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NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

S&ME, Inc.

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Edmund Henriques Phone: 336-288-7180

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Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
White Street Landfill - Phase II	North end of White Street, Greensboro, NC	41-03	.1600	October 5-8, 2015

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☒ Detection Monitoring ☒ Assessment Monitoring ☒ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☒ Corrective action data (specify) Sentinel Monitoring Wells
☐ Other(specify)

Notification attached?

☐ No. No groundwater or surface water standards were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Edmund Q.B. Henriques — Facility Representative Name (Print)

Senior Geologist — Title

336-288-7180 — (Area Code) Telephone Number

Edmund Q.B. Henriques — Signature

1/29/2016 — Date

Affix NC Licensed/ Professional Geologist Seal

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S&ME Engineering License # F-0176, S&ME Geology License# C-145

NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009

White Street Landfill – Phase II
Permit No. 41-03
Assessment Monitoring October 2015
Greensboro, North Carolina
S&ME Project No. 1584-98-081C

Prepared for:
The City of Greensboro

Prepared by:
S&ME, Inc.
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January 29, 2016

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1.0 Executive Summary

Between October 2 and October 7, 2015, twelve monitoring wells and five stream locations which monitor the Phase II portion of the White Street Landfill were sampled as part of the routine semi-annual monitoring program. Monitoring wells II-1, II-2, II-3, II-4A, II-5, II-6, II-7, II-7B, II-8, II-12, MW-13 and MW-14 comprise the groundwater monitoring system for the Phase II solid waste disposal area of the landfill. Monitoring well MW-13 serves as a background well for both the Phase I and the Phase II areas. Monitor well MW-14 serves as a background well for Phase II. All sampling was conducted according to North Carolina Solid Waste Management Guidelines. Samples were analyzed by a North Carolina certified laboratory. Samples collected from the Phase II area were submitted for analysis using the North Carolina Appendix II assessment monitoring list. Samples from surface water locations SW-1, SW-2, SW-3, SW-4, and SW-5 were analyzed for the federal Appendix I constituents.

GROUNDWATER QUALITY

During the October 2015 compliance monitoring event, the following NCAC 2L groundwater quality standards (2L Standards) were exceeded.

Volatile Organic Compounds:

- Benzene was detected at concentrations of 1.2 µg/L, 1.3 µg/L, and 1.4 µg/L in compliance wells II-1, II-3, and II-6 respectively. The 2L Standard is set at 1 µg/L.
- Carbon Tetrachloride was detected at an estimated concentration of 0.47 µg/L at compliance well II-1. The 2L Standard for is set at 0.3 µg/L.
- 1,4-Dichlorobenzene was detected at a reported concentration of 7.6 µg/L in compliance well II-1. The 2L Standard is set at 6 µg/L.
- 1,1-Dichloroethane was detected at an estimated concentrations of 14 µg/L at compliance well II-3, which exceed the 2L Standard set at 6 µg/L.
- 1,2-Dichloroethane was detected at an estimated concentrations of 0.46 µg/L at compliance well II-1 and 0.98 µg/L at compliance well II-2, which exceed the 2L Standard set at 0.4 µg/L.
- Vinyl chloride was detected at 2.2 µg/L at well II-9, which is greater than the 2L Standard set at 0.03 µg/L.

Inorganic Constituents (Metals):

Groundwater analytical results indicate inorganic constituent's antimony, cobalt, and vanadium were detected with concentrations greater than the Interim Maximum Allowable Concentration (IMAC), and cadmium was greater than the 2L Standard. S&ME previously prepared an Alternate Source Demonstration (ASD) for metals at the Facility. The ASD demonstrated that antimony, cadmium, cobalt, and vanadium were naturally occurring in the in-situ soil at the Facility and at sufficient concentrations within the soil to influence groundwater quality. Based on the results of the ASD, the detection of antimony, cadmium, cobalt and vanadium at concentrations above the IMAC values or 2L Standards was not likely due to a release by the Facility, but instead may be attributed to the natural occurrence of these metals in the native, residual soil. This finding is also supported by many of the time vs concentration plots for these groundwater constituents, which evidence relatively stable concentrations over time.

SURFACE WATER QUALITY

Two volatile organic compounds and several inorganic constituents were reported in one or more of the samples collected. Based on the sampled locations and the reported concentrations, the compounds detected in the surface water samples likely stem from up-stream, off-site sources.

ADDITIONAL ASSESSMENT ACTIVITIES

During 2010, monitoring well II-3B was installed down-gradient of well II-3, to assess groundwater quality conditions down-gradient of well II-3; however, at a point prior to reaching the compliance boundary. For the groundwater sample collected at well II-3B during October 2015, the analytical results report no volatile organic compounds were detected at concentrations that exceed the corresponding 2L Standards. This is the 9th monitoring event to indicate that the portion of the landfill monitored by well II-3B is currently in compliance with applicable groundwater quality standards. The detection of concentrations greater than the 2L Standards at well II-3 reflects the close proximity of this well to the limits of waste. It is our opinion that the analytical data for well II-3 is informative; however, the proximity of well II-3B to the compliance boundary makes it is a better indicator of groundwater compliance in accordance with the permit.

A Corrective Action Plan (CAP) was prepared by S&ME and approved by the North Carolina Department of Environment and Natural Resources (NCDENR) for Phase II of the White Street Landfill. The CAP specifies phytoremediation coupled with Monitored Natural Attenuation (MNA) to restore groundwater quality. CAP related groundwater monitoring activities completed contemporaneously with the October 2015 water quality monitoring event included:

- Collection and analysis of groundwater samples from each of the three CAP specified sentinel monitoring wells, SMW-1, SMW-3, and SMW-4. The October 2015 analytical results for volatile organic compounds indicated that groundwater quality at sentinel wells SMW-1 and SMW-4 met the CAP specified cleanup goals, the 2L Standards. At sentinel well SMW-3 the estimated concentration for vinyl chloride was greater than the CAP specified cleanup goal.
- Monitoring wells II-7, II-7B, and II-1 function as both routine compliance monitoring wells and CAP sentinel monitoring wells. The October 2015, groundwater analytical results for monitoring wells II-7 and II-7B indicated that volatile organic compound concentrations at these points met the CAP specified cleanup goals, the 2L Standards. Only monitoring well II-1 exhibited groundwater quality which does not meet the CAP specified cleanup goals, the 2L Standards.
- Groundwater samples were obtained from a select group of monitoring wells utilized to evaluate the MNA component of the CAP. The collected samples were analyzed in the field and/or in the laboratory for MNA indicator parameters.

These CAP related items are briefly discussed in this report; however, these CAP monitoring activities and associated findings will be discussed in greater detail in a separate report.

2.0 Introduction

White Street Landfill is a Solid Waste Management Facility (SWMF) located at the north end of White Street in northeastern Greensboro. S&ME, Inc. (S&ME) was contracted by the City of Greensboro to complete this Phase II Appendix II assessment/detection monitoring event. Phase II of the landfill is a closed Municipal Solid Waste (MSW) landfill with an active Construction & Demolition (C&D) landfill piggy backed on top, covered by Solid Waste Permit #41-03. Nine (9) down-gradient monitoring wells located along the perimeter of the Phase II disposal area, one bedrock monitor well (II-7B), and one background monitoring well (MW-13) located approximately 4,300 feet southwest of the Phase II area were sampled. Up-gradient monitor well (MW-14) was not sampled since it was found to be dry. Five surface water samples were collected from North Buffalo Creek and one of its tributaries in the vicinity of the Facility.

In addition to the routine semi-annual assessment monitoring program activities, groundwater samples were collected and analyzed from the Corrective Action Plan sentinel monitoring wells SMW-1, SMW-3, and SMW-4, and Nature and Extent Study (NES) monitoring well II-3B and II-9.

This report discusses the field procedures, field measurements, analytical results, and presents the statistical evaluation results for the October 2015 water quality monitoring event.

3.0 Scope Of Work

To complete the scope of work, S&ME completed the following tasks:

- Sampled 11 compliance monitoring wells and five surface water locations.
- Sampled sentinel monitoring wells SMW-1, SMW-3, and SMW-4 and NES wells II-3B and II-9.
- Obtained field values for pH, temperature, dissolved oxygen (DO), turbidity, oxidation-reduction potential (ORP), and conductivity at each sample location.
- Collected depth to water measurements during well purging to monitor drawdown.
- Had the samples analyzed for the North Carolina Solid Waste Appendix II constituents by a North Carolina certified laboratory, using State approved methods.
- Had the surface water samples analyzed for the North Carolina Solid Waste Appendix I constituents by a North Carolina certified laboratory, using State approved methods.
- Had the sentinel monitoring wells and NES well samples analyzed for Appendix II constituents by a North Carolina certified laboratory using State approved methods.
- Prepare a groundwater contour map and calculated groundwater flow rates.
- Prepared and submitted reports to the City of Greensboro and the NCDEQ.

4.0 Methods Employed

4.1 Monitoring Well Sampling

The groundwater monitoring well sampling took place between October 5 and October 8, 2015. The monitoring well locations are shown on **Figure 1**. A representative from S&ME opened each well and measured the static water level from the top edge of the PVC casing in wells. An electronic water level indicator was used to obtain depth to water measurements. These data are summarized in **Table 1**. With

dedicated MicroPurge™ pumps previously installed in each well, the total well depth sounding data reported for the sampling events completed during September 1997 and May 1998 were used to determine the volume of water in the monitoring wells.

In accordance with the facility's approved Water Quality Monitoring Plan, wells II-1, II-2, II-3, II-4A, II-5, II-6, II-7, II-8, II-12, and MW-13 were purged using the dedicated Micro Purge™ pumps. Up-gradient well MW-14 was not sampled as it was found to be dry. Sentinel monitoring wells SMW-1, SMW-3, and SMW-4 and NES wells II-9 and II-3B were also sampled using dedicated Micro Purge™ pumps. At each well, the purge rate and the drawdown of the water table were monitored as an indicator of how much stress the purging placed on the aquifer. The purge rates were calculated by recording the time required to fill a graduated cylinder. The purging flow rate was approximately 100 milliliters/minute (ml/min.). During purging, the depth to water was periodically monitored and recorded on the groundwater sampling field data sheets. For this sampling event, the measured drawdown in the wells was generally less than 1 foot.

The purge water from the monitoring wells was monitored in the field for pH, temperature, DO, ORP, and conductivity using a flow-through cell and multi-meter. Typically, a sample was collected when three consecutive readings for each individual field parameter fluctuated by no more than 10 percent, between each equipment volume. The target stabilization goal of less than 10% change was generally reached prior to collection of the groundwater samples. Turbidity was measured separately, with field measurements less than or equal to 10 NTUs, as a target criteria. Even with the use of low flow sampling methods, turbidity values at some wells remained higher than the target criteria during purging. Accordingly, some samples were collected based upon professional judgment without meeting the turbidity goal. The field data collected during sampling was recorded on the groundwater sampling field data sheets, which are included in **Appendix I**.

Groundwater samples were collected from the dedicated Teflon tubing at each of the wells with dedicated well sampling pumps. Immediately upon collection, each sample was placed in laboratory supplied containers, placed in a cooler with ice, and placed under chain-of custody. The sampling technician wore nitrile gloves that were changed between wells to minimize the possibility of cross contamination.

During the October 2105 event Phase II groundwater samples (II-1, II-2, II-3, II-4A, II-5, II-6, II-7, II-7B, II-8, II-12, and MW-13) were analyzed for Appendix II constituents. Sentinel monitoring wells SMW-1, SMW-3, SMW-4 and NES wells II-3B and II-9 were also analyzed for the Appendix II constituents. Analyses were conducted by Environmental Conservation Laboratories, a North Carolina certified laboratory. Laboratory Analytical Reports are attached in **Appendix II.**

4.2 Statistical Analysis of Data

4.2.1 Software

All data were analyzed using *ChemStat 6.2* software package. An Excel file was used to input and create the Data files based on the recent and historic laboratory data. The Excel file was then converted to .txt tab delimited file for use by the *ChemStat* software. The following procedures were used to carry out the statistical analyses of the compliance data for each constituent.

4.2.2 Statistical Methods-Groundwater Analyses

In accordance with the NCDENR-Solid Waste Management Rules 15A NCAC 13B, Section 1632, historical up-gradient and cross-gradient groundwater monitoring data collected from the background groundwater monitoring wells that comprise the Subtitle D monitoring well system were pooled and the analytical results were used to create a statistical baseline for statistically significant increases in constituent concentrations.

In accordance with the DEHNR-Solid Waste Management Rules 15A NCAC 13B, Sections 1632 (dated 1/7/97), several rounds of samples were collected from groundwater monitoring wells that comprise the Subtitle D monitoring well system and the analytical results were used to create a statistical baseline for statistically significant increases in constituent concentrations. This sampling round (October 2015) will be incorporated into the baseline for the next round of sampling.

The following procedure is used to analyze each new data set:

- A descriptive statistics program is run to provide the following information:
- mean
- standard deviation
- variance
- percentage non-detects
- Time versus concentration graphs were prepared for each parameter detected at quantified values and used to evaluate data trends and to identify potential data outliers.
- Normality/Data Distribution Tests were run and used to determine the statistical distribution of the database for each quantified parameter. The data distribution test results were utilized to determine if a data set exhibits a normal, log-normal or non-normal distribution. Due to the large number of non-detects for many of the wells and the lack of normality in the data sets, non-parametric statistical methods were deemed appropriate for the evaluation of the current compliance data set.
- A statistical Upper limit was calculated for each of the detected parameter data sets utilizing Non-Parametric Prediction Limits. Then the compliance data were compared via Inter-Well and Intra-Well comparisons to the statistical Upper limit to determine if an SSI had occurred. For all statistical analyses, the non-detect values were converted to the respective Detection Limit for data analysis. The tests were run at a significance level of 95%.
- Data showing statistically significant increases across the site are examined to determine the validity of results.

For a number of years, groundwater obtained from compliance well II-4 exhibited relatively high turbidity, despite the use of low-flow sampling methods. In a letter dated August 1, 2013, the NCDENR-SWS approved City of Greensboro's request to replace well II-4 with well II-4A. Subsequently during 2013, replacement compliance well II-4A was installed. Given that the original and replacement wells are relatively close together and since they monitor essentially the same surficial aquifer, the historic analytical data sets for II-4 and II-4A were combined for the statistical tests discussed and presented herein.

4.3 Stream Sampling

Surface water sampling took place on October 7, 2015. Four stream samples (SW-1, SW-3, SW-4, and SW-5) were collected from North Buffalo Creek, which flows along the northwestern side of the White Street Landfill. One surface water sample (SW-2) was collected from a tributary of North Buffalo Creek. The locations of the stream samples are shown in **Figure 2**.

SW-1 was collected upstream from the landfill near the US Highway 29 Bridge. SW-2 was collected from a southern tributary of North Buffalo Creek just before it joins the main creek west of the landfill entrance. SW-3 was collected downstream of the North Buffalo Wastewater Treatment Plant outfall and upstream of the landfill. SW-4 was collected downstream of the landfill at a USGS gauging station located on North Buffalo Creek about three-quarters of a mile north of the landfill. SW-5 was collected from North Buffalo Creek immediately downstream of the Phase II landfill disposal area.

The surface water samples were collected by immersing laboratory supplied containers in the water to be sampled. After collection, the surface water samples were packed on ice and placed under chain-of-custody. Stream samples SW-1, SW-2, SW-3, SW-4 and SW-5 were analyzed for Appendix I constituents.

5.0 Results

5.1 Groundwater Analytical Results

5.1.1 Phase II Appendix II Assessment Monitoring

Wells II-1, II-2, II-3, II-4A, II-5, II-6, II-7, II-7B, II-8, MW-12, MW-13 and MW-14 comprise the monitoring system for the Phase II area. **Table 3** provides a summary of the Appendix II constituents detected in the Phase II area groundwater monitoring wells during this event. **Table 4** provides a summary of the constituents and concentrations that exceed corresponding NCAC 2L groundwater quality standards (2L Standards) or corresponding Interim Maximum Allowable Concentrations (IMAC). **Appendix II** contains the laboratory analytical reports of the October 2015 sampling event.

Volatile Organic Compounds:

As summarized in **Table 3**, analytical results from the 12 Phase II monitoring wells indicate twelve volatile organic compounds were detected during the October 2015 sampling event, at one or more monitoring well locations. Of the detected volatile organic compounds, the following 15A NCAC 2L groundwater quality standards (2L Standards) were exceeded (see **Table 4**).

- Benzene was detected at concentrations of 1.2 µg/L, 1.3 µg/L, and 1.4 µg/L in compliance wells II-1, II-3, and II-6 respectively. The 2L Standard is set at 1 µg/L.
- Carbon Tetrachloride was detected at an estimated concentration of 0.47 µg/L at compliance well II-1. The 2L Standard for is set at 0.3 µg/L.
- 1,4-Dichlorobenzene was detected at a reported concentration of 7.6 µg/L in compliance well II-1. The 2L Standard is set at 6 µg/L.
- 1,1-Dichloroethane was detected at an estimated concentrations of 14 µg/L at compliance well II-3, which exceed the 2L Standard set at 6 µg/L.

- 1,2-Dichloroethane was detected at an estimated concentrations of 0.46 µg/L at compliance well II-1 and 0.98 µg/L at compliance well II-2, which exceed the 2L Standard set at 0.4 µg/L.
- Vinyl chloride was detected at 2.2 µg/L at well II-9, which is greater than the 2L Standard set at 0.03 µg/L.

Semi-Volatile Organic Compounds:

As summarized in **Table 3**, analytical results from the 12 Phase II monitoring wells indicate two semi-volatile organic compound was detected during the October 2015 sampling event. The following semi-volatile compounds were detected.

- Phenol was detected at compliance monitoring wells II-2, II-5, II-6, and II-7B with estimated concentrations that are at least an order of magnitude less than the 2L Standard.
- Bis (2-ethylhexyl) phthalate was detected at compliance monitoring well II-2 and background monitoring well MW-13 with similar estimated concentrations.

Inorganic Constituents (Metals):

As summarized in **Table 3**, analytical results for samples collected from Phase II groundwater monitoring wells report detections of antimony, barium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, silver, vanadium, and zinc at one or more monitoring well locations during the October 2015 sampling event. Each of the reported concentrations of these inorganic constituents was below their corresponding NCAC 2L groundwater standard or Interim Maximum Concentrations (IMAC) value with the exception of antimony, cadmium, cobalt, and vanadium.

Antimony, cadmium, cobalt, and vanadium were detected in the groundwater samples collected from one or more wells during this monitoring event. Several of these detections were either "J" flag estimated concentrations or quantified concentrations exceed the corresponding IMACs, or with regards to cadmium the 2L Standard. S&ME previously prepared an Alternate Source Demonstration (ASD) for metals at the Facility. The ASD demonstrated that antimony, cadmium, cobalt, and vanadium are naturally occurring in the in-situ soil at the Facility and at sufficient concentrations within the soil to influence groundwater quality. The reported concentrations of antimony, cadmium, cobalt, and vanadium during the October 2015 sampling event are below the predicted groundwater concentrations calculated for antimony, cadmium, cobalt, and vanadium using a default dilution attenuation factor (DAF). Accordingly, the detection of antimony, cadmium, cobalt, and vanadium above their respective IMAC values or 2L Standard may be attributed to the natural occurrence of these metals in the native residual soil. This conclusion is in part supported by detection of vanadium in background well MW-13.

Pesticides/Herbicides:

As summarized in **Table 3**, no Appendix II organochlorine pesticides were detected above the method detection limits or the solid waste section limits during this monitoring event.

As summarized in **Table 3**, no Appendix II chlorinated herbicides were detected above the method detection limits or the solid waste section limits during this monitoring event.

Other Targeted Appendix II Parameters:

For the groundwater samples collected, no target polychlorinated biphenols (PCBs), or cyanide was detected above the method detection limits or the solid waste section limits during this monitoring event. As summarized in **Table 3**, sulfide was detected only at well II-12. There is no 2L Standard for sulfide.

5.2 Statistical Results

5.2.1 Historical

The monitoring well network for Phase II of the White Street Landfill was upgraded in the winter of 1995 with the addition of four new monitoring wells (II-6, II-7, II-8 and MW-14). Monitoring well II-7B was installed in December 2000, while monitoring wells II-9, II-10, II-11 and II-12 were added in March 2005, as part of a nature and extent study. Monitoring well II-12 replaced compliance well I-5. NES wells II-3B, II-9, II-10, and II-11 and Sentinel Wells SMW-1, SMW-3, and SMW-4 are not part of the compliance well network; therefore, they are not included in the compliance required statistical tests discussed herein.

5.2.1.1 Descriptive Statistics

The statistics program calculates the pooled mean, background mean, pooled standard deviation, background standard deviation, rank sum, rank mean and variance for each constituent detected. The descriptive statistics report is included in **Appendix III**.

5.2.1.2 Time vs. Concentration Graphs

This graph displays a plot of the concentration of one parameter for a single well over time. The concentration is plotted along the vertical axis and the sample dates are plotted along the horizontal axis. These graphs are used to visually examine changes in concentration over time for a parameter at a given well. Time series plots for all constituents detected during this monitoring event are contained in **Appendix IV**. An evaluation of the time vs. concentration plots suggests:

Appendix I-Volatile Organic Compounds

- The time series plots for the concentrations of benzene in monitoring wells II-1, II-3, II-4A, and II-6 show minor fluctuations in reported concentrations. With concentration changes of less than 1 µg/L considered insignificant, the reported concentrations were considered stable.
- The time series plot for the concentrations of carbon tetrachloride in monitoring well II-1 evidence the October 2015 detection as the first detection at this well.
- The time series plots for the concentrations of chlorobenzene in wells II-1, II-4A, II-6, II-8, and II-9 suggests that the detections of this constituent appear to coincide with the promulgation of the revised SWSL. Following the revised SWSL this compound has been periodically detected with no clear concentration trends over time.
- The time series plots for the concentrations of chloroethane in wells II-1, II-3, and II-4A no clear concentration trends over time.
- The time series plots for the concentrations of 1,4-dichlorobenzene in monitoring wells II-1, II-4A, and II-6 depict fluctuating concentrations with no discernible concentration trends recognized.

- The time series plots for concentrations of 1,1-dichloroethane in wells II-3 suggest an increasing concentration trend. The data for wells II-1 and II-9 suggest relatively stable concentrations over time. The data for wells II-4 and II-7B suggest trends of declining concentrations.
- The time series plots for concentrations of 1,2-dichloroethane in wells II-1 and II-2 evidence infrequent detections with no clear trends recognized.
- The time series plot of the concentrations of cis-1,2-dichloroethene in wells II-3, II-4A, and II-9 evidence periodic detections, with no clear concentration trends for the values reported following the promulgation of the revised SWSL.
- The time series plots of the concentrations of chloromethane in monitoring well II-2 indicate this parameter was detected once prior to the promulgation of the revised SWSL. Following the revised SWSL, chloromethane was only detected during this event.
- The time series plot for concentrations of vinyl chloride in well II-9 evidence only three historic detections, the recent concentrations are significantly lower than the first detected concentration.
- The time series plot for the concentrations of total xylenes in well II-6 suggests that the first detection of this constituent in well II-6 appears to coincide with the promulgation of the revised SWSL. Following the revised SWSL, there is a slight downward trend in the data set.

Appendix I-Metals

- The time series plots for concentrations of antimony in wells II-1, II-2, and II-3 depict the limited number of detections in the historic record. No obvious concentration tends were observed.
- The time series plots for concentrations of barium in the majority of the compliance wells show minor variations in detected concentrations with no obvious trends observed. A slight upward trend is suggested for well II-8 while a slight downward trend is indicated for well II-12. Background well MW-13 exhibits similar fluctuations in detected concentrations as those observed at many down-gradient compliance wells.
- The time series plots for chromium in wells II-1, II-5, II-6, II-8, and II-12 suggests fluctuating concentrations of over time with no discernible concentration trends apparent.
- Time series plots of the concentrations of cobalt in wells II-1, II-3B, II-5, II-6, II-7, II-8, and II-9 suggest fluctuating concentrations over time, with no obvious or consistent trends over time recognized. The plots for wells II-3 and II-12 suggests declining cobalt concentrations over time.
- The time series plots for concentrations of copper in wells II-1, II-5, and II-6 depict relatively stable concentrations following the promulgation of the revised SWSL.
- The time series plots for concentrations of lead in wells II-4A, II-6, and II-9 evidence periodic detections, with relatively stable concentrations.
- The time series plots for concentrations of mercury in wells II-3 and II-7 evidence periodic detections, with no clear trends recognized.
- The time series plots for concentrations of nickel in wells II-3, II-3B, II-4A, II-5, II-6, II-7, II-9, and II-12 exhibit relatively stable concentrations. The more recent data for monitoring wells II-1 and II-8 exhibit very slight upward trends.
- The time series plot for concentrations of silver in wells II-1 and II-8 exhibit relatively stable concentrations following the promulgation of the revised SWSL. Silver has been detected periodically in background well MW-13.
- The time series plots for concentrations of vanadium in compliance wells II-2, II-4A, II-5, II-6, II-8, II-12, and background well MW-13 exhibit no obvious trends of rising or falling concentrations. The plots for compliance well II-7B exhibits a trend of slight declining concentrations.

- The time series plots for concentrations of zinc in compliance wells II-5, II-6, II-9, II-12, and background well MW-13 generally exhibit periodic detections with the detected concentrations relatively stable.

Analytical data from future monitoring events will be used to re-evaluate the trends interpreted from the time series plots.

5.2.1.3 Non-Parametric Prediction Interval Tests

In order to analyze the laboratory analytical results for evidence of statistically significant increases (SSIs) over background values, the data distribution of all of the quantified monitored constituents was first analyzed. Due to the large size of the pooled historical results database, the Shapiro-Francia Test of Normality was utilized. This statistical test of data distribution can effectively determine if large data sets are parametrically or non-parametrically distributed.

For all of the analyzed data sets, the data distribution tests indicated a non-parametric distribution likely due to a relatively high percentage of non-detects in the analyzed database even at the 95% Confidence Level. As a result, Non-Parametric Prediction Interval computations were employed in order to calculate the appropriate statistical upper limit for each of the quantified monitored parameters. In order to determine if any individual parameter concentration detected during this monitoring event represents a statistically significant increase over the historic background concentrations, once the respective upper limit was obtained, the compliance data were compared via an Inter-Well Comparison to the statistical upper limit to determine if a statistically significant increase (SSI) may have occurred. For parameters suggested to exhibit an SSI by Inter-Well comparisons, the corresponding time vs concentration plot was review and an Intra-Well comparison was preformed to assess spatial variability and the potential relevance of the Inter-Well comparison suggested SSI. **Appendix V** contains the non-parametric Prediction Interval tests.

The statistical tests applied suggest that no inorganic parameters were detected during this monitoring event at concentrations that exceed the corresponding statistical upper limit. The statistical tests applied suggest that cobalt, 1,1-dichloroethane, and phenol were detected during the October 2015 monitoring event with concentrations that exceed their corresponding statistically computed upper limit. The Inter-Well comparison tests of the compliance results to the statistical upper limits suggest the following represent a SSI over the historic background concentrations:

- current cobalt concentration at compliance well II-6,
- current 1,1-dichloroethane concentrations at compliance well II-3,
- current phenol concentrations at compliance wells II-2, II-5, II-6, and II-7B.

A review of the time vs concentration plots indicate no consistent trends for rising concentrations for these constituents, with the following exceptions:

- 1,1-dichloroethane at wells and II-3,

Monitoring well II-3 is positioned up-gradient of NES monitoring well II-3B for which groundwater quality currently meets the 2L Standards. Well II-3 is located in close proximity of the limits of waste and substantially behind the Facility's compliance boundary.

Several years ago, the NCDENR-SWS added tetrahydrofurans to the assessment monitoring constituents list for C&D landfills. Consequently, the historic data set for this compound is limited to 8 data points for each well. Therefore, the statistical power of the intra-well and inter-well non-parametric tolerance limits tests is reduced. Additional time series data is needed to understand the significance of the data trends.

Prior SSIs triggered the Assessment Monitoring across Phase II. Certain constituent concentrations required Corrective Measures that are currently conducted for portions of Phase II.

5.3 Hydraulic Conductivity

In-situ hydraulic conductivity tests were performed by BPA Environmental and Associates Inc. (BPA) on wells I-5, II-1, II-2, II-3, II-4, II-5 and MW-13 on February 2-5, 1996. The data from these tests yielded hydraulic conductivity values ranging from 0.042 feet/day in II-5 to 0.380 feet/day in II-3. A complete discussion of the test methods and calculations was presented in BPA's February 1996 report "In-Situ Hydraulic Conductivity Testing, White Street Landfill, Greensboro, North Carolina". In situ hydraulic conductivity tests were performed by HDR Engineering, Inc. on monitoring wells II-6, II-7, II-8 and MW-14 in the fall of 1995. In-situ hydraulic conductivity tests were performed by S&ME on monitoring well II-4A in the fall of 2013. The hydraulic conductivity's determined ranged from 0.221 feet/day at well II-6 to 2.353 feet/day in well II-8. These data were used to calculate groundwater flow velocities across the site.

5.4 Groundwater Flow Direction and Rate

The static water levels in the Phase II monitoring wells were measured during October 2015. The depth to the water table ranged from 6.00 to 19.79 feet below the top of well casing on these dates. Groundwater and well casing elevation data are presented in **Table 1**. A groundwater contour map was constructed using the data collected during October 2015 and is presented as **Figure 3**. The groundwater gradient at each well was calculated assuming a constant groundwater gradient along the flow line between adjacent groundwater elevation contours or between the well and the nearest contour. Groundwater flow lines were drawn through each well based upon the groundwater elevation data collected during this monitoring event. The groundwater elevation data collected during this monitoring event indicates that the groundwater beneath Phase II generally flows toward the northwest, toward Buffalo Creek. This is, in general, consistent with the results from previous monitoring events.

Based on a variation of Darcy's Law, the rate of groundwater movement within the regolith aquifer was calculated at each monitoring well using the following equation:

$V = Ki \div N$ Where **V** = velocity (ft/day)
K = hydraulic conductivity (ft/ft)
i = groundwater gradient (ft/ft)
n =effective porosity (dimensionless)

Calculated hydraulic conductivity and gradient values and estimated effective porosity values for each well were used in the velocity calculations. The 20 percent effective porosity value is based on porosity and specific yield versus grain size distribution relationships presented in Fetter (1988), and is typical of the types of soils (predominantly silts and sandy silts with some clays) comprising the regolith at the landfill. The calculated groundwater velocities ranged from 0.008 feet/day to 0.235 feet/day and are summarized in **Table 5**.

5.5 Surface Water

Five surface water samples were collected on October 7, 2015. The results of the laboratory analyses for Appendix I constituents in the surface water samples are summarized in **Tables 8 and 9**. **Appendix II** contains the complete laboratory reports. The following summarizes the exceedances of the 2B Standards.

The following summarizes the exceedances of the 2B Standards. The complete laboratory analytical report is included in **Appendix II**.

- Cobalt, copper, and zinc were detected at concentrations greater than the corresponding 2B Standard in sample SW-1.
- Silver was detected at a concentration greater than the 2B Standard Action Level in sample SW-3.
- Chromium, cobalt, copper, lead, silver, and zinc were detected at concentrations greater than the corresponding 2B Standard or Action Levels in sample SW-4.

Surface water sample location SW-1 is up-stream of the facility. Sample location SW-5 is down-stream of Phase I with analytical results reporting no 2B Standard exceedance. In contrast, sample location SW-4 is even further down-stream of the facility, and along a stream segment potentially influenced by other sources. Silver was detected solely at sample location SW-3, with an estimated concentration. With the very low 2B Standard Action Level for silver, any detection could represent an exceedance of the Fresh Water Action Level. In view of these findings, the landfill including Phase I are not believed to be the source of these constituents, or the cause for these exceedances of the 2B Standards.

5.6 Quality Assurance

A qualitative review of the data was performed to verify that the detected concentrations in the laboratory report were of known quality. A formal, quantitative data validation was not performed. Laboratory-assigned data qualifiers were evaluated to verify that rejected or unsupportable data were not included in the dataset. Quality control data provided in the laboratory reports were also reviewed. No rejected or otherwise unacceptable quality data were reported from the laboratory.

A duplicate sample was collected from monitoring well II-8, as "Duplicate II," and analyzed for the Appendix II constituents. No target semi-volatile organic compounds, organochlorine pesticides, chlorinated herbicides, or poly biphenyl compounds were detected in either sample suggesting good method precision. A comparison of the two datasets reveals that the detected compounds and the concentrations reported for sample II-2 show good correlation with the duplicate sample results. This finding suggests good method precision.

