Volumes
2-Inch Casing: 28.96 Feet of Water x 0.16 Gallons/Foot = 4.63 Gallons 13.9
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: 14.0 Gallons
Purging Device: GRUNDFOS PUMP, HDPE TUBING ^{ON} DEDICATED TUBING
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: clear
Odor: no odor
Other: NA
Sample Analyzed for: VOCs, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 13.53°C Dissolved Oxygen: 6.47 mg/L
pH: 7.19 Eh (Redox Potential): 197
Conductivity (µohms/cm): 0.917 mS/cm
Turbidity (NTU): 4.9

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: Fedex Airbill Number: _____

COMMENTS PID - 0.0 ppm

$$TD = 15.9 \text{ DTW} \oplus 7.63 = 8.27$$

$$\times 0.16$$

$$\frac{1.32}{1.32} \text{ well vol.}$$

$$3 \text{ well volumes} = 3.96 \text{ gal.}$$

Well Purge Summary Table

Well ID SUMW-71

Date	Time	Gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/18/12	1012	1.0	6.53	0.976	430	16.02	5.02 ~~8.9~~ CAH	-89			
10/18/12	1013	2.0	6.53	1.02	696	16.29	2.16	-94			
10/18/12	1014	3.0	6.57	1.02	673	16.26	7.33	-96			
10/18/12	1015	4.0	6.65	1.01	616	16.40	7.55	-96	0	420	1.1

PID = 0.0

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-71 (101812)
DATE: 10-18-12

WEATHER: SWMY, BREEZY, HIGH 60's
TIME: 1415

SAMPLERS: HUEY, BURKERT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-71
Screen/Sample Depth: _____
Sampling Method: HOPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 7.63 (10-9-12) TD = 15.9
One Well Volume: 3 Volumes
2-Inch Casing: 8.27 Feet of Water x 0.16 Gallons/Foot = 1.32 Gallons 3.96
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: 4.0 Gallons
Purging Device: HOPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: CLEAR
Odor: SLIGHT
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: DUPLICATE SWMW-171 (101812) @ 1430
QC Samples Analyzed for: SAME AS SAMPLE

FIELD MEASUREMENTS

Temperature (C/F): 18.57 Dissolved Oxygen: 7.14
pH: 6.81 Eh (Redox Potential): -90
Conductivity (µohms/cm): 0.946
Turbidity (NTU): 5.5

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PLD - 0.0 ppm

TD = 12.0 DTW = 4.88 = 7.12

x 0.16

1.14 well vol.

3 well volumes = 3.42 gal

Well Purge Summary Table

Well ID SUM-72

Date	Time	Gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/18/12	1044	0.75	6.87	1.06	164	18.04	7.12	-54			
10/18/12	1047	1.5	6.88	1.10	221	17.96	7.65	-66			
10/18/12	1049	2.75	6.86	1.11	271	18.13	7.81	-70			
10/18/12	1051	4.0	6.84	1.10	402	19.17	7.51	-71	0	220	1.0

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC-CHEVRON BEACON, NY
PROJECT NUMBER: 447570, 01000

SAMPLE NUMBER: SWMW-72(10/18/12)

WEATHER: SUNNY, BREEZY, HIGH 60's

DATE: 10-18-12

TIME: 1450

SAMPLERS: HUEY, BURKERT

of Parsons

KIRK, MOORE

of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-72

Screen/Sample Depth: _____

Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 4.88 (10-9-12) TD = 12.0'

One Well Volume: _____

3 Volumes

2-Inch Casing: 7.12 Feet of Water x 0.16 Gallons/Foot = 1.14 Gallons 3.42

3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____

4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: _____ Gallons

Purging Device: HDPE DISPOSABLE BAILER

Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: Slightly Cloudy

Odor: Slight, slight sheen

Other: NAU

Sample Analyzed for: VOCs, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs

QC Samples at this Location: NA

QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 17.91°C

Dissolved Oxygen: 5.36

pH: 6.74

Eh (Redox Potential): -49

Conductivity (µohms/cm): 1.14 ms/cm

Turbidity (NTU): 158

SAMPLE CUSTODY

Chain of Custody Number: _____

Laboratory: LANCASTER LABS

Shipped Via: FEDEX

Airbill Number: _____

COMMENTS 528
PID - 0.0 ppm
CHL

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-101 (101812) WEATHER: SUNNY, BREEZY, HIGH 60^{lo}
DATE: 10-18-12 TIME: 1505

SAMPLERS: HUGH, BURKERT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-101
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 5.16 (10-9-12) TD = 9.6'
One Well Volume: _____ 3 Volumes
2-Inch Casing: 4.44 Feet of Water x 0.16 Gallons/Foot = 0.71 Gallons 2.13
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY - 0.5 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: clear, yellowish
Odor: Strong Odor, Sheen
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 17.28°C Dissolved Oxygen: 5.38 mg/L
pH: 6.39 Eh (Redox Potential): +36
Conductivity (µohms/cm): 1.22 ms/cm
Turbidity (NTU): 50.3

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID - 0.0 ppm

$$TD = 9.35 \text{ DTW} = 5.82 = 3.53$$

$$\frac{3.53 \times 0.16}{0.56} \text{ well vol.}$$

3 well volumes = 1.7 gal

Well Purge Summary Table

Well ID SJMW-102

Date	Time	gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/18/12	10:58	0.5	6.74	1.18	231	19.02	7.47	-39			
10/18/12	11:01	1.0	6.88	1.20	930	18.83	5.46	-26			
10/18/12	11:02	1.5	6.84	1.19	944	18.87	3.43	-22			
10/18/12	11:03	2.0	6.94	1.18	>1000	18.82	4.48	-21	0	260	0

RTD=0 clear purge water

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-102(101812)
DATE: 10-18-12

WEATHER: SUNNY, BREEZY, HIGH 60s
TIME: 1435

SAMPLERS: HUEY, BURKETT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-102
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILERS

GROUNDWATER PURGING

Initial Static Water Level: 5.82 (10-9-12) TD = 9.35'
One Well Volume: _____ **3 Volumes**
2-Inch Casing: 3.53 Feet of Water x 0.16 Gallons/Foot = 0.56 Gallons 1.7
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: 2.0 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: Slightly cloudy, yellowish
Odor: none
Other: NA
Sample Analyzed for: VOCs, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 18.34°C
pH: 6.78
Conductivity (µohms/cm): 1.22 ms/cm
Turbidity (NTU): 1.03
Dissolved Oxygen: 7.54 mg/L
Eh (Redox Potential): +142

SAMPLE CUSTODY

Chain of Custody Number: _____
Shipped Via: FEDEX
Laboratory: LANCASTER LABS
Airbill Number: _____

COMMENTS PID - 0.0 ppm

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: Former TRC - ^{CHEVRON} BEA BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-103(101612) WEATHER: SUNNY, LOW 50's
DATE: 10-16-12 TIME: 0935

SAMPLERS: HUEY/BURKETT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-103
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 19.73 (10-9-12) TD = 64.8'
One Well Volume: 3 Volumes
2-Inch Casing: 45.07 Feet of Water x 0.16 Gallons/Foot = 7.21 Gallons 21.63
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY - 10.0 Gallons
Purging Device: GRUNDFOS PUMP, HDPE TUBING ^{ENT} DEDICATED TUBING
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: clear/slightly cloudy
Odor: no odor
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TALL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 14.07°C Dissolved Oxygen: 7.01 mg/L
pH: 7.62 Eh (Redox Potential): +1440
Conductivity (μ ohms/cm): 0.754 ms/cm
Turbidity (NTU): 42.1

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FedEx Airbill Number: _____

COMMENTS PID - 0.0 ppm

$$T_0 = 54.85 \quad DTW = 41.32 = 13.53$$

$$\times 0.16$$

$$\frac{2.16 \text{ well vol.}}{2.16 \text{ well vol.}}$$

$$3 \text{ well volumes} = 6.5 \text{ gal.}$$

Well Purge Summary Table

Well ID SWMW-104

Date	Time	gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/17/12	1329	2.0	7.36	0.714	956	15.67	8.25	62			
10/17/12	1335	3.5	7.31	0.684	970	13.73	7.91	70			
10/17/12	1341	5.0	7.30	0.677	232	13.50	4.01	75			
10/17/12	1345	6.5	7.39	0.669	187	12.79	4.36	76	0	300	0

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC-CHEVRON BEACON, NY
PROJECT NUMBER: 447570, 01000

SAMPLE NUMBER: SWMW-104(101312) WEATHER: SUNNY, LOW 60's
DATE: 10-18-12 TIME: 1250

SAMPLERS: HUEY, BURKERT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-104
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAIKER

GROUNDWATER PURGING

Initial Static Water Level: 41.32 (10-9-12) TD = 54.85

One Well Volume: _____ 3 Volumes

2-Inch Casing: 13.53 Feet of Water x 0.16 Gallons/Foot = 2.16 Gallons 6.5

3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____

4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: 6.5 Gallons

Purging Device: HDPE DISPOSABLE BAIKER

Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: Clear

Odor: none

Other: NA

Sample Analyzed for: VOCs, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs

QC Samples at this Location: NA

QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (°F): 18.74°C

Dissolved Oxygen: 13.02 mg/L

pH: 6.89

Eh (Redox Potential): +1161

Conductivity (µohms/cm): 0.728 mskm

Turbidity (NTU): 0.0

SAMPLE CUSTODY

Chain of Custody Number: _____

Laboratory: LANCASTER LABS

Shipped Via: FEDEX

Airbill Number: _____

COMMENTS P10 - 0.0 ppm

$$TD = 64.68 \text{ DTW} = 45.33 = 19.35$$

$$\times 0.16$$

$$3.1 \text{ well vol.}$$

$$3 \text{ well volumes} = 9.3 \text{ gal.}$$

Well Purge Summary Table

Well ID SUMW-105

Date	Time	gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/17/12	12:22	2 1/2	7.04	0.879	6.2	14.84	8.62	27			
10/17/12	12:52	5	7.29	1.16	357	16.52	7.99	29			
10/17/12	13:01	7 1/2	7.43	1.36	466	16.40	6.54	38			
10/17/12	13:10	9 1/2	7.25	1.58	538	15.03	3.70	54	0	320	0

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC-CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-105(10812) WEATHER: SWIMY, LOW 60's
DATE: 10-18-12 TIME: 1225

SAMPLERS: HUEY, BURKERT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-105
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 45.33 (10-9-12) TD = 64.68'
One Well Volume: 3 Volumes
2-Inch Casing: 19.35 Feet of Water x 0.16 Gallons/Foot = 3.1 Gallons 9.3
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: 9.5 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: clear
Odor: none
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 21.22°C Dissolved Oxygen: 9.35
pH: 7.37 Eh (Redox Potential): 120
Conductivity (µohms/cm): 1.53 mscm
Turbidity (NTU): 13.3

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID - 0.0 ppm

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TAL - CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SLMW-106(101812)
DATE: 10-18-12

WEATHER: SUNNY, BREEZY, HIGH 60°
TIME: 1325

SAMPLERS: HUGH, BURKERT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SLMW-106
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 32.78 (10-9-12) TD = 62.4'
One Well Volume: 3 Volumes
2-Inch Casing: 29.62 Feet of Water x 0.16 Gallons/Foot = 4.74 Gallons 14.22
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY - 7.5 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: Clear
Odor: no odor
Other: NA
Sample Analyzed for: VOCs, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 16.97°C
pH: 7.09
Conductivity (μ ohms/cm): 1.14 ms/cm
Turbidity (NTU): 25.2
Dissolved Oxygen: 6.62 mg/L
Eh (Redox Potential): +150

SAMPLE CUSTODY

Chain of Custody Number: _____
Shipped Via: FEDEX
Laboratory: LANCASTER LABS
Airbill Number: _____

COMMENTS P10 - 0.0 ppm

5.94 well vol.

3 well volumes = 17.82 gals

Well Purge Summary Table

Well ID SWMW-108[illegible]

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-108 (101612) WEATHER: SUNNY, LOW 50s
DATE: 10-16-12 TIME: 1:00

SAMPLERS: HUEY, BURKERT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-108
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 19.99 (10-9-12) TD = 57.00'
One Well Volume: _____ 3 Volumes
2-Inch Casing: 37.11 Feet of Water x 0.16 Gallons/Foot = 5.94 Gallons 17.82
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY 5.0 Gallons
Purging Device: GRUNDFOS PUMP, HDPE TUBING CAN DEDICATED TUBING
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: Clear
Odor: no odor
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 16.04°C Dissolved Oxygen: 7.27 mg/L
pH: 7.12 Eh (Redox Potential): +203
Conductivity (µohms/cm): 1.22 mskm
Turbidity (NTU): 0.4

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID - 0.0 ppm

TD = 36,90 DTW = 22,85 = 14.05

$\frac{14.05}{2.25} \times 0.16$ well vol.

3 well volumes = 6.75 gal.

Well Purge Summary Table

Well ID SUMW-109

Date	Time	gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/16/12	1117	1.75	6.85	1.64	56.1	13.52	4.31	98			
10/16/12	1119	3.5	6.70	2.27	129	13.83	3.72	102			
10/16/12	1122	5.25	6.92	1.48	64.8	13.65	3.74	96			
10/16/12	1124	6.8	7.05	2.54	25.2	12.94	3.96	101	0	480	0

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-109(101712)
DATE: 10-17-12

WEATHER: SUNNY, MID 40's
TIME: 0910

SAMPLERS: HUGH, BARKGAT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-109
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 22.85 (10-9-12) TD = 36.90'
One Well Volume: _____ 3 Volumes
2-Inch Casing: 14.05 Feet of Water x 0.16 Gallons/Foot = 2.25 Gallons 6.75
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: 6.8 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: CLEAR
Odor: NONE
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 13.13°C
pH: 6.71
Conductivity (uohms/cm): 146 uS/cm
Turbidity (NTU): 1.4
Dissolved Oxygen: 4.98 mg/L
Eh (Redox Potential): 184

SAMPLE CUSTODY

Chain of Custody Number: _____
Shipped Via: FEDEX
Laboratory: LANCASTER LABS
Airbill Number: _____

COMMENTS PID = 0.2 ppm

$TD = 63.7 - 22.2 = 41.5$
 $DTW = 63.7$
 22.2
 $6.64 \times 3 = 19.2$
 $\times 0.16$

Well Purge Summary Table

Well ID SWMW - 110

Date	Time	gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/16/12	1249	5.0	7.91	0.639	19.3	12.84	8.17	37			
10/16/12	1253	10.0	7.56	0.535	21.0	13.77	2.54	36			
10/16/12	1257	15.0	7.31	0.622	8.8	14.28	2.36	27			
10/16/12	1301	20.0	7.21	0.720	5.7	14.11	2.58	29	0	200	0

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-110(101712)
DATE: 10-17-12

WEATHER: SUNNY, HIGH 40's
TIME: 1013

SAMPLERS: HUGH, BURKEAT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-110
Screen/Sample Depth: _____
Sampling Method: HOPE DISPOSABLE BAITER

GROUNDWATER PURGING

Initial Static Water Level: 22.2 (10-9-12) TD = 63.7'
One Well Volume: _____
2-Inch Casing: 41.5 Feet of Water x 0.16 Gallons/Foot = 6.64 Gallons 3 Volumes
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons

Volume of groundwater purged: 20.0 Gallons
Purging Device: GRANDFOS PUMP, HOPE TUBING CAN, DEDICATED TUBING
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: Clear
Odor: None
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: MS/MSD
QC Samples Analyzed for: SAME AS SAMPLE

FIELD MEASUREMENTS

Temperature (C/F): 13.61°C
pH: 7.29
Conductivity (µohms/cm): 0.593 ms/cm
Turbidity (NTU): 9.7
Dissolved Oxygen: 9.91 mg/L
Eh (Redox Potential): +152

SAMPLE CUSTODY

Chain of Custody Number: _____
Shipped Via: FEDEX
Laboratory: LANCASTER LABS
Airbill Number: _____

COMMENTS PID - 0.0 ppm

$$TD = 60.5 \text{ DTW} = 19.90 = 40.6$$

$$\times 0.16$$

$$\underline{6.5 \text{ well vol.}}$$

Well Purge Summary Table

Well ID SWMW-11

3 well volumes = 19.5 gal

Date	Time	gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/15/12	1141	4.0	7.49	0.906	>1000	15.36	3.59	48			
10/15/12	1146	8.0	7.16	0.860	778	15.17	2.42	56			
10/15/12	1154	12.0	7.03	0.891	491	15.50	5.67	57			
10/15/12	1201	16.0	6.98	0.907	262	15.51	2.15	57			
10/15/12	1207	20.0	6.93	0.939	276	15.47	2.54	57	0	60	0

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC-CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-111(101612)
DATE: 10-16-12

WEATHER: SUNNY, MID 50's
TIME: 1030

SAMPLERS: HUGH, BURKARD of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-111
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAITER

GROUNDWATER PURGING

Initial Static Water Level: 19.90 (10-9-12) TD = 60.5'
One Well Volume: 3 Volumes
2-Inch Casing: 40.6 Feet of Water x 0.16 Gallons/Foot = 6.5 Gallons 19.5
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: 20.0 Gallons
Purging Device: GRUNDFOS PUMP, HDPE TUBING CAN DEDICATED TUBING
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: Clear, slightly cloudy
Odor: no odor
Other: NA
Sample Analyzed for: VOCs, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 14.47°C
pH: 7.70
Conductivity (µohms/cm): 0.275 ms/cm
Turbidity (NTU): 166.8
Dissolved Oxygen: 8.01 mg/L
Eh (Redox Potential): 168

SAMPLE CUSTODY

Chain of Custody Number: _____
Shipped Via: FEDEX
Laboratory: LANCASTER LABS
Airbill Number: _____

COMMENTS PID - 0.0 ppm

$$TD = 64.4 \text{ DTW} = 9.08 = 55.32$$

$$\times 0.16$$

$$\frac{8.85}{8.85} \text{ well vol.}$$

$$3 \text{ well volumes} = 26.55 \text{ gal.}$$

Well Purge Summary Table

Well ID SWMW-112

Date	Time	gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/15/12	0830	9.0	6.08	1.19	0.2	16.09	7.56	115			
10/15/12	0839	13.0	6.37	1.25	12.8	15.82	3.35	12			
10/15/12	0854	17.0	6.68	1.27	5.1	15.69	2.82	-30			
10/15/12	0902	21.0	6.86	1.23	9.0	15.39	8.66	-36			
10/15/12	0912	27.0	6.96	1.07	25.5	15.07	8.74	-35			
10/16/12	0830								0	120	0

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SUMW-112(101612) WEATHER: Clear, High 40°
DATE: 10-16-12 TIME: 0830

SAMPLERS: HUGH/BURKART of Parsons
KICK/MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SUMW-112
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 9.08 (10-9-12) TD = 64.4'
One Well Volume: 3 Volumes
2-Inch Casing: 55.32 Feet of Water x 0.16 Gallons/Foot = 8.85 Gallons 26.55
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: 27.0 Gallons
Purging Device: GRUNDFOS PUMP, HDPE TUBING ^{SAT} DEDICATED TUBING
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: Clear
Odor: None
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, TAL METALS, CHLORIDE, SULFATE, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 15.05°C Dissolved Oxygen: 9.44 mg/L
pH: 7.21 Eh (Redox Potential): 4158
Conductivity (µohms/cm): 0.227 ms/cm
Turbidity (NTU): 9.3

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FedEx Airbill Number: _____

COMMENTS PID - 0.0 ppm

$$TD = 30.9 \text{ DTW} = 9.44 = 21.46$$

$$\times 0.16$$

$$\frac{3.43 \text{ well vol.}}{3 \text{ well volumes}} = 10.3 \text{ gal.}$$

Well Purge Summary Table

Well ID SWMW-113

Date	Time	gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/10/12	1621	2.5	8.38	1.35	209	15.32	3.58	17			
10/11/12	1625	5.0	8.18	1.87	820	14.43	6.10	18			
10/11/12	1631	7.5	7.80	1.83	566	14.06	4.55	39			
10/11/12	1635	10.5	7.84	1.90	685	13.85	3.82	38	0	180	0

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC-CHEVRON BEACON, NY
PROJECT NUMBER: 447570, 01000

SAMPLE NUMBER: SWMW-113(101212)
DATE: 10-12-12

WEATHER: CLOUDY, LOW 40's, STARTED RAINING
TIME: 0920

SAMPLERS: C. HUGY of Parsons
D. BURKERT of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-113
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 9.44 (10/9/12) TD = 30.9'
One Well Volume: _____ 3 Volumes
2-Inch Casing: 21.46 Feet of Water x 0.16 Gallons/Foot = 3.43 Gallons 10.3
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: 10.5 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: SLIGHTLY CLOUDY
Odor: NONE
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDES, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: MS/MSD, COLLECT EB-1(101212) BEFORE SAMPLING THIS WELL
QC Samples Analyzed for: SAME AS SAMPLE SAME AS SAMPLE

FIELD MEASUREMENTS

Temperature (C/F): 13.50°C Dissolved Oxygen: 3.42
pH: 6.88 Eh (Redox Potential): 65
Conductivity (µohms/cm): 1.78
Turbidity (NTU): 39.8

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID - 0.0 ppm

TD = 40.00 DTW = 14.82 = 25.18
 x 0.16
 4.03 Well Vol.

Well Purge Summary Table

Well ID : 3 Well Volumes = 12.09 gal.

Well ID SUMW-114

Date	Time	gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/16/12	1623	3.0	7.82	0.484	16.1	14.41	3.11	73			
10/16/12	1630	6.0	7.47	0.495	87.9	12.85	2.24	39			
10/16/12	1638	9.0	7.25	0.491	46.9	12.29	2.29	58			
10/16/12	1643	12.2	7.12	0.479	38.3	11.97	2.36	56	0	180	0

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-114(101712)
DATE: 10-17-12

WEATHER: SUNNY, MID 60'S
TIME: 1350

SAMPLERS: HUEY, BURKEET of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-114
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 14.82 (10-9-12) TD = 40.0'
One Well Volume: _____
2-Inch Casing: 25.18 Feet of Water x 0.16 Gallons/Foot = 4.03 Gallons 3 Volumes
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons

Volume of groundwater purged: 12.2 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: Clear
Odor: none
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 19.50°C
pH: 6.85
Conductivity (µohms/cm): 0.00 mskm
Turbidity (NTU): 0.0
Dissolved Oxygen: 8.04 mg/L
Eh (Redox Potential): +166

SAMPLE CUSTODY

Chain of Custody Number: _____
Shipped Via: FEDEX
Laboratory: LANCASTER LABS
Airbill Number: _____

COMMENTS PID - 0.0 ppm

(used pump)

$$TD = 60.0 \text{ DTW} = 4.99 = 55.01$$

$$\times 0.16$$

8.8 well vol.

3 well volumes = 26.4 gal.

Well Purge Summary Table

Well ID Sum W-115

Date	Time	Gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous iron (mg/L)
10/10/12	1356	4.5	6.69	0.665	54.4	13.35	6.11	+66			
10/10/12	1358	9.0	6.71	0.667	42.8	13.16	8.51	+64			
10/10/12	1400	13.5	6.71	0.686	39.5	13.06	7.73	+65			
10/10/12	1402	18.0	6.73	0.690	36.9	13.05	3.07	+61			
10/10/12	1404	22.5	6.75	0.694	35.1	13.03	2.63	+58			
10/10/12	1406	27.0	6.77	0.689	31.9	13.01	8.67	+60	0	120	0

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570, 01000

SAMPLE NUMBER: SWMW-115 (101112) WEATHER: MOSTLY SUNNY, LOW 50's
DATE: 10-11-12 TIME: 1130

SAMPLERS: C. HUGH of Parsons
D. BURKERT of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-115
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 4.99 (10/9/12) TD = 60.0'
One Well Volume: _____ 3 Volumes
2-Inch Casing: 55.01 Feet of Water x 0.16 Gallons/Foot = 8.8 Gallons 26.4
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: 27.0 Gallons
Purging Device: GROUNDFOSS PUMP, HDPE TUBING^{CAN} DEDICATED TUBING
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: CLEAR
Odor: NONE
Other: NA
Sample Analyzed for: VOCs, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: DUPLICATE - SWMW-1115 (101112) @ 1145
QC Samples Analyzed for: SAME ANALYSIS AS SAMPLE

FIELD MEASUREMENTS

Temperature (C/F): 13.13°C Dissolved Oxygen: 7.61
pH: 6.79 Eh (Redox Potential): 65
Conductivity (µohms/cm): 0.707
Turbidity (NTU): 1.2

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID - 0.0 ppm

3 well volumes = 24.51 μ l

Well Purge Summary Table

Well ID: SUMW-176

[illegible]

Manually bailed (pump fault)

P:\Chevron Beacon\Farms\Well Purge Sum table.xls

Very brown silty plug with salt removed from well bottom

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TCO-CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-116(101812)
DATE: 10-18-12

WEATHER: SUNNY, LOW 40's
TIME: 0755

SAMPLERS: HUGH, BURKEPT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-116
Screen/Sample Depth: _____
Sampling Method: HOPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 8.03 (10-9-12) TD = 59.1'
One Well Volume: _____
2-Inch Casing: 51.07 Feet of Water x 0.16 Gallons/Foot = 8.17 Gallons 3 Volumes
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons 24.51
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY - 13.5 Gallons
Purging Device: GRANDFOS PUMP, HOPE TUBING, PVC BAILER WITH POLY ROPE
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: Clear
Odor: Slight
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXIGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 15.36 °C
pH: 5.95
Conductivity (µohms/cm): 0.9162 ms/cm
Turbidity (NTU): 33.3
Dissolved Oxygen: 4.61 mg/L
Eh (Redox Potential): +207

SAMPLE CUSTODY

Chain of Custody Number: _____
Shipped Via: FEDEX
Laboratory: LANCASTER LABS
Airbill Number: _____

COMMENTS P10 - 0.0 ppm

$$\frac{20.16}{8.27} \text{ mole vol.}$$

3 well volumes = 24.81 μ l.

Well Purge Summary Table

Well ID: SMD-117[illegible]

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TEC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-117 (101712)
DATE: 10-17-12

WEATHER: MOSTLY SUNNY MID 60's
TIME: 1320

SAMPLERS: Huel, BURKE of Parsons
Kirk, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-117
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 3.14 TD = 54.85'
One Well Volume: 3 Volumes
2-Inch Casing: 51.71 Feet of Water x 0.16 Gallons/Foot = 8.27 Gallons 24.81
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: dry - 9.0 Gallons
Purging Device: GRUNDFOS PUMP, HDPE TUBING^{CA10} DEDICATED TUBING
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: clear
Odor: none
Other: NA
Sample Analyzed for: VOCs, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 17.93°C
pH: 7.15
Conductivity (μ ohms/cm): 0.1676 ms/cm
Turbidity (NTU): 2.6
Dissolved Oxygen: 8.22 mg/L
Eh (Redox Potential): +162

SAMPLE CUSTODY

Chain of Custody Number: _____
Shipped Via: FEDEX
Laboratory: LANCASTER LABS
Airbill Number: _____

COMMENTS: PID - 0.0 ppm

$$TD = 75.0 \quad DTW = 8.51 = 66.49$$

$$\times 0.16$$

$$\hline 10.6 \text{ well vol.}$$

(USED PUMP)

Well Purge Summary Table

Well ID SUMW-118

3 well volumes = 31.8 gal.