Each of the monitoring wells in Phase II were sampled using dedicated micro-purge pumps. Therefore, no equipment rinse samples were collected for analyses. Trip blank samples accompanied the sample bottles from the time they left the laboratory until they returned to the laboratory. The trip blank sample for the October 2015 monitoring event was analyzed for Appendix II volatile organic constituents. Laboratory QC samples were analyzed for all constituents included in this sampling event. The results of the duplicate, trip blank, and laboratory QC sample analyses are included in Appendix II.

6.0 CAP Monitoring Activities

Additional Groundwater Quality Monitoring

The following additional investigations were conducted contemporaneously with the October 2015, semi-annual compliance monitoring event.

1. In support of the Corrective Action Plan (CAP) developed and implemented for Phase II, groundwater samples were collected at Sentinel monitoring wells SMW-1, SWM-3, SMW-4, and NES monitoring well II-9 and submitted for laboratory analysis for Appendix II constituents.
2. In support of the CAP developed and implemented for Phase II, groundwater samples were collected at monitoring wells II-1, II-9, and SMW-3 and submitted for laboratory analysis using various analytical methods, to measure certain monitored natural attenuation (MNA) indicator parameters. Monitoring well MW-14 ordinarily sampled with the suite of wells was not sampled during this event since it was found to be dry.
3. To further evaluate and validate groundwater quality in the region down-gradient of compliance well II-3, a groundwater sample was collected at monitoring well II-3B and submitted for analysis for Appendix II constituents.

The monitoring well locations are depicted on **Figure 4**. Complete laboratory reports are included in **Appendix VI**.

The following provides a brief summary of the analytical results.

Sentinel Monitoring Wells and NES Well II-9

No Appendix I volatile organic constituents were detected at Sentinel monitoring wells SMW-1 and SMW-4. This finding suggests that the areas of concern represented by these well are compliant with the CAP specified groundwater clean-up goals.

During this event vinyl chloride detected in NES well II-9 at a concentration greater than the corresponding 2L Standard. No other volatile organic compounds detected at well II-9 with concentrations greater than the corresponding 2L Standards. Sentinel well SMW-3 is located along the estimated flow path for shallow groundwater migrating from NES well II-9 toward the Compliance Boundary. Although the vinyl chloride concentrations detected at well SMW-3 was approximately 67% lower than the concentration detected up-gradient at well II-9, it was greater than the 2L Standard. Therefore, the analytical results for sentinel well SMW-3 suggest that the areas of concern represented by this well has not achieved the CAP specified groundwater clean-up goals.

Tables VI-1A, VI-1B, VI-1C, VI-1D, VI-1E contained in **Appendix VI**, provides a summary of recent Appendix I volatile organic constituent analytical results for wells SME-1, SMW-3, SMW-4 and II-9, as well as II-7 and II-7B. The tables also summarize the data for the companion wells, located along the individual groundwater flow path, between a sentinel well and limits of waste.

MNA Monitoring

MNA parameters were collected and measured in groundwater samples collected at wells II-1, II-9, and SMW-3. The data collected is being complied and examined as indicator that MNA processes are occurring in portions of the shallow aquifer monitored by these wells. **Tables VI-2A, VI-2B, VI-2C, and VI-2D** contained in **Appendix VI**, provides a summary of the October 2015 MNA parameters; however, the MNA assessment will be presented and discussed in detail in a future Corrective Action Evaluation Report.

Assessment Well II-3B

No Appendix I volatile organic constituents were detected above the corresponding 2L Standards at assessment well II-3B. Well II-3B is located along the estimated flow path for shallow groundwater migrating from the landfill toward monitoring well II-3, and further down-gradient toward Buffalo Creek and the compliance boundary. The analytical results for well II-3B confirm the prior groundwater quality assessment findings. The data suggests that shallow groundwater migrating from well II-3, achieves compliance with the 2L Standards prior to reaching the point of compliance. Assessment well II-3B is located in a position that is a better measure of groundwater compliance for this portion of the monitored unit, rather than the location of well II-3. **Tables VI-3A and VI-3B**, contained in **Appendix VI,** provides a summary of recent Appendix I constituent analytical results for wells II-3 and II-3B.

7.0 References

Fetter, C. W., 1988, Applied Hydrogeology, New York; Macmillian Publishing Company, 1988, 592 pp.

North Carolina Administrative Code, Title 15A, Department of Environment, Health and Natural Resources, Division of Environmental Management, Subchapter 2L, Classifications and Water Quality Standards Applicable to the Groundwaters of North Carolina, Sections .0100, .0200, and .0300; from the Environmental Management Commission Raleigh, North Carolina.

North Carolina Administrative Code, Title 15A, Department of Environment, Health and Natural Resources, Division of Environmental Management, Subchapter 2B, Classifications and Water Quality Standards Applicable to the Surface Waters of North Carolina, Section .0200; from the Environmental Management Commission, Raleigh, North Carolina.

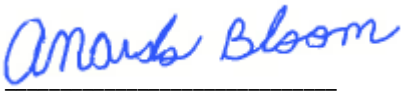
North Carolina Administrative Code, Title 15A, Department of Environment, Health and Natural Resources, Division of Solid Waste Management, subchapter 13B, Solid Waste Management, Section .1600.

8.0 Certification

I hereby certify this 29th day of January 2016 that this report was prepared by me or under my direct supervision.

Edmund Q.B. Henriques, L.G.
Senior Geologist / Project Manager

Technical support provided by:



Amanda Bloom
Staff Professional

Appendices

Tables

TABLE 1
WELL CONSTRUCTION AND GROUNDWATER ELEVATION DATA
PHASE 2 - PERMIT # 41-03
WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081C

Well ID	Date Installed	Type	Total Depth (feet)	Well Diameter (inches)	Depth to Top of Screen (feet)	Well Screen Interval (feet)	Geology of Screened Interval	Northing NAD 83	Easting NAD 83	Ground Elevation NAVD 88 (feet msl.)	Top of Casing Elevation NAVD 88 (feet msl.)	Depth to Groundwater[1] October 2015 (feet)	Groundwater Elevation October 2015 (feet msl.)
II-1	7/14/1989	Compliance	25	2	15	15-25	water table aquifer	863027.3314	1787495.6766	not measured	702.78	15.64	687.14
II-2	7/14/1989	Compliance	34	2	24	24-34	water table aquifer	864184.3539	1788403.6364	not measured	704.59	19.79	684.80
II-2B	7/10/2007	NES	29	2	14	14-29	water table aquifer	864268.6031	1788403.4707	not measured	698.84	not sampled	not sampled
II-3	7/14/1989	Compliance	33	2	23	23-33	water table aquifer	864245.1544	1789031.9589	not measured	699.37	16.76	682.61
II-3B	6/3/2011	NES	28	2	13	13-28	water table aquifer	864365.2295	1789116.1385	not measured	694.49	13.38	681.11
II-4A	8/13/2013	Compliance	28	2	13	13-28	water table aquifer	863581.7689	1789359.9497	not measured	707.25	16.31	690.94
II-5	7/14/1989	Compliance	29	2	19	19-29	water table aquifer	863032.9389	1789345.4003	not measured	722.01	6.0	716.01
II-6	7/14/1989	Compliance	20	2	7.5	7.5-20	water table aquifer	862513.6388	1787002.3258	not measured	704.39	12.48	691.91
II-7	7/14/1989	Compliance	28	2	12.5	12.5-27.5	water table aquifer	863701.8380	1787823.6893	not measured	697.75	13.95	683.80
II-7B	12/11/2000	NES	104	2	90.7	90.7-103.5	bedrock aquifer	863703.7309	1787839.3286	not measured	700.86	17.51	683.35
II-8	7/14/1989	Compliance	35	2	20	20-35	water table aquifer	861207.1750	1786938.1186	not measured	717.76	9.52	708.24
II-9	3/21/2005	NES	25	2	10	10-25	water table aquifer	863924.1830	1787952.6658	not measured	696.78	11.16	685.62
II-10	3/21/2005	NES	23	2	9	9-24	water table aquifer	863511.6877	1787802.3724	not measured	703.78	not sampled	not sampled
II-11	3/22/2005	NES	27	2	12	12-27	water table aquifer	864183.7253	1788058.432	not measured	701.63	not sampled	not sampled
II-12	3/22/2005	NES	20	2	5	5-20	water table aquifer	862084.6402	1786802.0936	not measured	699.80	10.82	688.98
SMW-1	7/8/2010	CAP	18	2	8	8-18	water table aquifer	864374.8279	1788376.0728	not measured	692.87	6.89	685.98
SMW-3	7/8/2010	CAP	25	2	10	10-25	water table aquifer	863983.9035	1787857.4169	not measured	694.16	9.97	684.19
SMW-4	7/8/2010	CAP	24	2	9	9-24	water table aquifer	862512.4617	1786835.2747	not measured	697.43	8.00	689.43
MW-13	7/14/1989	Background	34	2	19	19-34	water table aquifer	858763.9106	1783188.5206	not measured	741.24	18.01	723.23
MW-14	7/14/1989	Background	35	2	20	20-35	water table aquifer	859453.8757	1788632.2264	not measured	786.65	Not Sampled-DRY	Not Sampled-DRY

City of Greensboro provided the top of casing elevations and ground surface elevations
Well Construction details obtained from Well Construction Records reported by BPA Environmental & Engineering, Inc.
feet bgs. = feet below ground surface
feet msl. = feet mean sea level
Depth to Groundwater[1] = below top of casing
Groundwater Elevation = calculated groundwater elevation

TABLE 2
SUMMARY OF GROUNDWATER SAMPLING FIELD PARAMETERS
PHASE 2 - PERMIT # 41-03
WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081C

DATE	WELL ID	WELL DEPTH (feet)	TOC ELEV. (feet msl.)	DEPTH TO WATER (feet)	WATER ELEVATION (feet msl.)	ODOR	PURGE METHOD	PUMP RATE (mL/min)	WELL VOLUME (gallons)	EVAC VOLUME (gallons)	PURGED DRY? (yes/no)	TEMP (deg C)	pH (SU)	SPEC COND (µs/cm)	ORP (mV-NHE)	DO (mg/L)	Ferrous Iron (mg/L)	TURBIDITY (NTU)
10/7/2015	II-1	25	702.78	15.64	687.14	None	low flow	110	1.53	1.1	No	19.91	6.02	2.617	-38	0.44	3.30	0.00
10/5/2015	II-2	34	704.59	19.79	684.80	None	low flow	104	1.50	1.8	No	15.46	6.56	0.757	-14	1.77	--	0.35
10/6/2015	II-3	33	699.37	16.76	682.61	None	low flow	92	2.16	1.1	No	16.27	5.80	0.375	-40	0.29	--	5.20
10/5/2015	II-3B	28	694.49	13.38	681.11	None	low flow	100	1.89	1.5	No	17.50	6.09	0.442	-42	0.19	--	0.00
10/5/2015	II-4A	28	707.25	16.31	690.94	None	low flow	110	2.23	1.5	No	16.12	5.82	1.369	-46	0.37	--	0.00
10/5/2015	II-5	29	722.01	6.00	716.01	None	low flow	104	1.63	1.8	No	18.61	6.34	0.241	6	2.91	--	80.00
10/6/2015	II-6	20	704.39	12.48	691.91	None	low flow	96	0.74	1.0*	No	16.17	6.66	1.245	-31	5.04	--	9.00
10/6/2015	II-7	28	697.75	13.95	683.80	None	low flow	110	2.13	0.9	No	17.48	5.73	0.328	-29	1.79	--	0.35
10/6/2015	II-7B	104	700.86	17.51	683.35	None	low flow	40	13.61	1.1	No	18.75	8.83	0.395	-56.6	0.50	--	0.00
10/6/2015	II-8	35	717.76	9.52	708.24	None	low flow	100	3.75	1.2	No	18.65	6.00	2.922	-39	0.26	--	0.00
10/7/2015	II-9	25	696.78	11.16	685.62	None	low flow	104	3.75	1.1	No	14.78	6.09	0.625	-59	0.20	--	12.10
10/8/2015	II-12	25	699.80	10.82	688.98	None	low flow	100	1.95	0.9	No	16.96	6.39	0.387	-90	0.13	--	32.90
10/7/2015	SMW-1	18	692.87	6.89	685.98	None	low flow	100	1.32	1.6	No	19.57	5.27	0.150	-66	0.12	--	19.20
10/7/2005	SMW-3	25	694.16	9.97	684.19	None	low flow	100	3.67	1.6	No	17.46	6.21	0.298	-37	2.07	--	9.30
10/7/2015	SMW-4	24	697.43	8.00	689.43	None	low flow	110	2.04	0.9	No	17.73	5.51	0.270	-37	4.00	--	11.10
10/8/2015	MW-13	34	741.24	18.01	723.23	None	low flow	100	2.44	0.8	No	15.81	6.47	0.304	-38.4	3.80	--	1.62
10/8/2015	MW-14	35	786.65	DRY	DRY	None	low flow	--	--	--	--	--	--	--	--	--	--	--

Notes:
1. TEMP = groundwater temperature, measured in degrees Celsius
2. Pump Rate, measured in milliliters/minute
3. SPEC COND = Specific Conductance, measured in µs/cm indicates micro Siemens per centimeter.
4. SU indicates Standard Units.
5. NTU indicates Nephelometric Turbidity Units.
6. ORP = Oxidation Reduction Potential, mV-NHE indicates millivolts-Normal Hydrogen Electrode.
7. EVAC = evacuated volume of groundwater
8. DO = dissolved oxygen, measured in milligrams per liter

TABLE 3
SUMMARY OF GROUNDWATER ANALYSES RESULTS - DETECTIONS
PHASE 2 - PERMIT # 41-03
WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081C

Solid Waste Section ID #	Detected Analytes	Sample Locations																		NC SWSL	NCAC 2L Standards	NCDENR IMAC	Federal MCLs
	Well ID	II-1	II-2	II-3	II-3B	II-4A	II-5	II-6	II-7	II-7B	II-8	II-9	II-12	MW-13	MW-14	SMW-1	SMW-3	SMW-4	Duplicate II				
	Sample ID	4301-II1	4301-II2	4301-II3	4301-II3B	4301-II4A	4301-II5	4301-II-6	4301-II7	4301-II-7B	4103-II8	4103-II9	4103-II12	4103-MW13	4103-MW14	4103-SMW1	4103-SMW3	4103-SMW4	4103-DuplicateII				
	Date Collected	10/7/2015	10/5/2015	10/6/2015	10/5/2015	10/5/2015	10/5/2015	10/6/2015	10/6/2015	10/6/2015	10/6/2015	10/7/2015	10/8/2015	10/8/2015	---	10/7/2015	10/8/2015	10/7/2015	10/6/2015				
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Appendix I Volatile Organic Compounds																							
16	**Benzene**	**1.2**	<0.15	**1.3**	<0.15	0.73 J	<0.15	**1.4**	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	Well Dry	<0.15	<0.15	<0.15	<0.15	1	1	--	5
36	**Carbon tetrachloride**	**0.47 J**	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	Well Dry	<0.17	<0.17	<0.17	<0.17	1	0.3	--	NS
39	**Chlorobenzene**	3.4	<0.17	<0.17	<0.17	2.8 J	<0.17	3.6	<0.17	<0.17	1.9 J	0.60 J	<0.17	<0.17	Well Dry	<0.17	<0.17	<0.17	2.4 J	3	50	--	100
41	**Chloroethane**	0.94 J	<0.23	1.5 J	<0.23	1.2 J	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	Well Dry	<0.23	<0.23	<0.23	<0.23	10	3000	--	NS
71	**1,4-Dichlorobenzene**	**7.6**	<0.19	<0.19	<0.19	1.2	<0.19	2.8	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	Well Dry	<0.19	<0.19	<0.19	<0.19	1	6	--	75
75	**1,1-Dichloroethane**	0.86 J	<0.13	**14**	<0.13	0.99 J	<0.13	<0.13	<0.13	0.79 J	<0.13	5.8	<0.13	<0.13	Well Dry	<0.13	3.7 J	<0.13	0.40 J	5	6	--	NS
76	**1,2-Dichloroethane**	**0.46 J**	**0.98 J**	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	Well Dry	<0.21	<0.21	<0.21	<0.21	1	0.4	--	NS
78	**cis-1,2-Dichloroethene**	<0.15	<0.15	0.85 J	<0.15	0.60 J	<0.15	<0.15	<0.15	<0.15	<0.15	13	<0.15	<0.15	Well Dry	<0.15	7.6	<0.15	<0.15	5	70	--	70
137	**Chloromethane**	<0.13	1.3	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	Well Dry	<0.13	<0.13	<0.13	<0.13	1	3	--	NS
211	**Vinyl Chloride**	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	**2.2**	<0.32	<0.32	Well Dry	<0.32	**0.72 J**	<0.32	<0.32	1	0.03	--	2
346	**Xylenes (Total)**	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	0.77 J	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	Well Dry	<0.45	<0.45	<0.45	<0.45	5	500	--	NS
458	**Tetrahydrofuran**	21	<0.80	<0.80	<0.80	7.2	<0.80	32.0	<0.80	<0.80	9.8	<0.80	<0.80	<0.80	Well Dry	<0.80	<0.80	<0.80	12	NE	NE	NE	NS
Appendix I Semi-Volatile Organic Compounds																							
111	**Bis(2-ethylhexyl)phthalate**	<1.7	2.2 J	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	1.8 J	Well Dry	<1.7	<1.7	<1.7	<1.7	15	3	ns	ns
177	**Phenol**	<1.4	2.4 J	<1.4	<1.4	<1.4	2.9 J	1.5 J	<1.4	1.8 J	<1.4	<1.4	<1.4	<1.4	Well Dry	<1.4	<1.4	<1.4	<1.4	10	30	ns	ns
Appendix I Metals																							
13	**Antimony**	0.418 J	**2.31 J**	0.344 J	<0.220	<0.220	<0.220	<0.220	<0.220	<0.220	<0.220	<0.220	<0.220	<2.220	Well Dry	0.456 J	<0.220	2.43 J	<0.220	6	NS	1	6
14	**Arsenic**	<6.80	<6.80	<6.80	<6.80	<6.80	<6.80	<6.80	<6.80	<6.80	<6.80	<6.80	<6.80	<6.80	Well Dry	<6.80	<6.80	<6.80	7.33 J	10	10	--	--
15	**Barium**	424	57.1 J	201	178	187	102	269	87.0 J	13.4 J	150	110	221	93.3 J	Well Dry	69.0 J	145	59.7 J	142	100	700	--	2,000
34	**Cadmium**	<0.360	<0.360	<0.360	<0.360	<0.360	<0.360	<0.360	<0.360	<0.360	<0.360	<0.360	<0.360	<0.360	Well Dry	**3.45**	<0.360	0.365 J	<0.360	1	2	--	5
51	**Chromium**	3.16 J	<1.40	<1.40	<1.40	<1.40	5.02 J	2.47 J	<1.40	<1.40	2.10 J	<1.40	3.17 J	<1.40	Well Dry	2.19 J	<1.40	5.87 J	1.46 J	10	10	--	100
53	**Cobalt**	**42.7**	<1.10	**12.9**	**2.22 J**	<1.10	**3.46 J**	**21.2**	**3.51 J**	<1.10	**1.75 J**	**6.64 J**	**9.65 J**	<1.10	Well Dry	**19.9**	**2.01 J**	<1.10	**1.72 J**	10	NS	1	NS
54	**Copper**	13.3	<1.60	<1.60	<1.60	<1.60	3.17 J	9.18 J	<1.60	<1.60	<1.60	<1.60	<1.60	<1.60	Well Dry	12.9	<1.60	<1.60	<1.60	10	1000	--	1,300
131	**Lead**	<3.10	<3.10	<3.10	<3.10	4.86 J	<3.10	4.05 J	<3.10	<3.10	<3.10	4.51 J	<3.10	<3.10	Well Dry	<3.10	<3.10	<3.10	4.15 J	10	15	--	NS
132	**Mercury**	<0.170	<0.170	0.361	<0.170	<0.170	<0.170	<0.170	0.170 J	<0.170	<0.170	<0.170	<0.170	<1.70	Well Dry	0.176 J	<0.170	<0.170	<0.170	0.2	1	--	
152	**Nickel**	27.7 J	<1.80	12.1 J	3.75	33.4 J	2.87 J	32.5 J	4.65 J	<1.80	44.4 J	2.53 J	3.06 J	<1.80	Well Dry	4.18 J	<1.80	<1.80	41.0 J	50	100	---	NS
184	**Silver**	7.83 J	<1.90	<1.90	<1.90	<1.90	<1.90	<1.90	<1.90	<1.90	5.84 J	<1.90	<1.90	2.79 J	Well Dry	1.92 J	<1.90	<1.90	5.40 J	10	20	--	NS
209	**Vanadium**	<1.40	**1.9 J**	<1.40	<1.40	**2.52 J**	**9.63 J**	**3.18 J**	<1.40	**2.32 J**	**1.92 J**	<1.40	**12.8 J**	**4.71 J**	Well Dry	**5.44 J**	**3.74 J**	**3.59 J**	**2.08 J**	25	NS	0.3	ns
213	**Zinc**	<3.80	<3.80	<3.80	<3.80	<3.80	7.74 J	5.12 J	<3.80	<3.80	<3.80	20.2	7.21 J	4.19 J	Well Dry	280	<3.80	12.1	<3.80	10	1,000	--	5,000
Sulfide																							
187	**Sulfide**	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.59 J	<0.010	Well Dry	<0.010	<0.010	<0.010	<0.010	1000	NE	NE	NS

µg/L = concentrations reported in micrograms per liter (ug/L)
< = concentration is less than the method detection limit
NC SWSL = North Carolina Solid Waste Section Limit
J = Parameters are estimated values between the detection limit and the NC SWSL.
JB = analyte detected in method blank and at a concentrations between the detection limit and the NC SWSL
NCAC 2L Standards = 15A North Carolina Administrative Code 2L .0200, Groundwater Quality Standards for Class GA groundwater
NCDENR IMAC = North Carolina Interim Maximum Allowable Concentration
Federal MCL = Federal Maximum Concentration Limit
shaded cells indicate detected concentration
concentrations in bold exceed the NCAC 2L standard or IMAC
NS = No Standard
NA = constituent not analyzed

TABLE 4
SUMMARY OF GROUNDWATER STANDARD EXCEEDANCES
PHASE 2 - PERMIT # 41-03
WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081C

Solid Waste Section ID #	Well ID / Sample ID / Date Collected / Detected Analytes	II-1	II-2	II-3	II-3B	II-4A	II-5	II-6	II-7	II-7B	II-8	II-9	II-12	MW-13	SMW-1	SMW-3	SMW-4	NCAC 2L Standards	NCDENR IMAC	Federal MCLs
		Sample Locations																		
	Sample ID	4301-II1	4301-II2	4301-II3	4301-II3B	4301-II4A	4301-II5	4301-II-6	4301-II7	4301-II-7B	4103-II8	4103-II9	4103-II12	4103-MW13	4103-SMW1	4103-SMW3	4103-SMW4			
	Date Collected	10/7/2015	10/5/2015	10/6/2015	10/5/2015	10/5/2015	10/5/2015	10/6/2015	10/6/2015	10/6/2015	10/6/2015	10/7/2015	10/8/2015	10/8/2015	10/7/2015	10/8/2015	10/7/2015			
	Detected Analytes	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Appendix I Volatile Organic Compounds																				
16	**Benzene**	**1.2**	<0.15	**1.3**	<0.15	0.73 J	<0.15	**1.4**	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	1	ns	5
36	**Carbon tetrachloride**	**0.47 J**	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	0.3	--	NS
71	**1,4-Dichlorobenzene**	**7.6**	<0.19	<0.19	<0.19	1.2	<0.19	2.8	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	6	ns	75
75	**1,1-Dichloroethane**	0.86 J	<0.13	**14**	<0.13	0.99 J	<0.13	<0.13	<0.13	0.79 J	<0.13	5.8	<0.13	<0.13	<0.13	3.7 J	<0.13	6	--	NS
76	**1,2-Dichloroethane**	**0.46 J**	**0.98 J**	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	0.4	--	NS
211	**Vinyl Chloride**	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	**2.2**	<0.32	<0.32	<0.32	**0.72 J**	<0.32	0.03	ns	2
Appendix I Metals																				
13	**Antimony**	0.418 J	**2.31 J**	0.344 J	<0.220	<0.220	<0.220	<0.220	<0.220	<0.220	<0.220	<0.220	<0.220	<2.220	0.456 J	<0.220	2.43 J	NS	1	6
34	**Cadmium**	<0.360	<0.360	<0.360	<0.360	<0.360	<0.360	<0.360	<0.360	<0.360	<0.360	<0.360	<0.360	<0.360	**3.45**	<0.360	0.365 J	2	--	5
51	**Cobalt**	**42.7**	<1.10	**12.9**	**2.22 J**	<1.10	**3.46 J**	**21.2**	**3.51 J**	<1.10	**1.75 J**	**6.64 J**	**9.65 J**	<1.10	**19.9**	**2.01 J**	<1.10	NS	1	NS
209	**Vanadium**	<1.40	**1.9 J**	<1.40	<1.40	**2.52 J**	**9.63 J**	**3.18 J**	<1.40	**2.32 J**	**1.92 J**	<1.40	**12.8 J**	**4.71 J**	**5.44 J**	**3.74 J**	**3.59 J**	NS	0.3	ns

ug/L = concentrations reported in micrograms per liter (ug/L)
< = concentration is less than the method detection limit
J = Parameters are estimated values between the detection limit and the NC SWSL.
NCAC 2L Standards = 15A North Carolina Administrative Code 2L .0200, Groundwater Quality Standards for Class GA groundwater
NCDENR IMAC = North Carolina Interim Maximum Allowable Concentration
Federal MCL = Federal Maximum Concentration Limit
concentrations in bold exceed the NCAC 2L standard or IMAC
NS = No Standard

TABLE 5
GROUNDWATER VELOCITY DATA
PHASE 2 - PERMIT # 41-03
PHASE II - WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081C

Well No.	Hydraulic Conductivity (K = feet/day)	Porosity (n = %)	Gradient (I = feet/foot)	Groundwater Velocity (V= feet/day)
II-1	0.119	0.2	0.043	0.026
II-2	0.329	0.2	0.006	0.010
II-3	0.380	0.2	0.014	0.026
II-4A	0.295	0.2	0.053	0.078
II-5	0.042	0.2	0.040	0.008
II-6	0.221	0.2	0.026	0.029
II-7	1.077	0.2	0.016	0.085
II-8	2.353	0.2	0.020	0.235
MW-14	0.740	0.2	dry well	dry well
SMW-1	0.858	0.2	0.006	0.027
SMW-3	0.630	0.2	0.013	0.041
SMW-4	0.469	0.2	0.014	0.033

Notes: Hydraulic Conductivity's from slug test data by BPA Environmental & Engineering Inc.
HDR Engineering, S&ME Inc.
Porosity values from published literature, based on soil types
Gradients are based upon groundwater elevation data from this monitoring event
Velocity calculated using V = KI/n

TABLE 6
SUMMARY OF SURFACE WATER ANALYSES RESULTS - DETECTIONS
PHASE 2 - PERMIT # 41-03
WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081C

Solid Waste Section ID #	Sample Location / Sample ID / Date Collected / Detected Analytes	Sample Locations					NC SWSL	NCAC 2B Standards
		SW-1	SW-2	SW-3	SW-4	SW-5		
	Sample ID	4103-SW1	4103-SW2	4103-SW3	4103-SW4	4103-SW5		
	Date Collected	10/07/15	10/07/15	10/07/15	10/07/15	10/07/15		
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Appendix I Volatile Organic Compounds								
28	**Bromodichloromethane**	<0.17	<0.17	0.96 J	<0.17	<0.17	3	ns
44	**Chloroform**	<0.18	<0.18	2.4 J	0.92 J	1.0 J	5	5.6
Appendix I Metals								
13	**Antimony**	0.268 J	<0.220	0.372 J	0.259 J	<0.220	6	5.6
15	**Barium**	85.7 J	42.6 J	28.3 J	319	41.0 J	100	1000
23	**Beryllium**	<0.100	<0.100	<0.100	1.50	<0.100	100	ns
34	**Cadmium**	0.784 J	<0.360	<0.360	5.66	<0.360	1	ns
51	**Chromium**	7.93 J	<1.40	<1.40	**66.1**	<1.40	10	50
53	**Cobalt**	**4.34 J**	<1.10	2.43 J	**46.5**	1.92 J	10	3
54	**Copper**	**11.30**	<1.60	2.65 J	**57.1**	2.17 J	10	7
131	**Lead**	7.02 J	<3.10	<3.10	**93.2**	<3.10	10	25**
184	**Silver**	<1.90	<1.90	**2.74 J**	<1.90	**2.32 J**	10	0.06**
152	**Nickel**	3.16 J	<1.80	6.56 J	22.0 J	3.14 J	50	25
209	**Vanadium**	18.2 J	2.91 J	3.69 J	61.8	3.05 J	25	ns
213	**Zinc**	**117**	7.88 J	25.2	**1,020**	24.5	10	50**

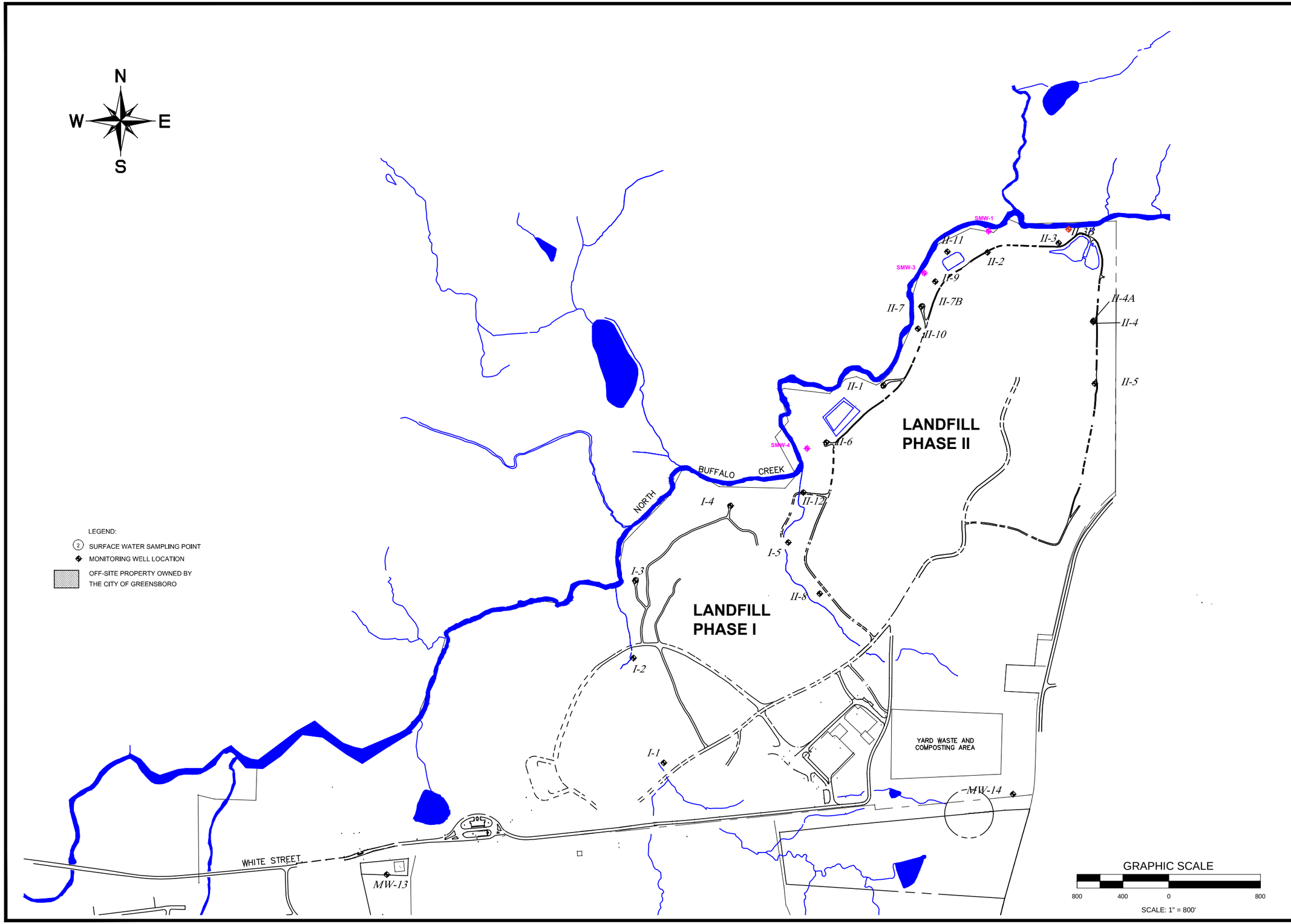
J = Concentration reported greater than the method detection limit but less than the SWSL, thus it is considered estimated
* = Title 15A NCAC 2B Standards for Class C, WS-V surface water
** = Freshwater Standard
µg/L = concentrations reported in micrograms per liter (µg/L)
< = concentrations is less than the method detection limit shown
NC SWSL = North Carolina Solid Waste Section Limit