Date	Time	Gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/10/12	14:43	11	6.50	1.57	469	13.67	8.51	101			
"	14:52	16	6.63	1.58	132	14.13	2.42	92			
"	14:57	20	6.75	1.63	576	13.85	7.98	82			
"	15:02	25	6.79	1.64	70.7	13.71	7.91	79			
"	15:10	32	6.83	1.62	48.6	13.82	7.03	75	0	160	0

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC-CHEVRON BEACON, NY
PROJECT NUMBER: 447570, 01000

SAMPLE NUMBER: SCMW-118(10112) WEATHER: MOSTLY SUNNY, LOW 60's
DATE: 10-11-12 TIME: 1315

SAMPLERS: C. HUEY of Parsons
D. BURBERT of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SCMW-118
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 8.51 (10/9/12) TD = 75.0'

One Well Volume: _____ 3 Volumes

2-Inch Casing:	<u>66.49</u>	Feet of Water x 0.16 Gallons/Foot =	<u>10.6</u>	Gallons	<u>31.8</u>
3-Inch Casing:	_____	Feet of Water x 0.36 Gallons/Foot =	_____	Gallons	_____
4-Inch Casing:	_____	Feet of Water x 0.65 Gallons/Foot =	_____	Gallons	_____

Volume of groundwater purged: 32.0 Gallons
Purging Device: GRUNDFOS PUMP, ~~HDPE TUBING~~ DEDICATED TUBING
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: CLEAR
Odor: NONE
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): <u>18.06°C</u>	Dissolved Oxygen: <u>8.08</u>
pH: <u>7.16</u>	Eh (Redox Potential): <u>21</u>
Conductivity (uohms/cm): <u>1.33</u>	
Turbidity (NTU): <u>0.0</u>	

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID - 0.1 ppm

$$TD = 72.0 \text{ DTW} = 24.74 = 47.26$$

$$\times 0.16$$

$$\frac{7.56 \text{ well vol.}}{7.56 \text{ well vol.}}$$

$$3 \text{ well volumes} = 22.68 \text{ gal.}$$

Well Purge Summary Table

Well ID SUMW-119

Date	Time	gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/16/12	1024	4.0	7.40	1.28	25.3	12.83	4.22	63			
10/16/12	1026	8.0	7.22	1.14	22.4	13.04	4.01	77			
10/16/12	1030	12.0	7.13	1.12	15.8	13.12	3.60	86			
10/16/12	1032	16.0	7.11	1.11	15.3	13.24	4.11	92			
10/16/12	1035	20.0	7.11	1.11	27.2	13.32	3.36	94			
10/16/12	1038	23.0	7.09	1.11	57.6	13.21	3.80	94	0	280	0

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: Former REC - CHEVRON Beacon, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-119 (101712) WEATHER: Clear, Low 40's
DATE: 10-17-12 TIME: 0850

SAMPLERS: Huey, Burkett of Parsons
Kirk, Moore of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-119
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAITER

GROUNDWATER PURGING

Initial Static Water Level: 24.74 (10-9-12) TDC 72.0'
One Well Volume: 3 Volumes
2-Inch Casing: 47.26 Feet of Water x 0.16 Gallons/Foot = 7.56 Gallons 22.68
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: 23.0 Gallons
Purging Device: GRUNDFOS PUMP, HDPE TUBING, DEDICATED TUBING
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: Clear
Odor: None
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 12.97°C Dissolved Oxygen: 5.14 mg/L
pH: 6.95 Eh (Redox Potential): +161
Conductivity (µohms/cm): 1.23 mS/cm
Turbidity (NTU): 54

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID = 0.0 ppm

$$TD = 60.0 \text{ DTU} = 7.79 = 52.21$$

$$\times 0.16$$

$$8.35 \text{ well vol.}$$

$$3 \text{ well volumes} = 25.05 \text{ gal.}$$

Well Purge Summary Table

Well ID SWMW-121

Date	Time	Gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/12/12	1010	4.5	7.89	0.478	91.7	10.78	8.13	8			
10/12/12	1015	9.0	7.65	0.401	41.0	11.34	9.41	34			
10/12/12	1019	13.0	7.47	0.393	36.4	11.63	3.38	36			
10/12/12	1024	17.5	7.35	0.390	29.6	11.87	1.63	33			
10/12/12	1029	22.0	7.35	0.391	23.9	11.84	240	37			
10/12/12	1034	26.0	7.33	0.392	22.8	11.93	3.56	35	0	120	0

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: Former TEL - CHEURON BEACON, NY
PROJECT NUMBER: 447570, 01000

SAMPLE NUMBER: SWMW-121 (101212) WEATHER: CLOUDY, LIGHT RAIN HIGH 40's
DATE: 10-12-12 TIME: 1215

SAMPLERS: C. Huey of Parsons
D. Burkert of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW121
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAIER

GROUNDWATER PURGING

Initial Static Water Level: 7.79 (10/9/12) TD = 60.0'
One Well Volume: _____ 3 Volumes
2-Inch Casing: 52.21 Feet of Water x 0.16 Gallons/Foot = 8.35 Gallons 25.05
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: 26.0 Gallons
Purging Device: GRUNDFOS pump, HDPE TUBING
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: CLEAR
Odor: NONE
Other: NA
Sample Analyzed for: VICS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NO
QC Samples Analyzed for: NO

FIELD MEASUREMENTS

Temperature (C/F): 13.39 °C Dissolved Oxygen: 3.06
pH: 7.45 Eh (Redox Potential): 41
Conductivity (µohms/cm): 0.387
Turbidity (NTU): 27.1

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS P10 - 0.0 ppm

$$T_0 = 102,2 \quad b^w = 21,61 = 80,59$$
$$\begin{array}{r} 80.59 \\ \times 0.16 \\ \hline 12.89 \end{array} \text{ well vol.}$$

3 well volumes = 38.67 g/L

Well Purge Summary Table

Well ID SWW-122

[illegible]

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC-CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-122(101712)
DATE: 10-17-12

WEATHER: SUNNY, MID 40's
TIME: 0930

SAMPLERS: HUEY, BURKERT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-122
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 21.61 TD = 102.2'
One Well Volume: _____
2-Inch Casing: 80.59 Feet of Water x 0.16 Gallons/Foot = 12.89 Gallons 3 Volumes
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons 38.67
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DAY - 22.0 Gallons
Purging Device: GRUNDGES PUMP, HDPE TUBING
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: CLEAR
Odor: NONE
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: DUPLICATE - SWMW-1122(101712) @ 0940
QC Samples Analyzed for: SAME AS SAMPLE

FIELD MEASUREMENTS

Temperature (C/F): 13.73°C
pH: 7.13
Conductivity (µohms/cm): 0.5169 ms/cm
Turbidity (NTU): 3.2
Dissolved Oxygen: 3.76 mg/L
Eh (Redox Potential): +173

SAMPLE CUSTODY

Chain of Custody Number: _____
Shipped Via: FEDEX
Laboratory: LANCASTER LABS
Airbill Number: _____

COMMENTS PID - 0.0 ppm

9.98 well vol.

$$3 \text{ well volumes} = 29.94 \text{ } \mu\text{l.}$$
Well ID SWMW-123[illegible]

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC-CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-123(101812)
DATE: 10-18-12

WEATHER: SUNNY, BREEZY, HIGH 60's
TIME: 1400

SAMPLERS: HUEY, BURKERT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-123
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 16.85 (10-9-12) TD = 79.25'
One Well Volume: _____
2-Inch Casing: 62.40 Feet of Water x 0.16 Gallons/Foot = 9.98 Gallons 29.94 ^{3 Volumes}
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY - 19.25 Gallons
Purging Device: GRUNDFOS PUMP, HDPE TUBING
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: Clear
Odor: Slight
Other: NA
Sample Analyzed for: VOCs, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 15.33°C
pH: 7.00
Conductivity (µohms/cm): 1.02 ms/cm
Turbidity (NTU): 1.3
Dissolved Oxygen: 8.00 mg/L
Eh (Redox Potential): +129

SAMPLE CUSTODY

Chain of Custody Number: _____
Shipped Via: FEDEX
Laboratory: LANCASTER LABS
Airbill Number: _____

COMMENTS PID - 0.0 ppm

$$TD = 62.2 \text{ DTW} = 4.60 = 57.6$$

$$\times 0.16$$

$$9.22 \text{ well vol.}$$

$$3 \text{ well volumes} = 27.66 \text{ gal.}$$

Well Purge Summary Table

Well ID SWMW-124

(used Pump)

Date	Time	Gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/10/12	1317	5.0	6.48	0.707	45.4	13.23	4.61	+86			
10/10/12	1321	10.0	6.43	0.770	37.5	13.74	8.43	+15			
10/10/12	1325	15.0	6.51	0.747	54.8	13.64	3.67	+1			
10/10/12	1328	20.0	6.56	0.741	43.0	13.38	6.85	+18			
10/10/12	1330	25.0	6.58	0.748	42.9	13.23	7.23	+30			
10/10/12	1335	30.0	6.60	0.752	41.5	13.29	7.29	+50	0	120	0

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC-CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-124(101112) WEATHER: MOSTLY SUNNY, LOW 50's
DATE: 10-11-12 TIME: 1110

SAMPLERS: C. Huey of Parsons
D. Burkert of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-124
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 4.60 (10/9/12) TD = 62.2'
One Well Volume: 3 Volumes
2-Inch Casing: 57.6 Feet of Water x 0.16 Gallons/Foot = 9.22 Gallons 27.66
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: 30.0 Gallons
Purging Device: GRUNDFOS PUMP, HDPE TUBING ^{GH} DEDICATED TUBING
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: CLEAR
Odor: NONE
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 13.41°C Dissolved Oxygen: 6.86
pH: 6.56 Eh (Redox Potential): 54
Conductivity (µohms/cm): 0.763
Turbidity (NTU): 12.6

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FED EX Airbill Number: _____

COMMENTS PID - 0.0 ppm

4.8 well v02,

3 well volumes = 14.4 gal,

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC-CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-125 (101112) WEATHER: MOSTLY SUNNY, HIGH 40'S
DATE: 10-11-12 TIME: 1005

SAMPLERS: C. HUGY of Parsons
D. BURKERT of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-125
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 11.82 (10/9/12) TD = 41.8'
One Well Volume: 3 Volumes
2-Inch Casing: 29.98 Feet of Water x 0.16 Gallons/Foot = 4.8 Gallons 14.4
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: 14.5 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: CLGNL
Odor: NONE
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: METALS (500ml PLASTIC) REQUESTED BY LAB
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 14.11°C Dissolved Oxygen: 6.11
pH: 6.50 Eh (Redox Potential): 2
Conductivity (µohms/cm): 0.370
Turbidity (NTU): 3.6

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID - 27.4 ppm

$$TD = 49.5 \text{ DTW} = 8.61 = 40.89$$

$$\times 0.16$$

$$6.54 \text{ well vol.}$$

Well Purge Summary Table

Well ID SWMW-126

3 well volumes = 19.62 gal

Date	Time	gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/15/12	0926	3.5	7.17	1.14	1.4	16.14	8.41	-32			
10/15/12	0934	7.0	6.89	1.17	0.0	16.17	8.34	-72			
10/15/12	0942	11.0	6.83	1.21	33.0	16.89	2.68	-67			
~~10/15/12~~	~~CAR~~	~~16.0~~		~~Det @ 12.0 gal.~~							
~~10/15/12~~	~~CAR~~	~~20.0~~									
10/16/12	0825								0	160	0

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570, 01000

SAMPLE NUMBER: SWMW-126 (101612) WEATHER: CLEAR, LOW 40's
DATE: 10-16-12 TIME: 0823

SAMPLERS: HUEY, BURKERT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-126
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 8.61 (10-9-12) TD = 49.5'
One Well Volume: _____ 3 Volumes
2-Inch Casing: 40.89 Feet of Water x 0.16 Gallons/Foot = 6.54 Gallons 19.62
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY - 12.0 Gallons
Purging Device: GRUNDFOS PUMP, HDPE TUBING CAN DEDICATED TUBING
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: Clear
Odor: no odor
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVCS
QC Samples at this Location: EQUIPMENT BLANK EB-2 (101612) @ 0815
QC Samples Analyzed for: SAME AS SAMPLE (COLLECTED IN BAILER USED TO SAMPLE THIS WELL)

FIELD MEASUREMENTS

Temperature (C/F): 14.55 Dissolved Oxygen: 4.78 mg/L
pH: 5.75 Eh (Redox Potential): +231
Conductivity (uohms/cm): 1.40 ms/cm
Turbidity (NTU): 11.1

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS P10 - 0.0 ppm

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC-CHEVRON BEACON, NY

PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-127(10/8/12)

WEATHER: SUNNY, HIGH 60°

DATE: 10-18-12

TIME: 1310

SAMPLERS: HUEY, BURKERT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW-

Screen/Sample Depth: _____

Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 9.82 (10-10-12) TD = 14.10'

One Well Volume: _____ 3 Volumes

2-Inch Casing: 4.28 Feet of Water x 0.16 Gallons/Foot = 0.685 Gallons 2.06

3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____

4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY - 1.1 Gallons

Purging Device: HDPE DISPOSABLE BAILER

Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: CLEAR

Odor: NONE

Other: NA

Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs

QC Samples at this Location: NA

QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 16.43

Dissolved Oxygen: 3.46

pH: 6.56

Eh (Redox Potential): 82

Conductivity (µohms/cm): 0.748

Turbidity (NTU): 40.4

SAMPLE CUSTODY

Chain of Custody Number: _____

Laboratory: LANCASTER LABS

Shipped Via: FEDEX

Airbill Number: _____

COMMENTS PID - 0.0 ppm

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY

PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SWMW-128(10/18/12)

WEATHER: SUNNY, HIGH 60's

DATE: 10-18-12

TIME: 1300

SAMPLERS: HUGH, BURKERT of Parsons

KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-128

Screen/Sample Depth: _____

Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 12.32 (10-10-12) TD = 14.86

One Well Volume: _____ 3 Volumes

2-Inch Casing: 2.54 Feet of Water x 0.16 Gallons/Foot = 0.41 Gallons 1.23

3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____

4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DAY - 1.0 Gallons

Purging Device: HDPE DISPOSABLE BAILER

Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: CLEAR

Odor: NONE

Other: NA

Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs

QC Samples at this Location: NA

QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 15.44

Dissolved Oxygen: 8.33

pH: 6.40

Eh (Redox Potential): 81

Conductivity (μ ohms/cm): 0.918

Turbidity (NTU): 33.2

SAMPLE CUSTODY

Chain of Custody Number: _____

Laboratory: LANCASTER LABS

Shipped Via: FEDEX

Airbill Number: _____

COMMENTS PID - 0.0 ppm

$$TD = 19.85 \quad DTW = 10.48 = 9.37$$

$$\times 0.16$$

$$\frac{1.5 \text{ well vol.}}{1.5}$$

Well Purge Summary Table

Well ID Sumw-129

3 well volumes = 4.5 gal.

Date	Time	Gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/18/12	0815	1.5	6.18	0.539	>1000	12.12	4.42	144			
10/18/12	0822	2.5	6.48	0.514	410	12.32	5.14	132			
10/18/12	0827	3.5	6.16	0.546	477	12.37	4.22	109			
10/18/12	0831	4.5	6.25	0.590	556	12.26	3.17	82	0.0	180	0.5

Brown silty purge water

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570, 01000

SAMPLE NUMBER: SWMW-129(10/8/12) WEATHER: SUNNY, HIGH 60¹s
DATE: 10-18-12 TIME: 1240

SAMPLERS: HUEY, BURKE of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SWMW-129
Screen/Sample Depth: _____
Sampling Method: HOPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 10.48 (10-10-12) TD = 1985
One Well Volume: 3 Volumes
2-Inch Casing: 9.37 Feet of Water x 0.16 Gallons/Foot = 1.5 Gallons 4.5
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: 4.5 Gallons
Purging Device: HOPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: SLIGHTLY CLOUDY
Odor: NONE
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 18.32 Dissolved Oxygen: 3.39
pH: 7.50 Eh (Redox Potential): SS
Conductivity (µohms/cm): 0.311
Turbidity (NTU): 41.0

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID = 0.0 ppm

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRO-CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: TF-26(10B12) WEATHER: SUNNY, BREEZY, HIGH 60th
DATE: 10-18-12 TIME: 1515

SAMPLERS: HUEY, BURKEAT of Parsons
KIRK, MOORE of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- TF-26
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 5.91 (10-9-10) TD = 9.80'
One Well Volume: 3 Volumes
2-Inch Casing: 3.39 Feet of Water x 0.16 Gallons/Foot = 0.62 Gallons 1.86
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: MAX - 1.0 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: SLIGHTLY CLOUDY
Odor: NONE
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 18.22 Dissolved Oxygen: 6.14
pH: 6.69 Eh (Redox Potential): -19
Conductivity (µohms/cm): 0.583
Turbidity (NTU): 18

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID - 0.5 ppm

Well Purge Summary Table

Well ID GT-2

3 well volumes = 1,62

[illegible]

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570, 01000

SAMPLE NUMBER: GT-2(101112) WEATHER: PARTLY SUNNY, LOW 40's
DATE: 10-11-12 TIME: 0810

SAMPLERS: C. Huey of Parsons
D. Burkget of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- GT-2
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 4.82 (10/9/12) TD = 8.22'
One Well Volume: _____ **3 Volumes**
2-Inch Casing: 3.40 Feet of Water x 0.16 Gallons/Foot = 0.54 Gallons 1.62
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY 1.0 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: SLIGHT YELLOWISH COLOR
Odor: NONE
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 13.68°C Dissolved Oxygen: 6.91
pH: 5.85 Eh (Redox Potential): 4
Conductivity (µohms/cm): 0.998
Turbidity (NTU): 29.8

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID - 0.0 ppm

$$TD = 8.65 \text{ DTW} = 5.17 = 3.48$$

$$\frac{0.16}{0.56} \text{ well vol.}$$

$$3 \text{ well volumes} = 1.68 \text{ gal.}$$

Well Purge Summary Table

Well ID UNKNOWN - 1 (UNK-1)

Date	Time	Gals purged	pH	Conductivity (ms/cm)	Turbidity (NTU)	Temperature (c)	D.O. (mg/L)	Redox (mv)	Phenol-Alk (mg/L)	Methyl-Alk (mg/L)	Ferrous Iron (mg/L)
10/10/12	1027	0.6	6.36	0.822	453	13.63	8.11	+77		0.6 gal	
10/10/12	1043	0.6	6.15	0.380	54.4	15.04	4.37	-12			
10/10/12	1045	1.2	6.15	0.347	52.8	15.62	4.99	-9			
10/10/12	1047	1.7	6.16	0.349	45.9	15.24	7.26	-12	0	80	0.5

CAK

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC-CHEVRON BEACON, NY
PROJECT NUMBER: 447570, 01000

SAMPLE NUMBER: UNK-1 (10/11/12) WEATHER: PARTLY SUNNY, MID 40's
DATE: 10-11-12 TIME: 0850

SAMPLERS: C. Huey of Parsons
D. BURKERT of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- UNK-1
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAITER

GROUNDWATER PURGING

Initial Static Water Level: 5.17 (10/9/12) TD = 8.65'
One Well Volume: 3 Volumes
2-Inch Casing: 3.48 Feet of Water x 0.16 Gallons/Foot = 0.56 Gallons 1.68
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: 1.7 Gallons
Purging Device: HDPE DISPOSABLE BAITER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: CLEAR
Odor: NONE
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 15.30 Dissolved Oxygen: 7.13
pH: 6.14 Eh (Redox Potential): -1
Conductivity (μ ohms/cm): 0.351
Turbidity (NTU): 3.9

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEx Airbill Number: _____

COMMENTS PID - 0.0 ppm

0.48 well vol.

Well ID UNKNOWN-2 (unk-2)

3 well volumes = 1.44 gal.

[illegible]

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: UNK-2 (10/11/12) WEATHER: ☉ MOSTLY SUNNY, MID 40's
DATE: 10-11-12 TIME: 0900

SAMPLERS: C. Huey of Parsons
D. Burkert of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- UNK-2
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 5.02 (10/9/12) TD = 8.0'
One Well Volume: _____
2-Inch Casing: 2.98 Feet of Water x 0.16 Gallons/Foot = 0.48 Gallons 3 Volumes
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons 1.44
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY 0.6 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: CLOUDY, SLIGHT RUST COLOR
Odor: NONE
Other: NA
Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 13.71°C Dissolved Oxygen: 7.94
pH: 6.39 Eh (Redox Potential): 81
Conductivity (µohms/cm): 0.729
Turbidity (NTU): 51.2

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID - 0.0 ppm

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC - CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: UNK-3 (10112) WEATHER: MOSTLY SUNNY, MID 40's
DATE: 10-11-12 TIME: 0910

SAMPLERS: C. HUEY of Parsons
D. BURKERT of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- UNK-3
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 5.17 (10/9/12) TD = 7.35'
One Well Volume: 3 Volumes
2-Inch Casing: 2.18 Feet of Water x 0.16 Gallons/Foot = 0.35 Gallons 1.05
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: DRY 0.4 Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: VERY SLIGHT RUST COLOR
Odor: NONE
Other: NA
Sample Analyzed for: VOCs, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 15.71°C Dissolved Oxygen: 7.31
pH: 6.06 Eh (Redox Potential): 10
Conductivity (µohms/cm): 0.622
Turbidity (NTU): 13.9

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID - 0.0ppm

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC-CHEVRON BEACON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: SB35-1R(101112) WEATHER: MOSTLY SUNNY, LOW 60's
DATE: 10-11-12 TIME: 1325

SAMPLERS: C. Huey of Parsons
D. BURKERT of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- SB35-1R
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 7.73 (10/9/12) TD = 12.5'
One Well Volume: 3 Volumes
2-Inch Casing: 4.77 Feet of Water x 0.16 Gallons/Foot = 0.76 Gallons 2.28
3-Inch Casing: _____ Feet of Water x 0.36 Gallons/Foot = _____ Gallons _____
4-Inch Casing: _____ Feet of Water x 0.65 Gallons/Foot = _____ Gallons _____

Volume of groundwater purged: 1.0 - dry Gallons
Purging Device: HDPE DISPOSABLE BAILER
Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: SLIGHT RUST COLOR
Odor: NONE
Other: NA
Sample Analyzed for: VOCs, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs
QC Samples at this Location: NA
QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 17.27°C Dissolved Oxygen: 6.93
pH: 7.21 Eh (Redox Potential): 34
Conductivity (µohms/cm): 0.572
Turbidity (NTU): 4.6

SAMPLE CUSTODY

Chain of Custody Number: _____ Laboratory: LANCASTER LABS
Shipped Via: FEDEX Airbill Number: _____

COMMENTS PID - 0.0 ppm

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: FORMER TRC-CHEVRON BASCON, NY
PROJECT NUMBER: 447570.01000

SAMPLE NUMBER: BR-2 (101112)

WEATHER: PARTLY SUNNY, LOW 40's

DATE: 10-11-12

TIME: 0815

SAMPLERS: C. HUGY of Parsons
D. BURKERT of Parsons

DESCRIPTION OF SAMPLING POINT

Sample Location: Monitoring well MW- ~~GT-2~~ BR-2
Screen/Sample Depth: _____
Sampling Method: HDPE DISPOSABLE BAILER

GROUNDWATER PURGING

Initial Static Water Level: 4.68 (10/9/12) TD = 31.5'

One Well Volume: _____ 3 Volumes

2-Inch Casing:	<u>26.82</u>	Feet of Water x 0.16 Gallons/Foot =	<u>4.29</u>	Gallons	<u>12.87</u>
3-Inch Casing:	_____	Feet of Water x 0.36 Gallons/Foot =	_____	Gallons	_____
4-Inch Casing:	_____	Feet of Water x 0.65 Gallons/Foot =	_____	Gallons	_____

Volume of groundwater purged: DRY 11.0 Gallons

Purging Device: HDPE DISPOSABLE BAILER

Purge Water Disposition (e.g., contained): TANK TO WATER TREATMENT PLANT

SAMPLE DESCRIPTION

Color: CLEAR

Odor: NONE

Other: NA

Sample Analyzed for: VOCS, CALIFORNIA OXYGENATES, CHLORIDE, SULFATE, TAL METALS, SVOCs

QC Samples at this Location: NA

QC Samples Analyzed for: NA

FIELD MEASUREMENTS

Temperature (C/F): 14.29°C

Dissolved Oxygen: 7.90

pH: 6.00

Eh (Redox Potential): 12

Conductivity (µohms/cm): 0.910

Turbidity (NTU): 2.4

SAMPLE CUSTODY

Chain of Custody Number: _____

Laboratory: LANCASTER LABS

Shipped Via: FEDEX

Airbill Number: _____

COMMENTS CAH
FEDEX PID - 0.0 ppm

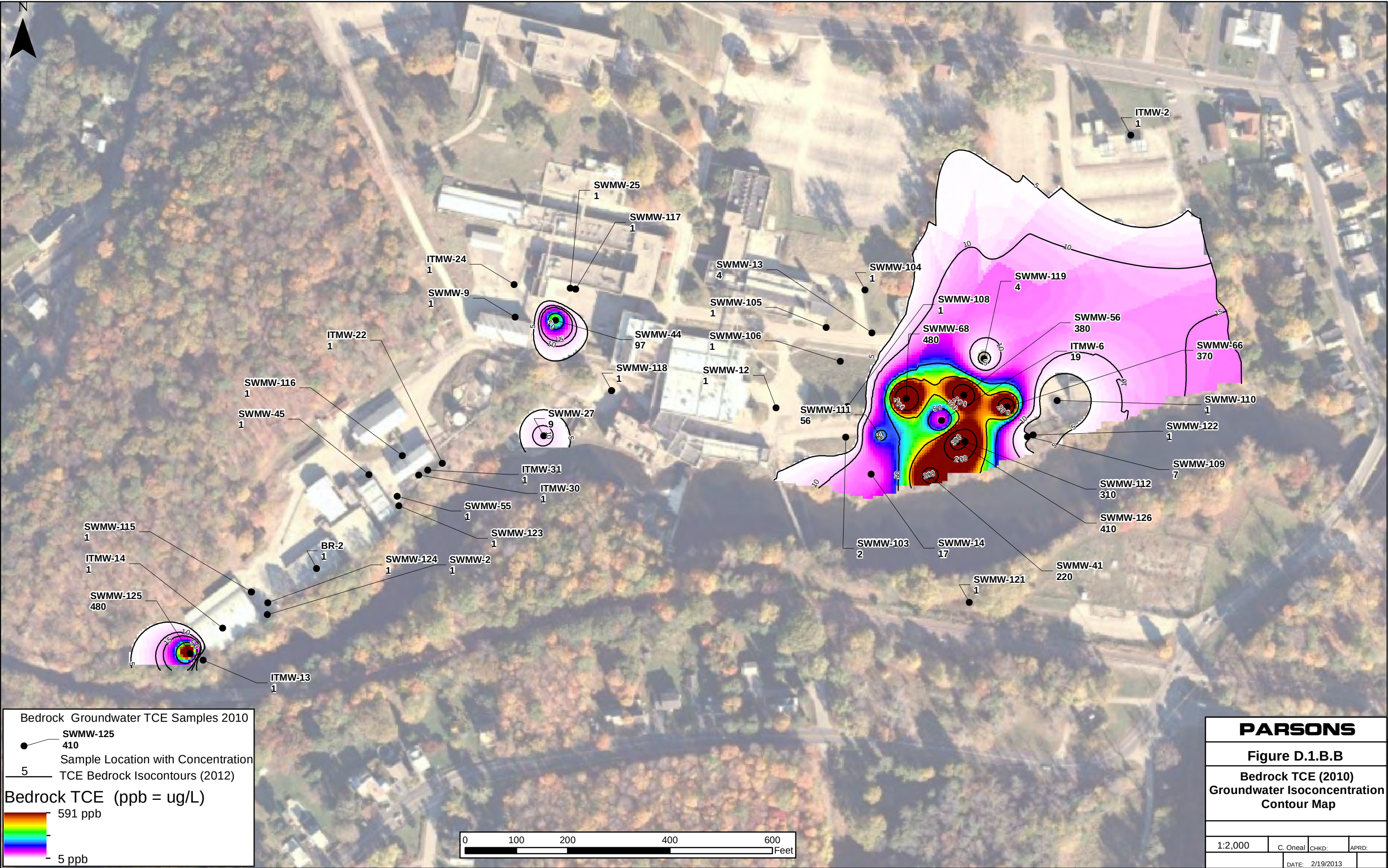
APPENDIX C

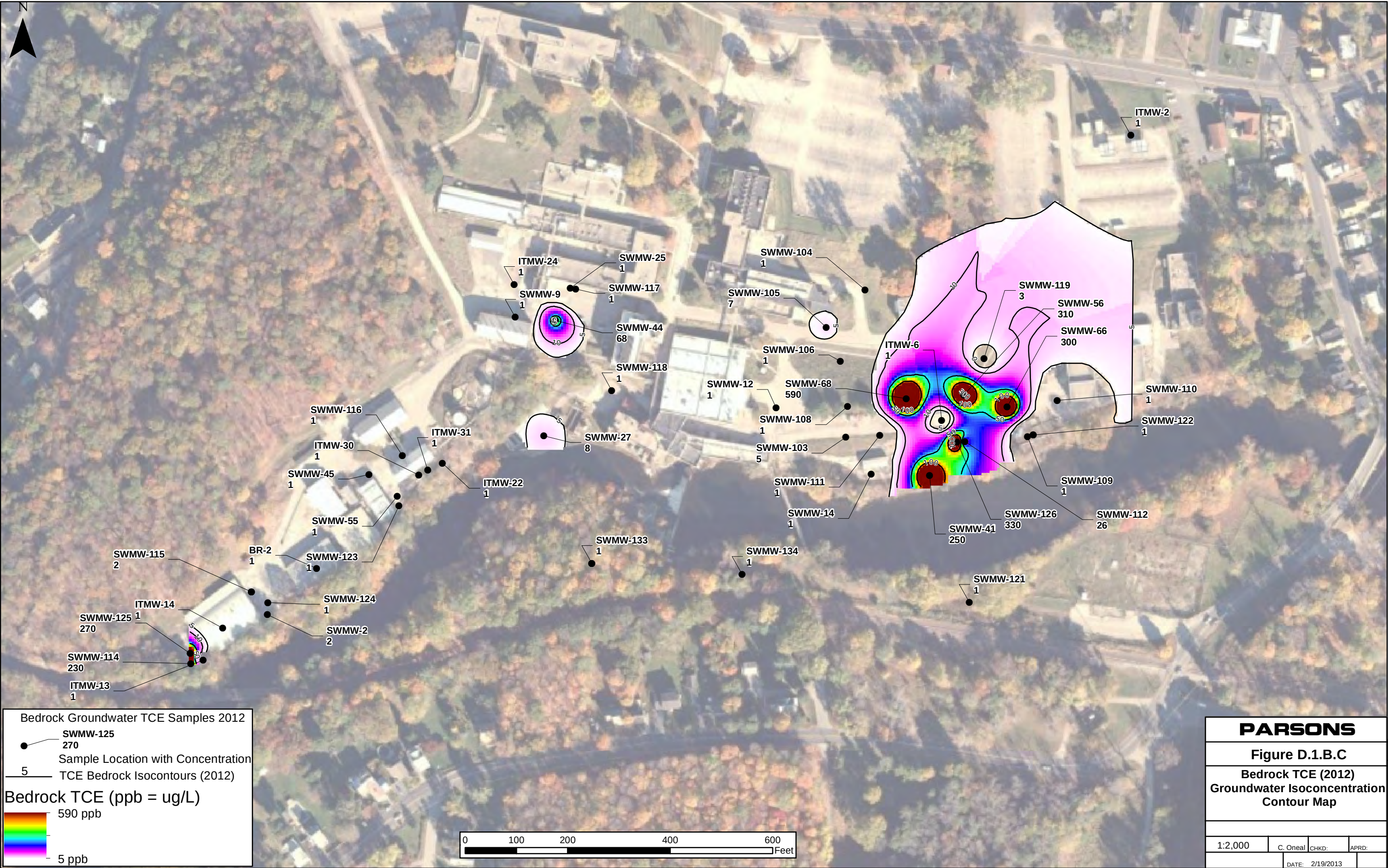
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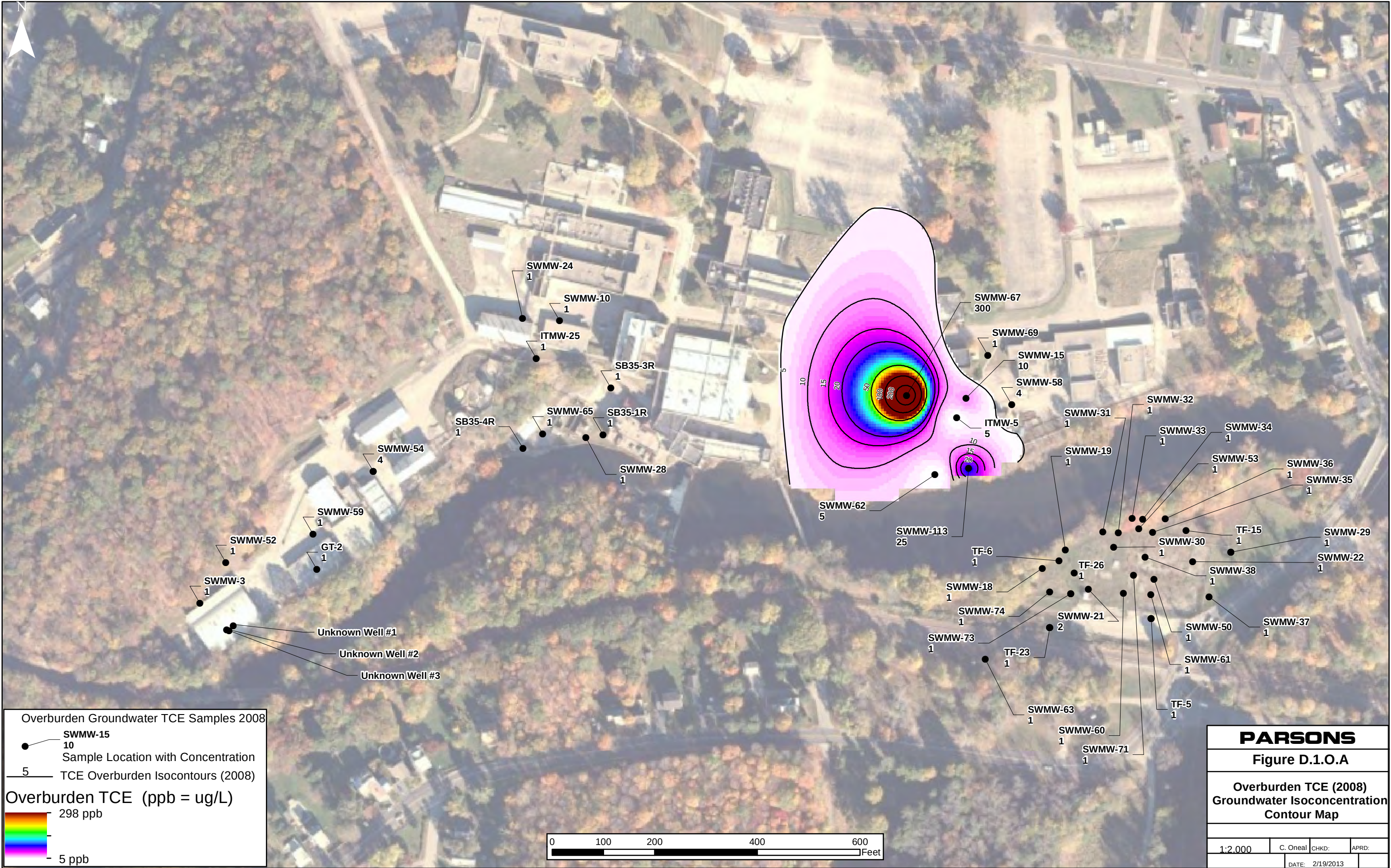
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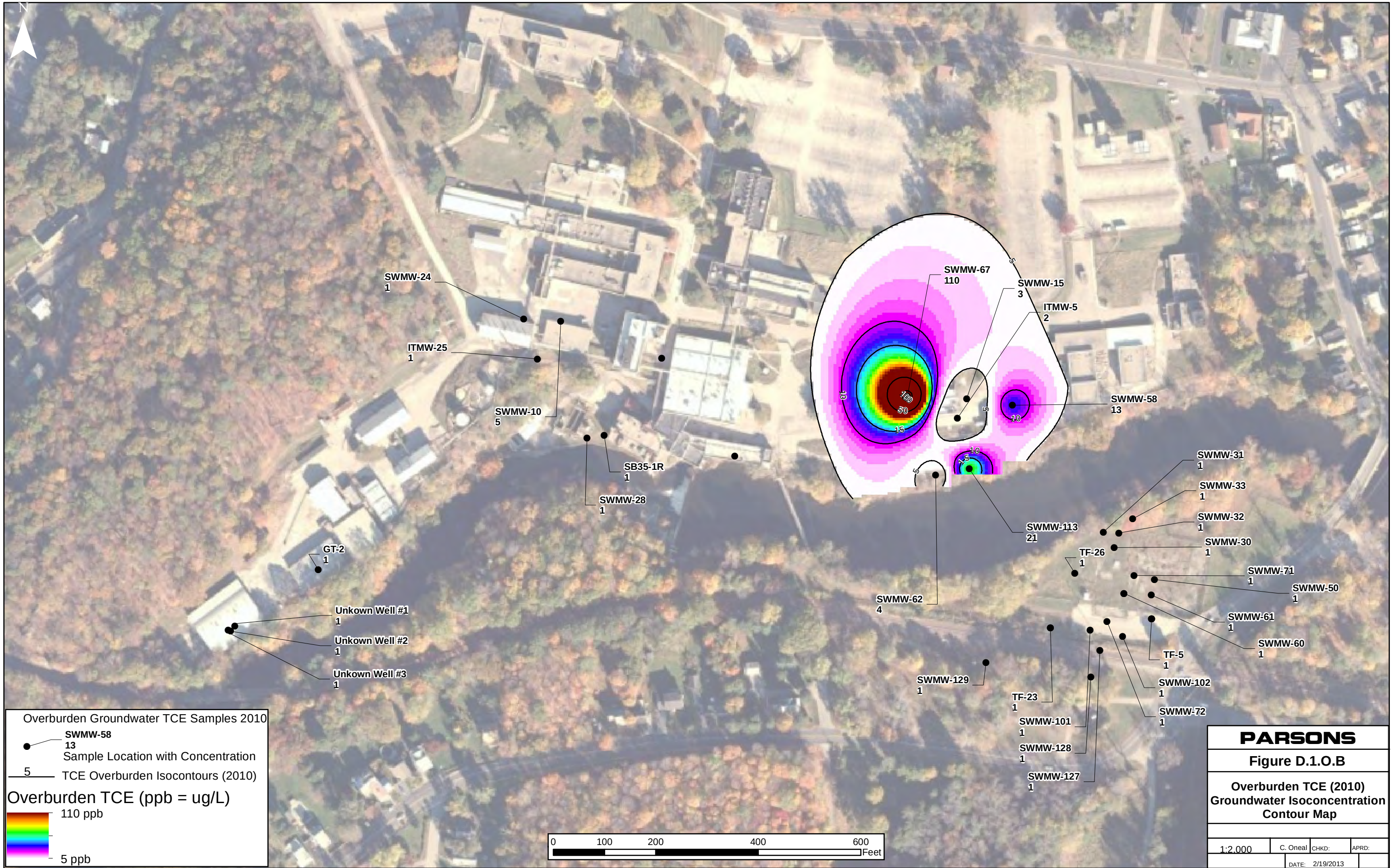
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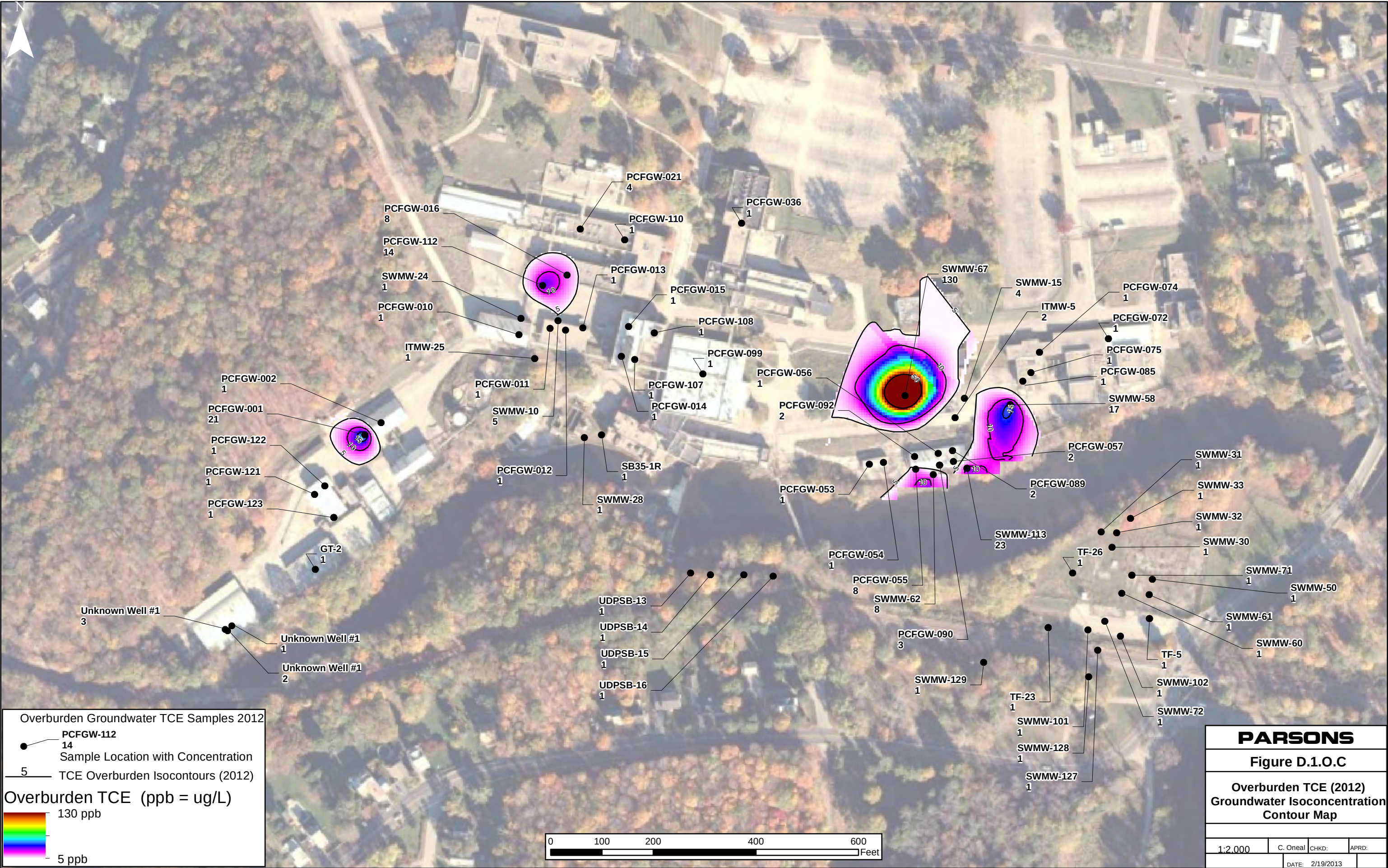
GIS FIGURES