TABLE 7
SUMMARY OF 2B SURFACE WATER STANDARD EXCEEDANCES
PHASE 2 - PERMIT # 41-03
WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081C

Solid Waste Section ID #	**Sample Location**	**Sample Locations**			**NC SWSL**	**NCAC 2B Standards***
		SW-1	**SW-3**	**SW-4**		
	Sample ID	4103-SW1	4103-SW3	4103-SW4		
	Date Collected	10/07/15	10/07/15	10/07/15		
	Detected Analytes	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Appendix I Metals						
51	**Chromium**	7.93 J	<1.40	**66.1**	10	50
53	**Cobalt**	**4.34 J**	2.43 J	**46.5**	10	3
54	**Copper**	**11.30**	2.65 J	**57.1**	10	7 (AL)
131	**Lead**	<3.10	<3.10	**93.2**	10	25**
184	**Silver**	<1.90	**2.74 J**	<1.90	10	0.06** (AL)
213	**Zinc**	**117**	25.2	**1,020**	10	50** (AL)

concentrations in bold print are greater than the referenced NCAC 2B Standard
µg/L = concentrations reported in micrograms per liter (µg/L)
< = concentrations is less than the method detection limit shown
* = Title 15A NCAC 2B Standards for Class C, WS-V surface water
** = Freshwater Standard
(AL) = Action Level
J = estimated

Figures



SITE BASE MAP
PHASE II
WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA

SCALE:	AS SHOWN
JOB NO.	1584-98-081B
DRAWN BY:	DSB/RDM
DATE:	OCTOBER 2013
CHECKED BY:	EQBH
FIGURE NO.	1

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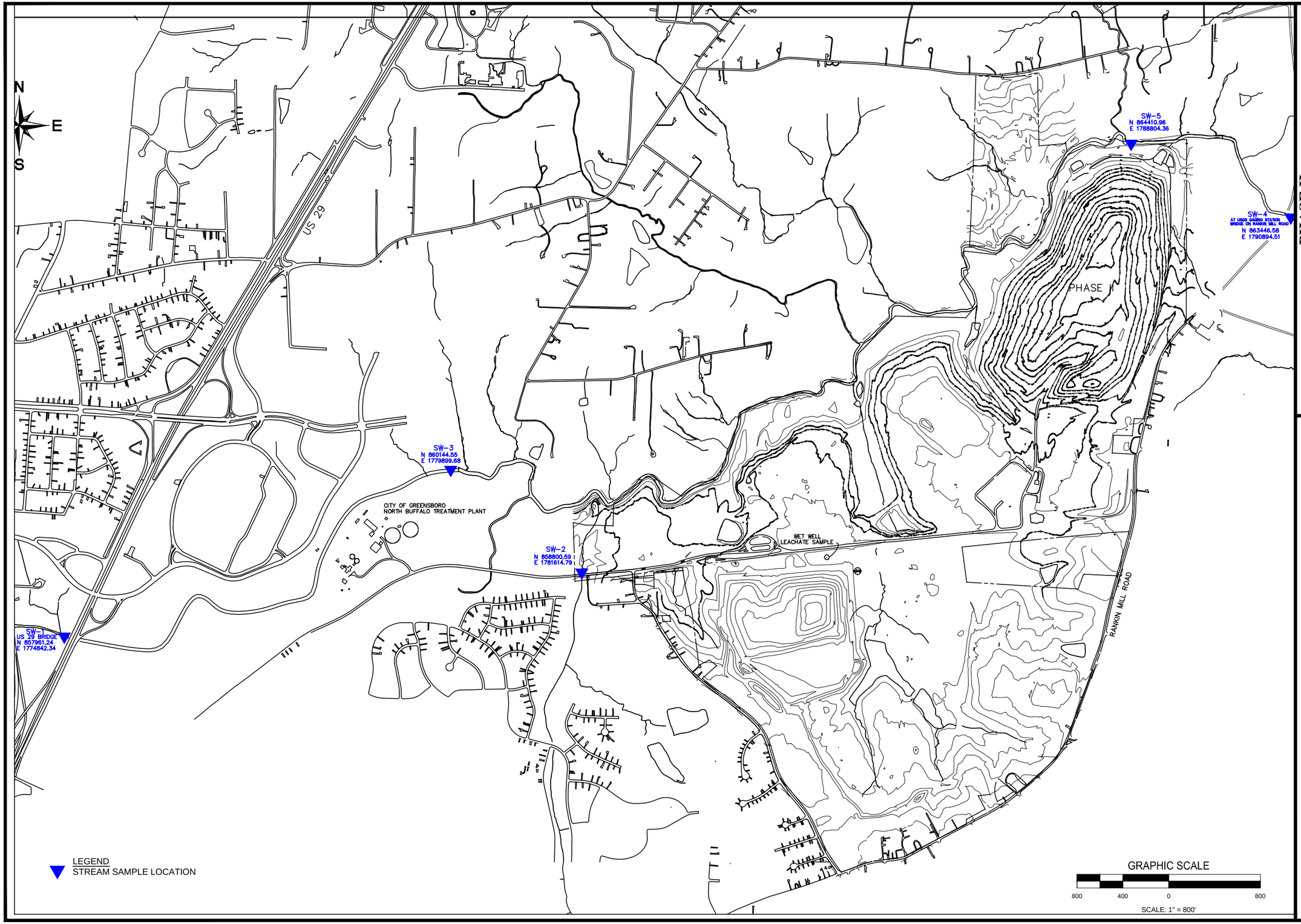

PHASE II
SURFACE WATER SAMPLING LOCATIONS
WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA

SCALE: AS SHOWN	DRAWN BY: DSB/RDM	CHECKED BY: LE	
JOB NO. 1584-98-081	DATE: DECEMBER 2007	FIGURE NO. 2	

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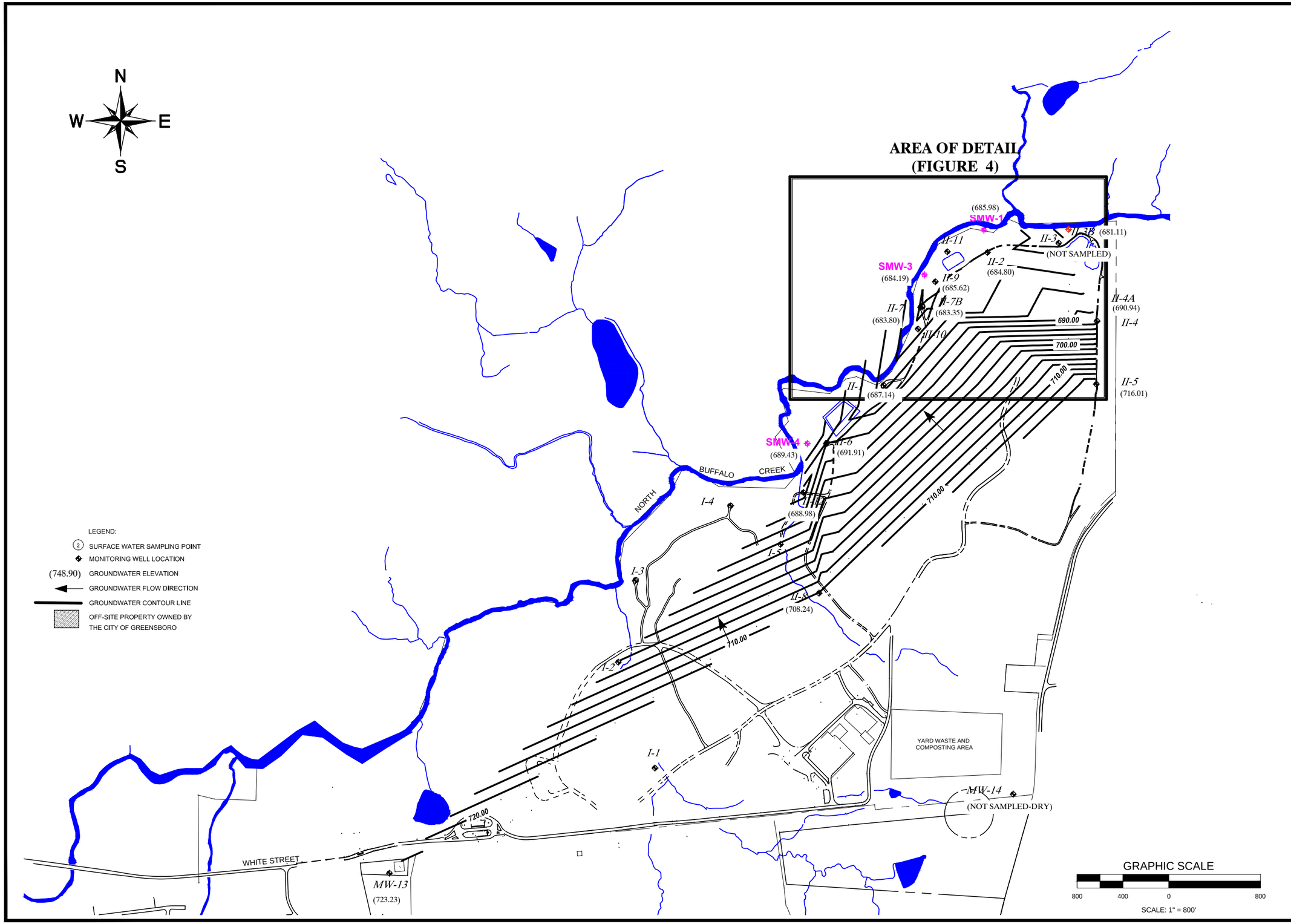

GROUNDWATER FLOW MAP
PHASE II
WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA

SCALE:	AS SHOWN
JOB NO.	1584-98-081C
DRAWN BY:	DSB/RDM
DATE:	DECEMBER 2015
CHECKED BY:	SC
FIGURE NO.	3

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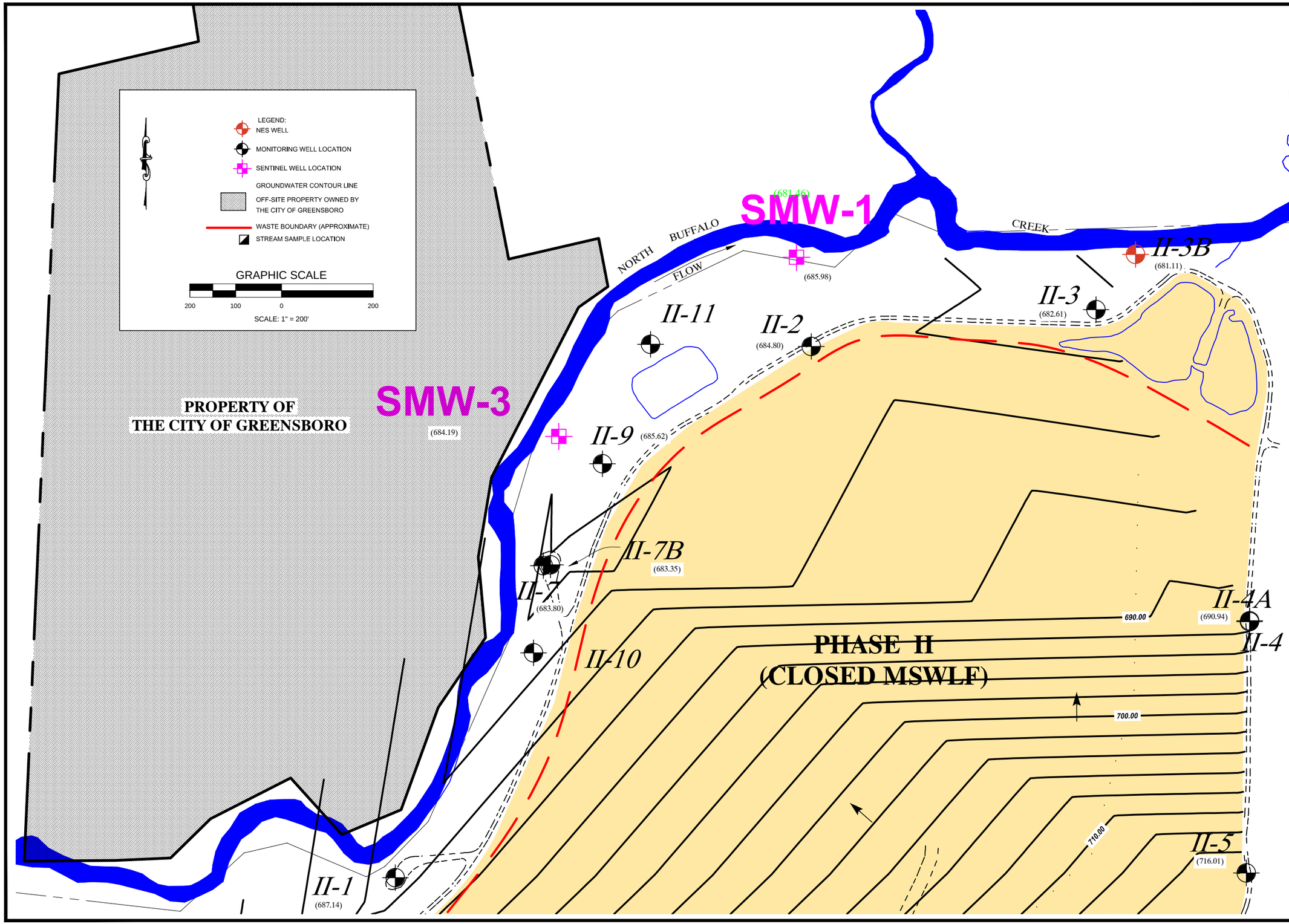

DETAILED SITE MAP
PHASE II
WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA

SCALE: AS SHOWN	CHECKED BY: EQBH
DRAWN BY: DSB/RDM	FIGURE NO. 4
DATE: DECEMBER 2015	
JOB NO. 1584-98-081C	

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Appendix I – Groundwater Sampling Field Data Sheets

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Wednesday, October 07, 2015
Project No.:	1584-98-081	Purge Time:	40 Minutes
Source Well:	4103-II1	Sample Date:	Wednesday, October 07, 2015
		Sample Time:	1315
Locked?:	Yes: x No:	Weather:	Sunny
Sampled By:	Bradley Keyse	Air Temp:	72 *F

Water Level & Well Data

Depth to water from measuring point:	15.64	feet
Depth to well bottom from measuring point:	25.00	feet
Height of water column:	9.36	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Bladder Pump

Sample Method: Bladder Pump

Purge Rate: 110 ml/min

Control Settings: On: 2 sec.; Off: 28 sec.; Pressure: 20 psi

Purge Time

Start 1235 Stop 1315

Sample Collection Time

Start 1315 Stop 1435

Volume of water in well

2" well:

height: 9.36 x .163 = 1.52568

Volume of water removed: 4.0 gallons ____ liters x

Was well purged dry: Yes ____ No x

Field Analyses

*Stabilization Parameters

Ferrous Iron = 3.30 mg/L (3,310 ug/L) [Collected with Metals Bottle a 1325 hrs]

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
1235	10/7/2015							
1240	10/7/2015	18.82	5.95	2.494	-6.3	2.61	0.85	16.03
1245	10/7/2015	18.77	5.95	2.494	-23.2	1.23	0.43	16.04
1250	10/7/2015	19.06	5.98	2.509	-26.8	1.02	0.00	16.04
1255	10/7/2015	18.82	5.96	2.509	-34.1	0.87	0.00	16.15
1300	10/7/2015	18.63	5.95	2.517	-33.9	0.64	0.00	16.22
1305	10/7/2015	19.01	5.98	2.548	-39.0	0.56	0.00	16.25
1310	10/7/2015	19.25	5.99	2.562	-38.7	0.45	0.00	16.21
1315	10/7/2015	19.91	6.02	2.617	-38.1	0.44	0.00	16.16

Final Readings	1315	10/7/2015	19.91	6.02	2.617	-38	0.44	0.00	16.16
			* C	units	mS/cm	mV	mg/L	NTU	

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Monday, October 05, 2015
Project No.:	1584-98-081	Purge Time:	68 Minutes
Source Well:	4103-II2	Sample Date:	Monday, October 05, 2015
		Sample Time:	1130
Locked?:	Yes: x No:	Weather:	Overcast
Sampled By:	Bradley Keyse	Air Temp:	64 *F

Water Level & Well Data

Depth to water from measuring point:	19.79	feet
Depth to well bottom from measuring point:	29.00	feet
Height of water column:	9.21	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Bladder Pump

Sample Method: Bladder Pump

Purge Rate: 104 ml/min

Control Settings: On: 2.0 sec.; Off: 28.0 sec.; Pressure: 26 psi

Purge Time

Start 1020 Stop 1128

Sample Collection Time

Start 1128 Stop 1205

Volume of water in well

2" well:

height: 9.21 x .163 = 1.50123

Volume of water removed: 7.0 gallons _____ liters x

Was well purged dry: Yes _____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
1020	10/5/2015							
1028	10/5/2015	14.94	6.59	0.919	-14.2	5.38	0.55	20.39
1030	10/5/2015	14.92	6.46	0.915	-13.8	3.26	0.00	20.36
1035	10/5/2015	14.91	6.38	0.915	-14.7	1.84	0.00	20.43
1040	10/5/2015	14.90	6.36	0.738	-16.4	1.20	0.00	20.46
1045	10/5/2015	14.90	6.37	0.739	-17.4	0.77	0.00	20.46
1050	10/5/2015	14.98	6.40	0.737	-19.8	0.64	0.00	20.43
1055	10/5/2015	15.02	6.46	0.738	-19.6	0.83	0.00	20.47
1100	10/5/2015	15.03	6.49	0.739	-21.6	1.18	0.30	20.49
1105	10/5/2015	15.17	6.53	0.744	-17.9	1.28	0.65	20.48
1110	10/5/2015	15.21	6.54	0.747	-14.4	1.47	0.75	20.5
1115	10/5/2015	15.31	6.55	0.751	-14.0	1.67	0.6	20.49
1120	10/5/2015	15.37	6.55	0.753	-13.9	1.69	0.4	20.5
1125	10/5/2015	15.46	6.56	0.757	-14.1	1.77	0.35	20.5

Final Readings	1125	10/5/2015	15.46	6.56	0.757	-14	1.77	0.35	20.50
			* C	units	mS/cm	mV	mg/L	NTU	

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Tuesday, October 06, 2015
Project No.:	1584-98-081	Purge Time:	45 Minutes
Source Well:	4103-II3	Sample Date:	Tuesday, October 06, 2015
		Sample Time:	850
Locked?:	Yes: x No:	Weather:	Sunny
Sampled By:	Bradley Keyse	Air Temp:	51 *F

Water Level & Well Data

Depth to water from measuring point:	16.76	feet
Depth to well bottom from measuring point:	30.00	feet
Height of water column:	13.24	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Bladder Pump

Sample Method: Bladder Pump

Purge Rate: 92 ml/min

Control Settings: On: 3.0 sec.; Off: 27.0 sec.; Pressure: 25 psi

Purge Time

Start 805 Stop 850

Sample Collection Time

Start 850 Stop 830

Volume of water in well

2" well:

height: 13.24 x .163 = 2.15812

Volume of water removed: 4.0 gallons _____ liters x

Was well purged dry: Yes _____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
758	10/6/2015							
800	10/6/2015							
805	10/6/2015		Had P+B21ump Issues, Started Actualy Purging at 805					
810	10/6/2015	13.82	5.57	0.363	82.6	3.38	13	16.90
815	10/6/2015	14.37	5.72	0.365	40.7	1.32	14	16.93
820	10/6/2015	15.07	5.78	0.368	0.8	0.68	14	16.97
825	10/6/2015	15.38	5.79	0.369	-13.7	0.51	13	16.95
830	10/6/2015	15.71	5.79	0.372	-25.8	0.42	10	16.94
835	10/6/2015	15.92	5.80	0.374	-31.9	0.35	8.9	16.98
840	10/6/2015	16.11	5.80	0.375	-34.3	0.34	9.3	17.00
845	10/6/2015	16.21	5.79	0.375	-36.8	0.31	7.6	16.97
850	10/6/2015	16.27	5.8	0.375	-40.0	0.29	5.2	16.95

Final Readings	850	10/6/2015	16.27	5.80	0.375	-40	0.29	5.20	16.95
			* C	units	mS/cm	mV	mg/L	NTU	

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Monday, October 05, 2015
Project No.:	1584-98-081	Purge Time:	55 Minutes
Source Well:	4103-II3B	Sample Date:	Monday, October 05, 2015
		Sample Time:	1545
Locked?:	Yes: x No:	Weather:	Mostly Cloudy
Sampled By:	Bradley Keyse	Air Temp:	65 *F

Water Level & Well Data

Depth to water from measuring point:	13.38	feet
Depth to well bottom from measuring point:	25.00	feet
Height of water column:	11.62	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Bladder Pump

Sample Method: Bladder Pump

Purge Rate: 100 ml/min

Control Settings: On: 3.0 sec.; Off: 27.0 sec.; Pressure: 23 psi

Purge Time

Start 1450 Stop 1545

Sample Collection Time

Start 1545 Stop 1625

Volume of water in well

2" well:

height: 11.62 x .163 = 1.89406

Volume of water removed: 5.5 gallons _____ liters x

Was well purged dry: Yes _____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
1450	10/5/2015							
1455	10/5/2015							
1500	10/5/2015	18.36	6.13	0.445	89.2	2.92	2.40	13.54
1505	10/5/2015	18.27	6.09	0.447	56.8	1.79	0.00	13.58
1510	10/5/2015	18.30	6.10	0.450	8.7	0.67	0.00	13.63
1515	10/5/2015	18.38	6.13	0.451	-13.0	0.48	0.00	13.68
1520	10/5/2015	18.22	6.12	0.450	-23.2	0.32	0.00	13.70
1525	10/5/2015	18.02	6.11	0.448	-29.3	0.27	0.00	13.73
1530	10/5/2015	17.82	6.10	0.445	-34.3	0.23	0.00	13.75
1535	10/5/2015	17.62	6.09	0.443	-37.1	0.20	0.00	13.78
1540	10/5/2015	17.54	6.08	0.441	-38.2	0.20	0.00	13.78
1545	10/5/2015	17.5	6.09	0.442	-42.3	0.19	0.00	13.78

Final Readings	1545	10/5/2015	17.50	6.09	0.442	-42	0.19	0.00	13.78
			* C	units	mS/cm	mV	mg/L	NTU	

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Monday, October 05, 2015
Project No.:	1584-98-081	Purge Time:	55 Minutes
Source Well:	4103-II4A	Sample Date:	Monday, October 05, 2015
		Sample Time:	1735
Locked?:	Yes: x No:	Weather:	Overcast
Sampled By:	Bradley Keyse	Air Temp:	65 *F

Water Level & Well Data

Depth to water from measuring point:	16.31	feet
Depth to well bottom from measuring point:	30.00	feet
Height of water column:	13.69	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Bladder Pump

Sample Method: Bladder Pump

Purge Rate: 110 ml/min

Control Settings: On: 3.0 sec.

Off: 27.0 sec.

Pressure: 23 psi

Purge Time

Start 1640 Stop 1735

Sample Collection Time

Start 1735 Stop 1605

Volume of water in well

2" well:

height: 13.69 x .163 = 2.23147

Volume of water removed: 5.5 , _____ liters x

Was well purged dry: Yes _____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
1640	10/5/2015							
1645	10/5/2015	17.00	5.78	1.300	81.7	4.73	1.40	16.50
1650	10/5/2015	16.36	5.73	1.340	20.6	2.09	0.80	16.52
1655	10/5/2015	16.28	5.76	1.367	-8.6	1.43	0.00	16.54
1700	10/5/2015	16.25	5.78	1.369	-20.9	1.03	0.00	16.53
1705	10/5/2015	16.24	5.79	1.369	-25.9	0.88	0.00	16.55
1710	10/5/2015	16.11	5.79	1.365	-31.3	0.68	0.00	16.59
1715	10/5/2015	16.00	5.79	1.363	-36.6	0.51	0.00	16.56
1720	10/5/2015	16.06	5.81	1.360	-40.9	0.44	0.00	16.59
1725	10/5/2015	16.06	5.81	1.366	-42.3	0.40	0.00	16.55
1730	10/5/2015	16.03	5.81	1.367	-44.2	0.40	0.00	16.57
1735	10/5/2015	16.12	5.82	1.369	-46.3	0.37	0.00	16.55

Final Readings	1735	10/5/2015	16.12	5.82	1.369	-46	0.37	0.00	16.55
			* C	units	mS/cm	mV	mg/L	NTU	

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Monday, October 05, 2015
Project No.:	1584-98-081	Purge Time:	70 Minutes
Source Well:	4103-II5	Sample Date:	Monday, October 05, 2015
		Sample Time:	1330
Locked?:	Yes: x No:	Weather:	Overcast
Sampled By:	Bradley Keyse	Air Temp:	70 *F

Water Level & Well Data

Depth to water from measuring point:	6.00	feet
Depth to well bottom from measuring point:	16.00	feet
Height of water column:	10.00	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Bladder Pump

Sample Method: Bladder Pump

Purge Rate: 104 ml/min

Control Settings: On: 3.0 sec.; Off: 27.0 sec.; Pressure: 15 psi

Purge Time

Start 1220 Stop 1330

Sample Collection Time

Start 1330 Stop 1410

Volume of water in well

2" well:

height: 10 x .163 = 1.63

Volume of water removed: 7.0 gallons ____ liters x

Was well purged dry: Yes ____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
1220	10/5/2015							
1225	10/5/2015	17.88	6.57	0.231	90.0	4.41	70	6.91
1230	10/5/2015	17.92	6.52	0.199	65.0	3.89	85	6.94
1235	10/5/2015	18.07	6.48	0.182	42.3	3.48	95	6.97
1240	10/5/2015	18.21	6.45	0.176	29.8	3.93	90	6.97
1245	10/5/2015	18.32	6.44	0.176	23.5	3.30	95	7.00
1250	10/5/2015	18.31	6.40	0.177	19.8	3.12	95	7.00
1255	10/5/2015	18.28	6.39	0.181	17.4	3.03	90	7.01
1300	10/5/2015	18.18	6.37	0.186	15.5	3.02	85	7.10
1305	10/5/2015	18.14	6.35	0.194	13.3	3.05	85	7.16
1310	10/5/2015	18.11	6.34	0.204	12.1	3.12	85	7.26
1315	10/5/2015	18.13	6.34	0.214	10.8	3.07	80	7.36
1320	10/5/2015	18.12	6.33	0.221	9.7	3.07	80	7.32
1325	10/5/2015	18.44	6.33	0.233	7.5	2.99	80	7.40
1330	10/5/2015	18.61	6.34	0.241	5.6	2.91	80	7.44

Final Readings	1330	10/5/2015	18.61	6.34	0.241	6	2.91	80.00	7.44
			* C	units	mS/cm	mV	mg/L	NTU	

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Tuesday, October 06, 2015
Project No.:	1584-98-081	Purge Time:	40 Minutes
Source Well:	4103-II6	Sample Date:	Tuesday, October 06, 2015
		Sample Time:	1025
Locked?:	Yes: x No:	Weather:	Sunny (Sampling in the Shade)
Sampled By:	Bradley Keyse	Air Temp:	55 *F

NOTE: The pump was pushing air through the flow throuch cell. The water level may have been at inlet of the pump.

Water Level & Well Data

Depth to water from measuring point:	12.48	feet
Depth to well bottom from measuring point:	17.00	feet
Height of water column:	4.52	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Bladder Pump

Sample Method: Bladder Pump

Purge Rate: 96 ml/min

Control Settings: On: 2.0 sec.; Off: 28.0 sec.; Pressure: 18 psi

Purge Time

Start 945 Stop 1025

Sample Collection Time

Start 1025 Stop 1105

Volume of water in well

2" well:

height: 4.52 x .163 = 0.73676

Volume of water removed _____ gallons _____ liters x

Was well purged dry Yes _____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
945								
950	10/6/2015	15.85	6.05	0.647	62.7	6.59	8.80	12.50
955	10/6/2015	15.71	6.50	1.322	-19.4	4.55	16	12.68
1000	10/6/2015	15.77	6.68	1.480	-43.8	4.12	28	13.01
1005	10/6/2015	15.90	6.68	1.303	-40.8	4.24	21	13.22
1010	10/6/2015	16.00	6.68	1.231	-36.0	4.67	17	13.31
1015	10/6/2015	16.04	6.67	1.203	-33.1	4.97	13	13.38
1020	10/6/2015	16.05	6.66	1.199	-30.7	5.30	11	13.40
1025	10/6/2015	16.17	6.66	1.245	-30.7	5.04	9	13.45

Final Readings	1025	10/6/2015	16.17	6.66	1.245	-31	5.04	9.00	13.45
			* C	units	mS/cm	mV	mg/L	NTU	

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Tuesday, October 06, 2015
Project No.:	1584-98-081	Purge Time:	60 Minutes
Source Well:	4103-II7b	Sample Date:	Tuesday, October 06, 2015
		Sample Time:	1430
Locked?:	Yes: x No:	Weather:	Sunny
Sampled By:	Bradley Keyse	Air Temp:	72 *F

Water Level & Well Data

Depth to water from measuring point:	17.51	feet
Depth to well bottom from measuring point:	101.00	feet
Height of water column:	83.49	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Bladder Pump

Sample Method: Bladder Pump

Purge Rate: Approx 40 (see the note below) ml/min

Control Settings: On: 4 sec.; Off: 26 sec.; Pressure: 52 psi

Purge Time

Start 1335 Stop 1430

Sample Collection Time

Start 1430 Stop 1535

The controller / compressor wouldn't cycle as necesssary; therefore, a cylce of 80 mL purged, then three cylces with very little. Approx. 40 ml/min

Volume of water in well

2" well:

height: 83.49 x .163 = 13.60887

Volume of water removed: 4.0 gallons _____ liters x

Was well purged dry: Yes _____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
1330								
1335	10/6/2015							
1340	10/6/2015	18.16	8.57	0.339	70.1	3.49	0.00	18.61
1345	10/6/2015	17.90	8.68	0.383	26.3	1.61	0.00	19.22
1350	10/6/2015	18.07	8.65	0.385	-7.0	1.11	0.00	19.53
1355	10/6/2015	17.86	8.75	0.385	-29.5	0.87	0.00	19.91
1400	10/6/2015	17.93	8.73	0.385	-32.1	0.69	0.00	19.90
1405	10/6/2015	18.32	8.74	0.388	-38.6	0.69	0.00	19.97
1410	10/6/2015	18.49	8.76	0.391	-44.2	0.64	0.00	20.02
1415	10/6/2015	18.62	8.78	0.392	-51.5	0.59	0.00	20.04
1420	10/6/2015	18.76	8.82	0.394	-53.0	0.55	0.00	20.00
1425	10/6/2015	18.83	8.82	0.395	-52.8	0.53	0.00	20.02
1430	10/6/2015	18.75	8.83	0.395	-56.6	0.5	0.00	20.12

Final Readings	1430	10/6/2015	18.75	8.83	0.395	-56.6	0.50	0.00	20.12
			* C	units	mS/cm	mV	mg/L	NTU	

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Tuesday, October 06, 2015
Project No.:	1584-98-081	Purge Time:	47 Minutes
Source Well:	4103-II7	Sample Date:	Tuesday, October 06, 2015
		Sample Time:	1245
Locked?:	Yes: x No:	Weather:	Sunny
Sampled By:	Bradley Keyse	Air Temp:	66 *F

Water Level & Well Data

Depth to water from measuring point:	13.95	feet
Depth to well bottom from measuring point:	27.00	feet
Height of water column:	13.05	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Blader Pump

Sample Method: Blader Pump

Purge Rate: 110 ml/min

Control Settings: On: 3.0 sec.; Off: 27.0 sec.; Pressure: 21 psi

Purge Time

Start 1158 Stop 1245

Sample Collection Time

Start 1245 Stop 1325

Volume of water in well

2" well:

height: 13.05 x .163 = 2.12715

Volume of water removed: 3.5 gallons _____ liters x

Was well purged dry: Yes _____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
1158	10/6/2015							
1200	10/6/2015							
1205	10/6/2015	18.38	5.95	0.335	26.7	2.46	4.7	14.20
1210	10/6/2015	17.97	5.86	0.338	20.7	1.74	0.80	14.30
1215	10/6/2015	17.81	5.82	0.327	-1.9	1.32	0.00	14.36
1220	10/6/2015	17.80	5.8	0.326	-17.0	1.25	0.20	14.41
1225	10/6/2015	17.82	5.79	0.326	-23.8	1.38	0.65	14.45
1230	10/6/2015	17.75	5.78	0.327	-26.7	1.50	0.10	14.46
1235	10/6/2015	17.60	5.76	0.326	-27.9	1.60	0.40	14.48
1240	10/6/2015	17.60	5.73	0.327	-28.3	1.70	0.20	14.50
1245	10/6/2015	17.48	5.73	0.328	-28.5	1.79	0.35	14.51

Final Readings	1245	10/6/2015	17.48	5.73	0.328	-29	1.79	0.35	14.51
			* C	units	mS/cm	mV	mg/L	NTU	

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Tuesday, October 06, 2015
Project No.:	1584-98-081	Purge Time:	55 Minutes
Source Well:	4103-II8	Sample Date:	Tuesday, October 06, 2015
		Sample Time:	1740
Locked?:	Yes: x No:	Weather:	Sunny
Sampled By:	Bradley Keyse	Air Temp:	72 *F

Water Level & Well Data

Depth to water from measuring point:	9.52	feet
Depth to well bottom from measuring point:	32.50	feet
Height of water column:	22.98	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Blader Pump

Sample Method: Blader Pump

Purge Rate: 100 ml/min

Control Settings: On: 2.6 sec.