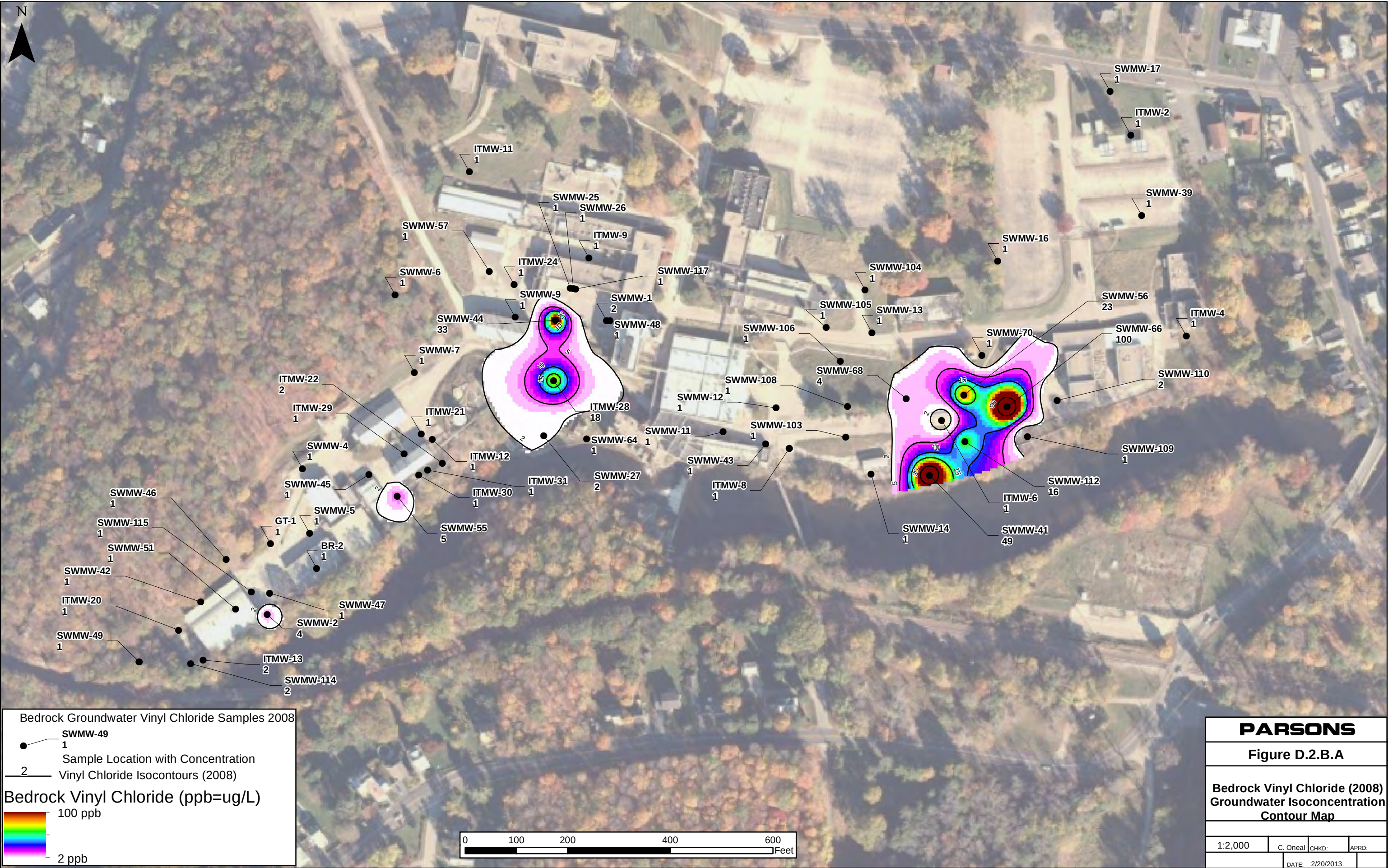


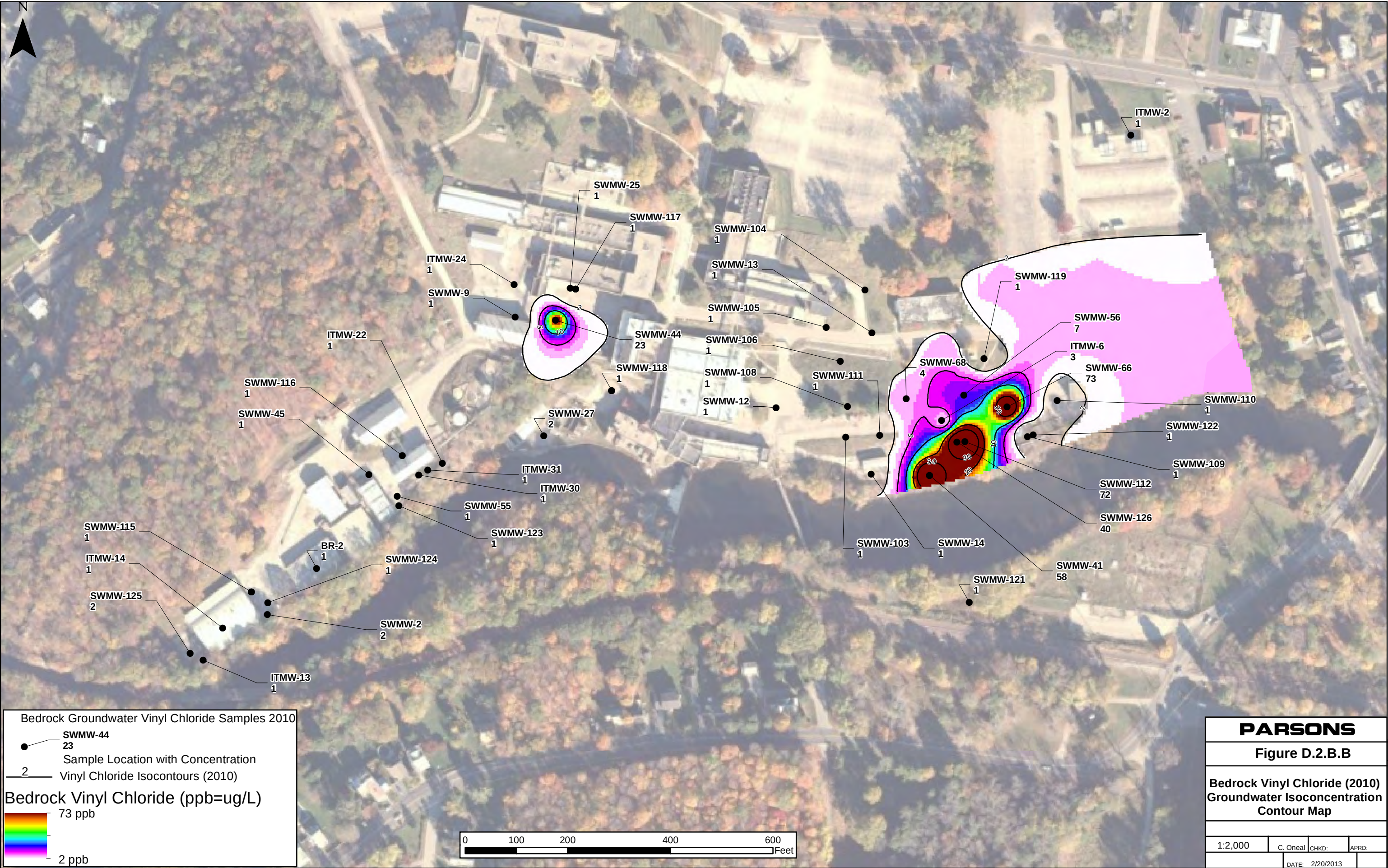


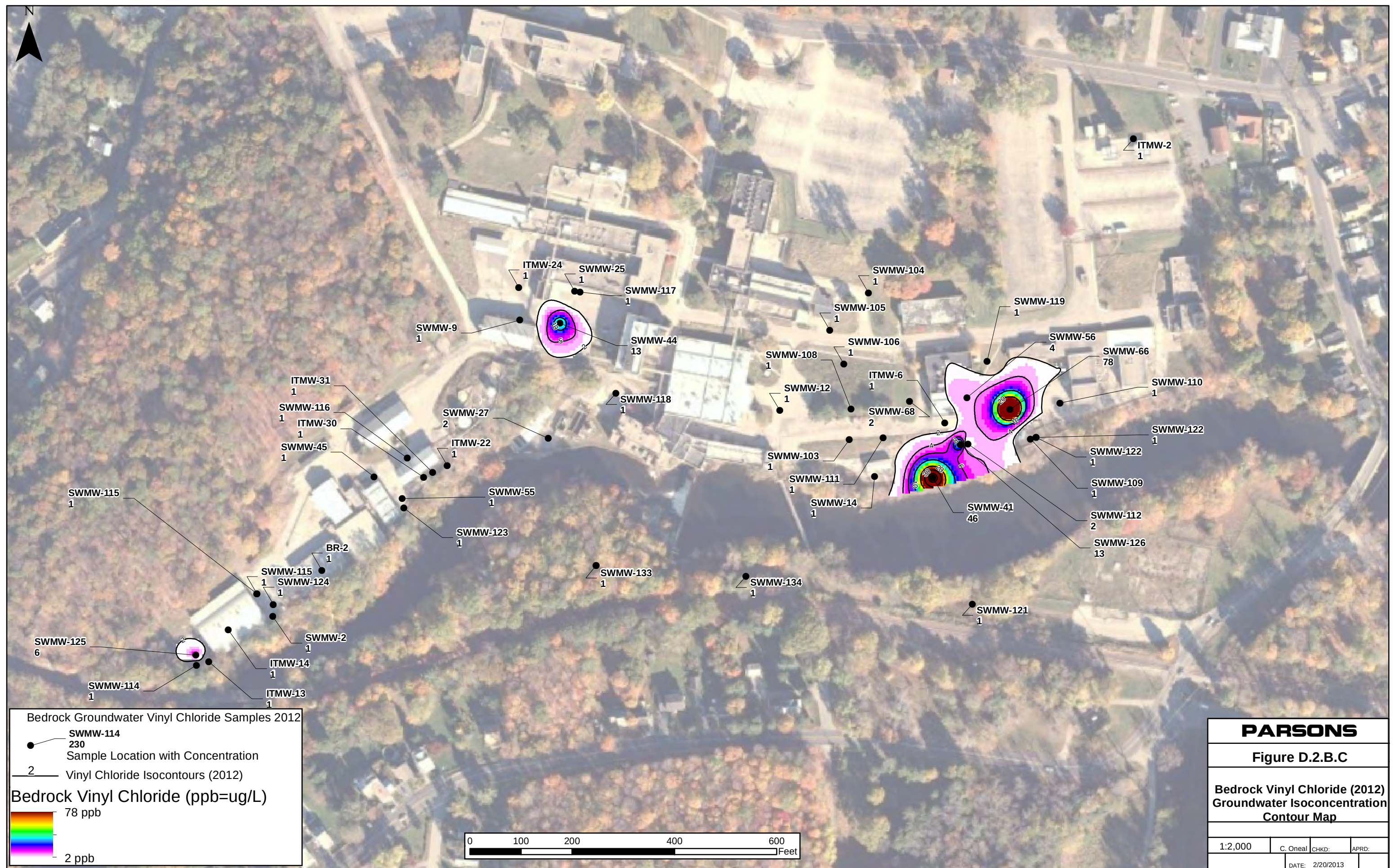




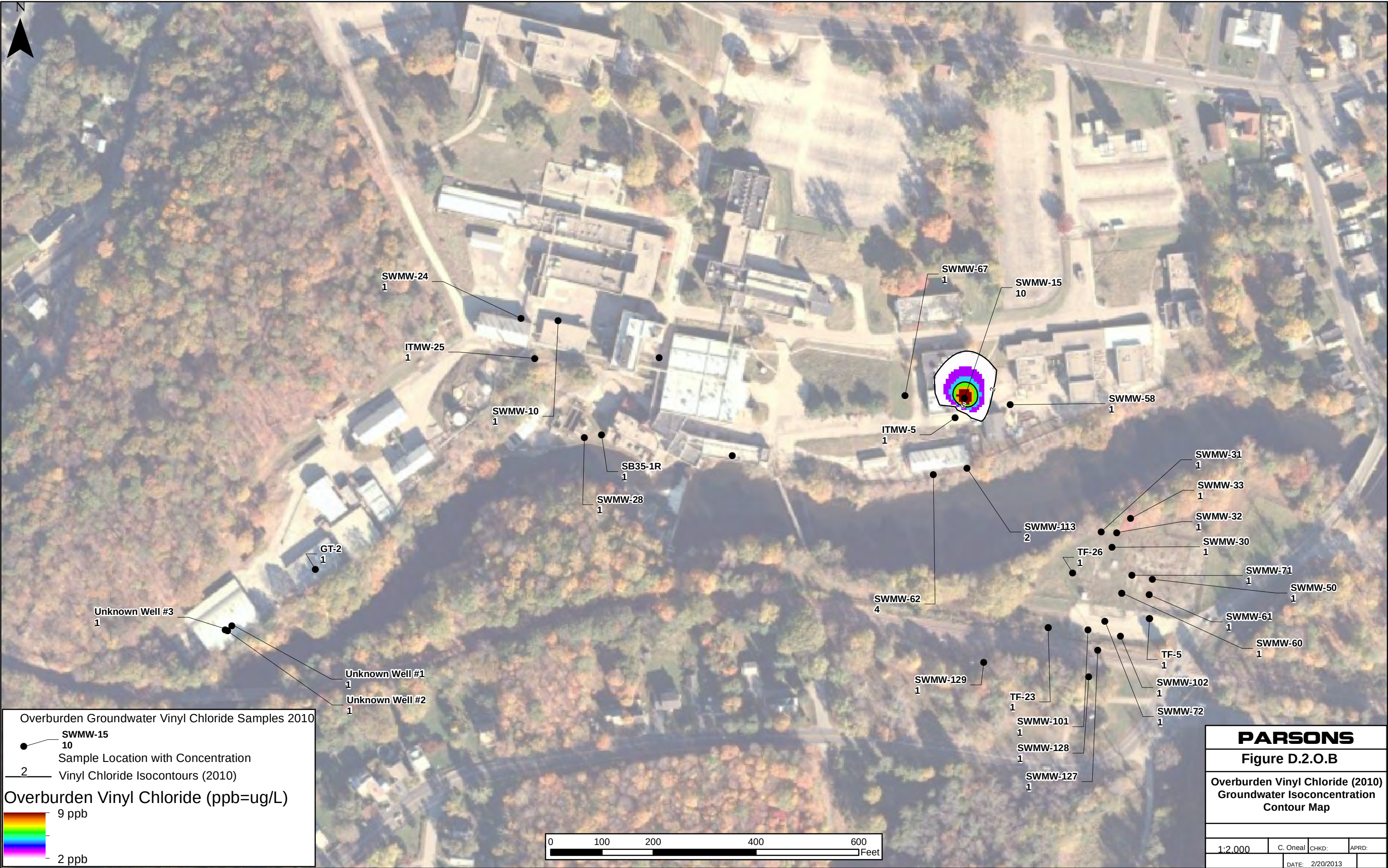


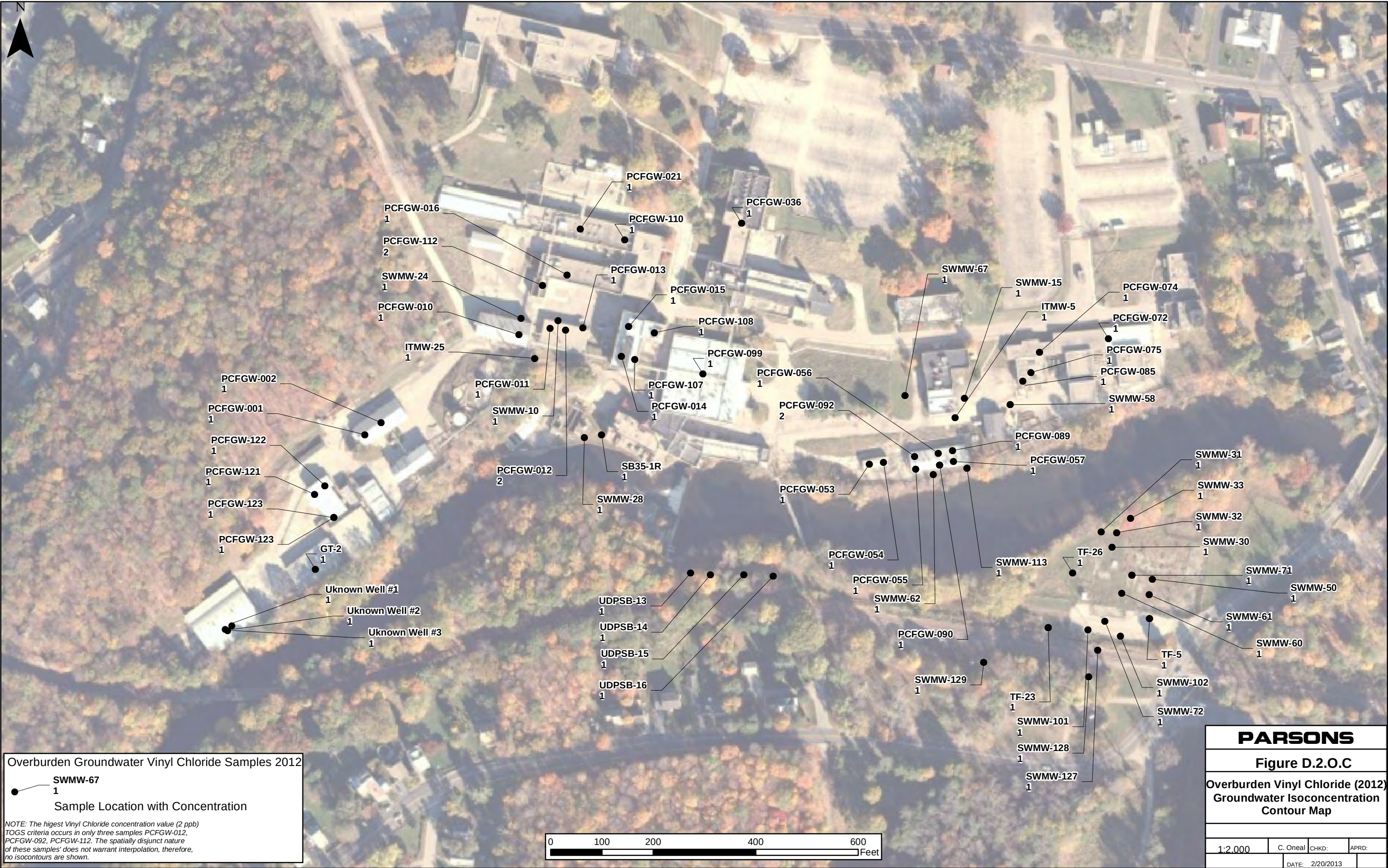


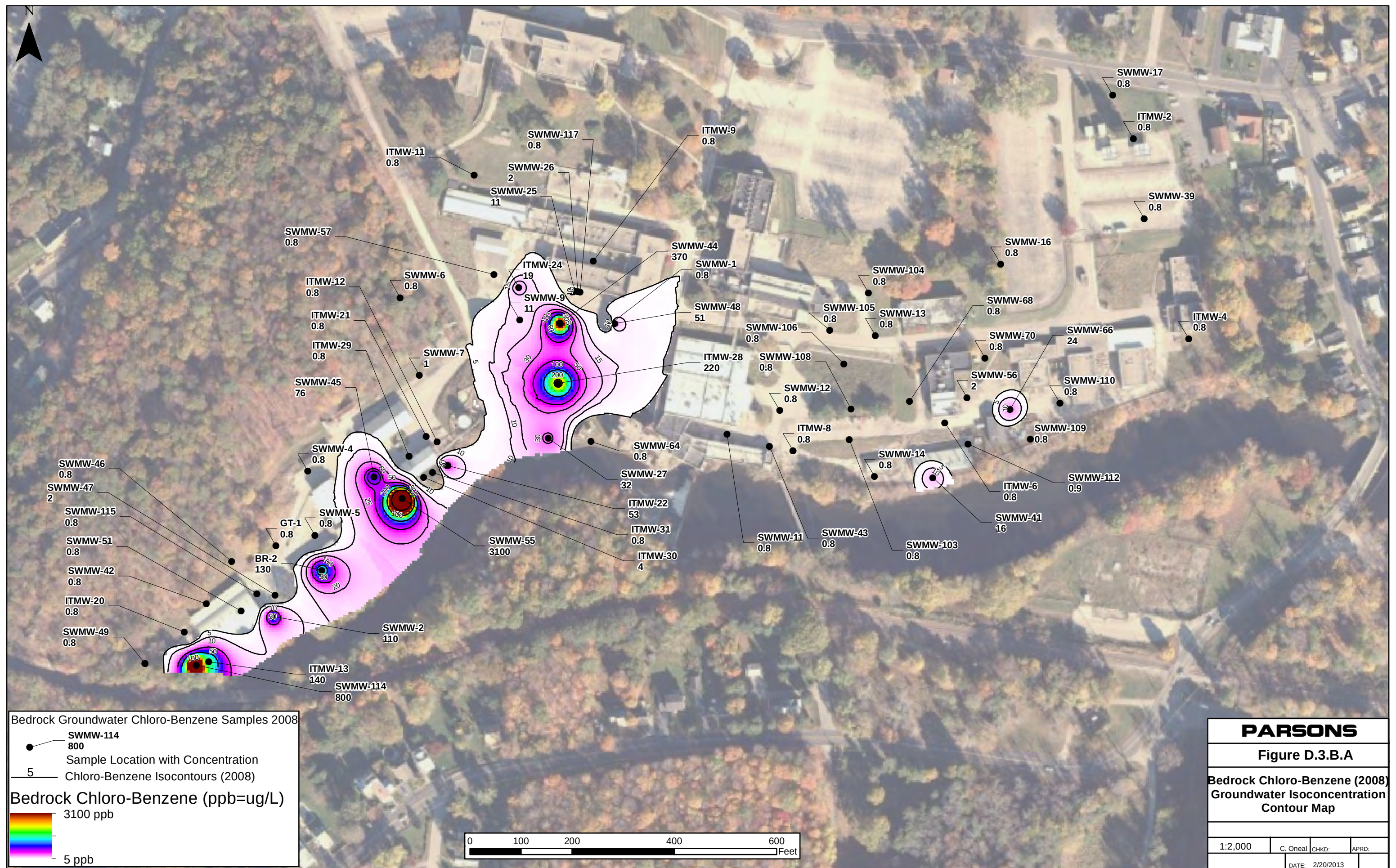




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Bedrock Groundwater Chloro-Benzene Samples 2008

● SWMW-114
800

— 5 — Sample Location with Concentration

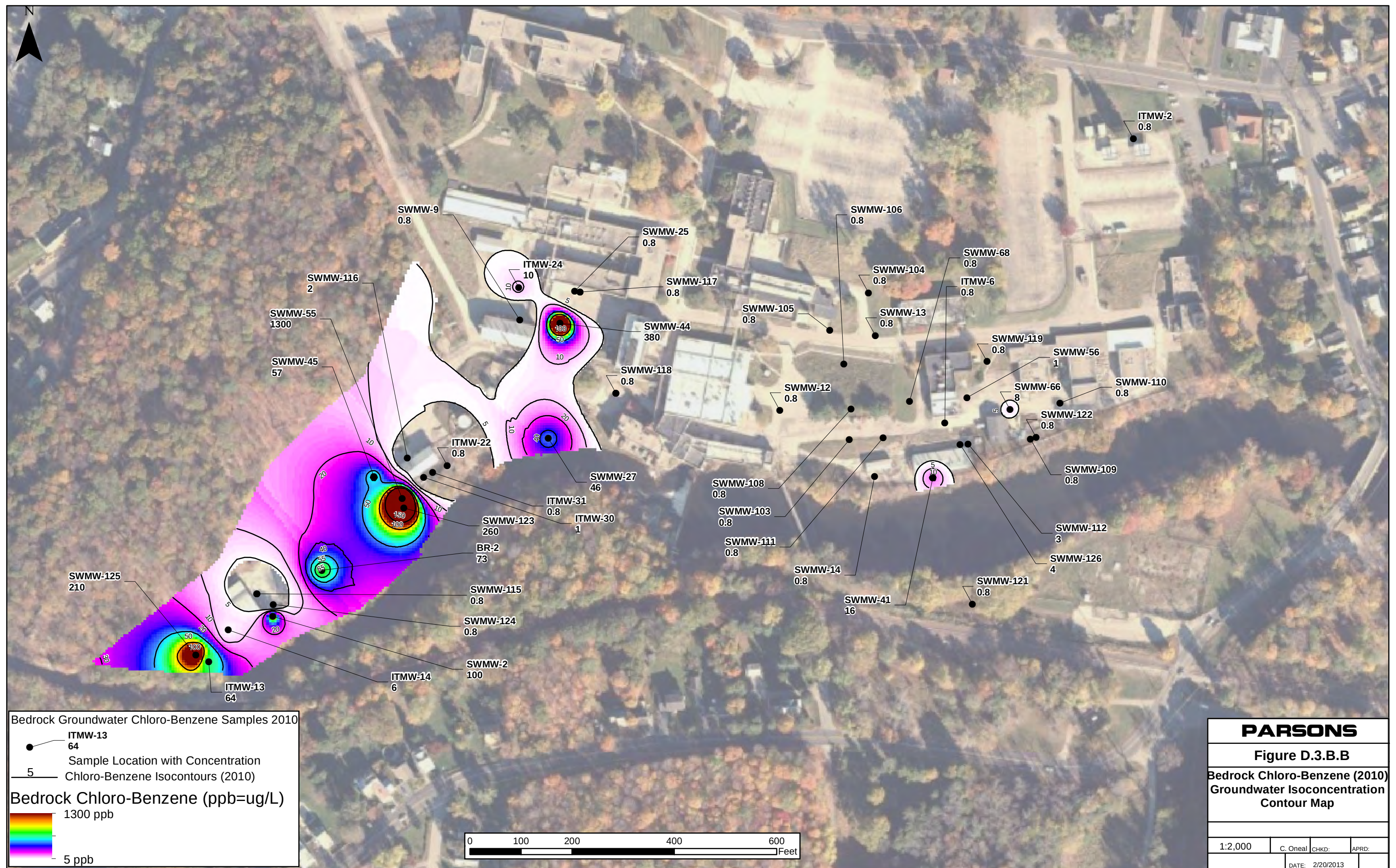
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Bedrock Chloro-Benzene (ppb=ug/L)

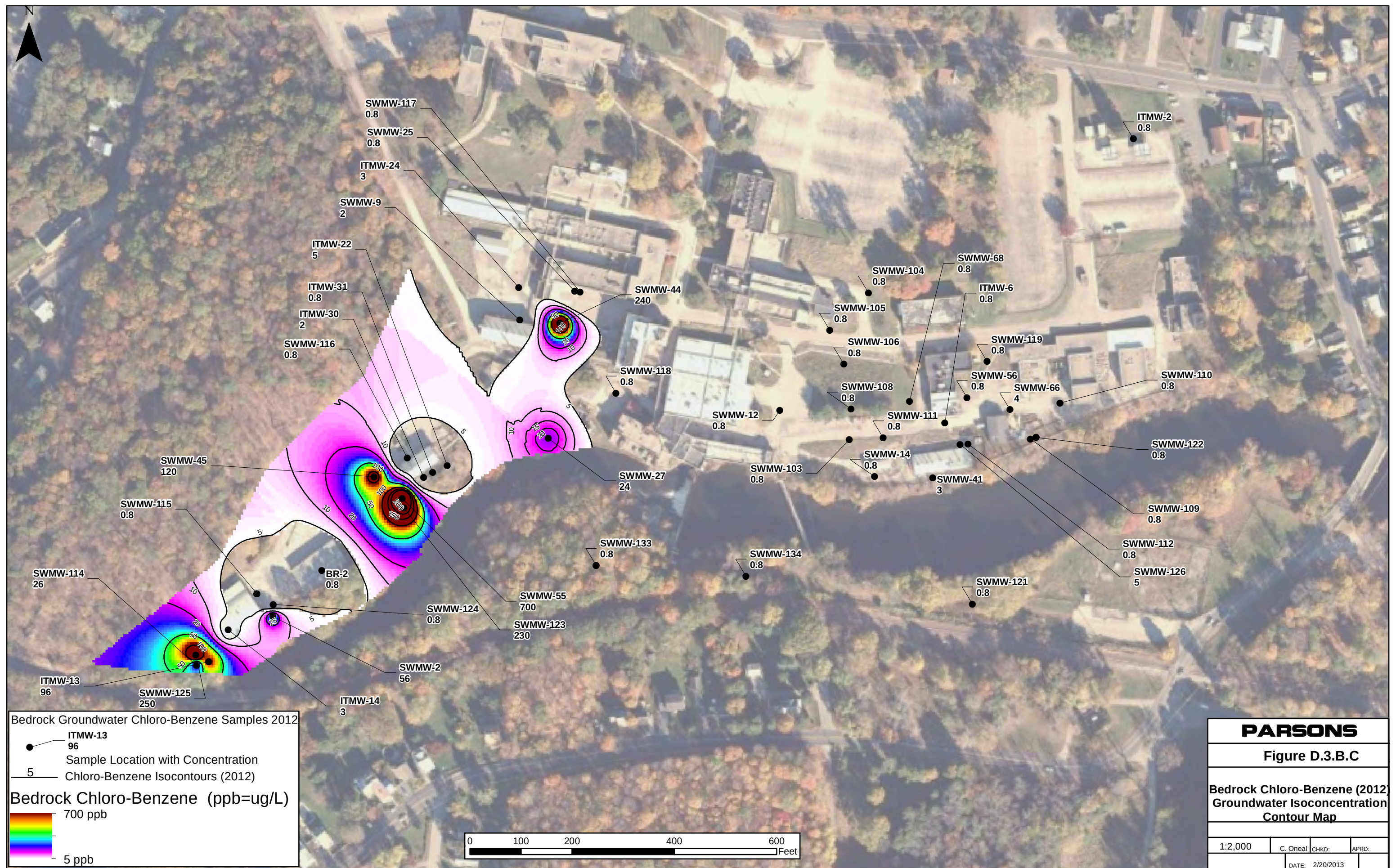
3100 ppb

5 ppb

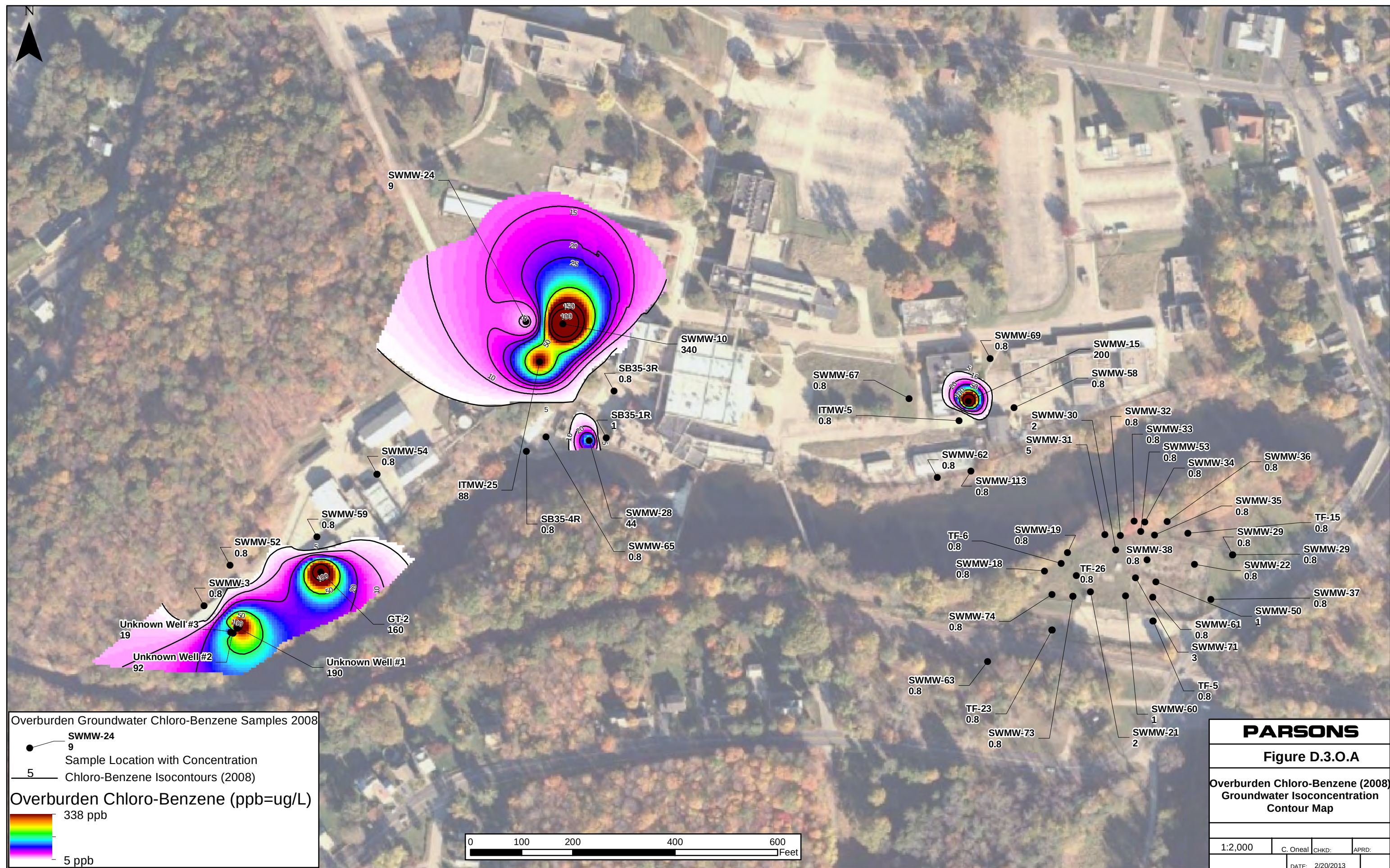
PARSONS			
Figure D.3.B.A			
Bedrock Chloro-Benzene (2008) Groundwater Isoconcentration Contour Map			
1:2,000	C. Oneal	CHKD:	APRD:
DATE: 2/20/2013			