Off: 27.4 sec.

Pressure: 25 psi

Purge Time

Start 1645 Stop 1740

Sample Collection Time

Start 1740 Stop 1820

Note: Duplicate II taken at this location. (0700 hrs)

Volume of water in well

2" well:

height: 22.98 x .163 = 3.74574

Volume of water removed: 4.5 gallons _____ liters x

Was well purged dry: Yes _____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
1645	10/6/2015							
1650	10/6/2015	19.67	6.07	2.980	65.5	2.04	0.00	9.74
1655	10/6/2015	19.32	6.01	3.003	19.0	1.17	0.00	9.84
1700	10/6/2015	19.04	5.96	2.997	-1.1	0.78	0.00	9.85
1705	10/6/2015	18.88	5.95	2.975	-7.1	0.65	0.00	9.87
1710	10/6/2015	18.55	5.94	2.941	-13.8	0.49	0.00	9.86
1715	10/6/2015	18.59	5.96	2.933	-20.8	0.40	0.00	9.88
1720	10/6/2015	18.57	5.97	2.927	-24.7	0.35	0.00	9.90
1725	10/6/2015	18.85	5.99	2.940	-29.8	0.33	0.00	9.87
1730	10/6/2015	18.86	6.00	2.942	-32.5	0.31	0.00	9.88
1735	10/6/2015	18.42	5.99	2.911	-35.8	0.28	0.00	9.87
1740	10/6/2015	18.65	6.00	2.922	-39.1	0.26	0.00	9.87

Final Readings	1740	10/6/2015	18.65	6.00	2.922	-39	0.26	0.00	9.87
			* C	units	mS/cm	mV	mg/L	NTU	

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Wednesday, October 07, 2015
Project No.:	1584-98-081	Purge Time:	40 Minutes
Source Well:	4103-II9	Sample Date:	Wednesday, October 07, 2015
		Sample Time:	815
Locked?:	Yes: x No:	Weather:	Sunny
Sampled By:	Bradley Keyse	Air Temp:	52 *F

Water Level & Well Data

Depth to water from measuring point:	11.16	feet
Depth to well bottom from measuring point:	32.50	feet
Height of water column:	21.34	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Blader Pump

Sample Method: Blader Pump

Purge Rate: 104 ml/min

Control Settings: On: 2.3 sec.

Off: 27.7 sec.

Pressure: 20 psi

Purge Time

Start 735 Stop 815

Sample Collection Time

Start 815 Stop 910

Volume of water in well

2" well:

height: 21.34 x .163 = 3.47842

Volume of water removed: 4.0 gallons _____ liters x

Was well purged dry: Yes _____ No x

Field Analyses

*Stabilization Parameters

Ferrous Iron = 1.61 mg/L (1,610 ug/L) [Collected with Metals Bottle a 0820 hrs]

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
735								
740	10/7/2015	14.50	6.05	0.631	7.3	2.58	0.85	11.46
745	10/7/2015	14.68	6.12	0.627	-29.0	1.22	1.2	11.55
750	10/7/2015	14.68	6.12	0.625	-37.5	0.84	1.2	11.63
755	10/7/2015	14.70	6.13	0.624	-43.4	0.58	1.6	11.70
800	10/7/2015	14.76	6.13	0.625	-53.1	0.38	2.7	11.82
805	10/7/2015	14.83	6.11	0.626	-54.7	0.27	2.7	11.92
810	10/7/2015	14.81	6.10	0.626	-55.8	0.24	2.9	12.01
815	10/7/2015	14.78	6.09	0.625	-59.4	0.20	2.8	12.10

Final Readings	815	10/7/2015	14.78	6.09	0.625	-59	0.20	2.80	12.10
			* C	units	mS/cm	mV	mg/L	NTU	

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Wednesday, October 07, 2015
Project No.:	1584-98-081	Purge Time:	60 Minutes
Source Well:	4103-SMW-1	Sample Date:	Wednesday, October 07, 2015
		Sample Time:	1620
Locked?:	Yes: ____ No: x	Weather:	Sunny
Sampled By:	Bradley Keyse	Air Temp:	70 *F

Water Level & Well Data

Depth to water from measuring point:	6.89	feet
Depth to well bottom from measuring point:	15.00	feet
Height of water column:	8.11	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Blader Pump

Sample Method: Blader Pump

Purge Rate: 100 ml/min

Control Settings: On: 2 sec.; Off: 28 sec.; Pressure: 20 psi

Purge Time

Start 1520 Stop 1620

Sample Collection Time

Start 1620 Stop 1710

Volume of water in well

2" well:

height: 8.11 x .163 = 1.32193

Volume of water removed: 6.0 gallons ____ liters x

Was well purged dry: Yes ____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
1520								
1525	10/7/2015	20.87	5.91	0.286	19.8	3.69	14.0	6.96
1530	10/7/2015	20.11	5.40	0.213	-21.4	1.46	20.0	6.97
1535	10/7/2015	20.06	5.32	0.174	-34.0	0.81	20.0	6.70
1540	10/7/2015	19.93	5.24	0.157	-41.4	0.46	21.0	6.70
1545	10/7/2015	19.82	5.17	0.149	-47.6	0.25	22.0	6.71
1550	10/7/2015	19.83	5.23	0.148	-55.0	0.17	25.1	6.71
1555	10/7/2015	19.79	5.22	0.149	-55.4	0.16	19.5	6.71
1600	10/7/2015	19.70	5.22	0.140	-57.6	0.14	19.0	6.72
1605	10/7/2015	19.57	5.22	0.149	-60.6	0.14	18.9	6.73
1610	10/7/2015	19.57	5.23	0.149	-61.4	0.14	19.1	6.72
1615	10/7/2015	19.52	5.23	0.150	-63.4	0.11	19.1	6.76
1620	10/7/2015	19.57	5.27	0.150	-65.9	0.12	19.2	6.74

Final Readings	1620	10/7/2015	19.57	5.27	0.150	-66	0.12	19.20	6.74
			* C	units	mS/cm	mV	mg/L	NTU	

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Thursday, October 08, 2015
Project No.:	1584-98-081	Purge Time:	30 Minutes
Source Well:	4103-MW13	Sample Date:	Thursday, October 08, 2015
		Sample Time:	920
Locked?:	Yes: x No:	Weather:	Sunny
Sampled By:	Bradley Keyse	Air Temp:	66 *F

Water Level & Well Data

Depth to water from measuring point:	18.01	feet
Depth to well bottom from measuring point:	33.00	feet
Height of water column:	14.99	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Bladder Pump

Sample Method: Bladder Pump

Purge Rate: 100 ml/min

Control Settings: On: 3.0 sec.

Off: 27.0 sec.

Pressure: 30 psi

Purge Time

Start 850 Stop 920

Sample Collection Time

Start 920 Stop 1000

Volume of water in well

2" well:

height: 14.99 x .163 = 2.44337

Volume of water removed: 3.0 gallons _____ liters x

Was well purged dry: Yes _____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
850								
855	10/8/2015	15.61	6.42	0.318	-23.8	5.31	8.25	18.61
900	10/8/2015	15.50	6.41	0.318	-28.5	4.26	8.40	18.86
905	10/8/2015	15.68	6.45	0.314	-34.7	3.92	2.01	19.01
910	10/8/2015	15.78	6.48	0.311	-36.2	3.91	1.61	19.09
915	10/8/2015	15.81	6.47	0.306	-37.9	3.83	1.78	19.11
920	10/8/2015	15.81	6.47	0.304	-38.4	3.80	1.62	19.10

Final Readings	920	10/8/2015	15.81	6.47	0.304	-38.4	3.80	1.62	19.10
			* C	units	mS/cm	mV	mg/L	NTU	

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Thursday, October 08, 2015
Project No.:	1584-98-081	Purge Time:	
Source Well:	4103-MW14	Sample Date:	Thursday, October 08, 2015
		Sample Time:	1011
Locked?:	Yes: x No:	Weather:	Sunny
Sampled By:	Bradley Keyse	Air Temp:	68 *F

Water Level & Well Data

Depth to water from measuring point:	DRY	feet
Depth to well bottom from measuring point:	34.00	feet
Height of water column:	#VALUE!	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Bladder Pump

Sample Method: Bladder Pump

Purge Rate: 100 ml/min

Control Settings: On: 3.0 sec.

Off: 27.0 sec.

Pressure: 30 psi

Purge Time

Start _____ Stop _____

Sample Collection Time

Start _____ Stop _____

Volume of water in well

2" well:

height: #VALUE! x .163 = #VALUE!

Ferrous Iron: _____ mg/L

Volume of water removed: 4.0 gallons _____ liters x

Was well purged dry: Yes _____ No x

Field Analyses

*Stabilization Parameters

	Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
Final Readings									
			* C	units	mS/cm	mV	mg/L	NTU	

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Wednesday, October 07, 2015
Project No.:	1584-98-081	Purge Time:	
Source Well:	4112-SW1	Sample Date:	Wednesday, October 07, 2015
	Summit Avenue Bridge	Sample Time:	1400
Locked?:	Yes: x No:	Weather:	Sunny
Sampled By:	Gary Simcox	Air Temp:	65 *F

Water Level & Well Data

Depth to water from measuring point: _____ feet

Depth to well bottom from measuring point: _____ feet

Height of water column: 0.00 feet

Measuring point: _____

Well Purging & Sample Collection

Purge Method _____

Sample Method _____

Purge Rate _____ ml/min

Control Settings On: _____ sec.

Off: _____ sec.

Pressure: _____ psi

Purge Time

Start _____ Stop _____

Sample Collection Time

Start _____ Stop _____

Volume of water in well

2" well:

height: 0 x .163 = 0

Volume of water removed _____ gallons _____ liters _____

Was well purged dry Yes _____ No _____

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
Final Readings	1400	10/7/2015	18.76	7.27	0.229			
			* C	units	mS/cm			

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Wednesday, October 07, 2015
Project No.:	1584-98-081	Purge Time:	
Source Well:	4112-SW2	Sample Date:	Wednesday, October 07, 2015
	White Street and Nealtown Road	Sample Time:	1320
Locked?:	Yes: x No:	Weather:	Sunny
Sampled By:	Gary Simcox	Air Temp:	65 *F

Water Level & Well Data

Depth to water from measuring point: _____ feet

Depth to well bottom from measuring point: _____ feet

Height of water column: 0.00 feet

Measuring point: _____

Well Purging & Sample Collection

Purge Method _____

Sample Method _____

Purge Rate _____ ml/min

Control Settings On: _____ sec.

Off: _____ sec.

Pressure: _____ psi

Purge Time

Start _____ Stop _____

Sample Collection Time

Start _____ Stop _____

Volume of water in well

2" well:

height: 0 x .163 = 0

Volume of water removed _____ gallons _____ liters x

Was well purged dry Yes _____ No x

Field Analyses

*Stabilization Parameters

	Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
Final Readings	1320	10/7/2015	17.11	7.37	0.151				
			* C	units	mS/cm				

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Wednesday, October 07, 2015
Project No.:	1584-98-081	Purge Time:	
Source Well:	4112-SW3	Sample Date:	Wednesday, October 07, 2015
	Waste Water Treatment Plant	Sample Time:	1545
Locked?:	Yes: _____ No: _____	Weather:	Sunny
Sampled By:	Gary Simcox	Air Temp:	65 *F

Water Level & Well Data

Depth to water from measuring point: _____ feet

Depth to well bottom from measuring point: _____ feet

Height of water column: 0.00 feet

Measuring point: _____

Well Purging & Sample Collection

Purge Method _____

Sample Method _____

Purge Rate _____ ml/min

Control Settings On: _____ sec.

Off: _____ sec.

Pressure: _____ psi

Purge Time

Start _____ Stop _____

Sample Collection Time

Start _____ Stop _____

Volume of water in well

2" well:

height: 0 x .163 = 0

Volume of water removed _____ gallons _____ liters _____

Was well purged dry Yes _____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
Final Readings	154	10/7/2015	21.82	7.34	0.337			
			* C	units	mS/cm			

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Wednesday, October 07, 2015
Project No.:	1584-98-081	Purge Time:	
Source Well:	4112-SW4	Sample Date:	Wednesday, October 07, 2015
	Rankin Mill Road Bridge	Sample Time:	1445
Locked?:	Yes: x No:	Weather:	Sunny
Sampled By:	Gary Simcox	Air Temp:	65 *F

Water Level & Well Data

Depth to water from measuring point: _____ feet

Depth to well bottom from measuring point: _____ feet

Height of water column: 0.00 feet

Measuring point: _____

Well Purging & Sample Collection

Purge Method _____

Sample Method _____

Purge Rate _____ ml/min

Control Settings On: _____ sec.

Off: _____ sec.

Pressure: _____ psi

Purge Time

Start _____ Stop _____

Sample Collection Time

Start _____ Stop _____

Volume of water in well

2" well:

height: 0 x .163 = 0

Volume of water removed _____ gallons _____ liters _____

Was well purged dry Yes _____ No _____

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
Final Readings	1445	10/7/2015	20.90	7.62	0.299			
			* C	units	mS/cm			

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Wednesday, October 07, 2015
Project No.:	1584-98-081	Purge Time:	
Source Well:	4112-SW5	Sample Date:	Wednesday, October 07, 2015
	Below monitor well II-3	Sample Time:	1245
Locked?:	Yes: x No:	Weather:	Sunny
Sampled By:	Gary Simcox	Air Temp:	65 *F

Water Level & Well Data

Depth to water from measuring point: _____ feet

Depth to well bottom from measuring point: _____ feet

Height of water column: 0.00 feet

Measuring point: _____

Well Purging & Sample Collection

Purge Method _____

Sample Method _____

Purge Rate _____ gpm

Control Settings On: _____ sec.

Off: _____ sec.

Pressure: _____ psi

Purge Time

Start _____ Stop _____

Sample Collection Time

Start _____ Stop _____

Volume of water in well

2" well:

height: 0 x .163 = 0

Volume of water removed 0.0 gallons x liters _____

Was well purged dry Yes _____ No x

Field Analyses

*Stabilization Parameters

	Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
Final Readings	124	10/7/2015	19.20	7.19	0.284				
			* C	units	mS/cm				

Appendix II – Laboratory Analytical Reports

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Friday, October 16, 2015

City of Greensboro (CI034)

Attn: Lewis Walker

2503 White Street

Greensboro, NC 27405

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: White Street Landfill MNA
ENCO Workorder(s): C512358

Dear Lewis Walker,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, October 7, 2015.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 25.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4103-II9 | **Lab ID: C512358-01** | **Sampled: 10/07/15 08:15** | **Received: 10/07/15 13:15**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	11/04/15	10/09/15 11:12	10/9/2015 11:12
EPA 310.2	10/21/15	10/09/15 09:21	10/9/2015 14:18
EPA 353.2	07/02/18	10/12/15 11:15	10/12/2015 11:37
EPA 8260B	10/21/15	10/13/15 12:41	10/14/2015 07:10
RSK-175	10/21/15	10/13/15 10:45	10/13/2015 22:24
SM 4500S2 D-2000	10/14/15	10/10/15 15:54	10/10/2015 16:30
SM 5310B-2000	11/04/15	10/12/15 10:30	10/12/2015 14:09
Volatile Fatty Acids	10/21/15	10/15/15 08:44	10/15/2015 13:00

Client ID: 4103-II9 | **Lab ID: C512358-01RE1** | **Sampled: 10/07/15 08:15** | **Received: 10/07/15 13:15**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
RSK-175	10/21/15	10/13/15 10:45	10/14/2015 13:06

Client ID: 4103-SMW3 | **Lab ID: C512358-02** | **Sampled: 10/07/15 10:20** | **Received: 10/07/15 13:15**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	11/04/15	10/09/15 11:12	10/9/2015 11:12
EPA 310.2	10/21/15	10/09/15 09:21	10/9/2015 14:19
EPA 353.2	07/02/18	10/12/15 11:15	10/12/2015 11:37
EPA 8260B	10/21/15	10/13/15 12:41	10/14/2015 07:39
RSK-175	10/21/15	10/13/15 10:45	10/13/2015 22:41
SM 4500S2 D-2000	10/14/15	10/10/15 15:54	10/10/2015 16:30
SM 5310B-2000	11/04/15	10/12/15 10:30	10/12/2015 14:09
Volatile Fatty Acids	10/21/15	10/15/15 08:44	10/15/2015 13:49

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 4103-II9 **Lab ID: C512358-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	5.8		1	0.13	1.0	5	ug/L	EPA 8260B	
Chloride	14000		1	2200	5000	NE	ug/L	EPA 300.0	
Chlorobenzene	0.60	J	1	0.17	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	13		1	0.15	1.0	5	ug/L	EPA 8260B	
Methane	41.3		1	0.440	1.00	NE	ug/L	RSK-175	
Sulfate as SO4	12000	J	1	2900	5000	250000	ug/L	EPA 300.0	
Total Alkalinity as CaCO3	490000	D	4	56000	60000	NE	ug/L	EPA 310.2	
Total Organic Carbon	2000		1	340	1000	NE	ug/L	SM 5310B-2000	
Vinyl chloride	2.2		1	0.32	1.0	1	ug/L	EPA 8260B	

Client ID: 4103-II9 **Lab ID: C512358-01RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Carbon dioxide	755000	D	10	2100	25000	NE	ug/L	RSK-175	

Client ID: 4103-SMW3 **Lab ID: C512358-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	3.7	J	1	0.13	1.0	5	ug/L	EPA 8260B	
Carbon dioxide	176000		1	210	2500	NE	ug/L	RSK-175	
Chloride	8000		1	2200	5000	NE	ug/L	EPA 300.0	
cis-1,2-Dichloroethene	7.6		1	0.15	1.0	5	ug/L	EPA 8260B	
Methane	32.0		1	0.440	1.00	NE	ug/L	RSK-175	
Nitrate as N	990	J	1	25	100	10000	ug/L	EPA 353.2	
Sulfate as SO4	21000	J	1	2900	5000	250000	ug/L	EPA 300.0	
Total Alkalinity as CaCO3	190000	D	3	42000	45000	NE	ug/L	EPA 310.2	
Total Organic Carbon	1100		1	340	1000	NE	ug/L	SM 5310B-2000	
Vinyl chloride	0.72	J	1	0.32	1.0	1	ug/L	EPA 8260B	

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ANALYTICAL RESULTS

Description: 4103-II9 | **Lab Sample ID:** C512358-01 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/07/15 08:15 | **Work Order:** C512358

Project: White Street Landfill MNA | **Sampled By:** Bradley Keyse

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/14/15 07:10	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/14/15 07:10	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/14/15 07:10	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/14/15 07:10	REF	
1,1-Dichloroethane [75-34-3] ^	**5.8**		ug/L	1	0.13	1.0	5	EPA 8260B	10/14/15 07:10	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/14/15 07:10	REF	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/14/15 07:10	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/14/15 07:10	REF	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/14/15 07:10	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/14/15 07:10	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/14/15 07:10	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/14/15 07:10	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/14/15 07:10	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/14/15 07:10	REF	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/14/15 07:10	REF	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/14/15 07:10	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/14/15 07:10	REF	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/14/15 07:10	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/14/15 07:10	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/14/15 07:10	REF	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/14/15 07:10	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/14/15 07:10	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/14/15 07:10	REF	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/14/15 07:10	REF	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/14/15 07:10	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/14/15 07:10	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/15 07:10	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/14/15 07:10	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/15 07:10	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/14/15 07:10	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/14/15 07:10	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/14/15 07:10	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/15 07:10	REF	
Chlorobenzene [108-90-7] ^	**0.60**	J	ug/L	1	0.17	1.0	3	EPA 8260B	10/14/15 07:10	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/14/15 07:10	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/14/15 07:10	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/14/15 07:10	REF	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/14/15 07:10	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**13**		ug/L	1	0.15	1.0	5	EPA 8260B	10/14/15 07:10	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/14/15 07:10	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/14/15 07:10	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/14/15 07:10	REF	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/14/15 07:10	REF	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/14/15 07:10	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/14/15 07:10	REF	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	10/14/15 07:10	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/14/15 07:10	REF	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/14/15 07:10	REF	

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Description: 4103-II9 | **Lab Sample ID:** C512358-01 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/07/15 08:15 | **Work Order:** C512358

Project: White Street Landfill MNA | **Sampled By:** Bradley Keyse

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/14/15 07:10	REF	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/14/15 07:10	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/14/15 07:10	REF	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/14/15 07:10	REF	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/14/15 07:10	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/14/15 07:10	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/15 07:10	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/14/15 07:10	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/14/15 07:10	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/15 07:10	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/14/15 07:10	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/15 07:10	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/14/15 07:10	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/14/15 07:10	REF	
Vinyl chloride [75-01-4] ^	**2.2**		ug/L	1	0.32	1.0	1	EPA 8260B	10/14/15 07:10	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/14/15 07:10	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*96 %*	*53-136*	*5J13019*	*EPA 8260B*	*10/14/15 07:10*	*REF*	
Dibromofluoromethane	*54*	*1*	*50.0*	*108 %*	*67-129*	*5J13019*	*EPA 8260B*	*10/14/15 07:10*	*REF*	
Toluene-d8	*48*	*1*	*50.0*	*97 %*	*59-134*	*5J13019*	*EPA 8260B*	*10/14/15 07:10*	*REF*	

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Description: 4103-II9
Matrix: Ground Water
Project: White Street Landfill MNA

Lab Sample ID: C512358-01
Sampled: 10/07/15 08:15
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512358

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] ^	**14000**		ug/L	1	2200	5000	NE	EPA 300.0	10/09/15 11:12	MMR	
Nitrate as N [14797-55-8] ^	25	U	ug/L	1	25	100	10000	EPA 353.2	10/12/15 11:37	JLJ	
Sulfate as SO4 [14808-79-8] ^	**12000**	J	ug/L	1	2900	5000	250000	EPA 300.0	10/09/15 11:12	MMR	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM 4500S2 D-2000	10/10/15 16:30	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**490000**	D	ug/L	4	56000	60000	NE	EPA 310.2	10/09/15 14:18	JLJ	

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Description: 4103-II9
Matrix: Ground Water
Project: White Street Landfill MNA

Lab Sample ID: C512358-01
Sampled: 10/07/15 08:15
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512358

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	0.16	U	mg/L	1	0.16	0.20	NE	Volatile Fatty Acids	10/15/15 13:00	jfi	
Butyric Acid [107-92-6]	0.089	U	mg/L	1	0.089	0.10	NE	Volatile Fatty Acids	10/15/15 13:00	jfi	
Hexanoic Acid [142-62-1]	0.26	U	mg/L	1	0.26	0.50		Volatile Fatty Acids	10/15/15 13:00	jfi	
iso-Hexanoic Acid [646-07-1]	0.44	U	mg/L	1	0.44	0.50		Volatile Fatty Acids	10/15/15 13:00	jfi	
iso-Pentanoic Acid [503-74-2]	0.18	U	mg/L	1	0.18	0.20		Volatile Fatty Acids	10/15/15 13:00	jfi	J-02
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid) [50-21-5/594-61-6]	0.095	U	mg/L	1	0.095	0.14		Volatile Fatty Acids	10/15/15 13:00	jfi	
Pentanoic Acid [109-52-4]	0.11	U	mg/L	1	0.11	0.20		Volatile Fatty Acids	10/15/15 13:00	jfi	
Propionic Acid [79-09-4]	0.065	U	mg/L	1	0.065	0.10	NE	Volatile Fatty Acids	10/15/15 13:00	jfi	
Pyruvic Acid [127-17-3]	0.012	U	mg/L	1	0.012	0.070	NE	Volatile Fatty Acids	10/15/15 13:00	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*16*	*1*	*20.0*	*80 %*	*50-150*	*5J15015*	*Volatile Fatty Acids*	*10/15/15 13:00*	*jfi*	

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Description:	4103-II9	**Lab Sample ID:**	C512358-01	**Received:**	10/07/15 13:15
Matrix:	Ground Water	**Sampled:**	10/07/15 08:15	**Work Order:**	C512358
Project:	White Street Landfill MNA	**Sampled By:**	Bradley Keyse		

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon^	**2000**		ug/L	1	340	1000	NE	SM 5310B-2000	10/12/15 14:09	RSA	

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Description: 4103-II9
Matrix: Ground Water
Project: White Street Landfill MNA

Lab Sample ID: C512358-01
Sampled: 10/07/15 08:15
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512358

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**755000**	D	ug/L	10	2100	25000	NE	RSK-175	10/14/15 13:06	LTS	
Ethane [74-84-0]	0.470	U	ug/L	1	0.470	2.00	NE	RSK-175	10/13/15 22:24	LTS	
Ethene [74-85-1]	0.620	U	ug/L	1	0.620	3.00	NE	RSK-175	10/13/15 22:24	LTS	
Methane [74-82-8]	**41.3**		ug/L	1	0.440	1.00	NE	RSK-175	10/13/15 22:24	LTS	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-SMW3 | **Lab Sample ID:** C512358-02 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/07/15 10:20 | **Work Order:** C512358

Project: White Street Landfill MNA | **Sampled By:** Bradley Keyse

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/14/15 07:39	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/14/15 07:39	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/14/15 07:39	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/14/15 07:39	REF	
1,1-Dichloroethane [75-34-3] ^	**3.7**	J	ug/L	1	0.13	1.0	5	EPA 8260B	10/14/15 07:39	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/14/15 07:39	REF	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/14/15 07:39	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/14/15 07:39	REF	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/14/15 07:39	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/14/15 07:39	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/14/15 07:39	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/14/15 07:39	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/14/15 07:39	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/14/15 07:39	REF	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/14/15 07:39	REF	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/14/15 07:39	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/14/15 07:39	REF	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/14/15 07:39	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/14/15 07:39	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/14/15 07:39	REF	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/14/15 07:39	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/14/15 07:39	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/14/15 07:39	REF	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/14/15 07:39	REF	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/14/15 07:39	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/14/15 07:39	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/15 07:39	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/14/15 07:39	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/15 07:39	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/14/15 07:39	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/14/15 07:39	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/14/15 07:39	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/15 07:39	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/14/15 07:39	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/14/15 07:39	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/14/15 07:39	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/14/15 07:39	REF	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/14/15 07:39	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**7.6**		ug/L	1	0.15	1.0	5	EPA 8260B	10/14/15 07:39	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/14/15 07:39	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/14/15 07:39	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/14/15 07:39	REF	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/14/15 07:39	REF	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/14/15 07:39	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/14/15 07:39	REF	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	10/14/15 07:39	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/14/15 07:39	REF	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/14/15 07:39	REF	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/14/15 07:39	REF	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/14/15 07:39	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/14/15 07:39	REF	

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Description: 4103-SMW3 | **Lab Sample ID:** C512358-02 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/07/15 10:20 | **Work Order:** C512358

Project: White Street Landfill MNA | **Sampled By:** Bradley Keyse

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/14/15 07:39	REF	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/14/15 07:39	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/14/15 07:39	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/15 07:39	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/14/15 07:39	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/14/15 07:39	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/15 07:39	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/14/15 07:39	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/15 07:39	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/14/15 07:39	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/14/15 07:39	REF	
Vinyl chloride [75-01-4] ^	**0.72**	J	ug/L	1	0.32	1.0	1	EPA 8260B	10/14/15 07:39	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/14/15 07:39	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*97 %*	*53-136*	*5J13019*	*EPA 8260B*	*10/14/15 07:39*	*REF*	
Dibromofluoromethane	*54*	*1*	*50.0*	*109 %*	*67-129*	*5J13019*	*EPA 8260B*	*10/14/15 07:39*	*REF*	
Toluene-d8	*50*	*1*	*50.0*	*99 %*	*59-134*	*5J13019*	*EPA 8260B*	*10/14/15 07:39*	*REF*	

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Description: 4103-SMW3
Matrix: Ground Water
Project: White Street Landfill MNA

Lab Sample ID: C512358-02
Sampled: 10/07/15 10:20
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512358

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] ^	**8000**		ug/L	1	2200	5000	NE	EPA 300.0	10/09/15 11:12	MMR	
Nitrate as N [14797-55-8] ^	**990**	J	ug/L	1	25	100	10000	EPA 353.2	10/12/15 11:37	JLJ	
Sulfate as SO4 [14808-79-8] ^	**21000**	J	ug/L	1	2900	5000	250000	EPA 300.0	10/09/15 11:12	MMR	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM 4500S2 D-2000	10/10/15 16:30	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**190000**	D	ug/L	3	42000	45000	NE	EPA 310.2	10/09/15 14:19	JLJ	

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Description: 4103-SMW3
Matrix: Ground Water
Project: White Street Landfill MNA

Lab Sample ID: C512358-02
Sampled: 10/07/15 10:20
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512358

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	0.16	U	mg/L	1	0.16	0.20	NE	Volatile Fatty Acids	10/15/15 13:49	jfi	
Butyric Acid [107-92-6]	0.089	U	mg/L	1	0.089	0.10	NE	Volatile Fatty Acids	10/15/15 13:49	jfi	
Hexanoic Acid [142-62-1]	0.26	U	mg/L	1	0.26	0.50		Volatile Fatty Acids	10/15/15 13:49	jfi	
iso-Hexanoic Acid [646-07-1]	0.44	U	mg/L	1	0.44	0.50		Volatile Fatty Acids	10/15/15 13:49	jfi	
iso-Pentanoic Acid [503-74-2]	0.18	U	mg/L	1	0.18	0.20		Volatile Fatty Acids	10/15/15 13:49	jfi	J-02
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid) [50-21-5/594-61-6]	0.095	U	mg/L	1	0.095	0.14		Volatile Fatty Acids	10/15/15 13:49	jfi	
Pentanoic Acid [109-52-4]	0.11	U	mg/L	1	0.11	0.20		Volatile Fatty Acids	10/15/15 13:49	jfi	
Propionic Acid [79-09-4]	0.065	U	mg/L	1	0.065	0.10	NE	Volatile Fatty Acids	10/15/15 13:49	jfi	
Pyruvic Acid [127-17-3]	0.012	U	mg/L	1	0.012	0.070	NE	Volatile Fatty Acids	10/15/15 13:49	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*16*	*1*	*20.0*	*82 %*	*50-150*	*5J15015*	*Volatile Fatty Acids*	*10/15/15 13:49*	*jfi*	

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Description: 4103-SMW3
Matrix: Ground Water
Project: White Street Landfill MNA

Lab Sample ID: C512358-02
Sampled: 10/07/15 10:20
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512358

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon^	**1100**		ug/L	1	340	1000	NE	SM 5310B-2000	10/12/15 14:09	RSA	

www.encolabs.com

Description: 4103-SMW3
Matrix: Ground Water
Project: White Street Landfill MNA

Lab Sample ID: C512358-02
Sampled: 10/07/15 10:20
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512358

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**176000**		ug/L	1	210	2500	NE	RSK-175	10/13/15 22:41	LTS	
Ethane [74-84-0]	0.470	U	ug/L	1	0.470	2.00	NE	RSK-175	10/13/15 22:41	LTS	
Ethene [74-85-1]	0.620	U	ug/L	1	0.620	3.00	NE	RSK-175	10/13/15 22:41	LTS	
Methane [74-82-8]	**32.0**		ug/L	1	0.440	1.00	NE	RSK-175	10/13/15 22:41	LTS	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5J13019 - EPA 5030B_MS

Blank (5J13019-BLK1) Prepared: 10/13/2015 12:41 Analyzed: 10/13/2015 23:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Hexachlorobutadiene	0.22	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5J13019 - EPA 5030B_MS

Blank (5J13019-BLK1) Continued Prepared: 10/13/2015 12:41 Analyzed: 10/13/2015 23:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*97*	*53-136*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*105*	*67-129*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*99*	*59-134*			

LCS (5J13019-BS1) Prepared: 10/13/2015 12:41 Analyzed: 10/14/2015 00:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		107	75-133			
Benzene	21		1.0	ug/L	20.0		104	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		98	83-117			
Toluene	21		1.0	ug/L	20.0		106	71-118			
Trichloroethene	19		1.0	ug/L	20.0		94	74-119			
Surrogate: 4-Bromofluorobenzene	*50*			*ug/L*	*50.0*		*100*	*53-136*			
Surrogate: Dibromofluoromethane	*51*			*ug/L*	*50.0*		*102*	*67-129*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*96*	*59-134*			

Matrix Spike (5J13019-MS1) Prepared: 10/13/2015 12:41 Analyzed: 10/14/2015 00:29

Source: C513226-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	108	75-133			
Benzene	21		1.0	ug/L	20.0	0.15 U	106	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	100	83-117			
Toluene	21		1.0	ug/L	20.0	0.14 U	106	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	98	74-119			
Surrogate: 4-Bromofluorobenzene	*50*			*ug/L*	*50.0*		*100*	*53-136*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*99*	*67-129*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*98*	*59-134*			

Matrix Spike Dup (5J13019-MSD1) Prepared: 10/13/2015 12:41 Analyzed: 10/14/2015 00:58

Source: C513226-02

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5J13019 - EPA 5030B_MS

Matrix Spike Dup (5J13019-MSD1) Continued Prepared: 10/13/2015 12:41 Analyzed: 10/14/2015 00:58

Source: C513226-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.21 U	106	75-133	2	20	
Benzene	21		1.0	ug/L	20.0	0.15 U	105	81-134	0.9	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	98	83-117	2	16	
Toluene	21		1.0	ug/L	20.0	0.14 U	105	71-118	0.8	17	
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	95	74-119	3	22	
Surrogate: 4-Bromofluorobenzene	*50*			*ug/L*	*50.0*		*100*	*53-136*			
Surrogate: Dibromofluoromethane	*51*			*ug/L*	*50.0*		*102*	*67-129*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*98*	*59-134*			

Classical Chemistry Parameters - Quality Control

Batch 5J07036 - NO PREP

LCS (5J07036-BS1) Prepared: 10/07/2015 14:42 Analyzed: 10/07/2015 15:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0		0.10	mg/L	1.00		100	90-110			

Matrix Spike (5J07036-MS1) Prepared: 10/07/2015 14:42 Analyzed: 10/07/2015 15:45

Source: C512357-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1000		100	ug/L	1000	17 U	100	90-110			

Matrix Spike Dup (5J07036-MSD1) Prepared: 10/07/2015 14:42 Analyzed: 10/07/2015 15:49

Source: C512357-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1000		100	ug/L	1000	17 U	102	90-110	2	10	

Batch 5J08022 - NO PREP

LCS (5J08022-BS1) Prepared: 10/08/2015 10:51 Analyzed: 10/08/2015 13:02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.2		0.10	mg/L	1.25		98	90-110			

Matrix Spike (5J08022-MS1) Prepared: 10/08/2015 10:51 Analyzed: 10/08/2015 13:04

Source: C511171-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	620		100	ug/L	513	110	100	90-110			

Matrix Spike (5J08022-MS2) Prepared: 10/08/2015 10:51 Analyzed: 10/08/2015 14:32

Source: C511922-01RE1

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 5J08022 - NO PREP

Matrix Spike (5J08022-MS2) Continued Prepared: 10/08/2015 10:51 Analyzed: 10/08/2015 14:32

Source: C511922-01RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	5400		1000	ug/L	5000	410 U	108	90-110			

Matrix Spike Dup (5J08022-MSD1) Prepared: 10/08/2015 10:51 Analyzed: 10/08/2015 13:08

Source: C511171-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	620		100	ug/L	513	110	99	90-110	0.2	10	

Batch 5J09018 - NO PREP

Blank (5J09018-BLK1) Prepared: 10/09/2015 09:21 Analyzed: 10/09/2015 14:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	14000	U	15000	ug/L							

LCS (5J09018-BS1) Prepared: 10/09/2015 09:21 Analyzed: 10/09/2015 14:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	100		15	mg/L	100		101	80-120			

Matrix Spike (5J09018-MS1) Prepared: 10/09/2015 09:21 Analyzed: 10/09/2015 15:45

Source: C511922-01RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	1200000		150000	ug/L	400000	870000	93	80-120			

Matrix Spike Dup (5J09018-MSD1) Prepared: 10/09/2015 09:21 Analyzed: 10/09/2015 15:46

Source: C511922-01RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	1300000		150000	ug/L	400000	870000	98	80-120	2	25	

Batch 5J09028 - NO PREP

Blank (5J09028-BLK1) Prepared & Analyzed: 10/09/2015 11:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	2200	U	5000	ug/L							
Sulfate as SO4	2900	U	5000	ug/L							

LCS (5J09028-BS1) Prepared & Analyzed: 10/09/2015 11:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	49000		5000	ug/L	50000		97	90-110			
Sulfate as SO4	49000		5000	ug/L	50000		99	90-110			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 5J09028 - NO PREP

Matrix Spike (5J09028-MS1) Prepared & Analyzed: 10/09/2015 11:12

Source: C511171-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	41000		5000	ug/L	20000	19000	107	90-110			
Sulfate as SO4	60000		5000	ug/L	20000	39000	106	90-110			

Matrix Spike (5J09028-MS2) Prepared & Analyzed: 10/09/2015 11:12

Source: C511922-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	55000		5000	ug/L	20000	240000	NR	90-110			QM-05
Sulfate as SO4	35000		5000	ug/L	20000	110000	NR	90-110			QM-05

Matrix Spike Dup (5J09028-MSD1) Prepared & Analyzed: 10/09/2015 11:12

Source: C511171-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	40000		5000	ug/L	20000	19000	104	90-110	2	10	
Sulfate as SO4	59000		5000	ug/L	20000	39000	104	90-110	0.9	10	

Batch 5J10007 - NO PREP

Blank (5J10007-BLK1) Prepared: 10/10/2015 15:54 Analyzed: 10/10/2015 16:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	10	U	100	ug/L							

LCS (5J10007-BS1) Prepared: 10/10/2015 15:54 Analyzed: 10/10/2015 16:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.43		0.10	mg/L	0.401		108	80-120			

Duplicate (5J10007-DUP1) Prepared: 10/10/2015 15:54 Analyzed: 10/10/2015 16:30

Source: C512354-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	10	U	100	ug/L		10 U				25	

Matrix Spike (5J10007-MS1) Prepared: 10/10/2015 15:54 Analyzed: 10/10/2015 16:30

Source: C512539-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	360		100	ug/L	401	10 U	91	80-120			

Matrix Spike Dup (5J10007-MSD1) Prepared: 10/10/2015 15:54 Analyzed: 10/10/2015 16:30

Source: C512539-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 5J10007 - NO PREP

Matrix Spike Dup (5J10007-MSD1) Continued Prepared: 10/10/2015 15:54 Analyzed: 10/10/2015 16:30

Source: C512539-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	360		100	ug/L	401	10 U	90	80-120	1	25	

QUALITY CONTROL

Dissolved Gases by GC - Quality Control

Batch 5J13010 - Same

Blank (5J13010-BLK1) Prepared: 10/13/2015 10:18 Analyzed: 10/13/2015 18:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	210	U	2500	ug/L							
Ethane	0.470	U	2.00	ug/L							
Ethene	0.620	U	3.00	ug/L							
Methane	0.440	U	1.00	ug/L							

LCS (5J13010-BS1) Prepared: 10/13/2015 10:18 Analyzed: 10/13/2015 17:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	46100		2.50	mg/L	50400		91	80-120			
Ethane	512		0.00200	mg/L	500		102	80-120			
Ethene	522		0.00300	mg/L	500		104	80-120			
Methane	518		0.00100	mg/L	500		104	80-120			

LCS Dup (5J13010-BSD1) Prepared: 10/13/2015 10:18 Analyzed: 10/13/2015 17:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	46400		2.50	mg/L	50400		92	80-120	0.8	25	
Ethane	514		0.00200	mg/L	500		103	80-120	0.4	25	
Ethene	527		0.00300	mg/L	500		105	80-120	0.8	25	
Methane	504		0.00100	mg/L	500		101	80-120	3	25	

Duplicate (5J13010-DUP1) Prepared: 10/13/2015 10:18 Analyzed: 10/13/2015 22:08

Source: B504303-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	213000		2500	ug/L		208000			2	25	
Ethane	0.470	U	2.00	ug/L		0.470 U				25	
Ethene	0.620	U	3.00	ug/L		0.620 U				25	
Methane	0.440	U	1.00	ug/L		2220				25	

QUALITY CONTROL

Volatile Fatty Acids by HPLC - Quality Control

Batch 5J15015 - NA

Blank (5J15015-BLK1) Prepared: 10/15/2015 08:44 Analyzed: 10/15/2015 10:12

QUALITY CONTROL

Volatile Fatty Acids by HPLC - Quality Control

Batch 5J15015 - NA

Blank (5J15015-BLK1) Continued Prepared: 10/15/2015 08:44 Analyzed: 10/15/2015 10:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	0.16	U	0.20	mg/L							
Butyric Acid	0.089	U	0.10	mg/L							
Hexanoic Acid	0.26	U	0.50	mg/L							
iso-Hexanoic Acid	0.44	U	0.50	mg/L							
iso-Pentanoic Acid	0.18	U	0.20	mg/L							
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid	0.095	U	0.14	mg/L							
Pentanoic Acid	0.11	U	0.20	mg/L							
Propionic Acid	0.065	U	0.10	mg/L							
Pyruvic Acid	0.012	U	0.070	mg/L							
Surrogate: Trimethylacetic acid	*23*			*mg/L*	*20.0*		*113*	*50-150*			

LCS (5J15015-BS1) Prepared: 10/15/2015 08:44 Analyzed: 10/15/2015 10:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	22		0.20	mg/L	20.0		111	70-130			
Butyric Acid	17		0.10	mg/L	20.0		83	70-130			
Hexanoic Acid	23		0.50	mg/L	20.0		114	70-130			
iso-Hexanoic Acid	25		0.50	mg/L	20.0		124	70-130			
iso-Pentanoic Acid	13		0.20	mg/L	20.0		64	70-130			J-02
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid	50		0.14	mg/L	40.0		126	0-200			
Pentanoic Acid	20		0.20	mg/L	20.0		99	70-130			
Propionic Acid	21		0.10	mg/L	20.0		106	70-130			
Pyruvic Acid	14		0.070	mg/L	20.0		71	70-130			
Surrogate: Trimethylacetic acid	*16*			*mg/L*	*20.0*		*81*	*50-150*			

LCS Dup (5J15015-BSD1) Prepared: 10/15/2015 08:44 Analyzed: 10/15/2015 10:59

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	22		0.20	mg/L	20.0		112	70-130	1	25	
Butyric Acid	16		0.10	mg/L	20.0		82	70-130	1	25	
Hexanoic Acid	23		0.50	mg/L	20.0		113	70-130	0.9	25	
iso-Hexanoic Acid	24		0.50	mg/L	20.0		120	70-130	3	25	
iso-Pentanoic Acid	13		0.20	mg/L	20.0		64	70-130	0.2	25	J-02
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid	50		0.14	mg/L	40.0		126	0-200	0.06	200	
Pentanoic Acid	20		0.20	mg/L	20.0		101	70-130	1	25	
Propionic Acid	23		0.10	mg/L	20.0		113	70-130	6	25	
Pyruvic Acid	14		0.070	mg/L	20.0		71	70-130	0.5	25	
Surrogate: Trimethylacetic acid	*16*			*mg/L*	*20.0*		*81*	*50-150*			

Classical Chemistry Parameters - Quality Control

Batch 5J12016 - NO PREP

Blank (5J12016-BLK1) Prepared: 10/12/2015 10:30 Analyzed: 10/12/2015 14:09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	340	U	1000	ug/L							

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 5J12016 - NO PREP

LCS (5J12016-BS1) Prepared: 10/12/2015 10:30 Analyzed: 10/12/2015 14:09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	44000		1000	ug/L	40000		110	85-115			

Matrix Spike (5J12016-MS1) Prepared: 10/12/2015 10:30 Analyzed: 10/12/2015 14:09

Source: A506457-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	63000		1000	ug/L	40000	22000	102	85-115			

Matrix Spike Dup (5J12016-MSD1) Prepared: 10/12/2015 10:30 Analyzed: 10/12/2015 14:09

Source: A506457-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	59000		1000	ug/L	40000	22000	93	85-115	6	21	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
J-02	Result is estimated due to bias in the associated laboratory control sample (LCS).
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 111
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

www.encolabs.com

Client Name: City of Greensboro (CI034)	Project Number: [none]
Address: 2503 White Street	Project Name/Desc: White Street Landfill MNA
City/ST/Zip: Greensboro, NC 27405	PO # / Billing Info:
Tel: (336) 373-4188 / Fax:	Reporting Contact: Lewis Walker
Sampler(s) Name, Affiliation (Print): BRADLEY KOYSE / SEME	Billing Contact: Angie Wade
Sampler(s) Signature: [signature]	Site Location / Time Zone:

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: C512358

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 2	Alkalinity 310.2,Chloride 300 Nitrite as N 353.2	Fatty Acids	Nitrate Calc 353.2	NOX 353.2	RSK 175 + CO2	Sulfate 300	Sulfide SM4500-S D	TOC SM5310B		Sample Comments
	~~4103-II1~~				GW	11	X	X	X	X	X	X	X	X	X	BK	
	4103-II9	10/7/15	8:15		GW	11	X	X	X	X	X	X	X	X	X		
	4103-SMW3	10/7/15	10:20		GW	11	X	X	X	X	X	X	X	X	X		
	~~4103-MW14~~				GW	11	X	X	X	X	X	X	X	X	X	BK	

<-- Total # of Containers

Sample Kit Prepared By: RAY	Date/Time: 9/24	Relinquished By: [signature] / SEME	Date/Time: 10-7-15 / 11:30
Comments/Special Reporting Requirements: * Time Verified on Container RAY 10/7/15		Relinquished By: [signature]	Date/Time: 10/7/15 13:00
		Relinquished By:	Date/Time:

Received By: L.W.	Date/Time: 10/7/15 11:30	
Received By: Rachel	Date/Time: 10/7/15 13:15	
Received By:	Date/Time:	

Cooler #'s & Temp on Receipt: C-124 2.6°c

Condition Upon Receipt: ✓ Acceptable ___ Unacceptable

Matrix: GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Sample Preservation Verification

ENCO Cary

Work Order:	C512358	Project:	White Street Landfill MNA
Client:	City of Greensboro (CI034)	Project #:	[none]
Logged In:	07-Oct-15 13:48	Logged By:	Rachel Ann Yonish

C512358-01

Cont	Type	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
B	250mLP+H2SO4	<2	Y / N / NA	Y / N / NA		
C	250mLP+ZnAc+NaOH	>9	Y / N / NA	Y / N / NA		

C512358-02

Cont	Type	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
B	250mLP+H2SO4	<2	Y / N / NA	Y / N / NA		
C	250mLP+ZnAc+NaOH	>9	Y / N / NA	Y / N / NA		

	Reagent Name	ID		Reagent Name	ID		Reagent Name	ID
1			3			5		
2			4			6		

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Monday, October 19, 2015

City of Greensboro (CI034)

Attn: Lewis Walker

2503 White Street

Greensboro, NC 27405

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: White Street Landfill App IIs
ENCO Workorder(s): C512353

Dear Lewis Walker,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, October 6, 2015.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 89.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4103-II2 **Lab ID: C512353-01** **Sampled: 10/05/15 11:30** **Received: 10/06/15 13:15**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	04/02/16		10/08/15	08:50	10/12/2015 14:55
EPA 6020A	04/02/16		10/07/15	08:48	10/12/2015 11:36
EPA 7470A	11/02/15		10/12/15	08:24	10/13/2015 11:00
EPA 8081B	10/12/15	11/17/15	10/08/15	10:58	10/14/2015 18:36
EPA 8082A	10/04/16	11/17/15	10/08/15	11:30	10/14/2015 18:36
EPA 8151A	10/12/15	11/21/15	10/12/15	10:30	10/13/2015 14:38
EPA 8260B	10/19/15		10/08/15	10:34	10/9/2015 17:57
EPA 8270D	10/12/15	11/16/15	10/07/15	13:00	10/17/2015 02:47
EPA 9014	10/19/15		10/08/15	13:42	10/12/2015 15:43
SM 4500S2 D-2000	10/12/15		10/10/15	11:33	10/10/2015 11:50

Client ID: 4103-II3 **Lab ID: C512353-02** **Sampled: 10/06/15 08:50** **Received: 10/06/15 13:15**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	04/03/16		10/08/15	08:50	10/12/2015 14:01
EPA 6020A	04/03/16		10/07/15	08:48	10/12/2015 11:58
EPA 7470A	11/03/15		10/12/15	08:24	10/13/2015 11:02
EPA 8081B	10/13/15	11/17/15	10/08/15	10:58	10/14/2015 18:49
EPA 8082A	10/05/16	11/17/15	10/08/15	11:30	10/14/2015 18:49
EPA 8151A	10/13/15	11/21/15	10/12/15	10:30	10/13/2015 15:04
EPA 8260B	10/20/15		10/12/15	15:07	10/13/2015 04:06
EPA 8270D	10/13/15	11/16/15	10/07/15	13:00	10/17/2015 03:17
EPA 9014	10/20/15		10/08/15	13:42	10/12/2015 15:45
SM 4500S2 D-2000	10/13/15		10/10/15	11:33	10/10/2015 11:50

Client ID: 4103-II3B **Lab ID: C512353-03** **Sampled: 10/05/15 15:45** **Received: 10/06/15 13:15**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	04/02/16		10/08/15	08:50	10/12/2015 14:58
EPA 6020A	04/02/16		10/07/15	08:48	10/12/2015 12:02
EPA 7470A	11/02/15		10/12/15	08:24	10/13/2015 10:33
EPA 8081B	10/12/15	11/17/15	10/08/15	10:58	10/14/2015 19:03
EPA 8082A	10/04/16	11/17/15	10/08/15	11:30	10/14/2015 19:03
EPA 8151A	10/12/15	11/21/15	10/12/15	10:30	10/13/2015 15:29
EPA 8260B	10/19/15		10/08/15	10:34	10/9/2015 18:26
EPA 8270D	10/12/15	11/16/15	10/07/15	13:00	10/17/2015 03:46
EPA 9014	10/19/15		10/08/15	13:42	10/12/2015 15:47
SM 4500S2 D-2000	10/12/15		10/10/15	11:33	10/10/2015 11:50

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Client ID: 4103-II4A	Lab ID: C512353-04	Sampled: 10/05/15 17:35	Received: 10/06/15 13:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	04/02/16		10/08/15	08:50	10/12/2015	15:01
EPA 6020A	04/02/16		10/07/15	08:48	10/12/2015	12:23
EPA 7470A	11/02/15		10/12/15	08:24	10/13/2015	11:08
EPA 8081B	10/12/15	11/17/15	10/08/15	10:58	10/14/2015	19:16
EPA 8082A	10/04/16	11/17/15	10/08/15	11:30	10/14/2015	19:16
EPA 8151A	10/12/15	11/21/15	10/12/15	10:30	10/13/2015	15:55
EPA 8260B	10/19/15		10/12/15	15:07	10/13/2015	04:35
EPA 8270D	10/12/15	11/16/15	10/07/15	13:00	10/17/2015	04:15
EPA 9014	10/19/15		10/08/15	13:42	10/12/2015	15:48
SM 4500S2 D-2000	10/12/15		10/10/15	11:33	10/10/2015	11:50

Client ID: 4103-II5	Lab ID: C512353-05	Sampled: 10/05/15 13:30	Received: 10/06/15 13:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	04/02/16		10/08/15	08:50	10/12/2015	15:03
EPA 6020A	04/02/16		10/07/15	08:48	10/12/2015	12:27
EPA 7470A	11/02/15		10/12/15	08:24	10/13/2015	11:10
EPA 8081B	10/12/15	11/17/15	10/08/15	10:58	10/14/2015	19:29
EPA 8082A	10/04/16	11/17/15	10/08/15	11:30	10/14/2015	19:29
EPA 8151A	10/12/15	11/21/15	10/12/15	10:30	10/13/2015	16:20
EPA 8260B	10/19/15		10/12/15	15:07	10/13/2015	05:03
EPA 8270D	10/12/15	11/16/15	10/07/15	13:00	10/17/2015	04:45
EPA 9014	10/19/15		10/08/15	13:42	10/12/2015	15:50
SM 4500S2 D-2000	10/12/15		10/10/15	11:33	10/10/2015	11:50

Client ID: 4103-II6	Lab ID: C512353-06	Sampled: 10/06/15 10:25	Received: 10/06/15 13:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	04/03/16		10/08/15	08:50	10/12/2015	15:06
EPA 6020A	04/03/16		10/07/15	08:48	10/12/2015	12:31
EPA 7470A	11/03/15		10/12/15	08:24	10/13/2015	11:12
EPA 8081B	10/13/15	11/17/15	10/08/15	10:58	10/14/2015	19:42
EPA 8082A	10/05/16	11/17/15	10/08/15	11:30	10/14/2015	19:42
EPA 8151A	10/13/15	11/21/15	10/12/15	10:30	10/13/2015	16:46
EPA 8260B	10/20/15		10/12/15	15:07	10/13/2015	05:32
EPA 8270D	10/13/15	11/16/15	10/07/15	13:00	10/17/2015	05:14
EPA 9014	10/20/15		10/13/15	12:16	10/15/2015	10:35
SM 4500S2 D-2000	10/13/15		10/10/15	11:33	10/10/2015	11:50

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 4103-II2 **Lab ID: C512353-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,2-Dichloroethane	0.98	J	1	0.21	1.0	1	ug/L	EPA 8260B	
Antimony - Total	2.31	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	57.1	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Bis(2-ethylhexyl)phthalate	2.2	J	1	1.7	5.0	15	ug/L	EPA 8270D	
Chloromethane	1.3		1	0.13	1.0	1	ug/L	EPA 8260B	
Phenol	2.4	J	1	1.4	10	10	ug/L	EPA 8270D	J-02
Vanadium - Total	1.90	J	1	1.40	10.0	25	ug/L	EPA 6010C	

Client ID: 4103-II3 **Lab ID: C512353-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	14		1	0.13	1.0	5	ug/L	EPA 8260B	
Antimony - Total	0.344	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	201		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	1.3		1	0.15	1.0	1	ug/L	EPA 8260B	
Chloroethane	1.5	J	1	0.23	1.0	10	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	0.85	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	12.9		1	1.10	10.0	10	ug/L	EPA 6010C	
Mercury - Total	0.361		1	0.170	0.200	0.2	ug/L	EPA 7470A	
Nickel - Total	12.1	J	1	1.80	10.0	50	ug/L	EPA 6010C	

Client ID: 4103-II3B **Lab ID: C512353-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	178		1	1.00	10.0	100	ug/L	EPA 6010C	
Cobalt - Total	2.22	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	3.75	J	1	1.80	10.0	50	ug/L	EPA 6010C	

Client ID: 4103-II4A **Lab ID: C512353-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.99	J	1	0.13	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	1.2		1	0.19	1.0	1	ug/L	EPA 8260B	
Barium - Total	187		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	0.73	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	2.8	J	1	0.17	1.0	3	ug/L	EPA 8260B	
Chloroethane	1.2	J	1	0.23	1.0	10	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	0.60	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Lead - Total	4.86	J	1	3.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	33.4	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Tetrahydrofuran	7.2		1	0.80	1.0	NE	ug/L	EPA 8260B	
Vanadium - Total	2.52	J	1	1.40	10.0	25	ug/L	EPA 6010C	

Client ID: 4103-II5 **Lab ID: C512353-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	102		1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	5.02	J	1	1.40	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	3.46	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	3.17	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.87	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Phenol	2.9	J	1	1.4	10	10	ug/L	EPA 8270D	J-02

Client ID: 4103-II5 **Lab ID: C512353-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Vanadium - Total	9.63	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	7.74	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4103-II6 **Lab ID: C512353-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dichlorobenzene	2.8		1	0.19	1.0	1	ug/L	EPA 8260B	
Barium - Total	269		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	1.4		1	0.15	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	3.6		1	0.17	1.0	3	ug/L	EPA 8260B	
Chromium - Total	2.47	J	1	1.40	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	21.2		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	9.18	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	4.05	J	1	3.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	32.5	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Phenol	1.5	J	1	1.4	10	10	ug/L	EPA 8270D	J-02
Tetrahydrofuran	32		1	0.80	1.0	NE	ug/L	EPA 8260B	
Vanadium - Total	3.18	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Xylenes (Total)	0.77	J	1	0.45	3.0	5	ug/L	EPA 8260B	
Zinc - Total	5.12	J	1	3.80	10.0	10	ug/L	EPA 6010C	

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ANALYTICAL RESULTS

Description: 4103-II2 | **Lab Sample ID:** C512353-01 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/05/15 11:30 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/09/15 17:57	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/09/15 17:57	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/09/15 17:57	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/09/15 17:57	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/09/15 17:57	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/09/15 17:57	REF	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/09/15 17:57	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/09/15 17:57	REF	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/09/15 17:57	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/09/15 17:57	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/09/15 17:57	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/09/15 17:57	REF	
1,2-Dichloroethane [107-06-2] ^	**0.98**	J	ug/L	1	0.21	1.0	1	EPA 8260B	10/09/15 17:57	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/09/15 17:57	REF	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/09/15 17:57	REF	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/09/15 17:57	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/09/15 17:57	REF	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/09/15 17:57	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/09/15 17:57	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/09/15 17:57	REF	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/09/15 17:57	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/09/15 17:57	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/09/15 17:57	REF	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/09/15 17:57	REF	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/09/15 17:57	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/09/15 17:57	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/09/15 17:57	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/09/15 17:57	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/09/15 17:57	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/09/15 17:57	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/09/15 17:57	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/09/15 17:57	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/09/15 17:57	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/09/15 17:57	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/09/15 17:57	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/09/15 17:57	REF	
Chloromethane [74-87-3] ^	**1.3**		ug/L	1	0.13	1.0	1	EPA 8260B	10/09/15 17:57	REF	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/09/15 17:57	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/09/15 17:57	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/09/15 17:57	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/09/15 17:57	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/09/15 17:57	REF	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/09/15 17:57	REF	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/09/15 17:57	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/09/15 17:57	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/09/15 17:57	REF	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/09/15 17:57	REF	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/09/15 17:57	REF	

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Description: 4103-II2 | **Lab Sample ID:** C512353-01 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/05/15 11:30 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/09/15 17:57	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/09/15 17:57	REF	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/09/15 17:57	REF	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/09/15 17:57	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/09/15 17:57	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/09/15 17:57	REF	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	10/09/15 17:57	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/09/15 17:57	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/09/15 17:57	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/09/15 17:57	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/09/15 17:57	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/09/15 17:57	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/09/15 17:57	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/09/15 17:57	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/09/15 17:57	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/09/15 17:57	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*96 %*	*53-136*	*5J08019*	*EPA 8260B*	*10/09/15 17:57*	*REF*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*67-129*	*5J08019*	*EPA 8260B*	*10/09/15 17:57*	*REF*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*59-134*	*5J08019*	*EPA 8260B*	*10/09/15 17:57*	*REF*	

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Description: 4103-II2 | **Lab Sample ID:** C512353-01 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/05/15 11:30 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/17/15 02:47	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/17/15 02:47	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/17/15 02:47	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/17/15 02:47	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/17/15 02:47	DFM	QV-01
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/17/15 02:47	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/17/15 02:47	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 02:47	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 02:47	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 02:47	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 02:47	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/17/15 02:47	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/17/15 02:47	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 02:47	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/17/15 02:47	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/17/15 02:47	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 02:47	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 02:47	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/17/15 02:47	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/17/15 02:47	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 02:47	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/17/15 02:47	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/17/15 02:47	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 02:47	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/17/15 02:47	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/17/15 02:47	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/17/15 02:47	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 02:47	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/17/15 02:47	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/17/15 02:47	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 02:47	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/17/15 02:47	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/17/15 02:47	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/17/15 02:47	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/17/15 02:47	DFM	QV-01
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/17/15 02:47	DFM	QV-01
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/17/15 02:47	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 02:47	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 02:47	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 02:47	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 02:47	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/17/15 02:47	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 02:47	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 02:47	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 02:47	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/17/15 02:47	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 02:47	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/17/15 02:47	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 02:47	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 02:47	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 02:47	DFM	

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Description: 4103-II2 | **Lab Sample ID:** C512353-01 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/05/15 11:30 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	**2.2**	J	ug/L	1	1.7	5.0	15	EPA 8270D	10/17/15 02:47	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/17/15 02:47	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 02:47	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/17/15 02:47	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 02:47	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/17/15 02:47	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 02:47	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/17/15 02:47	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/17/15 02:47	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 02:47	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/17/15 02:47	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/17/15 02:47	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 02:47	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/17/15 02:47	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/17/15 02:47	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/17/15 02:47	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/17/15 02:47	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 02:47	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 02:47	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 02:47	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 02:47	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/17/15 02:47	DFM	QV-01
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/17/15 02:47	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/17/15 02:47	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 02:47	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 02:47	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/17/15 02:47	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/17/15 02:47	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 02:47	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/17/15 02:47	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 02:47	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/17/15 02:47	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 02:47	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 02:47	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/17/15 02:47	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/17/15 02:47	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/17/15 02:47	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/17/15 02:47	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 02:47	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 02:47	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 02:47	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/17/15 02:47	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 02:47	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 02:47	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/17/15 02:47	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/17/15 02:47	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 02:47	DFM	
Phenol [108-95-2] ^	**2.4**	J	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 02:47	DFM	J-02
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 02:47	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 02:47	DFM	

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Description: 4103-II2 | **Lab Sample ID:** C512353-01 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/05/15 11:30 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/17/15 02:47	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 02:47	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/17/15 02:47	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*86*	*1*	*100*	*86 %*	*10-179*	*5J06032*	*EPA 8270D*	*10/17/15 02:47*	*DFM*	
2-Fluorobiphenyl	*40*	*1*	*50.0*	*81 %*	*10-149*	*5J06032*	*EPA 8270D*	*10/17/15 02:47*	*DFM*	
2-Fluorophenol	*56*	*1*	*100*	*56 %*	*10-110*	*5J06032*	*EPA 8270D*	*10/17/15 02:47*	*DFM*	
Nitrobenzene-d5	*40*	*1*	*50.0*	*81 %*	*10-149*	*5J06032*	*EPA 8270D*	*10/17/15 02:47*	*DFM*	
Phenol-d5	*46*	*1*	*100*	*46 %*	*10-88*	*5J06032*	*EPA 8270D*	*10/17/15 02:47*	*DFM*	
Terphenyl-d14	*42*	*1*	*50.0*	*84 %*	*10-188*	*5J06032*	*EPA 8270D*	*10/17/15 02:47*	*DFM*	

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Description: 4103-II2 | **Lab Sample ID:** C512353-01 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/05/15 11:30 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	10/14/15 18:36	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	10/14/15 18:36	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	10/14/15 18:36	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	10/14/15 18:36	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/15 18:36	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/15 18:36	MWC	QV-01
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	10/14/15 18:36	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	10/14/15 18:36	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	10/14/15 18:36	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	10/14/15 18:36	MWC	QV-01
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	10/14/15 18:36	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	10/14/15 18:36	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	10/14/15 18:36	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	10/14/15 18:36	MWC	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	10/14/15 18:36	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	10/14/15 18:36	MWC	QV-01
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	10/14/15 18:36	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	10/14/15 18:36	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	10/14/15 18:36	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	10/14/15 18:36	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	10/14/15 18:36	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*2.6*	*1*	*1.00*	*258 %*	*44-134*	*5J08015*	*EPA 8081B*	*10/14/15 18:36*	*MWC*	*QS-06*
Decachlorobiphenyl	*0.98*	*1*	*1.00*	*98 %*	*37-149*	*5J08015*	*EPA 8081B*	*10/14/15 18:36*	*MWC*	