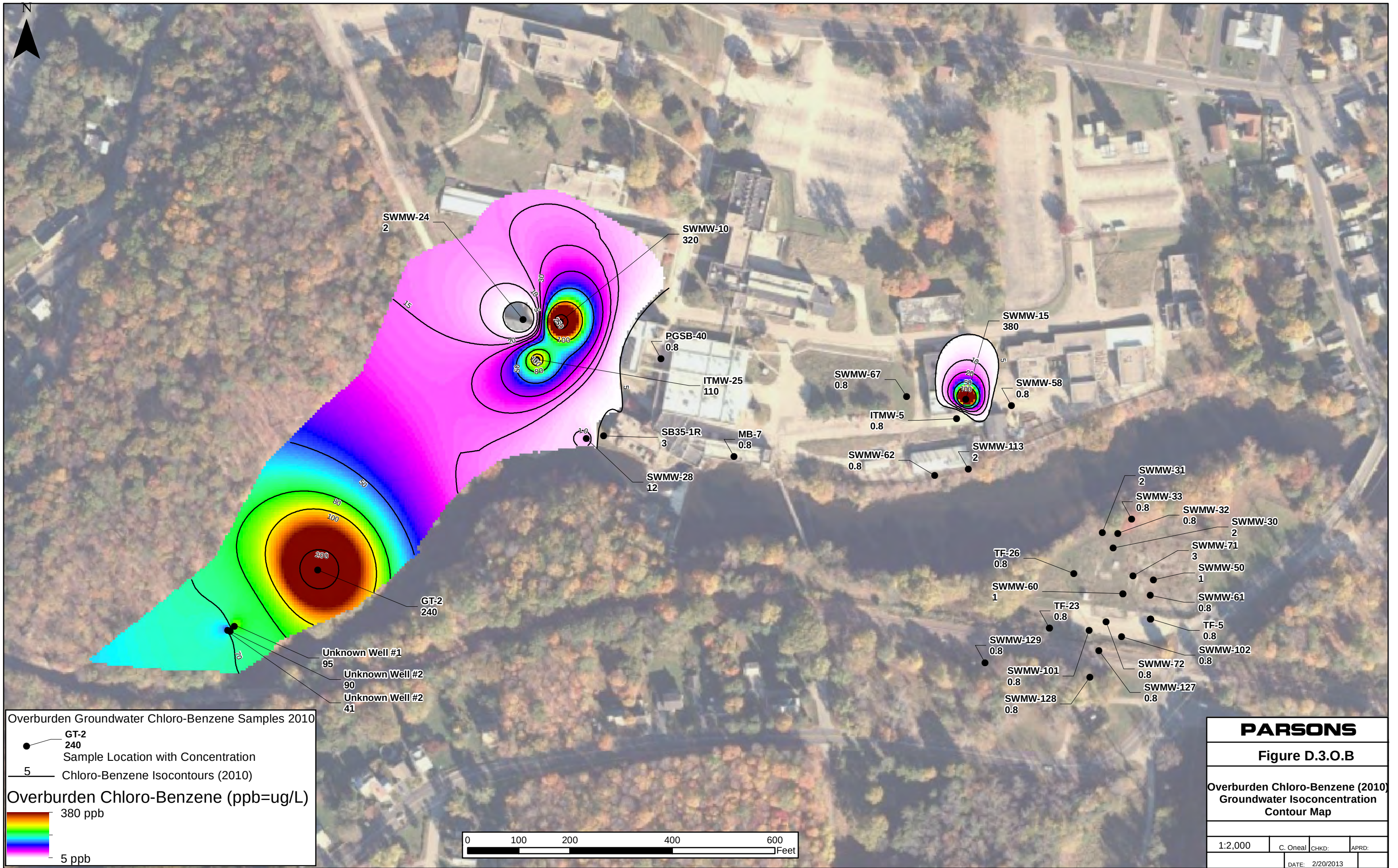
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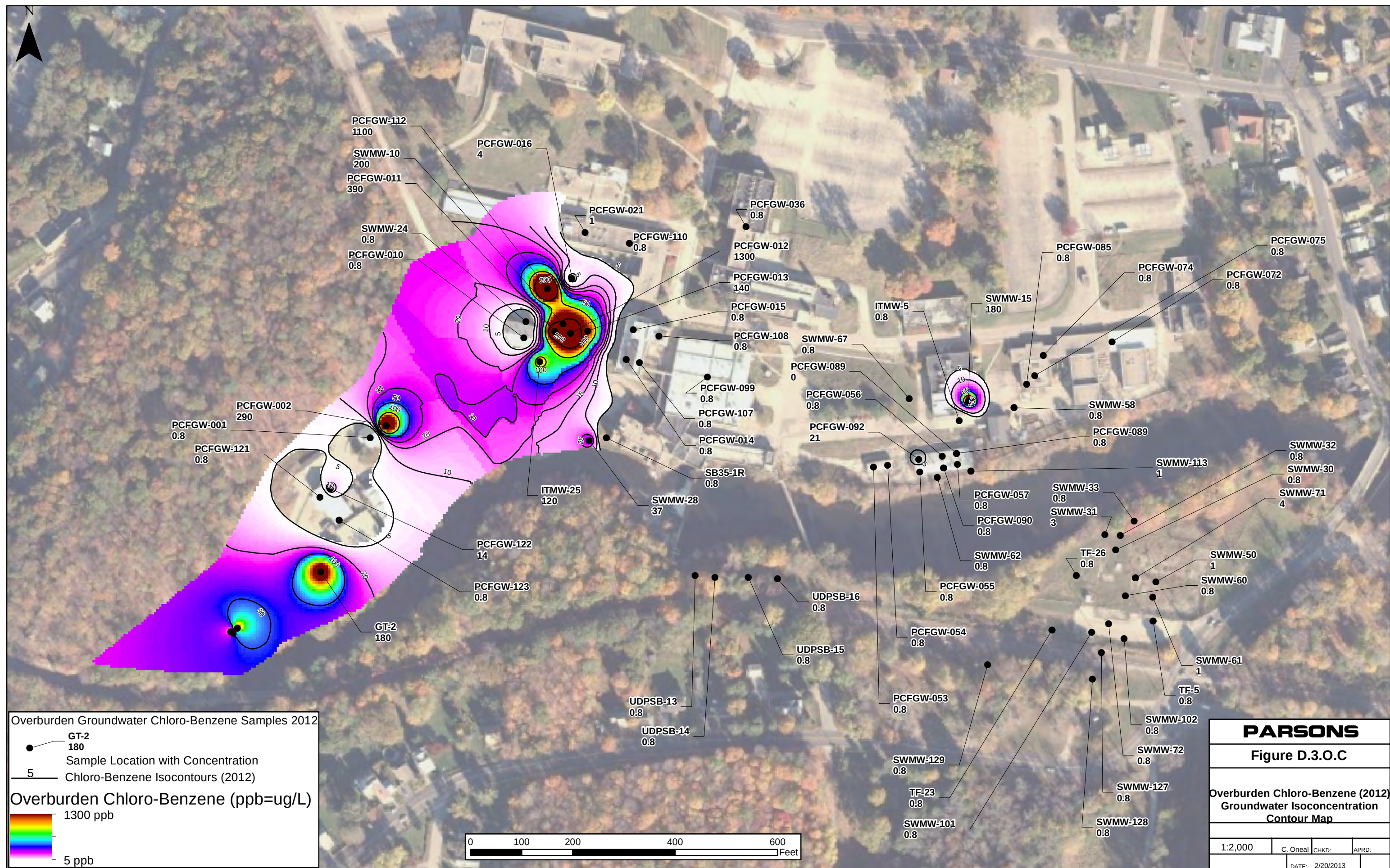


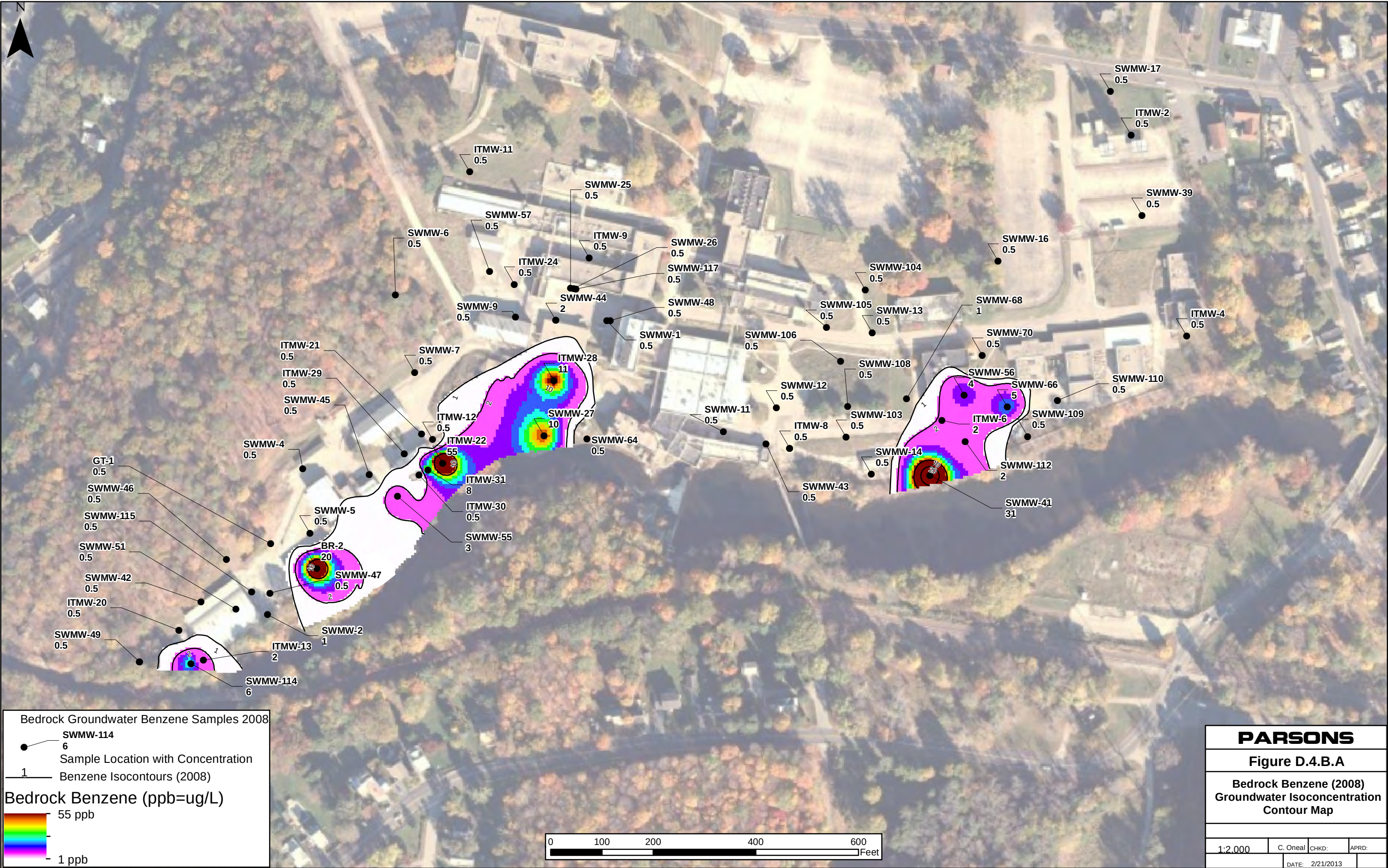
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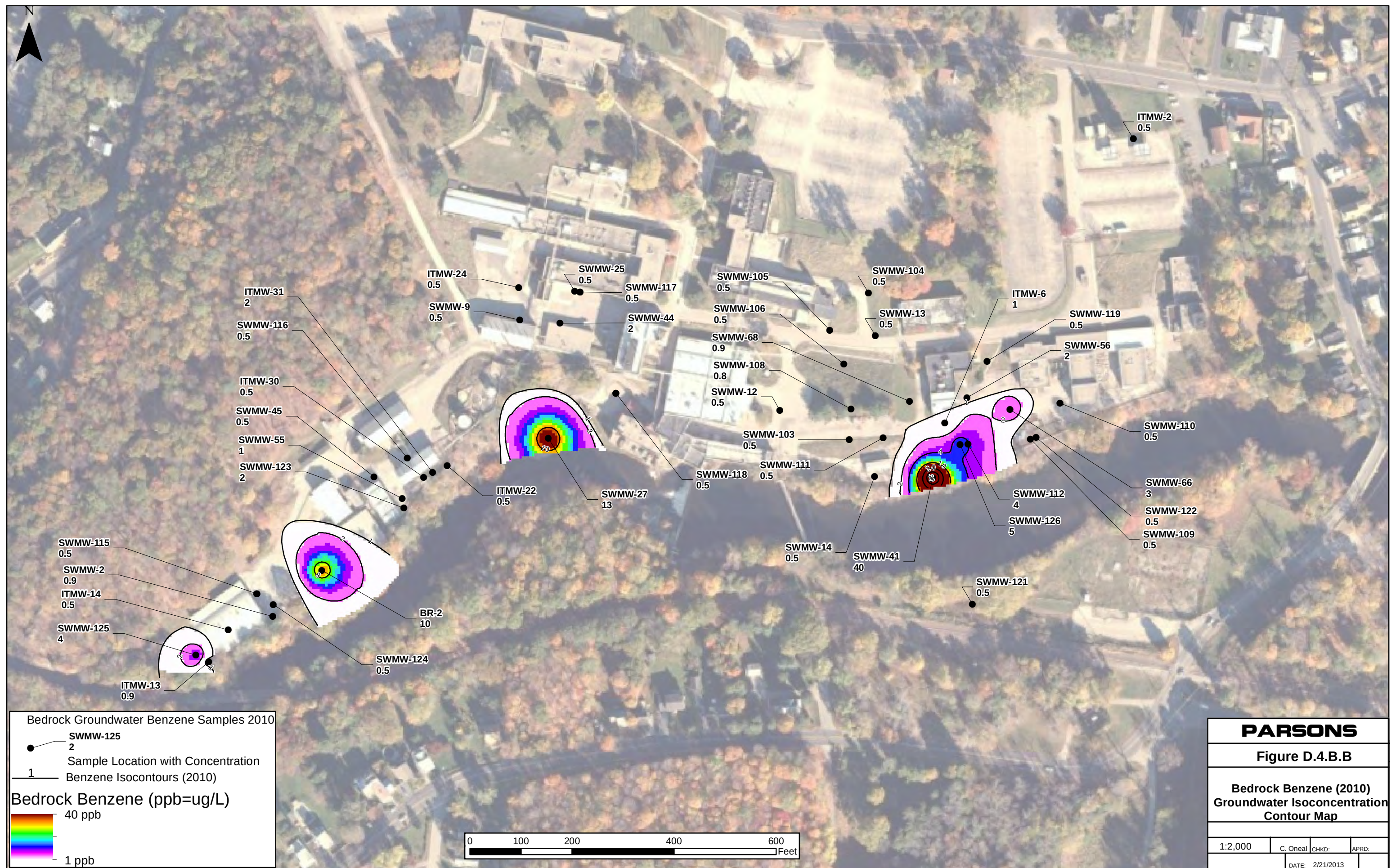


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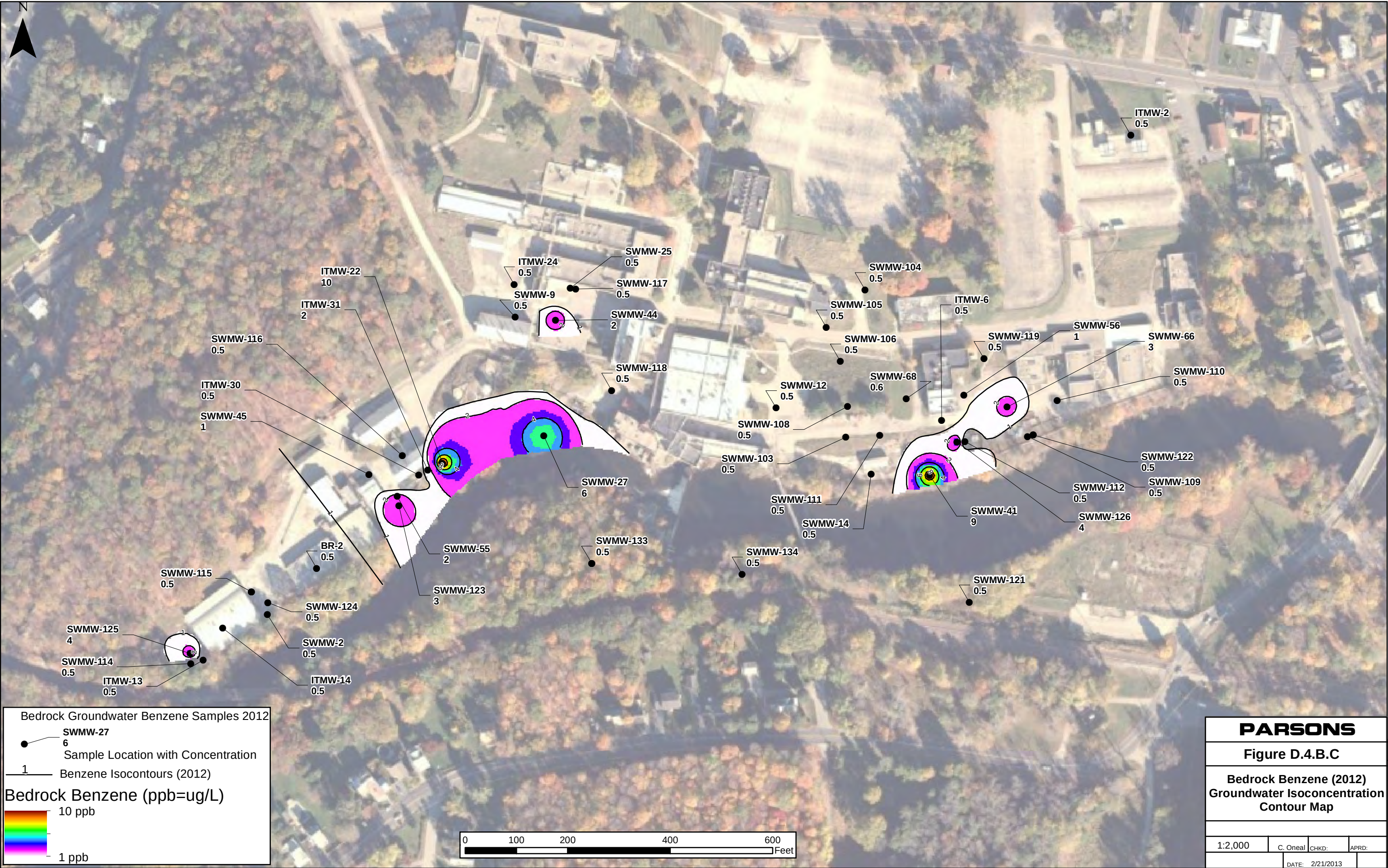


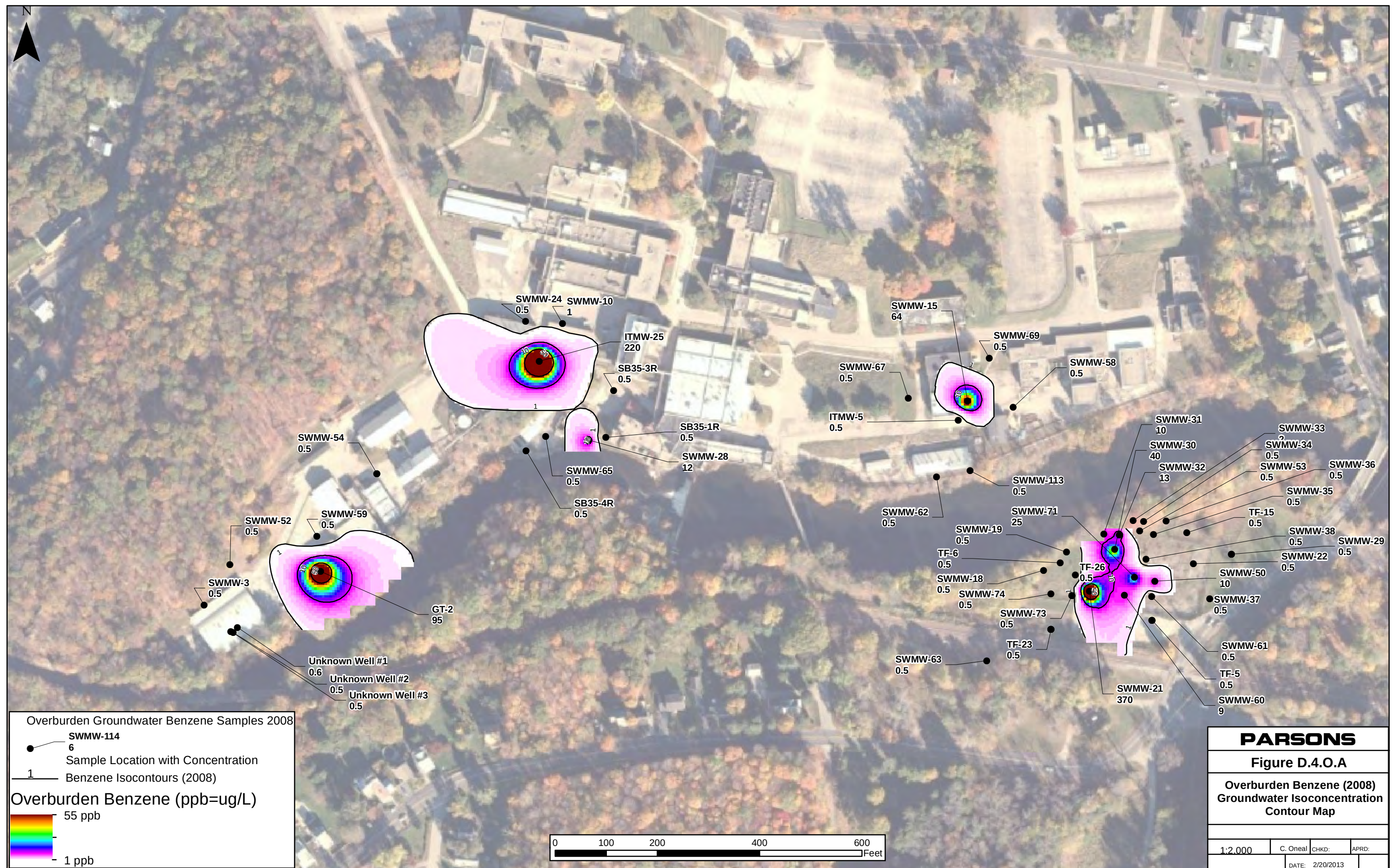






Path: C:\Users\p0064397\Documents\CTech\Chevron_EVS\MXD\BENZENE\BENZ_BR_2010.mxd





Overburden Groundwater Benzene Samples 2008

● SWMW-114
6
Sample Location with Concentration

1 Benzene Isocontours (2008)

Overburden Benzene (ppb=ug/L)

55 ppb

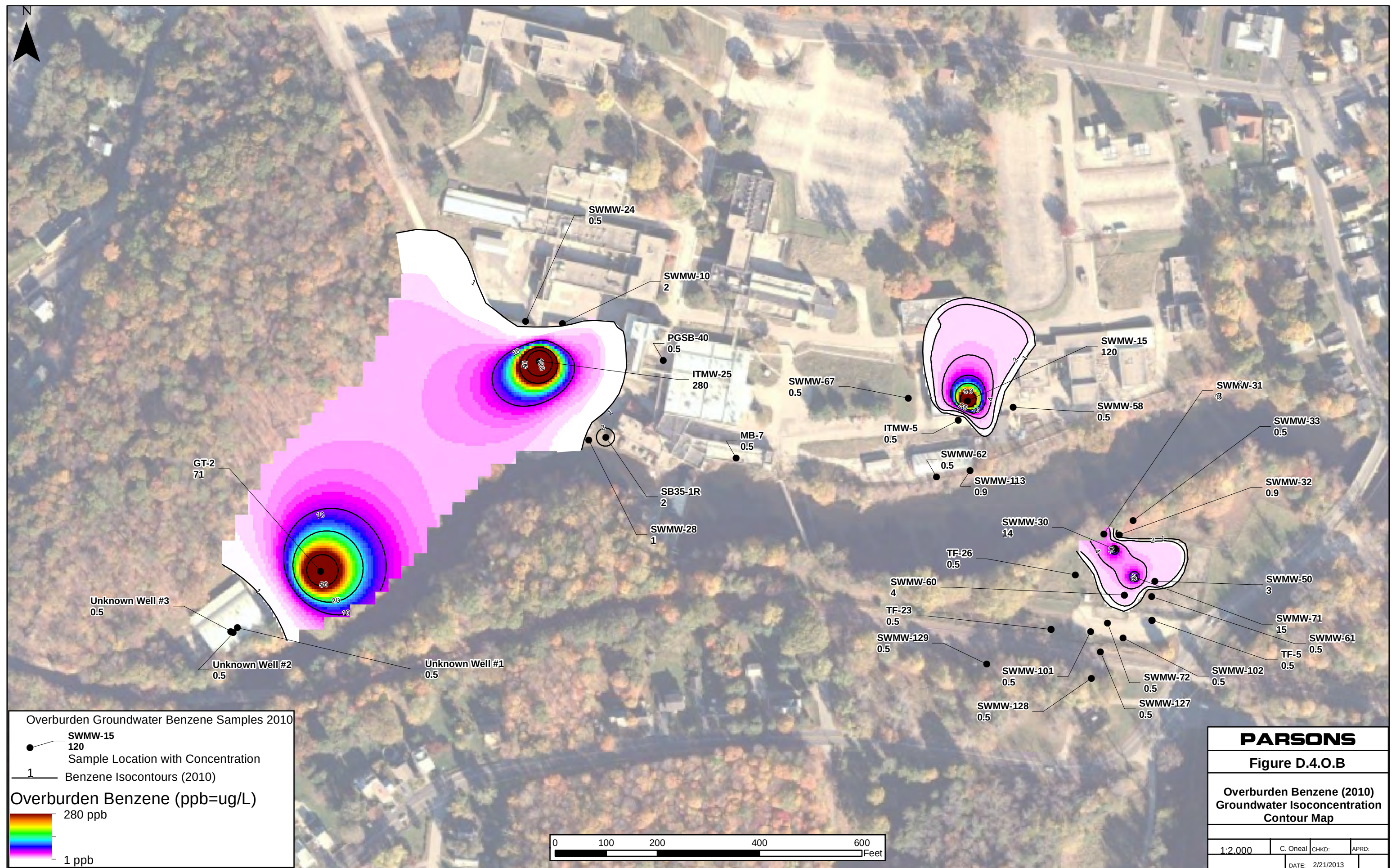
1 ppb

PARSONS

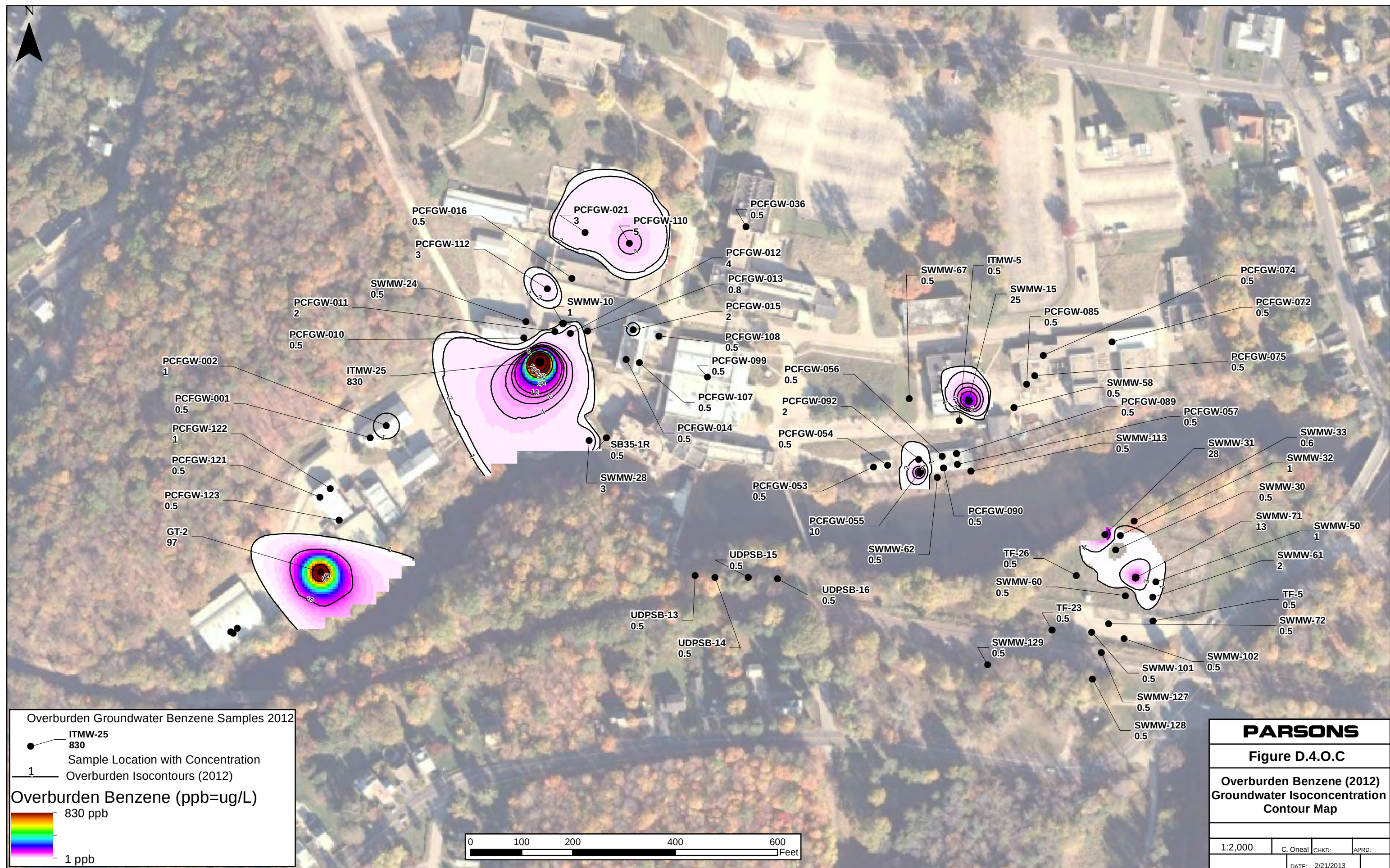
Figure D.4.O.A

**Overburden Benzene (2008)
Groundwater Isoconcentration
Contour Map**

1:2,000	C. Oneal	CHKD:	APRD:
DATE: 2/20/2013			



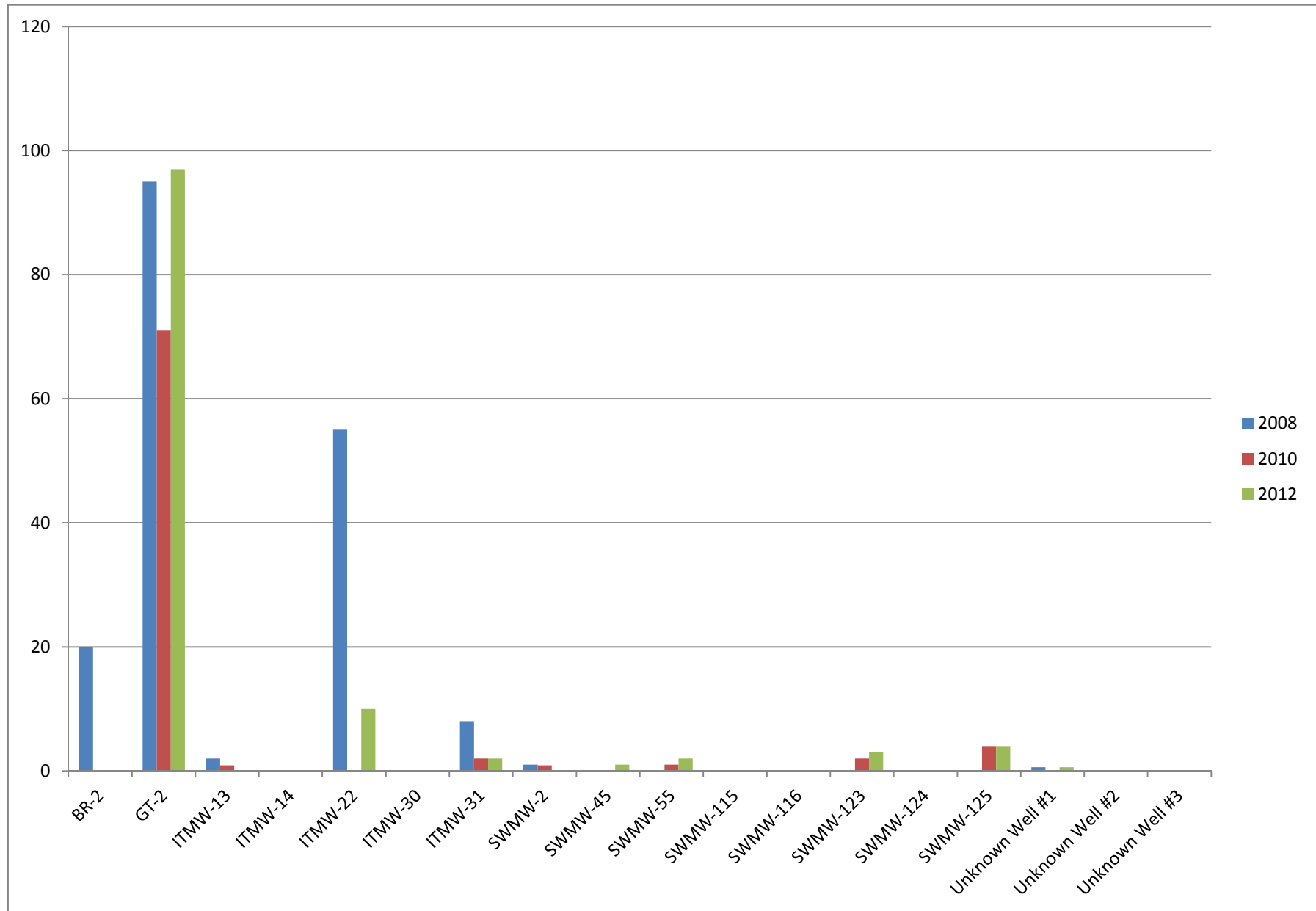
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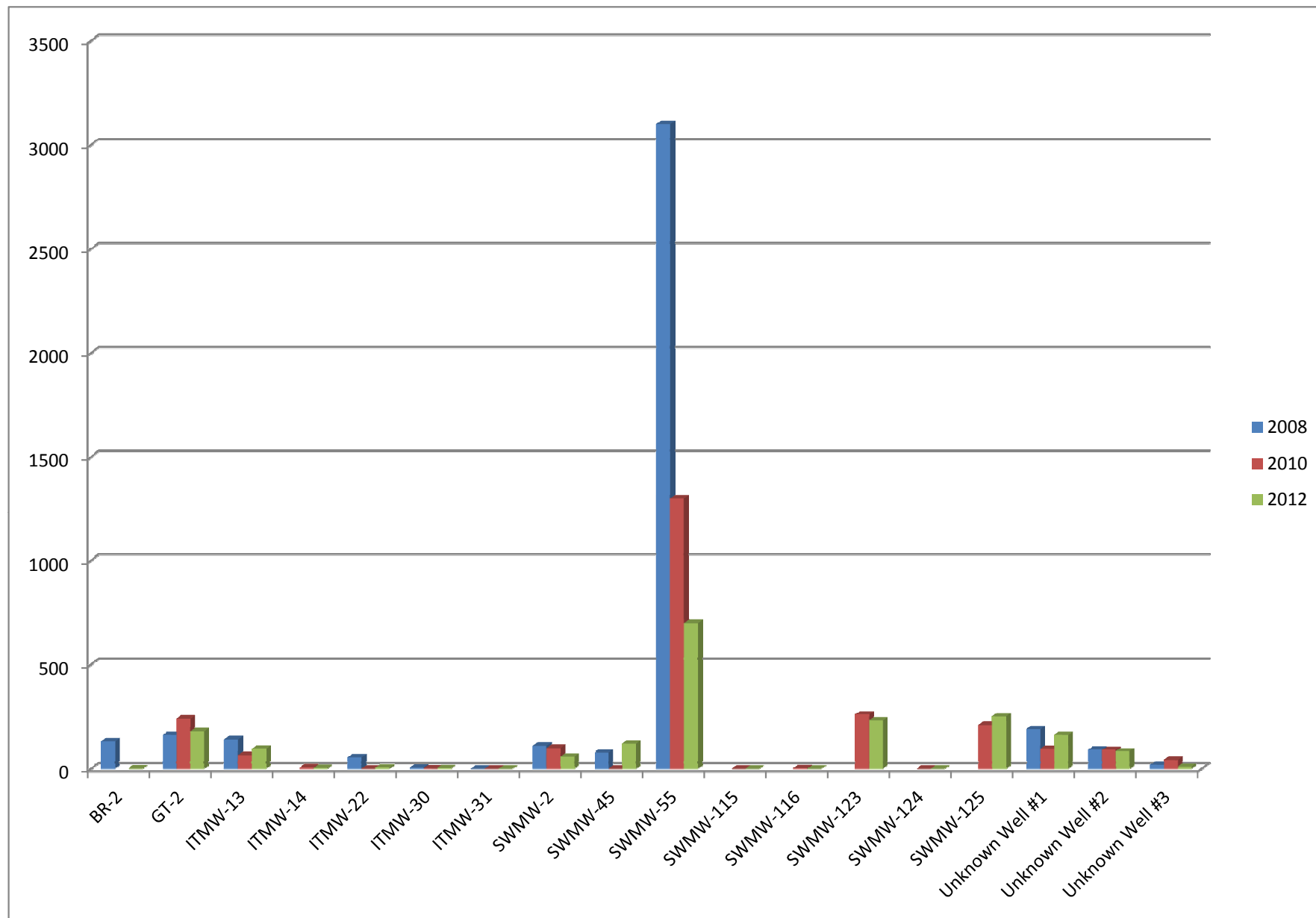
APPENDIX E

ANALYTICAL DATA TREND ANALYSIS GRAPHS

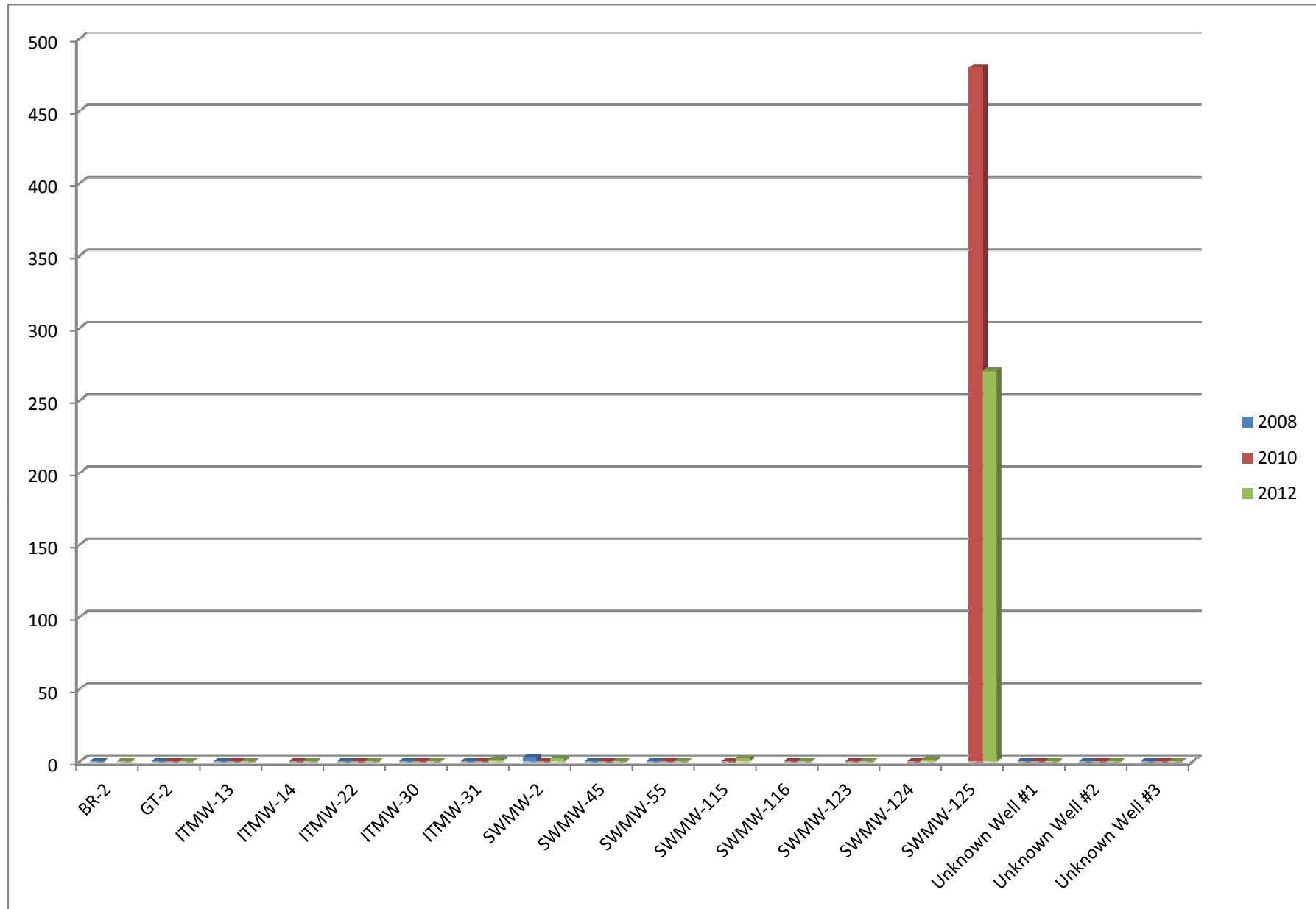
Building 36 and Building 58/83 Area Benzene Trend Analysis



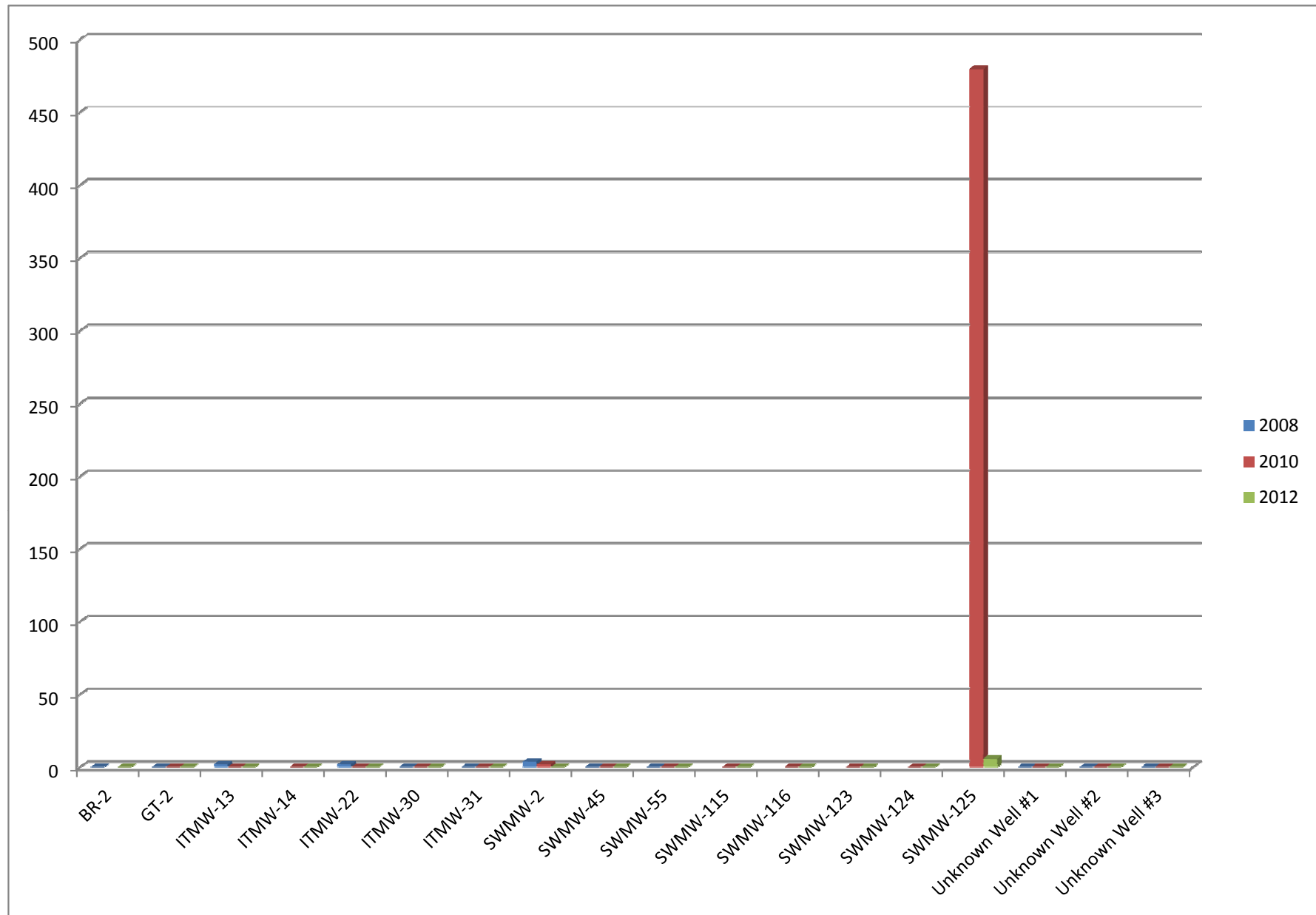
Building 36 and Building 58/83 Area Chlorobenzene Trend Analysis



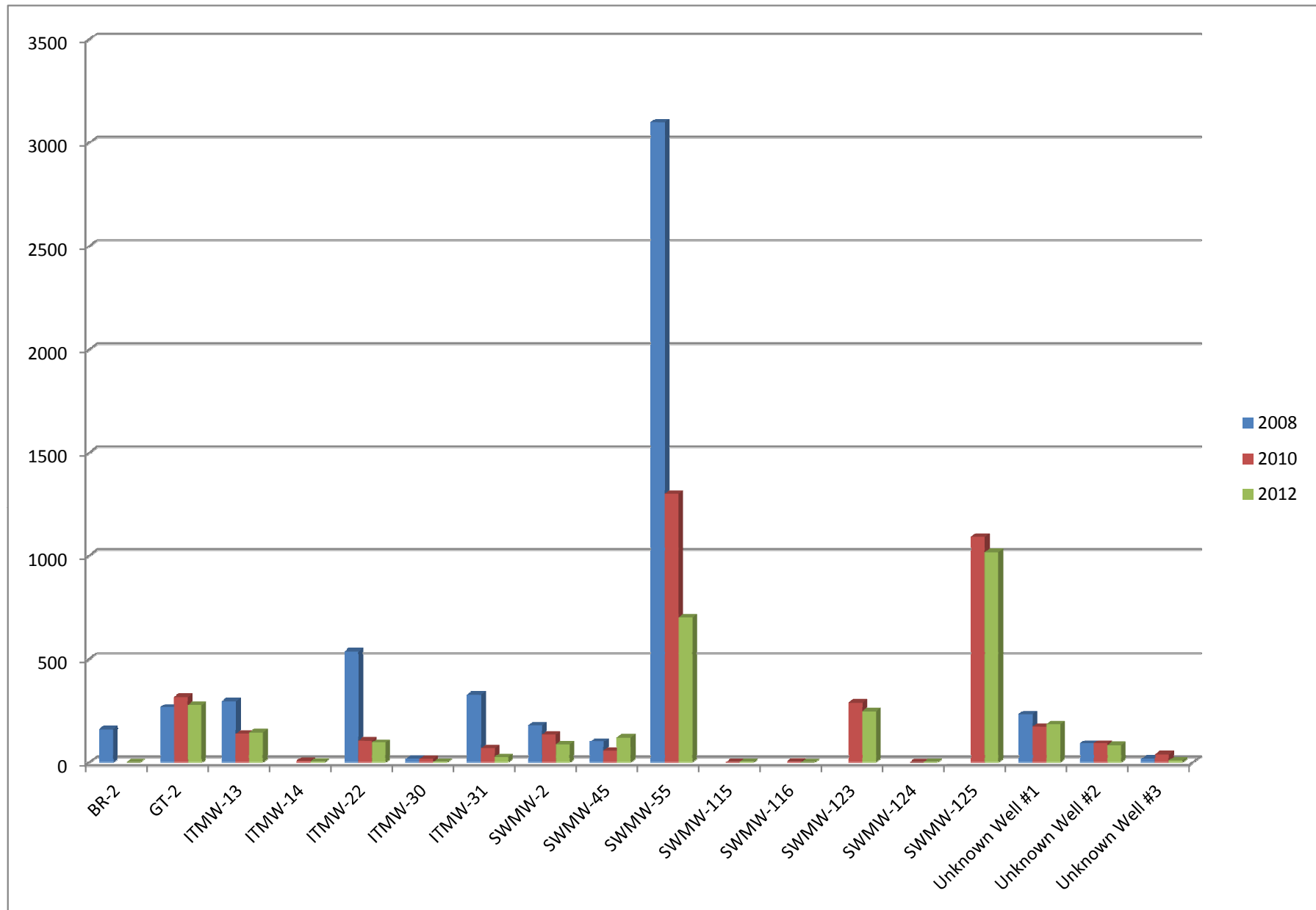
Building 36 and Building 58/83 Area TCE Trend Analysis



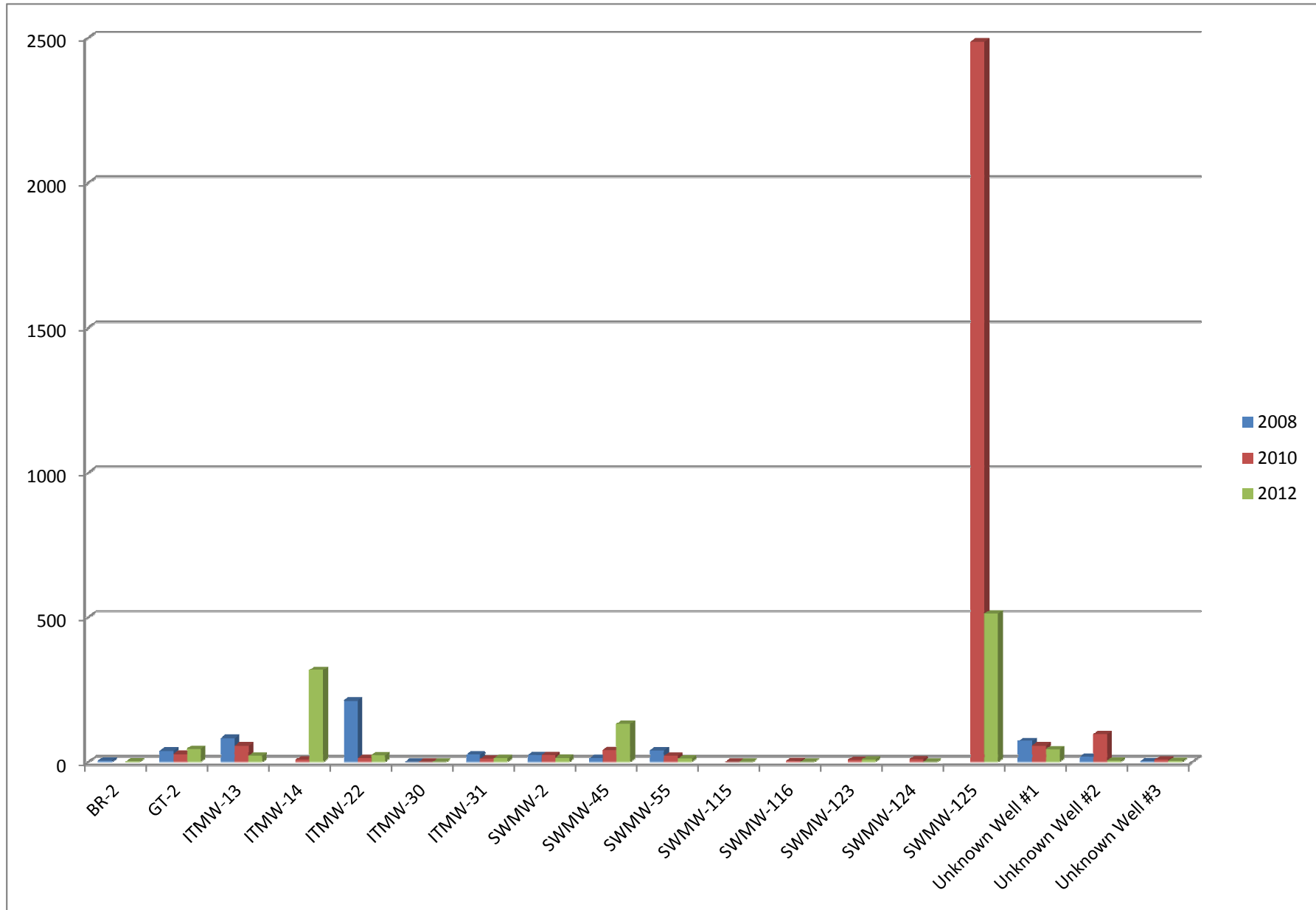
Building 36 and Building 58/83 Area Vinyl Chloride Trend Analysis



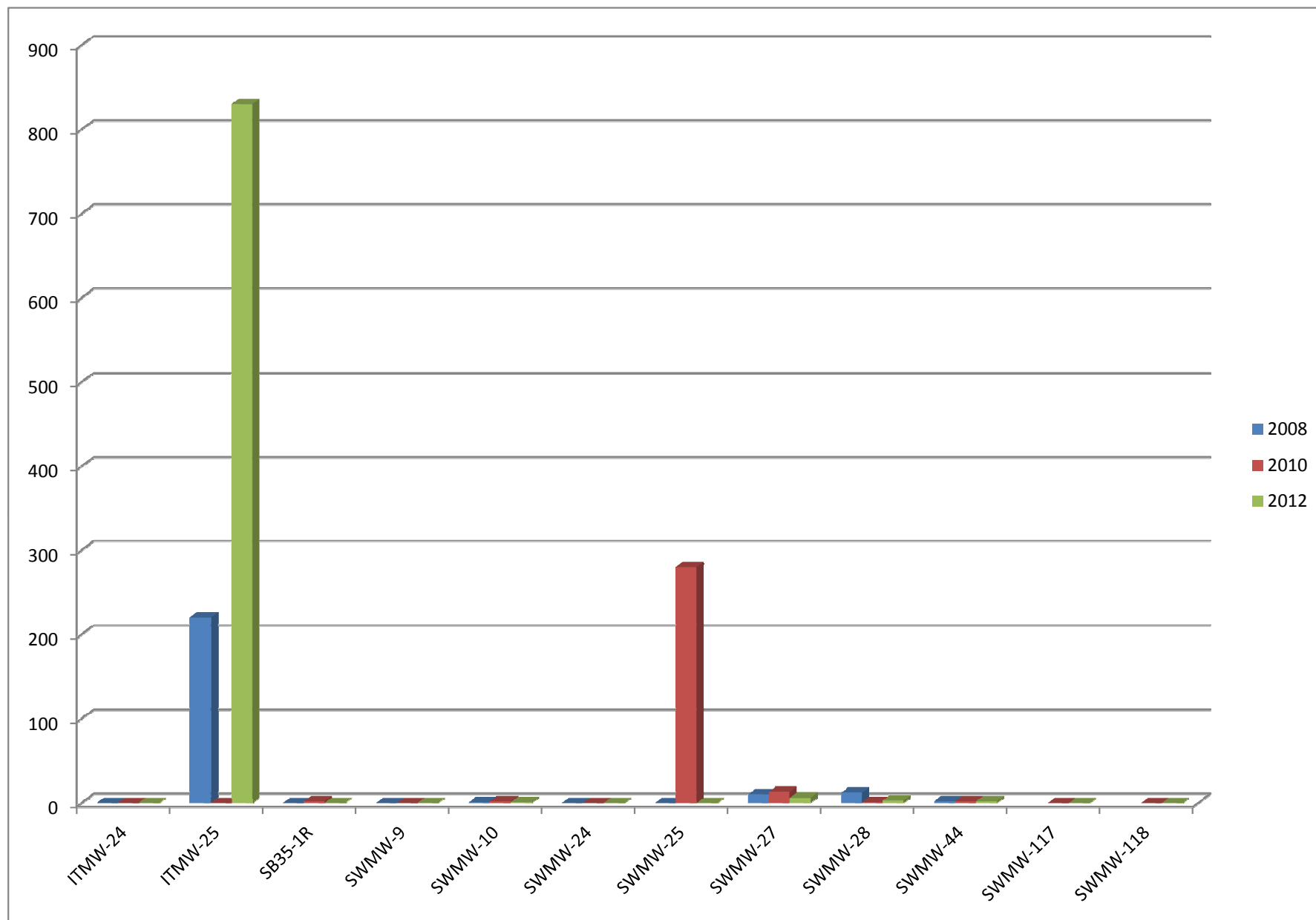
Building 36 and Building 58/83 Area Total VOCs Trend Analysis