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Description: 4103-II2 | **Lab Sample ID:** C512353-01 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/05/15 11:30 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/14/15 18:36	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/15 18:36	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/15 18:36	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/14/15 18:36	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/15 18:36	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/15 18:36	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.0*	*1*	*1.00*	*100 %*	*45-151*	*5J08017*	*EPA 8082A*	*10/14/15 18:36*	*MWC*	
Decachlorobiphenyl	*0.98*	*1*	*1.00*	*98 %*	*42-159*	*5J08017*	*EPA 8082A*	*10/14/15 18:36*	*MWC*	

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Description: 4103-II2
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512353-01
Sampled: 10/05/15 11:30
Sampled By: Bradley Keyse

Received: 10/06/15 13:15
Work Order: C512353

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/13/15 11:00	BAM	

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Description: 4103-II2 | **Lab Sample ID:** C512353-01 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/05/15 11:30 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**2.31**	J	ug/L	1	0.220	2.00	6	EPA 6020A	10/12/15 11:36	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	10/12/15 14:55	JDH	
Barium [7440-39-3] ^	**57.1**	J	ug/L	1	1.00	10.0	100	EPA 6010C	10/12/15 14:55	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/12/15 14:55	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/12/15 14:55	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	10/12/15 14:55	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	10/12/15 14:55	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/12/15 14:55	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	10/12/15 14:55	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	10/12/15 14:55	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/12/15 11:36	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/12/15 14:55	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/12/15 11:36	VLO	
Tin [7440-31-5] ^	2.40	U	ug/L	1	2.40	10.0	100	EPA 6010C	10/12/15 14:55	JDH	
Vanadium [7440-62-2] ^	**1.90**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/12/15 14:55	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	10/12/15 14:55	JDH	

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Description: 4103-II2
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512353-01
Sampled: 10/05/15 11:30
Sampled By: Bradley Keyse

Received: 10/06/15 13:15
Work Order: C512353

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/12/15 15:43	JLJ	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/10/15 11:50	JOC	

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Description: 4103-II2 | **Lab Sample ID:** C512353-01 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/05/15 11:30 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50		EPA 8151A	10/13/15 14:38	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/13/15 14:38	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/13/15 14:38	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/13/15 14:38	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/13/15 14:38	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.2*	*1*	*2.04*	*109 %*	*48-151*	*5J12002*	*EPA 8151A*	*10/13/15 14:38*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-II3 | **Lab Sample ID:** C512353-02 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 08:50 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/13/15 04:06	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/13/15 04:06	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/13/15 04:06	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/15 04:06	REF	
1,1-Dichloroethane [75-34-3] ^	**14**		ug/L	1	0.13	1.0	5	EPA 8260B	10/13/15 04:06	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/15 04:06	REF	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/15 04:06	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/15 04:06	REF	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/15 04:06	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/13/15 04:06	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/13/15 04:06	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/13/15 04:06	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/13/15 04:06	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/13/15 04:06	REF	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/15 04:06	REF	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/13/15 04:06	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/13/15 04:06	REF	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/13/15 04:06	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/13/15 04:06	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/13/15 04:06	REF	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/15 04:06	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/13/15 04:06	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/13/15 04:06	REF	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/13/15 04:06	REF	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/13/15 04:06	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/13/15 04:06	REF	
Benzene [71-43-2] ^	**1.3**		ug/L	1	0.15	1.0	1	EPA 8260B	10/13/15 04:06	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/13/15 04:06	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/15 04:06	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/13/15 04:06	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/15 04:06	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/13/15 04:06	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/15 04:06	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/15 04:06	REF	
Chloroethane [75-00-3] ^	**1.5**	J	ug/L	1	0.23	1.0	10	EPA 8260B	10/13/15 04:06	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/13/15 04:06	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/15 04:06	REF	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/13/15 04:06	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**0.85**	J	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/15 04:06	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/13/15 04:06	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/15 04:06	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/13/15 04:06	REF	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/13/15 04:06	REF	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/13/15 04:06	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/15 04:06	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/13/15 04:06	REF	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/13/15 04:06	REF	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/13/15 04:06	REF	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/13/15 04:06	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/15 04:06	REF	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/15 04:06	REF	

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Description: 4103-II3 | **Lab Sample ID:** C512353-02 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 08:50 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/13/15 04:06	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/13/15 04:06	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/15 04:06	REF	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	10/13/15 04:06	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/15 04:06	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/15 04:06	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/15 04:06	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/13/15 04:06	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/15 04:06	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/13/15 04:06	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/13/15 04:06	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/13/15 04:06	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/13/15 04:06	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*95 %*	*53-136*	*5J12031*	*EPA 8260B*	*10/13/15 04:06*	*REF*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*67-129*	*5J12031*	*EPA 8260B*	*10/13/15 04:06*	*REF*	
Toluene-d8	*49*	*1*	*50.0*	*98 %*	*59-134*	*5J12031*	*EPA 8260B*	*10/13/15 04:06*	*REF*	

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Description: 4103-II3 | **Lab Sample ID:** C512353-02 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 08:50 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/17/15 03:17	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/17/15 03:17	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/17/15 03:17	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/17/15 03:17	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/17/15 03:17	DFM	QV-01
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/17/15 03:17	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/17/15 03:17	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 03:17	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 03:17	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 03:17	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:17	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/17/15 03:17	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/17/15 03:17	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 03:17	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/17/15 03:17	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/17/15 03:17	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 03:17	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 03:17	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/17/15 03:17	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/17/15 03:17	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 03:17	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/17/15 03:17	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/17/15 03:17	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 03:17	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/17/15 03:17	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/17/15 03:17	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/17/15 03:17	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:17	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/17/15 03:17	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/17/15 03:17	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 03:17	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/17/15 03:17	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/17/15 03:17	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/17/15 03:17	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/17/15 03:17	DFM	QV-01
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/17/15 03:17	DFM	QV-01
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/17/15 03:17	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 03:17	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 03:17	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 03:17	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:17	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/17/15 03:17	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:17	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:17	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 03:17	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/17/15 03:17	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:17	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/17/15 03:17	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 03:17	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 03:17	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:17	DFM	

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Description: 4103-II3 | **Lab Sample ID:** C512353-02 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 08:50 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/17/15 03:17	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/17/15 03:17	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 03:17	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/17/15 03:17	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 03:17	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/17/15 03:17	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 03:17	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/17/15 03:17	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/17/15 03:17	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 03:17	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/17/15 03:17	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/17/15 03:17	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 03:17	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/17/15 03:17	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/17/15 03:17	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/17/15 03:17	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/17/15 03:17	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 03:17	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 03:17	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:17	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 03:17	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/17/15 03:17	DFM	QV-01
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/17/15 03:17	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/17/15 03:17	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:17	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:17	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/17/15 03:17	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/17/15 03:17	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 03:17	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/17/15 03:17	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 03:17	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/17/15 03:17	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:17	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 03:17	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/17/15 03:17	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/17/15 03:17	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/17/15 03:17	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/17/15 03:17	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:17	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:17	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 03:17	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/17/15 03:17	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 03:17	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:17	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/17/15 03:17	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/17/15 03:17	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 03:17	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 03:17	DFM	QL-02
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 03:17	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 03:17	DFM	

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Description: 4103-II3 | **Lab Sample ID:** C512353-02 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 08:50 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/17/15 03:17	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 03:17	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/17/15 03:17	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*90*	*1*	*100*	*90 %*	*10-179*	*5J06032*	*EPA 8270D*	*10/17/15 03:17*	*DFM*	
2-Fluorobiphenyl	*38*	*1*	*50.0*	*77 %*	*10-149*	*5J06032*	*EPA 8270D*	*10/17/15 03:17*	*DFM*	
2-Fluorophenol	*54*	*1*	*100*	*54 %*	*10-110*	*5J06032*	*EPA 8270D*	*10/17/15 03:17*	*DFM*	
Nitrobenzene-d5	*38*	*1*	*50.0*	*77 %*	*10-149*	*5J06032*	*EPA 8270D*	*10/17/15 03:17*	*DFM*	
Phenol-d5	*45*	*1*	*100*	*45 %*	*10-88*	*5J06032*	*EPA 8270D*	*10/17/15 03:17*	*DFM*	
Terphenyl-d14	*44*	*1*	*50.0*	*89 %*	*10-188*	*5J06032*	*EPA 8270D*	*10/17/15 03:17*	*DFM*	

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Description: 4103-II3 | **Lab Sample ID:** C512353-02 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 08:50 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	10/14/15 18:49	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	10/14/15 18:49	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	10/14/15 18:49	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	10/14/15 18:49	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/15 18:49	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/15 18:49	MWC	QV-01
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	10/14/15 18:49	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	10/14/15 18:49	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	10/14/15 18:49	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	10/14/15 18:49	MWC	QV-01
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	10/14/15 18:49	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	10/14/15 18:49	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	10/14/15 18:49	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	10/14/15 18:49	MWC	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	10/14/15 18:49	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	10/14/15 18:49	MWC	QV-01
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	10/14/15 18:49	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	10/14/15 18:49	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	10/14/15 18:49	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	10/14/15 18:49	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	10/14/15 18:49	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.84*	*1*	*1.00*	*84 %*	*44-134*	*5J08015*	*EPA 8081B*	*10/14/15 18:49*	*MWC*	
Decachlorobiphenyl	*0.88*	*1*	*1.00*	*88 %*	*37-149*	*5J08015*	*EPA 8081B*	*10/14/15 18:49*	*MWC*	

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Description: 4103-II3 | **Lab Sample ID:** C512353-02 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 08:50 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/14/15 18:49	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/15 18:49	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/15 18:49	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/14/15 18:49	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/15 18:49	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/15 18:49	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.84*	*1*	*1.00*	*84 %*	*45-151*	*5J08017*	*EPA 8082A*	*10/14/15 18:49*	*MWC*	
Decachlorobiphenyl	*0.88*	*1*	*1.00*	*88 %*	*42-159*	*5J08017*	*EPA 8082A*	*10/14/15 18:49*	*MWC*	

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Description:	4103-II3	**Lab Sample ID:**	C512353-02	**Received:**	10/06/15 13:15
Matrix:	Ground Water	**Sampled:**	10/06/15 08:50	**Work Order:**	C512353
Project:	White Street Landfill App IIs	**Sampled By:**	Bradley Keyse		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**0.361**		ug/L	1	0.170	0.200	0.2	EPA 7470A	10/13/15 11:02	BAM	

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Description: 4103-II3 | **Lab Sample ID:** C512353-02 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 08:50 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.344**	J	ug/L	1	0.220	2.00	6	EPA 6020A	10/12/15 11:58	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	10/12/15 14:01	JDH	
Barium [7440-39-3] ^	**201**		ug/L	1	1.00	10.0	100	EPA 6010C	10/12/15 14:01	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/12/15 14:01	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/12/15 14:01	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	10/12/15 14:01	JDH	
Cobalt [7440-48-4] ^	**12.9**		ug/L	1	1.10	10.0	10	EPA 6010C	10/12/15 14:01	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/12/15 14:01	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	10/12/15 14:01	JDH	
Nickel [7440-02-0] ^	**12.1**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/12/15 14:01	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/12/15 11:58	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/12/15 14:01	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/12/15 11:58	VLO	
Tin [7440-31-5] ^	2.40	U	ug/L	1	2.40	10.0	100	EPA 6010C	10/12/15 14:01	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	10/12/15 14:01	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	10/12/15 14:01	JDH	

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Description: 4103-II3
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512353-02
Sampled: 10/06/15 08:50
Sampled By: Bradley Keyse

Received: 10/06/15 13:15
Work Order: C512353

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/12/15 15:45	JLJ	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/10/15 11:50	JOC	

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Description: 4103-II3
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512353-02
Sampled: 10/06/15 08:50
Sampled By: Bradley Keyse

Received: 10/06/15 13:15
Work Order: C512353

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50		EPA 8151A	10/13/15 15:04	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/13/15 15:04	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/13/15 15:04	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/13/15 15:04	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/13/15 15:04	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.6*	*1*	*2.00*	*78 %*	*48-151*	*5J12002*	*EPA 8151A*	*10/13/15 15:04*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-II3B
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512353-03
Sampled: 10/05/15 15:45
Sampled By: Bradley Keyse

Received: 10/06/15 13:15
Work Order: C512353

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/09/15 18:26	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/09/15 18:26	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/09/15 18:26	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/09/15 18:26	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/09/15 18:26	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/09/15 18:26	REF	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/09/15 18:26	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/09/15 18:26	REF	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/09/15 18:26	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/09/15 18:26	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/09/15 18:26	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/09/15 18:26	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/09/15 18:26	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/09/15 18:26	REF	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/09/15 18:26	REF	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/09/15 18:26	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/09/15 18:26	REF	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/09/15 18:26	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/09/15 18:26	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/09/15 18:26	REF	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/09/15 18:26	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/09/15 18:26	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/09/15 18:26	REF	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/09/15 18:26	REF	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/09/15 18:26	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/09/15 18:26	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/09/15 18:26	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/09/15 18:26	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/09/15 18:26	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/09/15 18:26	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/09/15 18:26	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/09/15 18:26	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/09/15 18:26	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/09/15 18:26	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/09/15 18:26	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/09/15 18:26	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/09/15 18:26	REF	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/09/15 18:26	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/09/15 18:26	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/09/15 18:26	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/09/15 18:26	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/09/15 18:26	REF	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/09/15 18:26	REF	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/09/15 18:26	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/09/15 18:26	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/09/15 18:26	REF	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/09/15 18:26	REF	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/09/15 18:26	REF	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/09/15 18:26	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/09/15 18:26	REF	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/09/15 18:26	REF	

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Description: 4103-II3B
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512353-03
Sampled: 10/05/15 15:45
Sampled By: Bradley Keyse

Received: 10/06/15 13:15
Work Order: C512353

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/09/15 18:26	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/09/15 18:26	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/09/15 18:26	REF	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	10/09/15 18:26	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/09/15 18:26	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/09/15 18:26	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/09/15 18:26	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/09/15 18:26	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/09/15 18:26	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/09/15 18:26	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/09/15 18:26	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/09/15 18:26	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/09/15 18:26	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*53-136*	*5J08019*	*EPA 8260B*	*10/09/15 18:26*	*REF*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*67-129*	*5J08019*	*EPA 8260B*	*10/09/15 18:26*	*REF*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*59-134*	*5J08019*	*EPA 8260B*	*10/09/15 18:26*	*REF*	

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Description: 4103-II3B | **Lab Sample ID:** C512353-03 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/05/15 15:45 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/17/15 03:46	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/17/15 03:46	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/17/15 03:46	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/17/15 03:46	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/17/15 03:46	DFM	QV-01
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/17/15 03:46	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/17/15 03:46	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 03:46	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 03:46	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 03:46	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:46	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/17/15 03:46	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/17/15 03:46	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 03:46	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/17/15 03:46	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/17/15 03:46	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 03:46	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 03:46	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/17/15 03:46	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/17/15 03:46	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 03:46	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/17/15 03:46	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/17/15 03:46	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 03:46	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/17/15 03:46	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/17/15 03:46	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/17/15 03:46	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:46	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/17/15 03:46	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/17/15 03:46	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 03:46	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/17/15 03:46	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/17/15 03:46	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/17/15 03:46	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/17/15 03:46	DFM	QV-01
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/17/15 03:46	DFM	QV-01
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/17/15 03:46	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 03:46	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 03:46	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 03:46	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:46	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/17/15 03:46	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:46	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:46	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 03:46	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/17/15 03:46	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:46	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/17/15 03:46	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 03:46	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 03:46	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:46	DFM	

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Description: 4103-II3B | **Lab Sample ID:** C512353-03 | **Received:** 10/06/15 13:15
Matrix: Ground Water | **Sampled:** 10/05/15 15:45 | **Work Order:** C512353
Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/17/15 03:46	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/17/15 03:46	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 03:46	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/17/15 03:46	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 03:46	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/17/15 03:46	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 03:46	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/17/15 03:46	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/17/15 03:46	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 03:46	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/17/15 03:46	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/17/15 03:46	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 03:46	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/17/15 03:46	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/17/15 03:46	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/17/15 03:46	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/17/15 03:46	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 03:46	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 03:46	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:46	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 03:46	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/17/15 03:46	DFM	QV-01
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/17/15 03:46	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/17/15 03:46	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:46	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:46	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/17/15 03:46	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/17/15 03:46	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 03:46	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/17/15 03:46	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 03:46	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/17/15 03:46	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:46	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 03:46	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/17/15 03:46	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/17/15 03:46	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/17/15 03:46	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/17/15 03:46	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:46	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:46	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 03:46	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/17/15 03:46	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 03:46	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 03:46	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/17/15 03:46	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/17/15 03:46	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 03:46	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 03:46	DFM	QL-02
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 03:46	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 03:46	DFM	

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Description: 4103-II3B
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512353-03
Sampled: 10/05/15 15:45
Sampled By: Bradley Keyse

Received: 10/06/15 13:15
Work Order: C512353

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/17/15 03:46	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 03:46	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/17/15 03:46	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*54*	*1*	*100*	*54 %*	*10-179*	*5J06032*	*EPA 8270D*	*10/17/15 03:46*	*DFM*	
2-Fluorobiphenyl	*27*	*1*	*50.0*	*55 %*	*10-149*	*5J06032*	*EPA 8270D*	*10/17/15 03:46*	*DFM*	
2-Fluorophenol	*39*	*1*	*100*	*39 %*	*10-110*	*5J06032*	*EPA 8270D*	*10/17/15 03:46*	*DFM*	
Nitrobenzene-d5	*27*	*1*	*50.0*	*54 %*	*10-149*	*5J06032*	*EPA 8270D*	*10/17/15 03:46*	*DFM*	
Phenol-d5	*31*	*1*	*100*	*31 %*	*10-88*	*5J06032*	*EPA 8270D*	*10/17/15 03:46*	*DFM*	
Terphenyl-d14	*29*	*1*	*50.0*	*58 %*	*10-188*	*5J06032*	*EPA 8270D*	*10/17/15 03:46*	*DFM*	

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Description: 4103-II3B
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512353-03
Sampled: 10/05/15 15:45
Sampled By: Bradley Keyse

Received: 10/06/15 13:15
Work Order: C512353

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	10/14/15 19:03	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	10/14/15 19:03	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	10/14/15 19:03	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	10/14/15 19:03	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/15 19:03	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/15 19:03	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	10/14/15 19:03	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	10/14/15 19:03	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	10/14/15 19:03	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	10/14/15 19:03	MWC	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	10/14/15 19:03	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	10/14/15 19:03	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	10/14/15 19:03	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	10/14/15 19:03	MWC	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	10/14/15 19:03	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	10/14/15 19:03	MWC	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	10/14/15 19:03	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	10/14/15 19:03	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	10/14/15 19:03	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	10/14/15 19:03	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	10/14/15 19:03	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.84*	*1*	*1.00*	*84 %*	*44-134*	*5J08015*	*EPA 8081B*	*10/14/15 19:03*	*MWC*	
Decachlorobiphenyl	*0.90*	*1*	*1.00*	*90 %*	*37-149*	*5J08015*	*EPA 8081B*	*10/14/15 19:03*	*MWC*	

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Description: 4103-II3B
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512353-03
Sampled: 10/05/15 15:45
Sampled By: Bradley Keyse

Received: 10/06/15 13:15
Work Order: C512353

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/14/15 19:03	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/15 19:03	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/15 19:03	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/14/15 19:03	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/15 19:03	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/15 19:03	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.84*	*1*	*1.00*	*84 %*	*45-151*	*5J08017*	*EPA 8082A*	*10/14/15 19:03*	*MWC*	
Decachlorobiphenyl	*0.90*	*1*	*1.00*	*90 %*	*42-159*	*5J08017*	*EPA 8082A*	*10/14/15 19:03*	*MWC*	

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Description:	4103-II3B	**Lab Sample ID:**	C512353-03	**Received:**	10/06/15 13:15
Matrix:	Ground Water	**Sampled:**	10/05/15 15:45	**Work Order:**	C512353
Project:	White Street Landfill App IIs	**Sampled By:**	Bradley Keyse		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/13/15 10:33	BAM	

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Description: 4103-II3B
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512353-03
Sampled: 10/05/15 15:45
Sampled By: Bradley Keyse

Received: 10/06/15 13:15
Work Order: C512353

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/12/15 12:02	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	10/12/15 14:58	JDH	
Barium [7440-39-3] ^	**178**		ug/L	1	1.00	10.0	100	EPA 6010C	10/12/15 14:58	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/12/15 14:58	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/12/15 14:58	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	10/12/15 14:58	JDH	
Cobalt [7440-48-4] ^	**2.22**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/12/15 14:58	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/12/15 14:58	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	10/12/15 14:58	JDH	
Nickel [7440-02-0] ^	**3.75**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/12/15 14:58	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/12/15 12:02	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/12/15 14:58	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/12/15 12:02	VLO	
Tin [7440-31-5] ^	2.40	U	ug/L	1	2.40	10.0	100	EPA 6010C	10/12/15 14:58	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	10/12/15 14:58	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	10/12/15 14:58	JDH	

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Description: 4103-II3B
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512353-03
Sampled: 10/05/15 15:45
Sampled By: Bradley Keyse

Received: 10/06/15 13:15
Work Order: C512353

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/12/15 15:47	JLJ	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/10/15 11:50	JOC	

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Description: 4103-II3B
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512353-03
Sampled: 10/05/15 15:45
Sampled By: Bradley Keyse

Received: 10/06/15 13:15
Work Order: C512353

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50		EPA 8151A	10/13/15 15:29	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/13/15 15:29	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/13/15 15:29	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/13/15 15:29	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/13/15 15:29	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.3*	*1*	*2.00*	*64 %*	*48-151*	*5J12002*	*EPA 8151A*	*10/13/15 15:29*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-II4A
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512353-04
Sampled: 10/05/15 17:35
Sampled By: Bradley Keyse

Received: 10/06/15 13:15
Work Order: C512353

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/13/15 04:35	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/13/15 04:35	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/13/15 04:35	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/15 04:35	REF	
1,1-Dichloroethane [75-34-3] ^	**0.99**	J	ug/L	1	0.13	1.0	5	EPA 8260B	10/13/15 04:35	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/15 04:35	REF	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/15 04:35	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/15 04:35	REF	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/15 04:35	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/13/15 04:35	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/13/15 04:35	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/13/15 04:35	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/13/15 04:35	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/13/15 04:35	REF	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/15 04:35	REF	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/13/15 04:35	REF	
1,4-Dichlorobenzene [106-46-7] ^	**1.2**		ug/L	1	0.19	1.0	1	EPA 8260B	10/13/15 04:35	REF	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/13/15 04:35	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/13/15 04:35	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/13/15 04:35	REF	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/15 04:35	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/13/15 04:35	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/13/15 04:35	REF	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/13/15 04:35	REF	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/13/15 04:35	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/13/15 04:35	REF	
Benzene [71-43-2] ^	**0.73**	J	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/15 04:35	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/13/15 04:35	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/15 04:35	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/13/15 04:35	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/15 04:35	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/13/15 04:35	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/15 04:35	REF	
Chlorobenzene [108-90-7] ^	**2.8**	J	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/15 04:35	REF	
Chloroethane [75-00-3] ^	**1.2**	J	ug/L	1	0.23	1.0	10	EPA 8260B	10/13/15 04:35	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/13/15 04:35	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/15 04:35	REF	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/13/15 04:35	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**0.60**	J	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/15 04:35	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/13/15 04:35	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/15 04:35	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/13/15 04:35	REF	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/13/15 04:35	REF	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/13/15 04:35	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/15 04:35	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/13/15 04:35	REF	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/13/15 04:35	REF	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/13/15 04:35	REF	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/13/15 04:35	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/15 04:35	REF	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/15 04:35	REF	

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Description: 4103-II4A
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512353-04
Sampled: 10/05/15 17:35
Sampled By: Bradley Keyse

Received: 10/06/15 13:15
Work Order: C512353

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/13/15 04:35	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/13/15 04:35	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/15 04:35	REF	
Tetrahydrofuran [109-99-9] ^	**7.2**		ug/L	1	0.80	1.0		EPA 8260B	10/13/15 04:35	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/15 04:35	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/15 04:35	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/15 04:35	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/13/15 04:35	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/15 04:35	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/13/15 04:35	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/13/15 04:35	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/13/15 04:35	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/13/15 04:35	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*96 %*	*53-136*	*5J12031*	*EPA 8260B*	*10/13/15 04:35*	*REF*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*67-129*	*5J12031*	*EPA 8260B*	*10/13/15 04:35*	*REF*	
Toluene-d8	*49*	*1*	*50.0*	*97 %*	*59-134*	*5J12031*	*EPA 8260B*	*10/13/15 04:35*	*REF*	

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Description: 4103-II4A | **Lab Sample ID:** C512353-04 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/05/15 17:35 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/17/15 04:15	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/17/15 04:15	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/17/15 04:15	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/17/15 04:15	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/17/15 04:15	DFM	QV-01
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/17/15 04:15	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/17/15 04:15	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 04:15	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 04:15	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 04:15	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:15	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/17/15 04:15	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/17/15 04:15	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 04:15	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/17/15 04:15	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/17/15 04:15	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 04:15	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 04:15	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/17/15 04:15	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/17/15 04:15	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 04:15	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/17/15 04:15	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/17/15 04:15	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 04:15	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/17/15 04:15	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/17/15 04:15	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/17/15 04:15	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:15	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/17/15 04:15	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/17/15 04:15	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 04:15	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/17/15 04:15	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/17/15 04:15	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/17/15 04:15	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/17/15 04:15	DFM	QV-01
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/17/15 04:15	DFM	QV-01
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/17/15 04:15	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 04:15	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 04:15	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 04:15	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:15	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/17/15 04:15	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:15	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:15	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 04:15	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/17/15 04:15	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:15	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/17/15 04:15	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 04:15	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 04:15	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:15	DFM	

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Description: 4103-II4A | **Lab Sample ID:** C512353-04 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/05/15 17:35 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/17/15 04:15	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/17/15 04:15	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 04:15	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/17/15 04:15	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 04:15	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/17/15 04:15	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 04:15	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/17/15 04:15	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/17/15 04:15	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 04:15	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/17/15 04:15	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/17/15 04:15	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 04:15	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/17/15 04:15	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/17/15 04:15	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/17/15 04:15	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/17/15 04:15	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 04:15	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 04:15	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:15	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 04:15	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/17/15 04:15	DFM	QV-01
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/17/15 04:15	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/17/15 04:15	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:15	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:15	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/17/15 04:15	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/17/15 04:15	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 04:15	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/17/15 04:15	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 04:15	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/17/15 04:15	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:15	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 04:15	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/17/15 04:15	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/17/15 04:15	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/17/15 04:15	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/17/15 04:15	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:15	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:15	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 04:15	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/17/15 04:15	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 04:15	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:15	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/17/15 04:15	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/17/15 04:15	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 04:15	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 04:15	DFM	QL-02
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 04:15	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 04:15	DFM	

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Description: 4103-II4A
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512353-04
Sampled: 10/05/15 17:35
Sampled By: Bradley Keyse

Received: 10/06/15 13:15
Work Order: C512353

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/17/15 04:15	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 04:15	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/17/15 04:15	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*86*	*1*	*100*	*86 %*	*10-179*	*5J06032*	*EPA 8270D*	*10/17/15 04:15*	*DFM*	
2-Fluorobiphenyl	*36*	*1*	*50.0*	*72 %*	*10-149*	*5J06032*	*EPA 8270D*	*10/17/15 04:15*	*DFM*	
2-Fluorophenol	*52*	*1*	*100*	*52 %*	*10-110*	*5J06032*	*EPA 8270D*	*10/17/15 04:15*	*DFM*	
Nitrobenzene-d5	*36*	*1*	*50.0*	*72 %*	*10-149*	*5J06032*	*EPA 8270D*	*10/17/15 04:15*	*DFM*	
Phenol-d5	*44*	*1*	*100*	*44 %*	*10-88*	*5J06032*	*EPA 8270D*	*10/17/15 04:15*	*DFM*	
Terphenyl-d14	*36*	*1*	*50.0*	*73 %*	*10-188*	*5J06032*	*EPA 8270D*	*10/17/15 04:15*	*DFM*	

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Description: 4103-II4A
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512353-04
Sampled: 10/05/15 17:35
Sampled By: Bradley Keyse

Received: 10/06/15 13:15
Work Order: C512353

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	10/14/15 19:16	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	10/14/15 19:16	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	10/14/15 19:16	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	10/14/15 19:16	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/15 19:16	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/15 19:16	MWC	QV-01
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	10/14/15 19:16	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	10/14/15 19:16	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	10/14/15 19:16	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	10/14/15 19:16	MWC	QV-01
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	10/14/15 19:16	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	10/14/15 19:16	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	10/14/15 19:16	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	10/14/15 19:16	MWC	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	10/14/15 19:16	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	10/14/15 19:16	MWC	QV-01
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	10/14/15 19:16	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	10/14/15 19:16	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	10/14/15 19:16	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	10/14/15 19:16	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	10/14/15 19:16	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.89*	*1*	*1.00*	*89 %*	*44-134*	*5J08015*	*EPA 8081B*	*10/14/15 19:16*	*MWC*	
Decachlorobiphenyl	*1.0*	*1*	*1.00*	*104 %*	*37-149*	*5J08015*	*EPA 8081B*	*10/14/15 19:16*	*MWC*	

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Description: 4103-II4A
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512353-04
Sampled: 10/05/15 17:35
Sampled By: Bradley Keyse

Received: 10/06/15 13:15
Work Order: C512353

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/14/15 19:16	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/15 19:16	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/15 19:16	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/14/15 19:16	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/15 19:16	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/15 19:16	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.89*	*1*	*1.00*	*89 %*	*45-151*	*5J08017*	*EPA 8082A*	*10/14/15 19:16*	*MWC*	
Decachlorobiphenyl	*1.0*	*1*	*1.00*	*104 %*	*42-159*	*5J08017*	*EPA 8082A*	*10/14/15 19:16*	*MWC*	

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Description: 4103-II4A
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512353-04
Sampled: 10/05/15 17:35
Sampled By: Bradley Keyse

Received: 10/06/15 13:15
Work Order: C512353

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/13/15 11:08	BAM	

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Description: 4103-II4A
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512353-04
Sampled: 10/05/15 17:35
Sampled By: Bradley Keyse

Received: 10/06/15 13:15
Work Order: C512353

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/12/15 12:23	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	10/12/15 15:01	JDH	
Barium [7440-39-3] ^	**187**		ug/L	1	1.00	10.0	100	EPA 6010C	10/12/15 15:01	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/12/15 15:01	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/12/15 15:01	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	10/12/15 15:01	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	10/12/15 15:01	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/12/15 15:01	JDH	
Lead [7439-92-1] ^	**4.86**	J	ug/L	1	3.10	10.0	10	EPA 6010C	10/12/15 15:01	JDH	
Nickel [7440-02-0] ^	**33.4**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/12/15 15:01	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/12/15 12:23	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/12/15 15:01	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/12/15 12:23	VLO	
Tin [7440-31-5] ^	2.40	U	ug/L	1	2.40	10.0	100	EPA 6010C	10/12/15 15:01	JDH	
Vanadium [7440-62-2] ^	**2.52**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/12/15 15:01	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	10/12/15 15:01	JDH	

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Description: 4103-II4A
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512353-04
Sampled: 10/05/15 17:35
Sampled By: Bradley Keyse

Received: 10/06/15 13:15
Work Order: C512353

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/12/15 15:48	JLJ	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/10/15 11:50	JOC	

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Description: 4103-II4A
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512353-04
Sampled: 10/05/15 17:35
Sampled By: Bradley Keyse