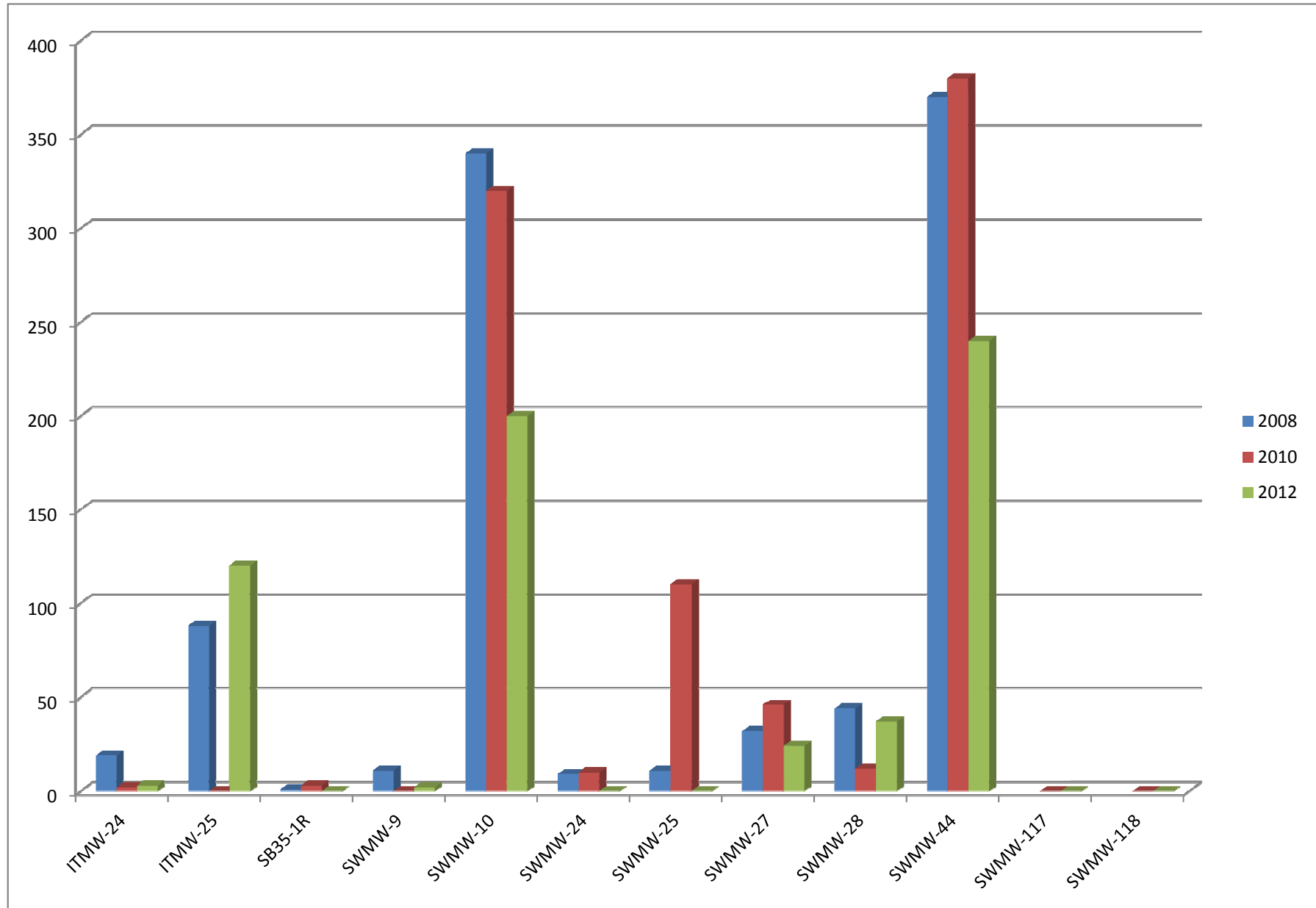
Building 36 and Building 58/83 Area Total SVOCs Trend Analysis



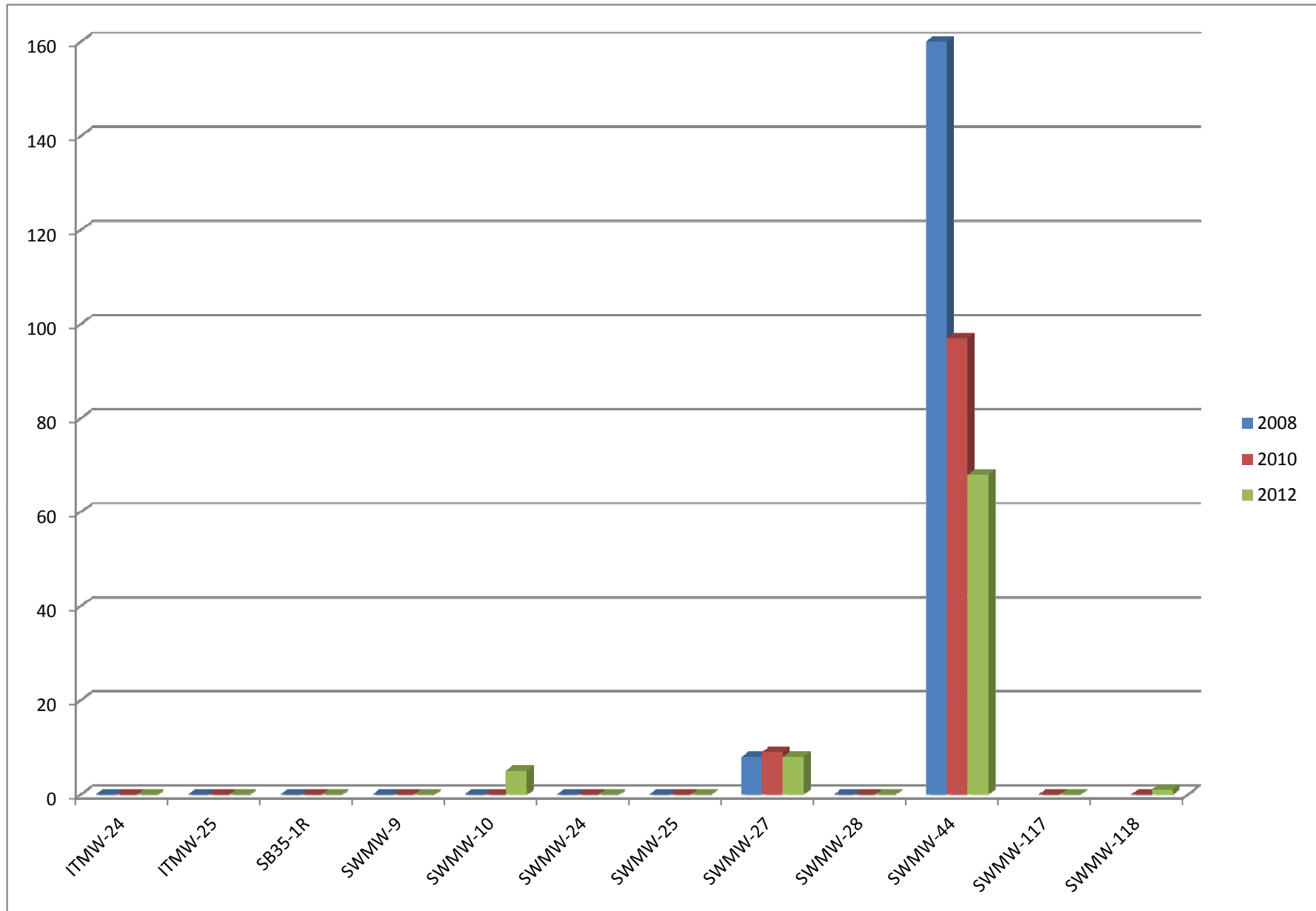
Building 45/55 Area Benzene Trend Analysis



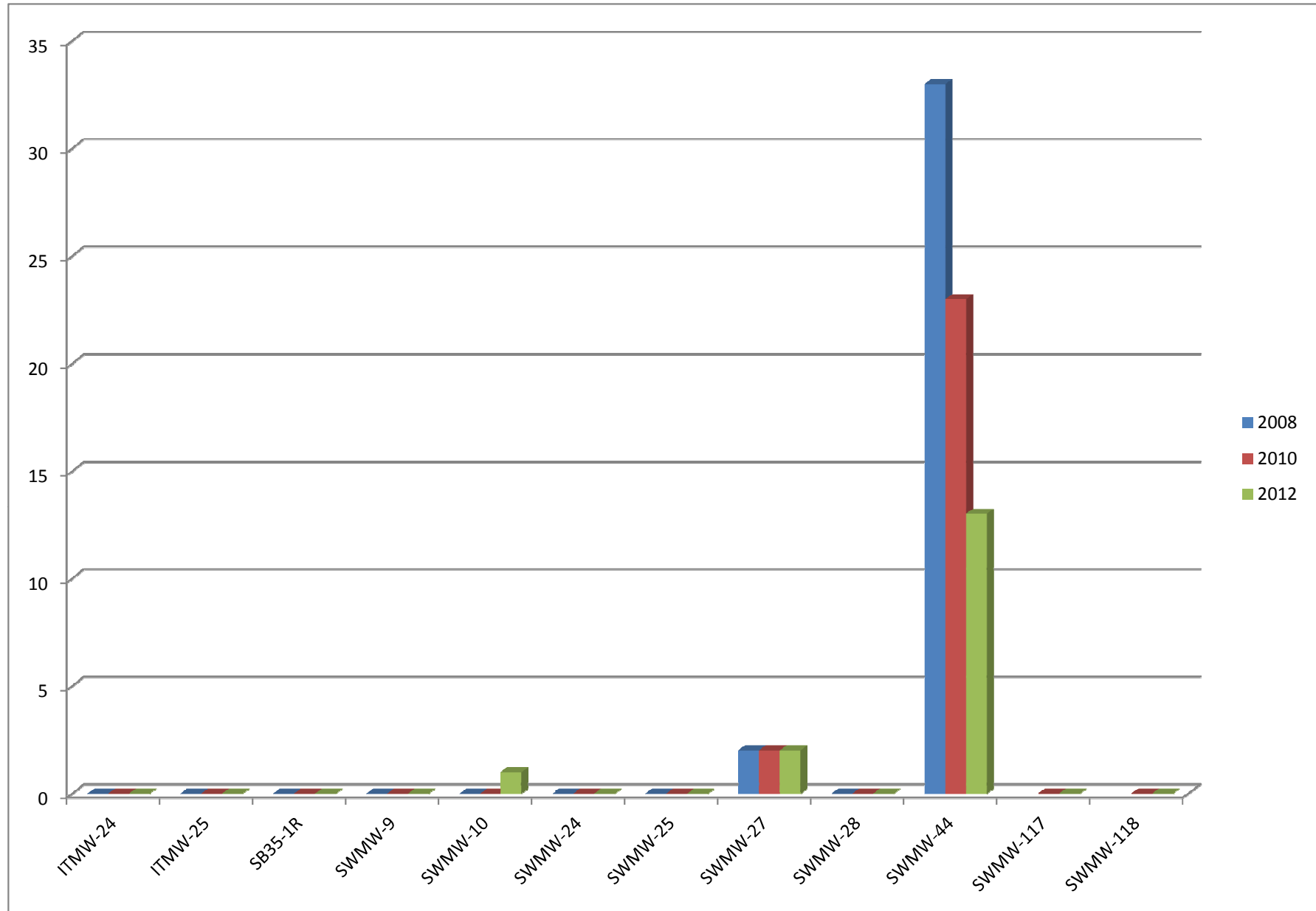
Building 45/55 Area Chlorobenzene Trend Analysis



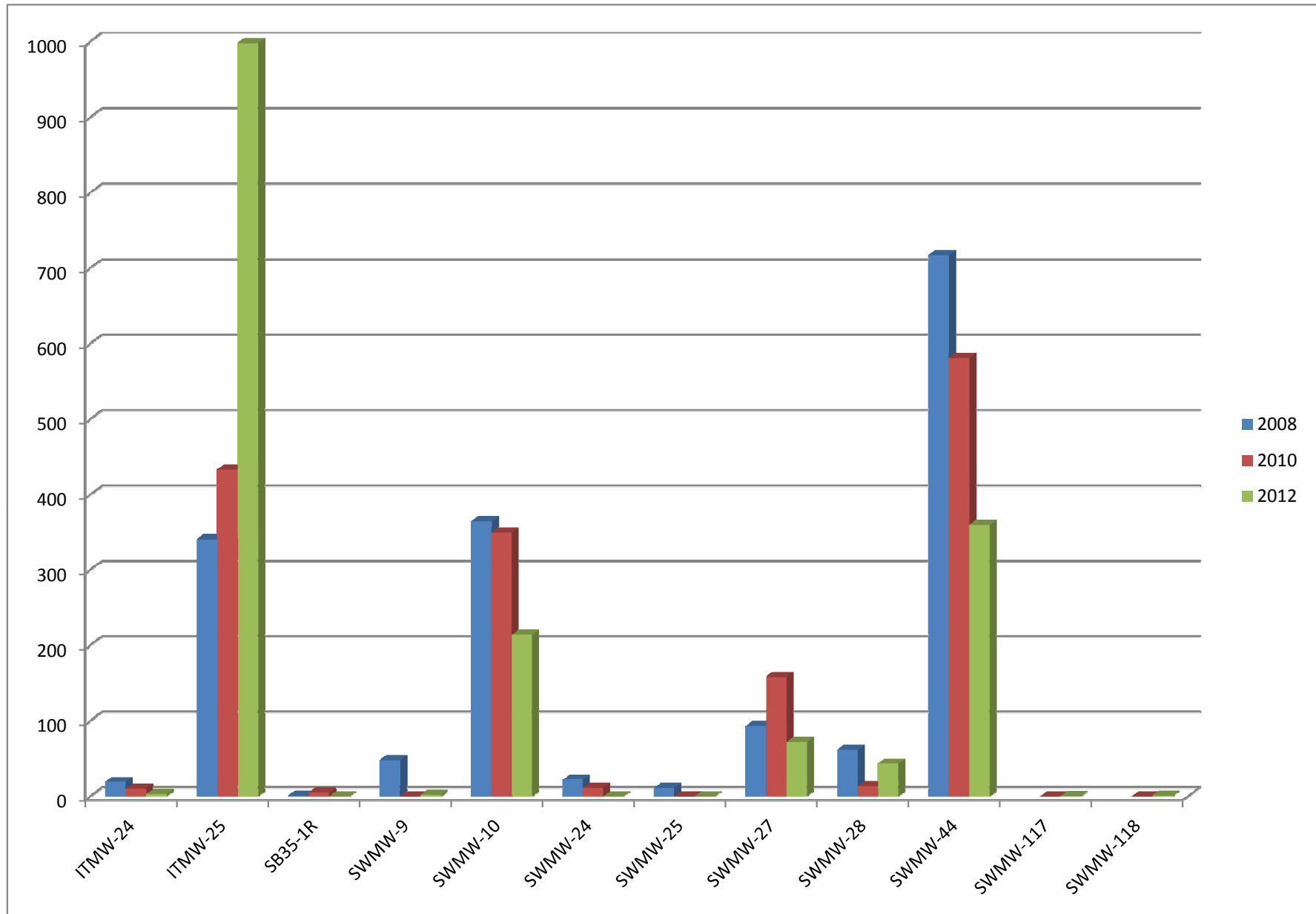
Building 45/55 Area TCE Trend Analysis



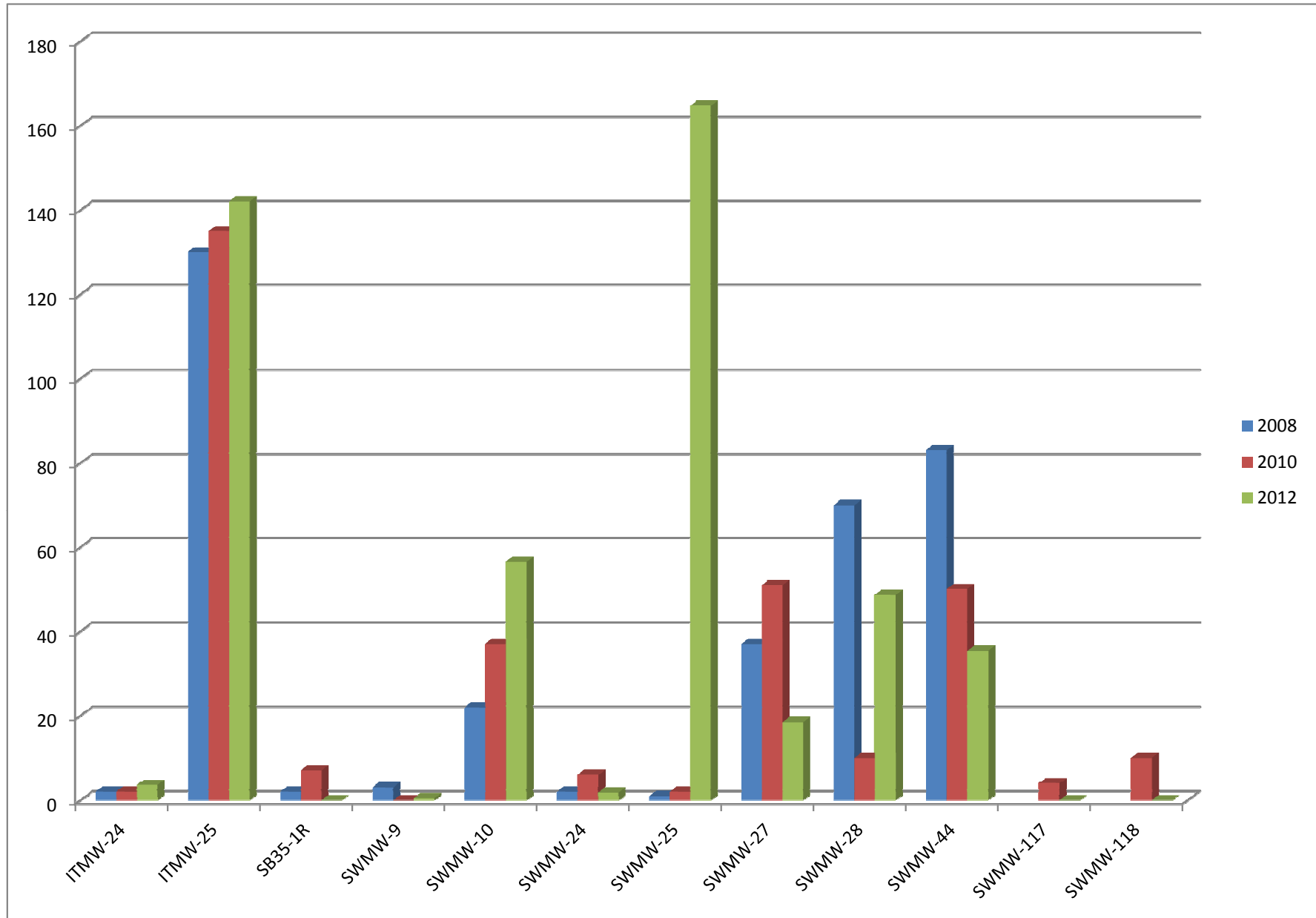
Building 45/55 Area Vinyl Chloride Trend Analysis



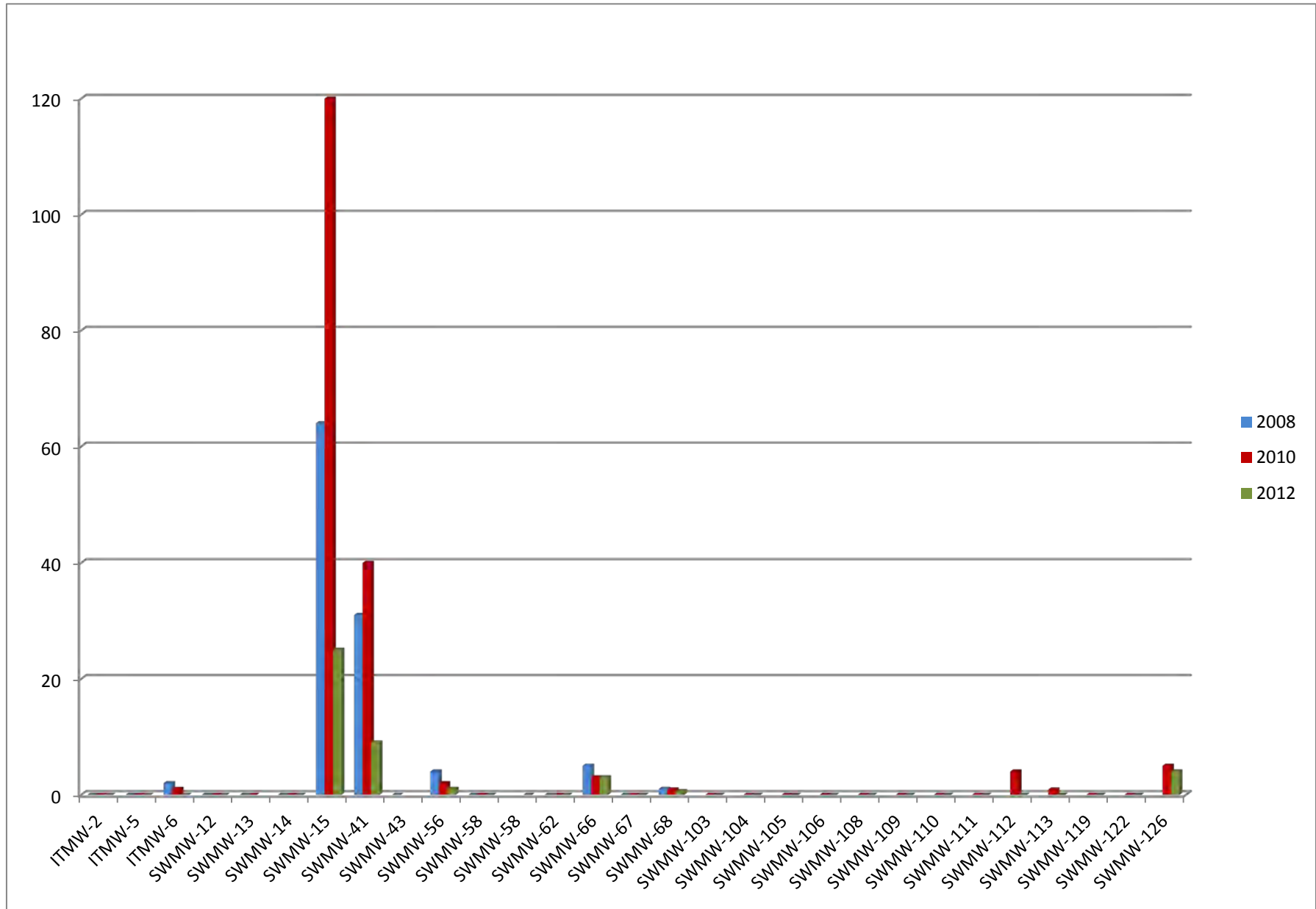
Building 45/55 Area Total VOCs Trend Analysis