Received: 10/06/15 13:15
Work Order: C512353

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50		EPA 8151A	10/13/15 15:55	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/13/15 15:55	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/13/15 15:55	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/13/15 15:55	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/13/15 15:55	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.4*	*1*	*2.00*	*72 %*	*48-151*	*5J12002*	*EPA 8151A*	*10/13/15 15:55*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-II5 | **Lab Sample ID:** C512353-05 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/05/15 13:30 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/13/15 05:03	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/13/15 05:03	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/13/15 05:03	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/15 05:03	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/13/15 05:03	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/15 05:03	REF	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/15 05:03	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/15 05:03	REF	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/15 05:03	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/13/15 05:03	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/13/15 05:03	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/13/15 05:03	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/13/15 05:03	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/13/15 05:03	REF	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/15 05:03	REF	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/13/15 05:03	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/13/15 05:03	REF	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/13/15 05:03	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/13/15 05:03	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/13/15 05:03	REF	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/15 05:03	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/13/15 05:03	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/13/15 05:03	REF	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/13/15 05:03	REF	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/13/15 05:03	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/13/15 05:03	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/15 05:03	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/13/15 05:03	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/15 05:03	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/13/15 05:03	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/15 05:03	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/13/15 05:03	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/15 05:03	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/15 05:03	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/13/15 05:03	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/13/15 05:03	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/15 05:03	REF	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/13/15 05:03	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/15 05:03	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/13/15 05:03	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/15 05:03	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/13/15 05:03	REF	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/13/15 05:03	REF	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/13/15 05:03	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/15 05:03	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/13/15 05:03	REF	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/13/15 05:03	REF	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/13/15 05:03	REF	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/13/15 05:03	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/15 05:03	REF	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/15 05:03	REF	

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Description: 4103-II5 | **Lab Sample ID:** C512353-05 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/05/15 13:30 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/13/15 05:03	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/13/15 05:03	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/15 05:03	REF	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	10/13/15 05:03	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/15 05:03	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/15 05:03	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/15 05:03	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/13/15 05:03	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/15 05:03	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/13/15 05:03	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/13/15 05:03	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/13/15 05:03	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/13/15 05:03	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*95 %*	*53-136*	*5J12031*	*EPA 8260B*	*10/13/15 05:03*	*REF*	
Dibromofluoromethane	*54*	*1*	*50.0*	*109 %*	*67-129*	*5J12031*	*EPA 8260B*	*10/13/15 05:03*	*REF*	
Toluene-d8	*48*	*1*	*50.0*	*97 %*	*59-134*	*5J12031*	*EPA 8260B*	*10/13/15 05:03*	*REF*	

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Description: 4103-II5 | **Lab Sample ID:** C512353-05 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/05/15 13:30 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/17/15 04:45	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/17/15 04:45	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/17/15 04:45	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/17/15 04:45	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/17/15 04:45	DFM	QV-01
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/17/15 04:45	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/17/15 04:45	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 04:45	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 04:45	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 04:45	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:45	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/17/15 04:45	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/17/15 04:45	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 04:45	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/17/15 04:45	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/17/15 04:45	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 04:45	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 04:45	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/17/15 04:45	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/17/15 04:45	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 04:45	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/17/15 04:45	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/17/15 04:45	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 04:45	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/17/15 04:45	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/17/15 04:45	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/17/15 04:45	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:45	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/17/15 04:45	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/17/15 04:45	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 04:45	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/17/15 04:45	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/17/15 04:45	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/17/15 04:45	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/17/15 04:45	DFM	QV-01
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/17/15 04:45	DFM	QV-01
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/17/15 04:45	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 04:45	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 04:45	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 04:45	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:45	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/17/15 04:45	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:45	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:45	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 04:45	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/17/15 04:45	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:45	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/17/15 04:45	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 04:45	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 04:45	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:45	DFM	

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Description: 4103-II5 | **Lab Sample ID:** C512353-05 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/05/15 13:30 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/17/15 04:45	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/17/15 04:45	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 04:45	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/17/15 04:45	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 04:45	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/17/15 04:45	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 04:45	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/17/15 04:45	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/17/15 04:45	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 04:45	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/17/15 04:45	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/17/15 04:45	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 04:45	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/17/15 04:45	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/17/15 04:45	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/17/15 04:45	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/17/15 04:45	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 04:45	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 04:45	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:45	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 04:45	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/17/15 04:45	DFM	QV-01
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/17/15 04:45	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/17/15 04:45	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:45	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:45	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/17/15 04:45	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/17/15 04:45	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 04:45	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/17/15 04:45	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 04:45	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/17/15 04:45	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:45	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 04:45	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/17/15 04:45	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/17/15 04:45	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/17/15 04:45	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/17/15 04:45	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:45	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:45	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 04:45	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/17/15 04:45	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 04:45	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 04:45	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/17/15 04:45	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/17/15 04:45	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 04:45	DFM	
Phenol [108-95-2] ^	**2.9**	J	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 04:45	DFM	J-02
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 04:45	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 04:45	DFM	

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Description: 4103-II5 | **Lab Sample ID:** C512353-05 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/05/15 13:30 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/17/15 04:45	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 04:45	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/17/15 04:45	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*91*	*1*	*100*	*91 %*	*10-179*	*5J06032*	*EPA 8270D*	*10/17/15 04:45*	*DFM*	
2-Fluorobiphenyl	*38*	*1*	*50.0*	*76 %*	*10-149*	*5J06032*	*EPA 8270D*	*10/17/15 04:45*	*DFM*	
2-Fluorophenol	*57*	*1*	*100*	*57 %*	*10-110*	*5J06032*	*EPA 8270D*	*10/17/15 04:45*	*DFM*	
Nitrobenzene-d5	*39*	*1*	*50.0*	*78 %*	*10-149*	*5J06032*	*EPA 8270D*	*10/17/15 04:45*	*DFM*	
Phenol-d5	*51*	*1*	*100*	*51 %*	*10-88*	*5J06032*	*EPA 8270D*	*10/17/15 04:45*	*DFM*	
Terphenyl-d14	*43*	*1*	*50.0*	*86 %*	*10-188*	*5J06032*	*EPA 8270D*	*10/17/15 04:45*	*DFM*	

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Description: 4103-II5 | **Lab Sample ID:** C512353-05 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/05/15 13:30 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	10/14/15 19:29	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	10/14/15 19:29	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	10/14/15 19:29	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	10/14/15 19:29	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/15 19:29	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/15 19:29	MWC	QV-01
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	10/14/15 19:29	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	10/14/15 19:29	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	10/14/15 19:29	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	10/14/15 19:29	MWC	QV-01
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	10/14/15 19:29	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	10/14/15 19:29	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	10/14/15 19:29	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	10/14/15 19:29	MWC	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	10/14/15 19:29	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	10/14/15 19:29	MWC	QV-01
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	10/14/15 19:29	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	10/14/15 19:29	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	10/14/15 19:29	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	10/14/15 19:29	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	10/14/15 19:29	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.74*	*1*	*1.00*	*74 %*	*44-134*	*5J08015*	*EPA 8081B*	*10/14/15 19:29*	*MWC*	
Decachlorobiphenyl	*0.82*	*1*	*1.00*	*82 %*	*37-149*	*5J08015*	*EPA 8081B*	*10/14/15 19:29*	*MWC*	

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Description: 4103-II5 | **Lab Sample ID:** C512353-05 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/05/15 13:30 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/14/15 19:29	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/15 19:29	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/15 19:29	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/14/15 19:29	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/15 19:29	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/15 19:29	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.74*	*1*	*1.00*	*74 %*	*45-151*	*5J08017*	*EPA 8082A*	*10/14/15 19:29*	*MWC*	
Decachlorobiphenyl	*0.82*	*1*	*1.00*	*82 %*	*42-159*	*5J08017*	*EPA 8082A*	*10/14/15 19:29*	*MWC*	

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Description: 4103-II5
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512353-05
Sampled: 10/05/15 13:30
Sampled By: Bradley Keyse

Received: 10/06/15 13:15
Work Order: C512353

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/13/15 11:10	BAM	

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Description: 4103-II5 | **Lab Sample ID:** C512353-05 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/05/15 13:30 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/12/15 12:27	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	10/12/15 15:03	JDH	
Barium [7440-39-3] ^	**102**		ug/L	1	1.00	10.0	100	EPA 6010C	10/12/15 15:03	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/12/15 15:03	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/12/15 15:03	JDH	
Chromium [7440-47-3] ^	**5.02**	J	ug/L	1	1.40	10.0	10	EPA 6010C	10/12/15 15:03	JDH	
Cobalt [7440-48-4] ^	**3.46**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/12/15 15:03	JDH	
Copper [7440-50-8] ^	**3.17**	J	ug/L	1	1.60	10.0	10	EPA 6010C	10/12/15 15:03	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	10/12/15 15:03	JDH	
Nickel [7440-02-0] ^	**2.87**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/12/15 15:03	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/12/15 12:27	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/12/15 15:03	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/12/15 12:27	VLO	
Tin [7440-31-5] ^	2.40	U	ug/L	1	2.40	10.0	100	EPA 6010C	10/12/15 15:03	JDH	
Vanadium [7440-62-2] ^	**9.63**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/12/15 15:03	JDH	
Zinc [7440-66-6] ^	**7.74**	J	ug/L	1	3.80	10.0	10	EPA 6010C	10/12/15 15:03	JDH	

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Description: 4103-II5
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512353-05
Sampled: 10/05/15 13:30
Sampled By: Bradley Keyse

Received: 10/06/15 13:15
Work Order: C512353

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/12/15 15:50	JLJ	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/10/15 11:50	JOC	

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Description: 4103-II5 | **Lab Sample ID:** C512353-05 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/05/15 13:30 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50		EPA 8151A	10/13/15 16:20	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/13/15 16:20	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/13/15 16:20	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/13/15 16:20	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/13/15 16:20	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.6*	*1*	*2.00*	*80 %*	*48-151*	*5J12002*	*EPA 8151A*	*10/13/15 16:20*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-II6 | **Lab Sample ID:** C512353-06 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 10:25 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/13/15 05:32	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/13/15 05:32	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/13/15 05:32	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/15 05:32	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/13/15 05:32	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/15 05:32	REF	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/15 05:32	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/15 05:32	REF	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/15 05:32	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/13/15 05:32	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/13/15 05:32	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/13/15 05:32	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/13/15 05:32	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/13/15 05:32	REF	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/15 05:32	REF	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/13/15 05:32	REF	
1,4-Dichlorobenzene [106-46-7] ^	**2.8**		ug/L	1	0.19	1.0	1	EPA 8260B	10/13/15 05:32	REF	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/13/15 05:32	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/13/15 05:32	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/13/15 05:32	REF	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/15 05:32	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/13/15 05:32	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/13/15 05:32	REF	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/13/15 05:32	REF	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/13/15 05:32	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/13/15 05:32	REF	
Benzene [71-43-2] ^	**1.4**		ug/L	1	0.15	1.0	1	EPA 8260B	10/13/15 05:32	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/13/15 05:32	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/15 05:32	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/13/15 05:32	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/15 05:32	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/13/15 05:32	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/15 05:32	REF	
Chlorobenzene [108-90-7] ^	**3.6**		ug/L	1	0.17	1.0	3	EPA 8260B	10/13/15 05:32	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/13/15 05:32	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/13/15 05:32	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/15 05:32	REF	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/13/15 05:32	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/15 05:32	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/13/15 05:32	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/15 05:32	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/13/15 05:32	REF	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/13/15 05:32	REF	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/13/15 05:32	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/15 05:32	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/13/15 05:32	REF	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/13/15 05:32	REF	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/13/15 05:32	REF	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/13/15 05:32	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/15 05:32	REF	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/15 05:32	REF	

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Description: 4103-II6 | **Lab Sample ID:** C512353-06 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 10:25 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/13/15 05:32	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/13/15 05:32	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/15 05:32	REF	
Tetrahydrofuran [109-99-9] ^	**32**		ug/L	1	0.80	1.0		EPA 8260B	10/13/15 05:32	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/15 05:32	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/15 05:32	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/15 05:32	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/13/15 05:32	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/15 05:32	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/13/15 05:32	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/13/15 05:32	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/13/15 05:32	REF	
Xylenes (Total) [1330-20-7] ^	**0.77**	J	ug/L	1	0.45	3.0	5	EPA 8260B	10/13/15 05:32	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*97 %*	*53-136*	*5J12031*	*EPA 8260B*	*10/13/15 05:32*	*REF*	
Dibromofluoromethane	*53*	*1*	*50.0*	*105 %*	*67-129*	*5J12031*	*EPA 8260B*	*10/13/15 05:32*	*REF*	
Toluene-d8	*49*	*1*	*50.0*	*97 %*	*59-134*	*5J12031*	*EPA 8260B*	*10/13/15 05:32*	*REF*	

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Description: 4103-II6 | **Lab Sample ID:** C512353-06 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 10:25 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/17/15 05:14	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/17/15 05:14	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/17/15 05:14	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/17/15 05:14	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/17/15 05:14	DFM	QV-01
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/17/15 05:14	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/17/15 05:14	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 05:14	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 05:14	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 05:14	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 05:14	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/17/15 05:14	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/17/15 05:14	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 05:14	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/17/15 05:14	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/17/15 05:14	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 05:14	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 05:14	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/17/15 05:14	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/17/15 05:14	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 05:14	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/17/15 05:14	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/17/15 05:14	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 05:14	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/17/15 05:14	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/17/15 05:14	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/17/15 05:14	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 05:14	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/17/15 05:14	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/17/15 05:14	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 05:14	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/17/15 05:14	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/17/15 05:14	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/17/15 05:14	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/17/15 05:14	DFM	QV-01
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/17/15 05:14	DFM	QV-01
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/17/15 05:14	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 05:14	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 05:14	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 05:14	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 05:14	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/17/15 05:14	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 05:14	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 05:14	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 05:14	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/17/15 05:14	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 05:14	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/17/15 05:14	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 05:14	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 05:14	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 05:14	DFM	

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Description: 4103-II6 | **Lab Sample ID:** C512353-06 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 10:25 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/17/15 05:14	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/17/15 05:14	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 05:14	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/17/15 05:14	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 05:14	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/17/15 05:14	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 05:14	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/17/15 05:14	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/17/15 05:14	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 05:14	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/17/15 05:14	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/17/15 05:14	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 05:14	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/17/15 05:14	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/17/15 05:14	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/17/15 05:14	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/17/15 05:14	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 05:14	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 05:14	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 05:14	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 05:14	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/17/15 05:14	DFM	QV-01
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/17/15 05:14	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/17/15 05:14	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 05:14	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 05:14	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/17/15 05:14	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/17/15 05:14	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 05:14	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/17/15 05:14	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 05:14	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/17/15 05:14	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 05:14	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 05:14	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/17/15 05:14	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/17/15 05:14	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/17/15 05:14	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/17/15 05:14	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 05:14	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 05:14	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/17/15 05:14	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/17/15 05:14	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 05:14	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/17/15 05:14	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/17/15 05:14	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/17/15 05:14	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 05:14	DFM	
Phenol [108-95-2] ^	**1.5**	J	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 05:14	DFM	J-02
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/17/15 05:14	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/17/15 05:14	DFM	

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Description: 4103-II6 | **Lab Sample ID:** C512353-06 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 10:25 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/17/15 05:14	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/17/15 05:14	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/17/15 05:14	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*75*	*1*	*100*	*75 %*	*10-179*	*5J06032*	*EPA 8270D*	*10/17/15 05:14*	*DFM*	
2-Fluorobiphenyl	*37*	*1*	*50.0*	*75 %*	*10-149*	*5J06032*	*EPA 8270D*	*10/17/15 05:14*	*DFM*	
2-Fluorophenol	*59*	*1*	*100*	*59 %*	*10-110*	*5J06032*	*EPA 8270D*	*10/17/15 05:14*	*DFM*	
Nitrobenzene-d5	*39*	*1*	*50.0*	*78 %*	*10-149*	*5J06032*	*EPA 8270D*	*10/17/15 05:14*	*DFM*	
Phenol-d5	*48*	*1*	*100*	*48 %*	*10-88*	*5J06032*	*EPA 8270D*	*10/17/15 05:14*	*DFM*	
Terphenyl-d14	*40*	*1*	*50.0*	*80 %*	*10-188*	*5J06032*	*EPA 8270D*	*10/17/15 05:14*	*DFM*	

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Description: 4103-II6 | **Lab Sample ID:** C512353-06 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 10:25 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	10/14/15 19:42	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	10/14/15 19:42	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	10/14/15 19:42	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	10/14/15 19:42	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/15 19:42	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/15 19:42	MWC	QV-01
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	10/14/15 19:42	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	10/14/15 19:42	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	10/14/15 19:42	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	10/14/15 19:42	MWC	QV-01
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	10/14/15 19:42	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	10/14/15 19:42	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	10/14/15 19:42	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	10/14/15 19:42	MWC	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	10/14/15 19:42	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	10/14/15 19:42	MWC	QV-01
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	10/14/15 19:42	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	10/14/15 19:42	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	10/14/15 19:42	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	10/14/15 19:42	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	10/14/15 19:42	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.51*	*1*	*1.00*	*51 %*	*44-134*	*5J08015*	*EPA 8081B*	*10/14/15 19:42*	*MWC*	
Decachlorobiphenyl	*0.79*	*1*	*1.00*	*79 %*	*37-149*	*5J08015*	*EPA 8081B*	*10/14/15 19:42*	*MWC*	

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Description: 4103-II6
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512353-06
Sampled: 10/06/15 10:25
Sampled By: Bradley Keyse

Received: 10/06/15 13:15
Work Order: C512353

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/14/15 19:42	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/15 19:42	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/15 19:42	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/14/15 19:42	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/15 19:42	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/15 19:42	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.51*	*1*	*1.00*	*51 %*	*45-151*	*5J08017*	*EPA 8082A*	*10/14/15 19:42*	*MWC*	
Decachlorobiphenyl	*0.79*	*1*	*1.00*	*79 %*	*42-159*	*5J08017*	*EPA 8082A*	*10/14/15 19:42*	*MWC*	

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Description:	4103-II6	**Lab Sample ID:**	C512353-06	**Received:**	10/06/15 13:15
Matrix:	Ground Water	**Sampled:**	10/06/15 10:25	**Work Order:**	C512353
Project:	White Street Landfill App IIs	**Sampled By:**	Bradley Keyse		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/13/15 11:12	BAM	

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Description: 4103-II6 | **Lab Sample ID:** C512353-06 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 10:25 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/12/15 12:31	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	10/12/15 15:06	JDH	
Barium [7440-39-3] ^	**269**		ug/L	1	1.00	10.0	100	EPA 6010C	10/12/15 15:06	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/12/15 15:06	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/12/15 15:06	JDH	
Chromium [7440-47-3] ^	**2.47**	J	ug/L	1	1.40	10.0	10	EPA 6010C	10/12/15 15:06	JDH	
Cobalt [7440-48-4] ^	**21.2**		ug/L	1	1.10	10.0	10	EPA 6010C	10/12/15 15:06	JDH	
Copper [7440-50-8] ^	**9.18**	J	ug/L	1	1.60	10.0	10	EPA 6010C	10/12/15 15:06	JDH	
Lead [7439-92-1] ^	**4.05**	J	ug/L	1	3.10	10.0	10	EPA 6010C	10/12/15 15:06	JDH	
Nickel [7440-02-0] ^	**32.5**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/12/15 15:06	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/12/15 12:31	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/12/15 15:06	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/12/15 12:31	VLO	
Tin [7440-31-5] ^	2.40	U	ug/L	1	2.40	10.0	100	EPA 6010C	10/12/15 15:06	JDH	
Vanadium [7440-62-2] ^	**3.18**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/12/15 15:06	JDH	
Zinc [7440-66-6] ^	**5.12**	J	ug/L	1	3.80	10.0	10	EPA 6010C	10/12/15 15:06	JDH	

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Description: 4103-II6
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512353-06
Sampled: 10/06/15 10:25
Sampled By: Bradley Keyse

Received: 10/06/15 13:15
Work Order: C512353

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/15/15 10:35	JLJ	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/10/15 11:50	JOC	

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Description: 4103-II6 | **Lab Sample ID:** C512353-06 | **Received:** 10/06/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 10:25 | **Work Order:** C512353

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50		EPA 8151A	10/13/15 16:46	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/13/15 16:46	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/13/15 16:46	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/13/15 16:46	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/13/15 16:46	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.9*	*1*	*2.00*	*144 %*	*48-151*	*5J12002*	*EPA 8151A*	*10/13/15 16:46*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5J08019 - EPA 5030B_MS

Blank (5J08019-BLK1) Prepared: 10/08/2015 10:34 Analyzed: 10/09/2015 13:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5J08019 - EPA 5030B_MS

Blank (5J08019-BLK1) Continued Prepared: 10/08/2015 10:34 Analyzed: 10/09/2015 13:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Tetrahydrofuran	0.80	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*95*	*53-136*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*93*	*67-129*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*91*	*59-134*			

LCS (5J08019-BS1) Prepared: 10/08/2015 10:34 Analyzed: 10/09/2015 14:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0		95	75-133			
Benzene	20		1.0	ug/L	20.0		98	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		100	83-117			
Toluene	22		1.0	ug/L	20.0		108	71-118			
Trichloroethene	18		1.0	ug/L	20.0		91	74-119			

Matrix Spike (5J08019-MS1) Prepared: 10/08/2015 10:34 Analyzed: 10/09/2015 14:37

Source: C513030-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.21 U	97	75-133			
Benzene	20		1.0	ug/L	20.0	0.15 U	102	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	100	83-117			
Toluene	22		1.0	ug/L	20.0	0.14 U	110	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	96	74-119			

Matrix Spike Dup (5J08019-MSD1) Prepared: 10/08/2015 10:34 Analyzed: 10/09/2015 15:05

Source: C513030-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.21 U	94	75-133	3	20	
Benzene	20		1.0	ug/L	20.0	0.15 U	98	81-134	4	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	99	83-117	2	16	
Toluene	21		1.0	ug/L	20.0	0.14 U	106	71-118	4	17	
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	88	74-119	9	22	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5J08019 - EPA 5030B_MS

Batch 5J12031 - EPA 5030B_MS

Blank (5J12031-BLK1) Prepared: 10/12/2015 15:07 Analyzed: 10/12/2015 22:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5J12031 - EPA 5030B_MS

Blank (5J12031-BLK1) Continued Prepared: 10/12/2015 15:07 Analyzed: 10/12/2015 22:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Tetrahydrofuran	0.80	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*49*			*ug/L*	*50.0*		*98*	*53-136*			
Surrogate: Dibromofluoromethane	*54*			*ug/L*	*50.0*		*108*	*67-129*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*101*	*59-134*			

LCS (5J12031-BS1) Prepared: 10/12/2015 15:07 Analyzed: 10/12/2015 22:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		100	75-133			
Benzene	20		1.0	ug/L	20.0		102	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		97	83-117			
Toluene	21		1.0	ug/L	20.0		104	71-118			
Trichloroethene	19		1.0	ug/L	20.0		94	74-119			

Matrix Spike (5J12031-MS1) Prepared: 10/12/2015 15:07 Analyzed: 10/12/2015 23:20

Source: C513030-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.21 U	97	75-133			
Benzene	19		1.0	ug/L	20.0	0.15 U	97	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	95	83-117			
Toluene	21		1.0	ug/L	20.0	0.14 U	103	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	97	74-119			

Matrix Spike Dup (5J12031-MSD1) Prepared: 10/12/2015 15:07 Analyzed: 10/12/2015 23:48

Source: C513030-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.21 U	92	75-133	5	20	
Benzene	19		1.0	ug/L	20.0	0.15 U	94	81-134	4	17	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5J12031 - EPA 5030B_MS

Matrix Spike Dup (5J12031-MSD1) Continued Prepared: 10/12/2015 15:07 Analyzed: 10/12/2015 23:48

Source: C513030-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	91	83-117	5	16	
Toluene	19		1.0	ug/L	20.0	0.14 U	96	71-118	7	17	
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	88	74-119	9	22	

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 5J06032 - EPA 3510C_MS

Blank (5J06032-BLK1) Prepared: 10/06/2015 18:00 Analyzed: 10/17/2015 00:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4,5-Tetrachlorobenzene	2.0	U	10	ug/L							
1,3,5-Trinitrobenzene	3.0	U	10	ug/L							
1,3-Dinitrobenzene	1.9	U	10	ug/L							
1,4-Naphthoquinone	2.5	U	10	ug/L							
1,4-Phenylenediamine	4.0	U	10	ug/L							QV-01
1-Naphthylamine	1.9	U	10	ug/L							
2,3,4,6-Tetrachlorophenol	2.0	U	10	ug/L							
2,4,5-Trichlorophenol	1.0	U	10	ug/L							
2,4,6-Trichlorophenol	1.1	U	10	ug/L							
2,4-Dichlorophenol	1.4	U	10	ug/L							
2,4-Dimethylphenol	1.3	U	10	ug/L							
2,4-Dinitrophenol	2.6	U	10	ug/L							
2,4-Dinitrotoluene	2.4	U	10	ug/L							
2,6-Dichlorophenol	1.1	U	10	ug/L							
2,6-Dinitrotoluene	1.5	U	10	ug/L							
2-Acetylaminofluorene	2.5	U	10	ug/L							
2-Chloronaphthalene	1.0	U	10	ug/L							
2-Chlorophenol	1.2	U	10	ug/L							
2-Methyl-4,6-dinitrophenol	2.9	U	10	ug/L							
2-Methylnaphthalene	1.5	U	10	ug/L							
2-Methylphenol	1.4	U	10	ug/L							
2-Naphthylamine	3.0	U	10	ug/L							
2-Nitroaniline	1.5	U	10	ug/L							
2-Nitrophenol	1.1	U	10	ug/L							
3 & 4-Methylphenol	1.6	U	10	ug/L							
3,3'-Dichlorobenzidine	3.3	U	10	ug/L							
3,3'-Dimethylbenzidine	2.2	U	10	ug/L							
3-Methylcholanthrene	1.3	U	10	ug/L							
3-Nitroaniline	2.1	U	10	ug/L							
4-Aminobiphenyl	2.1	U	10	ug/L							
4-Bromophenyl-phenylether	1.0	U	10	ug/L							
4-Chloro-3-methylphenol	1.5	U	10	ug/L							
4-Chloroaniline	1.2	U	10	ug/L							
4-Chlorophenyl-phenylether	1.6	U	10	ug/L							
4-Nitroaniline	3.2	U	10	ug/L							QV-01
4-Nitrophenol	2.0	U	10	ug/L							QV-01
5-Nitro-o-toluidine	3.2	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 5J06032 - EPA 3510C_MS

Blank (5J06032-BLK1) Continued Prepared: 10/06/2015 18:00 Analyzed: 10/17/2015 00:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
7,12-Dimethylbenz(a)anthracene	1.1	U	10	ug/L							
Acenaphthene	1.4	U	10	ug/L							
Acenaphthylene	1.2	U	10	ug/L							
Acetophenone	1.3	U	10	ug/L							
Anthracene	1.6	U	10	ug/L							
Benzo(a)anthracene	1.3	U	10	ug/L							
Benzo(a)pyrene	1.3	U	10	ug/L							
Benzo(b)fluoranthene	1.0	U	10	ug/L							
Benzo(g,h,i)perylene	2.4	U	10	ug/L							
Benzo(k)fluoranthene	1.3	U	10	ug/L							
Benzyl alcohol	1.4	U	10	ug/L							
Bis(2-chloroethoxy)methane	1.4	U	10	ug/L							
Bis(2-chloroethyl)ether	1.2	U	10	ug/L							
Bis(2-chloroisopropyl)ether	1.3	U	10	ug/L							
Bis(2-ethylhexyl)phthalate	1.7	U	5.0	ug/L							
Butylbenzylphthalate	2.0	U	10	ug/L							
Chlorobenzilate	1.0	U	10	ug/L							
Chrysene	2.0	U	10	ug/L							
Diallate	1.0	U	10	ug/L							
Dibenzo(a,h)anthracene	2.3	U	10	ug/L							
Dibenzofuran	1.4	U	10	ug/L							
Diethylphthalate	2.1	U	10	ug/L							
Dimethoate	2.3	U	10	ug/L							
Dimethylphthalate	1.4	U	10	ug/L							
Di-n-butylphthalate	1.5	U	10	ug/L							
Di-n-octylphthalate	3.1	U	10	ug/L							
Disulfoton	1.1	U	10	ug/L							
Ethyl methanesulfonate	1.2	U	10	ug/L							
Famphur	2.7	U	10	ug/L							
Fluoranthene	2.1	U	10	ug/L							
Fluorene	1.7	U	10	ug/L							
Hexachlorobenzene	1.0	U	10	ug/L							
Hexachlorobutadiene	1.2	U	10	ug/L							
Hexachlorocyclopentadiene	1.3	U	10	ug/L							
Hexachloroethane	1.1	U	10	ug/L							
Hexachloropropene	1.7	U	10	ug/L							QV-01
Indeno(1,2,3-cd)pyrene	2.2	U	10	ug/L							
Isodrin	1.0	U	10	ug/L							
Isophorone	1.3	U	10	ug/L							
Isosafrole	1.3	U	10	ug/L							
Kepone	7.2	U	20	ug/L							QV-01
Methapyrilene	3.5	U	10	ug/L							
Methyl Methanesulfonate	1.0	U	10	ug/L							
Methyl parathion	2.5	U	10	ug/L							
Nitrobenzene	1.2	U	10	ug/L							
N-Nitrosodiethylamine	1.3	U	10	ug/L							
N-Nitrosodimethylamine	1.3	U	10	ug/L							
N-Nitrosodi-n-butylamine	1.2	U	10	ug/L							
N-Nitroso-di-n-propylamine	1.5	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 5J06032 - EPA 3510C_MS

Blank (5J06032-BLK1) Continued Prepared: 10/06/2015 18:00 Analyzed: 10/17/2015 00:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
N-nitrosodiphenylamine/Diphenylamine	2.1	U	10	ug/L							
N-Nitrosomethylethylamine	1.9	U	10	ug/L							
N-Nitrosopiperidine	1.1	U	10	ug/L							
N-Nitrosopyrrolidine	1.3	U	10	ug/L							
O,O,O-Triethyl phosphorothioate	1.3	U	10	ug/L							
o-Toluidine	1.1	U	10	ug/L							
Parathion	1.7	U	10	ug/L							
p-Dimethylaminoazobenzene	1.4	U	10	ug/L							
Pentachlorobenzene	1.3	U	10	ug/L							
Pentachloronitrobenzene	1.0	U	10	ug/L							
Phenacetin	2.7	U	10	ug/L							
Phenanthrene	1.4	U	10	ug/L							
Phenol	1.4	U	10	ug/L							
Phorate	1.0	U	10	ug/L							
Pronamide	1.4	U	10	ug/L							
Pyrene	2.1	U	10	ug/L							
Safrole	1.2	U	10	ug/L							
Thionazin	2.3	U	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*90*			*ug/L*	*100*		*90*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*42*			*ug/L*	*50.0*		*84*	*10-149*			
Surrogate: 2-Fluorophenol	*64*			*ug/L*	*100*		*64*	*10-110*			
Surrogate: Nitrobenzene-d5	*42*			*ug/L*	*50.0*		*84*	*10-149*			
Surrogate: Phenol-d5	*57*			*ug/L*	*100*		*57*	*10-88*			
Surrogate: Terphenyl-d14	*44*			*ug/L*	*50.0*		*89*	*10-188*			

LCS (5J06032-BS1) Prepared: 10/06/2015 18:00 Analyzed: 10/17/2015 00:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	44		10	ug/L	50.0		88	40-109			
4-Chloro-3-methylphenol	45		10	ug/L	50.0		90	58-121			
4-Nitrophenol	40		10	ug/L	50.0		80	33-105			J-04
Acenaphthene	46		10	ug/L	50.0		92	39-125			
N-Nitroso-di-n-propylamine	47		10	ug/L	50.0		93	48-126			
Phenol	39		10	ug/L	50.0		79	19-78			QL-02
Pyrene	45		10	ug/L	50.0		90	44-137			
Surrogate: 2,4,6-Tribromophenol	*93*			*ug/L*	*100*		*93*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*45*			*ug/L*	*50.0*		*90*	*10-149*			
Surrogate: 2-Fluorophenol	*75*			*ug/L*	*100*		*75*	*10-110*			
Surrogate: Nitrobenzene-d5	*44*			*ug/L*	*50.0*		*87*	*10-149*			
Surrogate: Phenol-d5	*77*			*ug/L*	*100*		*77*	*10-88*			
Surrogate: Terphenyl-d14	*44*			*ug/L*	*50.0*		*88*	*10-188*			

Matrix Spike (5J06032-MS1) Prepared: 10/06/2015 18:00 Analyzed: 10/17/2015 01:19

Source: C512713-09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	40		10	ug/L	50.0	1.2 U	79	40-109			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 5J06032 - EPA 3510C_MS