Building 45/55 Area Total SVOCs Trend Analysis

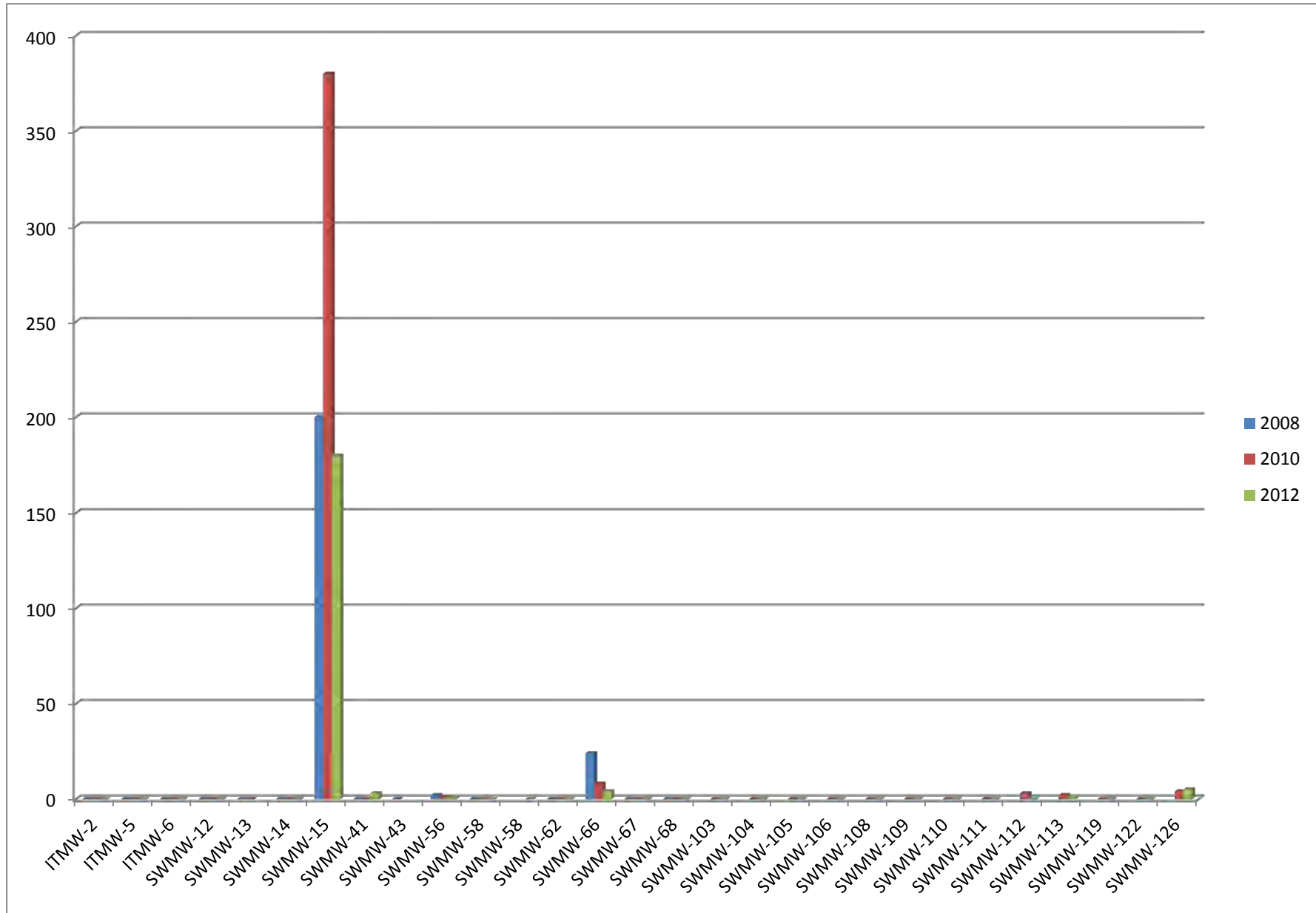


Building 51 Area Benzene Trend Analysis

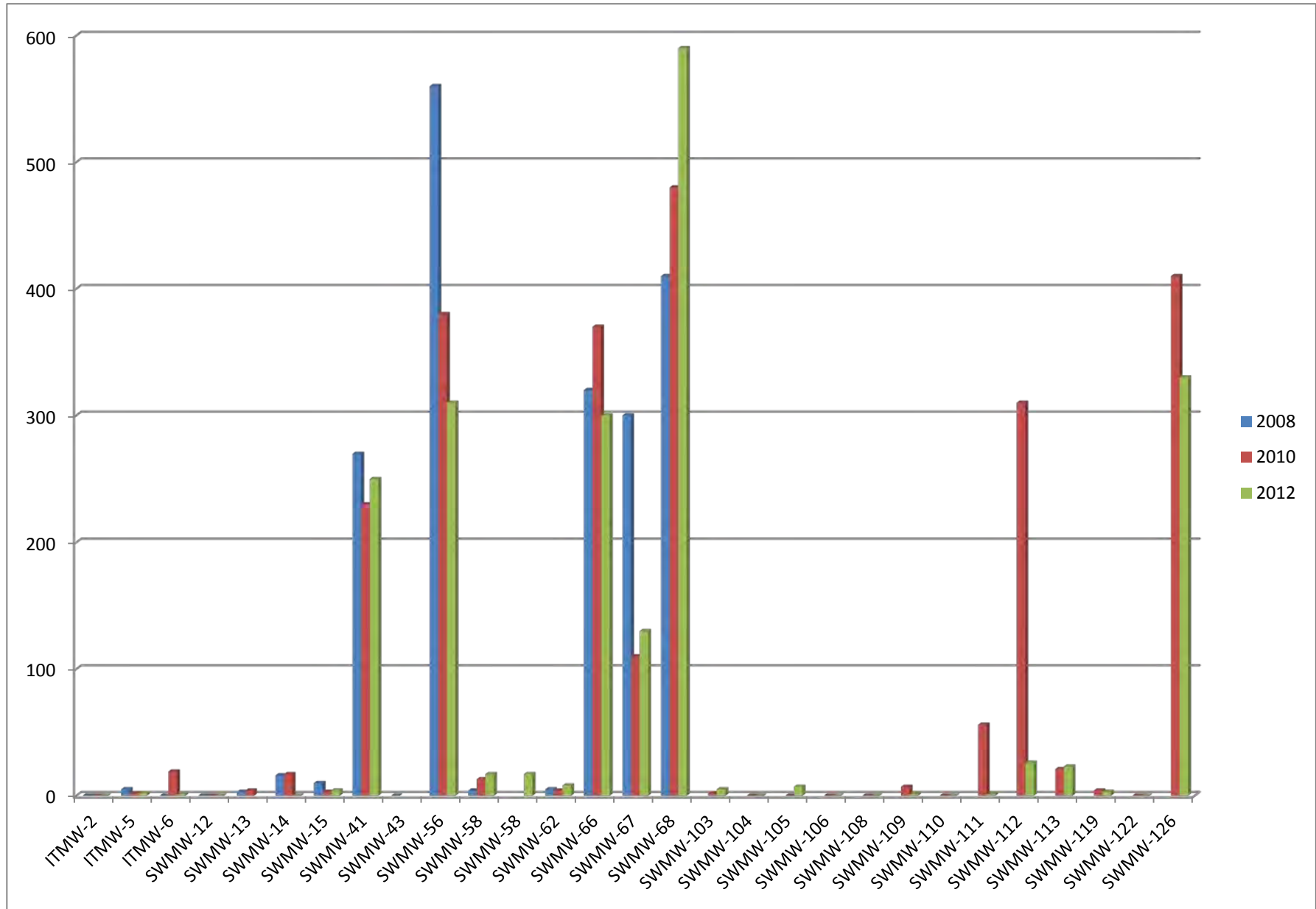


Building 51 Area

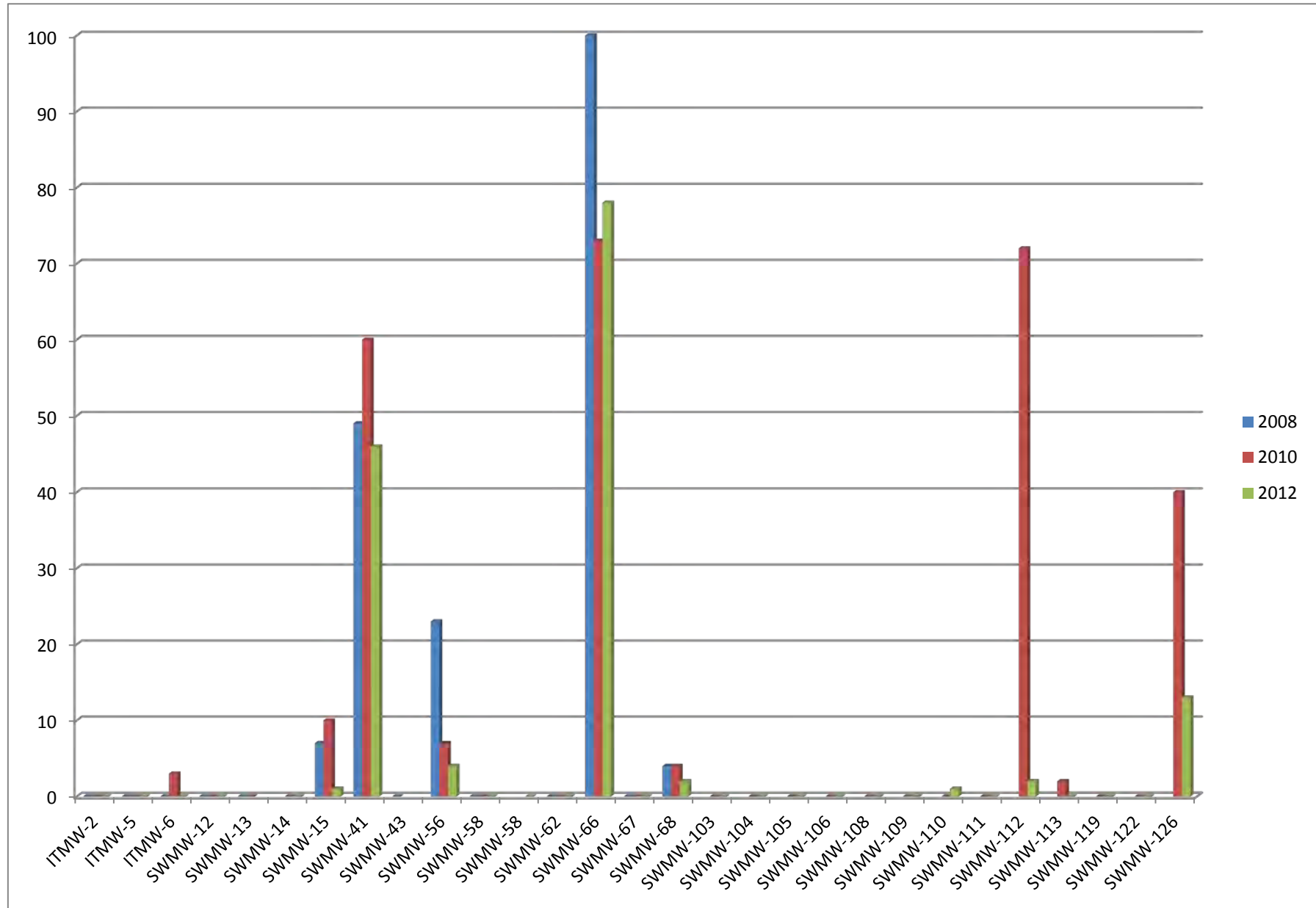
Chlorobenzene Trend Analysis



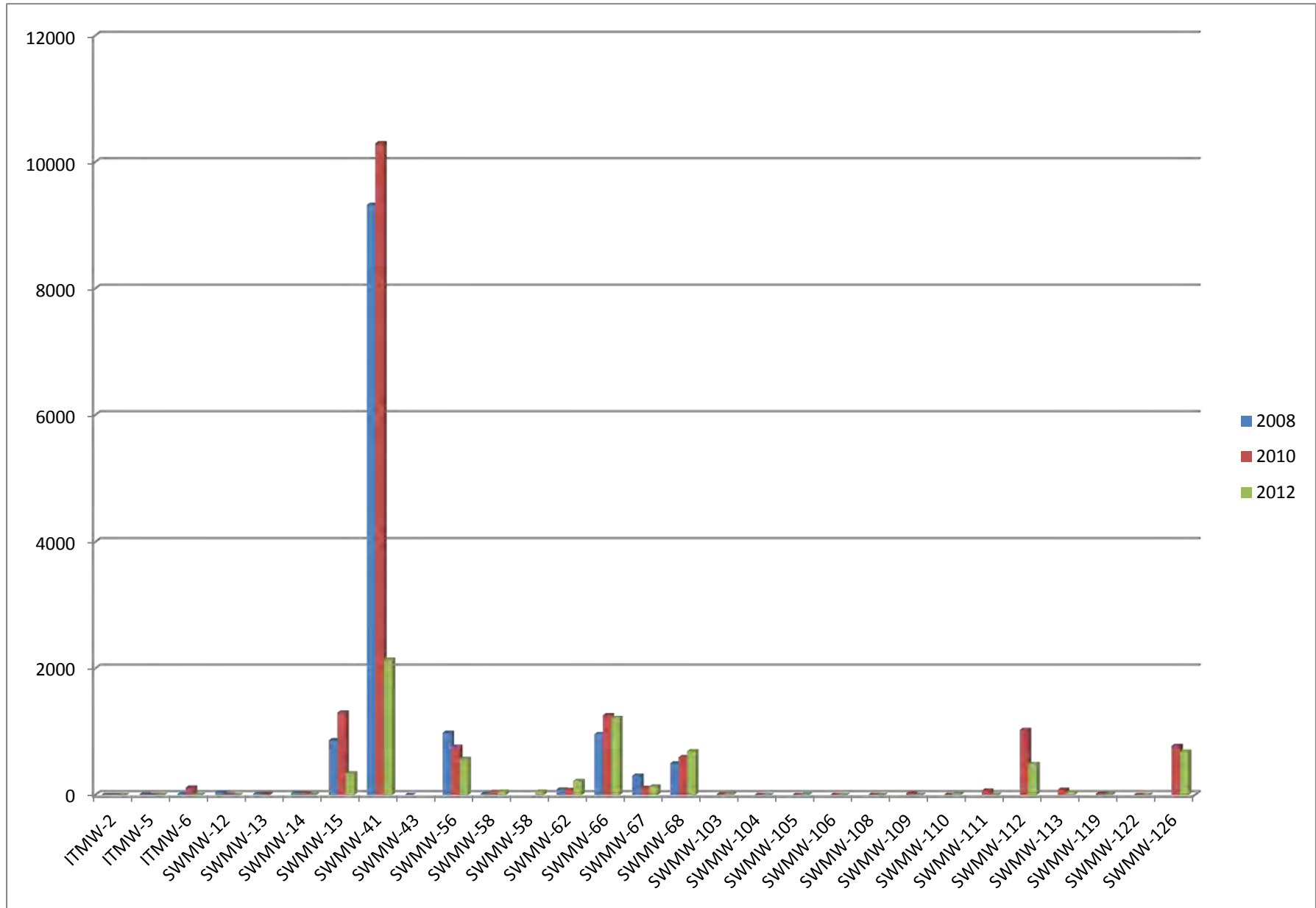
Building 51 Area TCE Trend Analysis



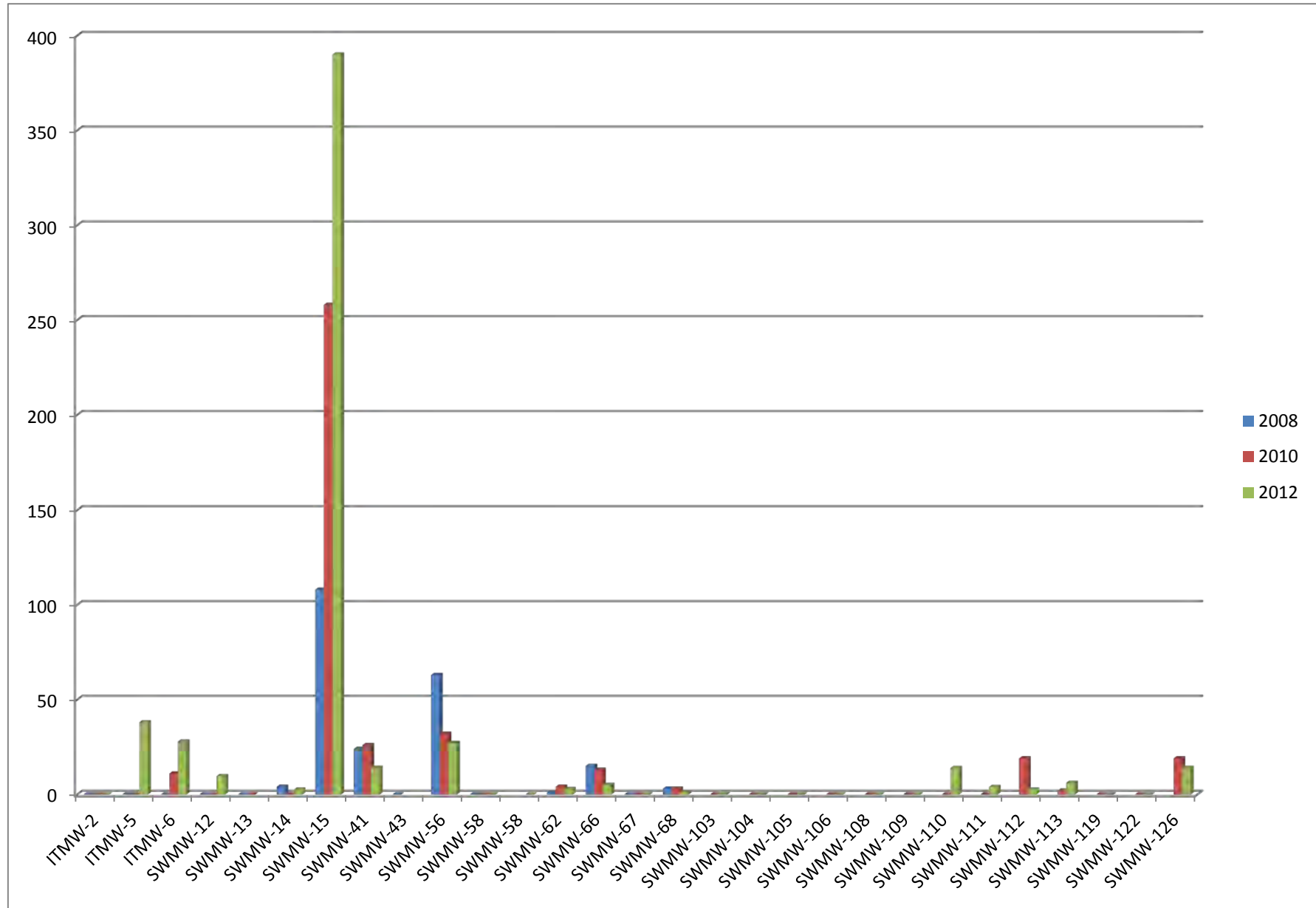
Building 51 Area Vinyl Chloride Trend Analysis



Building 51 Area Total VOCs Trend Analysis

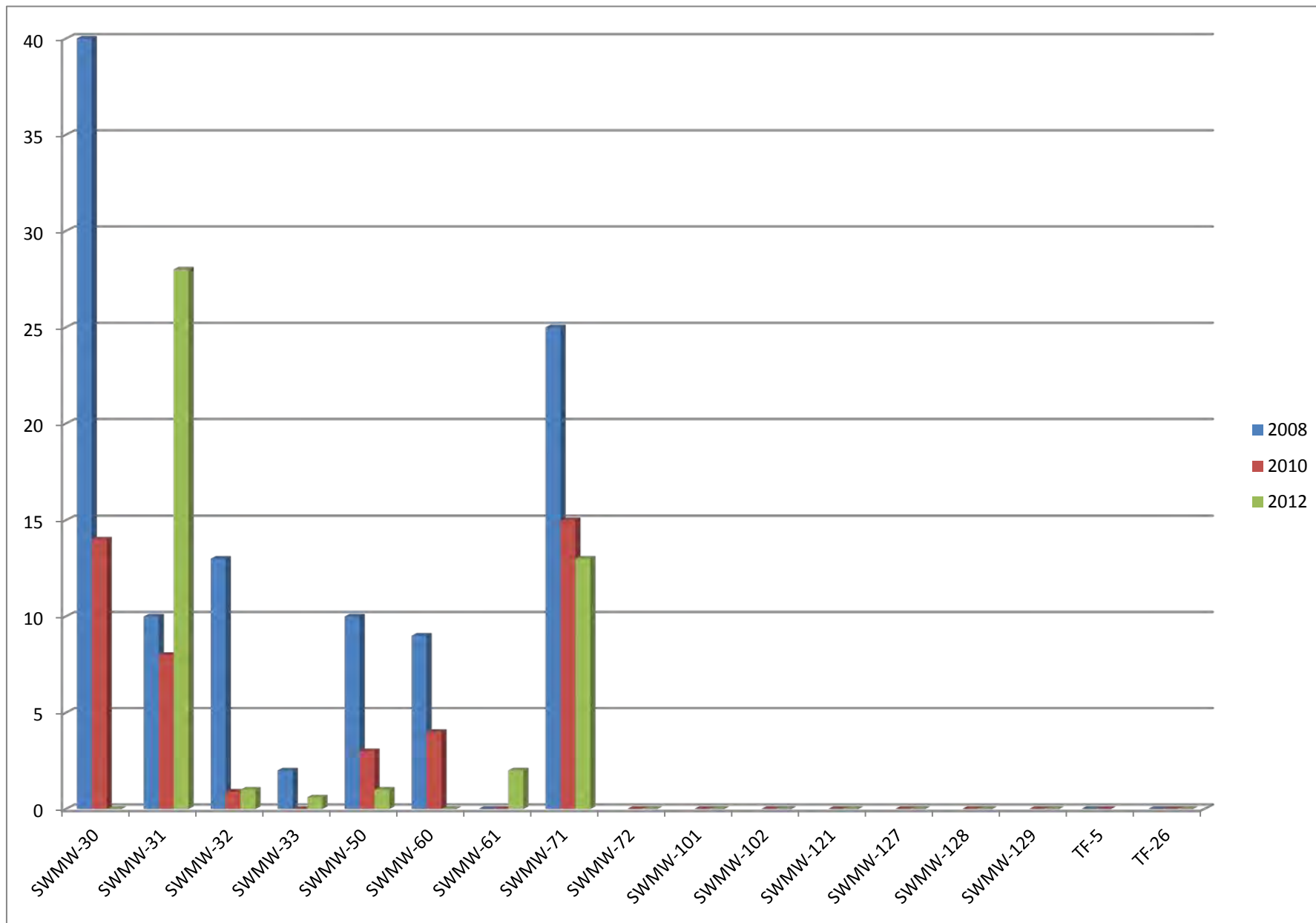


Building 51 Area SVOCs Trend Analysis

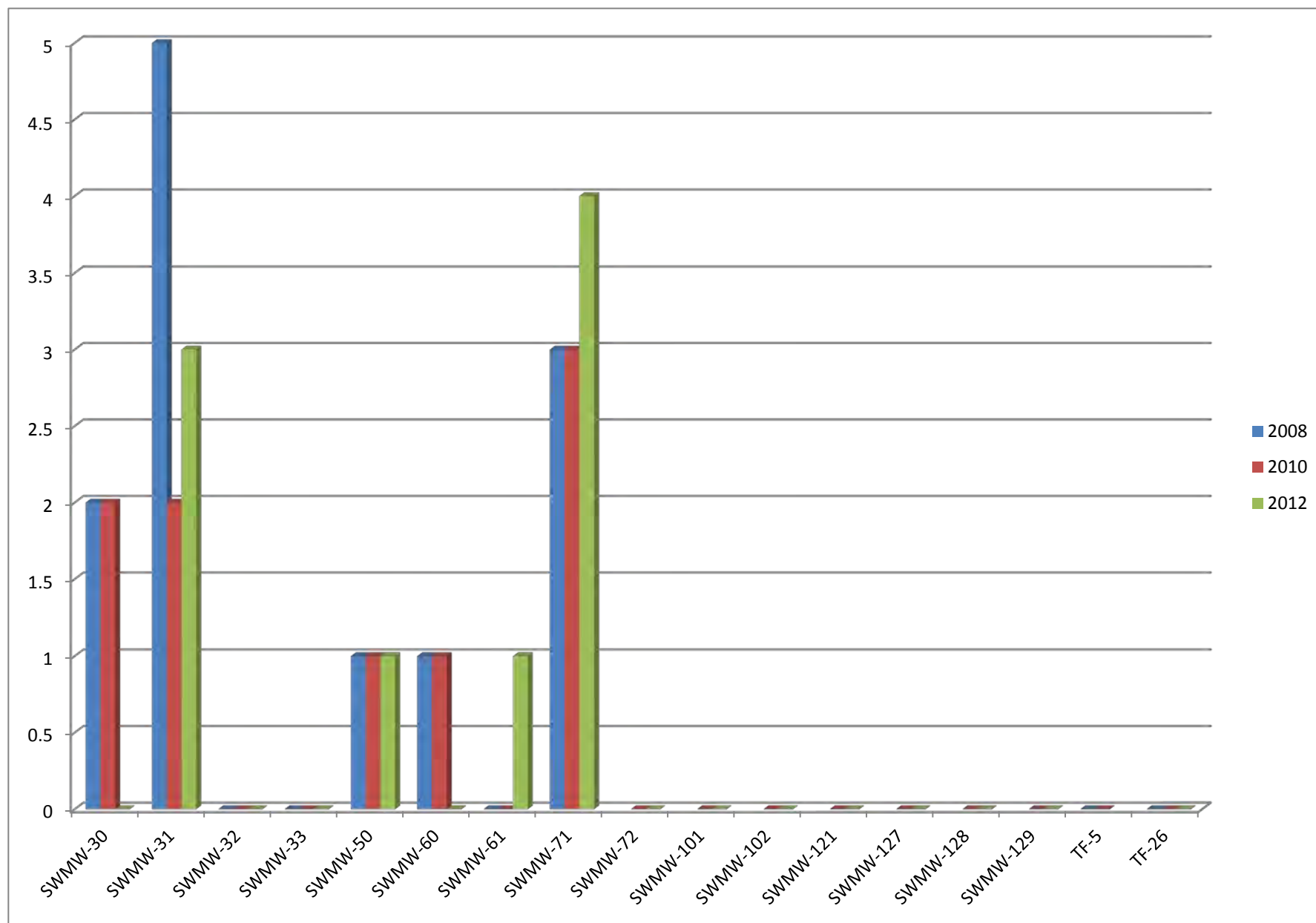


Washington Avenue Tank Farm Area

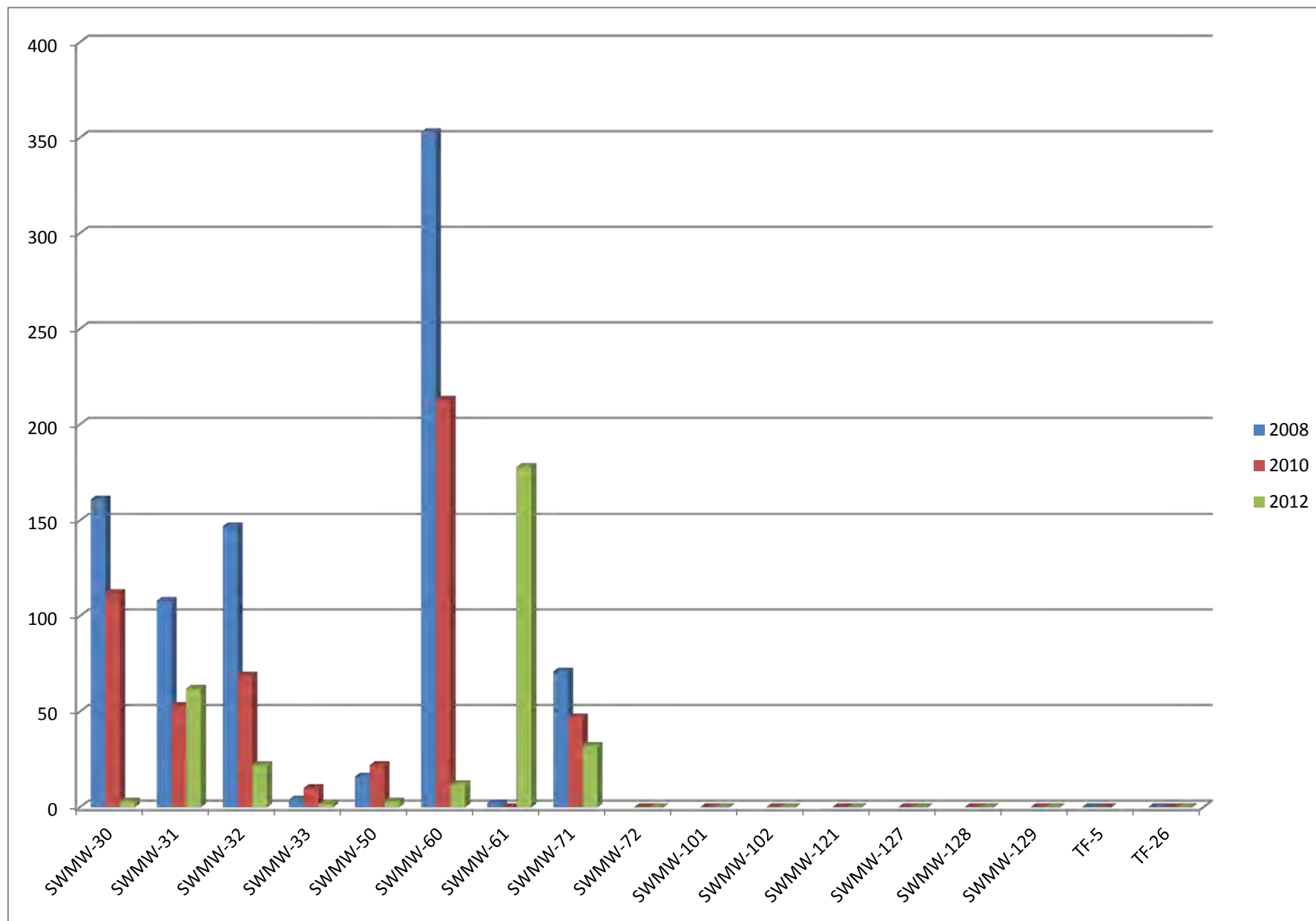
Benzene Trend Analysis



Washington Avenue Tank Farm Area Chlorobenzene Trend Analysis



Washington Avenue Tank Farm Area Total VOCs Trend Analysis



Washington Avenue Tank Farm Area Total SVOCs Trend Analysis