Matrix Spike (5J06032-MS1) Continued Prepared: 10/06/2015 18:00 Analyzed: 10/17/2015 01:19

Source: C512713-09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4-Chloro-3-methylphenol	44		10	ug/L	50.0	1.5 U	87	58-121			
4-Nitrophenol	33		10	ug/L	50.0	2.0 U	66	33-105			J-04
Acenaphthene	43		10	ug/L	50.0	1.4 U	86	39-125			
N-Nitroso-di-n-propylamine	44		10	ug/L	50.0	1.5 U	88	48-126			
Phenol	28		10	ug/L	50.0	1.4 U	57	19-78			J-02
Pyrene	44		10	ug/L	50.0	2.1 U	89	44-137			
Surrogate: 2,4,6-Tribromophenol	*92*			*ug/L*	*100*		*92*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*40*			*ug/L*	*50.0*		*79*	*10-149*			
Surrogate: 2-Fluorophenol	*59*			*ug/L*	*100*		*59*	*10-110*			
Surrogate: Nitrobenzene-d5	*39*			*ug/L*	*50.0*		*77*	*10-149*			
Surrogate: Phenol-d5	*53*			*ug/L*	*100*		*53*	*10-88*			
Surrogate: Terphenyl-d14	*43*			*ug/L*	*50.0*		*87*	*10-188*			

Matrix Spike Dup (5J06032-MSD1) Prepared: 10/06/2015 18:00 Analyzed: 10/17/2015 01:48

Source: C512713-09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	44		10	ug/L	50.0	1.2 U	87	40-109	10	22	
4-Chloro-3-methylphenol	48		10	ug/L	50.0	1.5 U	95	58-121	9	22	
4-Nitrophenol	39		10	ug/L	50.0	2.0 U	77	33-105	16	27	J-04
Acenaphthene	46		10	ug/L	50.0	1.4 U	92	39-125	8	25	
N-Nitroso-di-n-propylamine	48		10	ug/L	50.0	1.5 U	96	48-126	9	23	
Phenol	31		10	ug/L	50.0	1.4 U	62	19-78	8	18	J-02
Pyrene	48		10	ug/L	50.0	2.1 U	95	44-137	7	24	
Surrogate: 2,4,6-Tribromophenol	*100*			*ug/L*	*100*		*100*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*43*			*ug/L*	*50.0*		*85*	*10-149*			
Surrogate: 2-Fluorophenol	*65*			*ug/L*	*100*		*65*	*10-110*			
Surrogate: Nitrobenzene-d5	*43*			*ug/L*	*50.0*		*86*	*10-149*			
Surrogate: Phenol-d5	*58*			*ug/L*	*100*		*58*	*10-88*			
Surrogate: Terphenyl-d14	*45*			*ug/L*	*50.0*		*91*	*10-188*			

Organochlorine Pesticides by GC - Quality Control

Batch 5J08015 - EPA 3510C

Blank (5J08015-BLK1) Prepared: 10/08/2015 10:58 Analyzed: 10/14/2015 16:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.044	U	0.050	ug/L							
4,4'-DDE	0.048	U	0.050	ug/L							
4,4'-DDT	0.049	U	0.050	ug/L							
Aldrin	0.041	U	0.050	ug/L							
alpha-BHC	0.036	U	0.050	ug/L							
beta-BHC	0.036	U	0.050	ug/L							
Chlordane (tech)	0.20	U	0.50	ug/L							
Chlordane-alpha	0.048	U	0.050	ug/L							
Chlordane-gamma	0.042	U	0.050	ug/L							

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 5J08015 - EPA 3510C

Blank (5J08015-BLK1) Continued Prepared: 10/08/2015 10:58 Analyzed: 10/14/2015 16:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
delta-BHC	0.048	U	0.050	ug/L							QV-01
Dieldrin	0.045	U	0.050	ug/L							
Endosulfan I	0.045	U	0.050	ug/L							
Endosulfan II	0.036	U	0.050	ug/L							
Endosulfan sulfate	0.032	U	0.050	ug/L							
Endrin	0.041	U	0.050	ug/L							
Endrin aldehyde	0.042	U	0.050	ug/L							QV-01
gamma-BHC	0.034	U	0.050	ug/L							
Heptachlor	0.030	U	0.050	ug/L							
Heptachlor epoxide	0.037	U	0.050	ug/L							
Methoxychlor	0.025	U	0.050	ug/L							
Toxaphene	0.22	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*0.72*			*ug/L*	*1.00*		*72*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.96*			*ug/L*	*1.00*		*96*	*37-149*			

LCS (5J08015-BS1) Prepared: 10/08/2015 10:58 Analyzed: 10/14/2015 16:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.1		0.050	ug/L	1.00		106	37-139			
Dieldrin	1.2		0.050	ug/L	1.00		116	46-132			
Endrin	1.2		0.050	ug/L	1.00		116	43-133			
Surrogate: 2,4,5,6-TCMX	*0.93*			*ug/L*	*1.00*		*93*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.88*			*ug/L*	*1.00*		*88*	*37-149*			

Matrix Spike (5J08015-MS1) Prepared: 10/08/2015 10:58 Analyzed: 10/14/2015 16:37

Source: C512889-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.1		0.050	ug/L	1.00	0.049 U	106	37-139			
Dieldrin	1.2		0.050	ug/L	1.00	0.045 U	116	46-132			
Endrin	1.2		0.050	ug/L	1.00	0.041 U	116	43-133			
Surrogate: 2,4,5,6-TCMX	*0.84*			*ug/L*	*1.00*		*84*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.80*			*ug/L*	*1.00*		*80*	*37-149*			

Matrix Spike Dup (5J08015-MSD1) Prepared: 10/08/2015 10:58 Analyzed: 10/14/2015 16:51

Source: C512889-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.0		0.050	ug/L	1.00	0.049 U	103	37-139	3	26	
Dieldrin	1.2		0.050	ug/L	1.00	0.045 U	116	46-132	0.2	27	
Endrin	1.1		0.050	ug/L	1.00	0.041 U	114	43-133	1	26	
Surrogate: 2,4,5,6-TCMX	*0.85*			*ug/L*	*1.00*		*85*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.80*			*ug/L*	*1.00*		*80*	*37-149*			

Polychlorinated Biphenyls by GC - Quality Control

QUALITY CONTROL

Polychlorinated Biphenyls by GC - Quality Control

Batch 5J08017 - EPA 3510C

Blank (5J08017-BLK1) Prepared: 10/08/2015 11:30 Analyzed: 10/14/2015 16:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	0.43	U	0.50	ug/L							
PCB-1221	0.37	U	0.50	ug/L							
PCB-1232	0.45	U	0.50	ug/L							
PCB-1248	0.014	U	0.50	ug/L							
PCB-1254	0.37	U	0.50	ug/L							
PCB-1260	0.45	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*0.72*			*ug/L*	*1.00*		*72*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.96*			*ug/L*	*1.00*		*96*	*42-159*			

LCS (5J08017-BS1) Prepared: 10/08/2015 11:30 Analyzed: 10/14/2015 17:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	9.4		0.50	ug/L	10.0		94	66-149			
PCB-1260	10		0.50	ug/L	10.0		100	64-150			
Surrogate: 2,4,5,6-TCMX	*0.80*			*ug/L*	*1.00*		*80*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.56*			*ug/L*	*1.00*		*56*	*42-159*			

Matrix Spike (5J08017-MS1) Prepared: 10/08/2015 11:30 Analyzed: 10/14/2015 17:17

Source: C512889-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	9.5		0.50	ug/L	10.0	0.43 U	95	66-149			
PCB-1260	9.8		0.50	ug/L	10.0	0.45 U	98	64-150			
Surrogate: 2,4,5,6-TCMX	*0.76*			*ug/L*	*1.00*		*76*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.76*			*ug/L*	*1.00*		*76*	*42-159*			

Matrix Spike Dup (5J08017-MSD1) Prepared: 10/08/2015 11:30 Analyzed: 10/14/2015 17:30

Source: C512889-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	11		0.50	ug/L	10.0	0.43 U	109	66-149	14	21	
PCB-1260	12		0.50	ug/L	10.0	0.45 U	117	64-150	17	18	
Surrogate: 2,4,5,6-TCMX	*0.86*			*ug/L*	*1.00*		*86*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.83*			*ug/L*	*1.00*		*83*	*42-159*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 5J12008 - EPA 7470A

Blank (5J12008-BLK1) Prepared: 10/12/2015 08:24 Analyzed: 10/13/2015 10:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (5J12008-BS1) Prepared: 10/12/2015 08:24 Analyzed: 10/13/2015 10:31

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 5J12008 - EPA 7470A

LCS (5J12008-BS1) Continued Prepared: 10/12/2015 08:24 Analyzed: 10/13/2015 10:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.50		0.200	ug/L	5.00		90	80-120			

Matrix Spike (5J12008-MS1) Prepared: 10/12/2015 08:24 Analyzed: 10/13/2015 10:35

Source: C512353-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	3.91		0.200	ug/L	5.00	0.170 U	78	75-125			

Matrix Spike Dup (5J12008-MSD1) Prepared: 10/12/2015 08:24 Analyzed: 10/13/2015 10:42

Source: C512353-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	3.96		0.200	ug/L	5.00	0.170 U	79	75-125	1	25	

Post Spike (5J12008-PS1) Prepared: 10/12/2015 08:24 Analyzed: 10/13/2015 10:44

Source: C512353-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.21		0.200	ug/L	5.00	0.0370	83	75-125			

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 5J07012 - EPA 3005A

Blank (5J07012-BLK1) Prepared: 10/07/2015 08:48 Analyzed: 10/12/2015 11:29

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Selenium	0.910	U	3.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (5J07012-BS1) Prepared: 10/07/2015 08:48 Analyzed: 10/12/2015 11:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	195		2.00	ug/L	200		98	80-120			
Selenium	212		3.00	ug/L	200		106	80-120			
Thallium	205		1.00	ug/L	200		103	80-120			

Matrix Spike (5J07012-MS1) Prepared: 10/07/2015 08:48 Analyzed: 10/12/2015 11:40

Source: C512353-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	208		2.00	ug/L	200	2.31	103	75-125			
Selenium	216		3.00	ug/L	200	0.910 U	108	75-125			
Thallium	176		1.00	ug/L	200	0.110 U	88	75-125			

Matrix Spike Dup (5J07012-MSD1) Prepared: 10/07/2015 08:48 Analyzed: 10/12/2015 11:43

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 5J07012 - EPA 3005A

Matrix Spike Dup (5J07012-MSD1) Continued Prepared: 10/07/2015 08:48 Analyzed: 10/12/2015 11:43

Source: C512353-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	208		2.00	ug/L	200	2.31	103	75-125	0.4	20	
Selenium	228		3.00	ug/L	200	0.910 U	114	75-125	5	20	
Thallium	175		1.00	ug/L	200	0.110 U	88	75-125	0.7	20	

Post Spike (5J07012-PS1) Prepared: 10/07/2015 08:48 Analyzed: 10/12/2015 11:47

Source: C512353-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	208		2.00	ug/L	200	2.31	103	80-120			
Selenium	215		3.00	ug/L	200	0.327	108	80-120			
Thallium	184		1.00	ug/L	200	0.0595	92	80-120			

Batch 5J08011 - EPA 3005A

Blank (5J08011-BLK1) Prepared: 10/08/2015 08:50 Analyzed: 10/12/2015 13:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	6.80	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.40	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	3.10	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Tin	2.40	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (5J08011-BS1) Prepared: 10/08/2015 08:50 Analyzed: 10/12/2015 13:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	200		10.0	ug/L	200		100	80-120			
Barium	199		10.0	ug/L	200		99	80-120			
Beryllium	19.8		1.00	ug/L	20.0		99	80-120			
Cadmium	20.6		1.00	ug/L	20.0		103	80-120			
Chromium	199		10.0	ug/L	200		99	80-120			
Cobalt	201		10.0	ug/L	200		101	80-120			
Copper	194		10.0	ug/L	200		97	80-120			
Lead	202		10.0	ug/L	200		101	80-120			
Nickel	201		10.0	ug/L	200		100	80-120			
Silver	189		10.0	ug/L	200		94	80-120			
Tin	202		10.0	ug/L	200		101	80-120			
Vanadium	193		10.0	ug/L	200		96	80-120			
Zinc	200		10.0	ug/L	200		100	80-120			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 5J08011 - EPA 3005A

Matrix Spike (5J08011-MS1) Prepared: 10/08/2015 08:50 Analyzed: 10/12/2015 14:04

Source: C512353-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	197		10.0	ug/L	200	6.80 U	99	75-125			
Barium	394		10.0	ug/L	200	201	96	75-125			
Beryllium	19.9		1.00	ug/L	20.0	0.100 U	100	75-125			
Cadmium	19.9		1.00	ug/L	20.0	0.360 U	99	75-125			
Chromium	197		10.0	ug/L	200	1.40 U	99	75-125			
Cobalt	209		10.0	ug/L	200	12.9	98	75-125			
Copper	195		10.0	ug/L	200	1.60 U	98	75-125			
Lead	198		10.0	ug/L	200	3.10 U	99	75-125			
Nickel	208		10.0	ug/L	200	12.1	98	75-125			
Silver	186		10.0	ug/L	200	1.90 U	93	75-125			
Tin	197		10.0	ug/L	200	2.40 U	98	75-125			
Vanadium	194		10.0	ug/L	200	1.40 U	97	75-125			
Zinc	199		10.0	ug/L	200	3.80 U	100	75-125			

Matrix Spike Dup (5J08011-MSD1) Prepared: 10/08/2015 08:50 Analyzed: 10/12/2015 14:15

Source: C512353-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	198		10.0	ug/L	200	6.80 U	99	75-125	0.2	20	
Barium	378		10.0	ug/L	200	201	89	75-125	4	20	
Beryllium	19.4		1.00	ug/L	20.0	0.100 U	97	75-125	3	20	
Cadmium	19.8		1.00	ug/L	20.0	0.360 U	99	75-125	0.4	20	
Chromium	192		10.0	ug/L	200	1.40 U	96	75-125	3	20	
Cobalt	206		10.0	ug/L	200	12.9	97	75-125	1	20	
Copper	189		10.0	ug/L	200	1.60 U	95	75-125	3	20	
Lead	199		10.0	ug/L	200	3.10 U	99	75-125	0.3	20	
Nickel	202		10.0	ug/L	200	12.1	95	75-125	3	20	
Silver	181		10.0	ug/L	200	1.90 U	91	75-125	3	20	
Tin	194		10.0	ug/L	200	2.40 U	97	75-125	1	20	
Vanadium	188		10.0	ug/L	200	1.40 U	94	75-125	3	20	
Zinc	194		10.0	ug/L	200	3.80 U	97	75-125	2	20	

Post Spike (5J08011-PS1) Prepared: 10/08/2015 08:50 Analyzed: 10/12/2015 14:18

Source: C512353-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.195		0.0100	mg/L	0.200	0.000622	97	80-120			
Barium	0.390		0.0100	mg/L	0.200	0.201	95	80-120			
Beryllium	0.0198		0.00100	mg/L	0.0200	-3.90E-5	99	80-120			
Cadmium	0.0202		0.00100	mg/L	0.0200	-7.50E-5	101	80-120			
Chromium	0.195		0.0100	mg/L	0.200	0.000972	97	80-120			
Cobalt	0.211		0.0100	mg/L	0.200	0.0129	99	80-120			
Copper	0.193		0.0100	mg/L	0.200	0.000858	96	80-120			
Lead	0.203		0.0100	mg/L	0.200	0.00292	100	80-120			
Nickel	0.207		0.0100	mg/L	0.200	0.0121	97	80-120			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 5J08011 - EPA 3005A

Post Spike (5J08011-PS1) Continued Prepared: 10/08/2015 08:50 Analyzed: 10/12/2015 14:18

Source: C512353-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Silver	0.181		0.0100	mg/L	0.200	-7.54E-5	90	80-120			
Tin	0.201		0.0100	mg/L	0.200	-0.00149	100	80-120			
Vanadium	0.191		0.0100	mg/L	0.200	0.000661	95	80-120			
Zinc	0.205		0.0100	mg/L	0.200	-5.12E-6	103	80-120			

Classical Chemistry Parameters - Quality Control

Batch 5J08008 - Same

Blank (5J08008-BLK1) Prepared: 10/08/2015 09:47 Analyzed: 10/12/2015 15:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.0049	U	0.010	mg/L							

LCS (5J08008-BS1) Prepared: 10/08/2015 09:47 Analyzed: 10/12/2015 15:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.15		0.010	mg/L	0.150		99	85-115			

Matrix Spike (5J08008-MS1) Prepared: 10/08/2015 09:47 Analyzed: 10/12/2015 15:26

Source: C510809-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.13		0.010	mg/L	0.150	0.0049 U	83	85-115			QM-05

Matrix Spike Dup (5J08008-MSD1) Prepared: 10/08/2015 09:47 Analyzed: 10/12/2015 15:28

Source: C510809-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.12		0.010	mg/L	0.150	0.0049 U	80	85-115	4	20	QM-05

Batch 5J10002 - NO PREP

Blank (5J10002-BLK1) Prepared: 10/10/2015 11:33 Analyzed: 10/10/2015 11:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.010	U	0.10	mg/L							

LCS (5J10002-BS1) Prepared: 10/10/2015 11:33 Analyzed: 10/10/2015 11:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.43		0.10	mg/L	0.401		108	80-120			

Duplicate (5J10002-DUP1) Prepared: 10/10/2015 11:33 Analyzed: 10/10/2015 11:50

Source: C512353-02

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 5J10002 - NO PREP

Duplicate (5J10002-DUP1) Continued Prepared: 10/10/2015 11:33 Analyzed: 10/10/2015 11:50

Source: C512353-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.010	U	0.10	mg/L		0.010 U				25	

Matrix Spike (5J10002-MS1) Prepared: 10/10/2015 11:33 Analyzed: 10/10/2015 11:50

Source: C512353-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.010	U	0.10	mg/L	0.401	0.010 U		80-120			QM-05

Matrix Spike Dup (5J10002-MSD1) Prepared: 10/10/2015 11:33 Analyzed: 10/10/2015 11:50

Source: C512353-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.010	U	0.10	mg/L	0.401	0.010 U		80-120		25	QM-05

Batch 5J13008 - Same

Blank (5J13008-BLK1) Prepared: 10/13/2015 09:38 Analyzed: 10/15/2015 10:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.0049	U	0.010	mg/L							

LCS (5J13008-BS1) Prepared: 10/13/2015 09:38 Analyzed: 10/15/2015 10:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.14		0.010	mg/L	0.150		91	85-115			

Matrix Spike (5J13008-MS1) Prepared: 10/13/2015 09:38 Analyzed: 10/15/2015 10:14

Source: C512286-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.15		0.010	mg/L	0.150	0.0049 U	98	85-115			

Matrix Spike (5J13008-MS2) Prepared: 10/13/2015 09:38 Analyzed: 10/15/2015 10:16

Source: C512287-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.14		0.010	mg/L	0.150	0.0049 U	91	85-115			

Matrix Spike Dup (5J13008-MSD1) Prepared: 10/13/2015 09:38 Analyzed: 10/15/2015 10:18

Source: C512286-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.14		0.010	mg/L	0.150	0.0049 U	96	85-115	2	20	

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 5J12002 - EPA 3510C

Blank (5J12002-BLK1) Prepared: 10/12/2015 10:30 Analyzed: 10/13/2015 12:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.28	U	0.50	ug/L							
2,4,5-TP (Silvex)	0.44	U	0.50	ug/L							
2,4-D	0.27	U	0.50	ug/L							
Dinoseb	0.32	U	0.50	ug/L							
Pentachlorophenol	0.19	U	0.50	ug/L							
Surrogate: 2,4-DCAA	*1.4*			*ug/L*	*2.00*		*70*	*48-151*			

LCS (5J12002-BS1) Prepared: 10/12/2015 10:30 Analyzed: 10/13/2015 12:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.2		0.50	ug/L	2.00		60	47-142			
2,4-D	1.1		0.50	ug/L	2.00		57	37-129			
Surrogate: 2,4-DCAA	*1.3*			*ug/L*	*2.00*		*64*	*48-151*			

Matrix Spike (5J12002-MS1) Prepared: 10/12/2015 10:30 Analyzed: 10/13/2015 13:22

Source: A506504-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.6		0.50	ug/L	2.00	0.44 U	78	47-142			
2,4-D	1.4		0.50	ug/L	2.00	0.27 U	70	37-129			
Surrogate: 2,4-DCAA	*1.7*			*ug/L*	*2.00*		*84*	*48-151*			

Matrix Spike Dup (5J12002-MSD1) Prepared: 10/12/2015 10:30 Analyzed: 10/13/2015 13:47

Source: A506504-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.2		0.50	ug/L	2.00	0.44 U	62	47-142	24	15	QM-11
2,4-D	1.1		0.50	ug/L	2.00	0.27 U	54	37-129	25	33	
Surrogate: 2,4-DCAA	*1.2*			*ug/L*	*2.00*		*62*	*48-151*			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
J-02	Result is estimated due to bias in the associated laboratory control sample (LCS).
J-04	Result estimated, calibration verification standard failed with high bias.
QL-02	The associated laboratory control sample exhibited high bias; since the result is ND, the impact on data quality is minimal.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.
QS-06	Surrogate recovery exceeded acceptance criteria due to coelution. Matrix effect confirmed.
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515

Page 1 of 1

Client Name: City of Greensboro (CI034)	Project Number: [none]
Address: 2503 White Street	Project Name/Desc: White Street Landfill App IIs
City/ST/Zip: Greensboro, NC 27405	PO # / Billing Info
Tel: (336) 373-4188 Fax:	Reporting Contact: Lewis Walker
Sampler(s) Name, Affiliation (Print): BRADLEY KEYSE / S&ME	Billing Contact: Angie Wade
Sampler(s) Signature: [signature]	Site Location / Time Zone

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✗ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C512353

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8081B Appendix 2	8082A Appendix 2, 8151A Appendix 2, 8270D Appendix 2	8260B Appendix 2, 8260B Extended	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Sn,Tl,V,Zn	Cyanide Total 9014	Hg	Sulfide SM4500-S D				Sample Comments
	~~4103-Duplicate#1~~				~~GW~~	~~9~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~ Bk				
	~~4103-TripBlank#1~~				~~GW~~	~~2~~			~~X~~				Bk				
	~~4103-TripBlank#2~~				~~GW~~	~~2~~			~~X~~				Bk				
	4103-#2	10-5-15	1130	G	GW	9	X	X	X	X	X	X	X				
	4103-#3	10-6-15	850	G	GW	9	X	X	X	X	X	X	X				
	4103-#3B	10-5-15	1545	G	GW	9	X	X	X	X	X	X	X				
	4103-#4A	10-5-15	1735	G	GW	9	X	X	X	X	X	X	X				
	4103-#5	10-5-15	1330	G	GW	9	X	X	X	X	X	X	X				
	4103-#6	10-6-15	1025	G	GW	9	X	X	X	X	X	X	X				

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: [signature] S&ME	Date/Time: 10-6-15 / 1130	Received By: B.W.	Date/Time: 10/6/15 11:30
Comments/Special Reporting Requirements		Relinquished By: B.W.	Date/Time: 10/6/15 13:15	Received By: [signature]	Date/Time: 10/6/15 1315
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 3.6°C		Condition Upon Receipt: ✓ Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

Sample Preservation Verification

ENCO Cary

Work Order:	C512353	Project:	White Street Landfill App IIs
Client:	City of Greensboro (CI034)	Project #:	[none]
Logged In:	06-Oct-15 13:43	Logged By:	Andrew S Coons

C512353-01

Cont	Type	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
D	250mLP+HNO3	<2	Y / N / NA	Y / N / NA		
E	250mLP+NaOH	>12	Y / N / NA	Y / N / NA		
F	250mLP+ZnAc+NaOH	>9	Y / N / NA	Y / N / NA		

C512353-02

Cont	Type	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
D	250mLP+HNO3	<2	Y / N / NA	Y / N / NA		
E	250mLP+NaOH	>12	Y / N / NA	Y / N / NA		
F	250mLP+ZnAc+NaOH	>9	Y / N / NA	Y / N / NA		

C512353-03

Cont	Type	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
D	250mLP+HNO3	<2	Y / N / NA	Y / N / NA		
E	250mLP+NaOH	>12	Y / N / NA	Y / N / NA	10/6 @ 13:40	+1mL NAOH
F	250mLP+ZnAc+NaOH	>9	Y / N / NA	Y / N / NA	+	+

C512353-04

Cont	Type	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
D	250mLP+HNO3	<2	Y / N / NA	Y / N / NA		
E	250mLP+NaOH	>12	Y / N / NA	Y / N / NA		
F	250mLP+ZnAc+NaOH	>9	Y / N / NA	Y / N / NA		

C512353-05

Cont	Type	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
D	250mLP+HNO3	<2	Y / N / NA	Y / N / NA		
E	250mLP+NaOH	>12	Y / N / NA	Y / N / NA		
F	250mLP+ZnAc+NaOH	>9	Y / N / NA	Y / N / NA		

C512353-06

Cont	Type	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
D	250mLP+HNO3	<2	Y / N / NA	Y / N / NA		
E	250mLP+NaOH	>12	Y / N / NA	Y / N / NA		
F	250mLP+ZnAc+NaOH	>9	Y / N / NA	Y / N / NA		

Sample Preservation Verification

ENCO Cary

Work Order:	C512353	Project:	White Street Landfill App IIs
Client:	City of Greensboro (CI034)	Project #:	[none]
Logged In:	06-Oct-15 13:43	Logged By:	Andrew S Coons

	Reagent Name	ID
1	NAOH	C510396
2		

	Reagent Name	ID
3		
4		

	Reagent Name	ID
5		
6		

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Tuesday, October 20, 2015

City of Greensboro (CI034)

Attn: Lewis Walker

2503 White Street

Greensboro, NC 27405

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: White Street Landfill App IIs - CAS
ENCO Workorder(s): C512354

Dear Lewis Walker,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, October 8, 2015.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 79.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4103-SMW4 **Lab ID: C512354-01** **Sampled: 10/07/15 17:45** **Received: 10/08/15 14:00**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	04/04/16		10/12/15	13:35	10/15/2015	13:29
EPA 6020A	04/04/16		10/13/15	14:32	10/15/2015	13:40
EPA 7470A	11/04/15		10/14/15	09:21	10/15/2015	11:07
EPA 8081B	10/14/15	11/22/15	10/13/15	12:00	10/19/2015	15:43
EPA 8082A	10/06/16	11/22/15	10/13/15	12:00	10/16/2015	15:30
EPA 8151A	10/14/15	11/21/15	10/12/15	10:30	10/13/2015	19:46
EPA 8260B	10/21/15		10/15/15	10:29	10/15/2015	15:02
EPA 8270D	10/14/15	11/21/15	10/12/15	14:13	10/15/2015	23:56
EPA 9014	10/21/15		10/15/15	09:38	10/19/2015	09:27
SM 4500S2 D-2000	10/14/15		10/10/15	13:05	10/10/2015	13:52

Client ID: 4103-SMW1 **Lab ID: C512354-02** **Sampled: 10/07/15 16:20** **Received: 10/08/15 14:00**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	04/04/16		10/12/15	13:35	10/15/2015	13:32
EPA 6020A	04/04/16		10/13/15	14:32	10/15/2015	14:13
EPA 7470A	11/04/15		10/14/15	09:21	10/15/2015	11:12
EPA 8081B	10/14/15	11/22/15	10/13/15	12:00	10/19/2015	15:57
EPA 8082A	10/06/16	11/22/15	10/13/15	12:00	10/16/2015	15:57
EPA 8151A	10/14/15	11/21/15	10/12/15	10:30	10/13/2015	20:11
EPA 8260B	10/21/15		10/15/15	10:29	10/15/2015	15:31
EPA 8270D	10/14/15	11/21/15	10/12/15	14:13	10/16/2015	00:27
EPA 9014	10/21/15		10/15/15	09:38	10/19/2015	09:29
SM 4500S2 D-2000	10/14/15		10/10/15	13:05	10/10/2015	13:52

Client ID: 4103-II1 **Lab ID: C512354-03** **Sampled: 10/07/15 13:15** **Received: 10/08/15 14:00**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	04/04/16		10/12/15	13:35	10/15/2015	13:34
EPA 6020A	04/04/16		10/13/15	14:32	10/15/2015	14:17
EPA 7470A	11/04/15		10/14/15	09:21	10/15/2015	11:14
EPA 8081B	10/14/15	11/22/15	10/13/15	12:00	10/19/2015	16:10
EPA 8082A	10/06/16	11/22/15	10/13/15	12:00	10/16/2015	16:10
EPA 8151A	10/14/15	11/21/15	10/12/15	10:30	10/13/2015	20:37
EPA 8260B	10/21/15		10/15/15	10:29	10/15/2015	15:59
EPA 8270D	10/14/15	11/21/15	10/12/15	14:13	10/16/2015	00:58
EPA 9014	10/21/15		10/15/15	09:38	10/19/2015	09:31
SM 4500S2 D-2000	10/14/15		10/10/15	15:54	10/10/2015	16:30

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Client ID: 4103-II12	Lab ID: C512354-04	Sampled: 10/08/15 07:55	Received: 10/08/15 14:00

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	04/05/16		10/12/15	13:35	10/15/2015	13:37
EPA 6020A	04/05/16		10/13/15	14:32	10/15/2015	14:21
EPA 7470A	11/05/15		10/14/15	09:21	10/15/2015	11:16
EPA 8081B	10/15/15	11/22/15	10/13/15	12:00	10/19/2015	16:23
EPA 8082A	10/07/16	11/22/15	10/13/15	12:00	10/16/2015	16:23
EPA 8151A	10/15/15	11/21/15	10/12/15	10:30	10/13/2015	21:03
EPA 8260B	10/22/15		10/15/15	12:16	10/16/2015	19:33
EPA 8270D	10/15/15	11/21/15	10/12/15	14:13	10/16/2015	01:29
EPA 9014	10/22/15		10/15/15	12:13	10/19/2015	09:33
SM 4500S2 D-2000	10/15/15		10/10/15	15:54	10/10/2015	16:30

Client ID: 4103-MW-13	Lab ID: C512354-05	Sampled: 10/08/15 09:20	Received: 10/08/15 14:00

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	04/05/16		10/12/15	13:35	10/15/2015	13:49
EPA 6020A	04/05/16		10/13/15	14:32	10/15/2015	14:24
EPA 7470A	11/05/15		10/14/15	09:21	10/15/2015	11:18
EPA 8081B	10/15/15	11/22/15	10/13/15	12:00	10/19/2015	16:36
EPA 8082A	10/07/16	11/22/15	10/13/15	12:00	10/16/2015	16:37
EPA 8151A	10/15/15	11/21/15	10/12/15	10:30	10/13/2015	21:28
EPA 8260B	10/22/15		10/15/15	12:16	10/16/2015	20:02
EPA 8270D	10/15/15	11/21/15	10/12/15	14:13	10/16/2015	02:00
EPA 9014	10/22/15		10/15/15	12:13	10/19/2015	09:39
SM 4500S2 D-2000	10/15/15		10/10/15	15:54	10/10/2015	16:30

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 4103-SMW4 **Lab ID: C512354-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	2.43	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	59.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	0.365	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	5.87	J	1	1.40	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	3.59	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	12.1		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4103-SMW1 **Lab ID: C512354-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.456	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	69.0	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	3.45		1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	2.19	J	1	1.40	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	19.9		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	12.9		1	1.60	10.0	10	ug/L	EPA 6010C	
Mercury - Total	0.176	J	1	0.170	0.200	0.2	ug/L	EPA 7470A	
Nickel - Total	4.18	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Silver - Total	1.92	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	5.44	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	280		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4103-II1 **Lab ID: C512354-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.86	J	1	0.13	1.0	5	ug/L	EPA 8260B	
1,2-Dichlorobenzene	0.46	J	1	0.19	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	7.6		1	0.19	1.0	1	ug/L	EPA 8260B	
Antimony - Total	0.418	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	424		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	1.2		1	0.15	1.0	1	ug/L	EPA 8260B	
Carbon tetrachloride	0.47	J	1	0.17	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	3.4		1	0.17	1.0	3	ug/L	EPA 8260B	
Chloroethane	0.94	J	1	0.23	1.0	10	ug/L	EPA 8260B	
Chromium - Total	3.16	J	1	1.40	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	42.7		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	13.3		1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	27.7	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Silver - Total	7.83	J	1	1.90	10.0	10	ug/L	EPA 6010C	

Client ID: 4103-II12 **Lab ID: C512354-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	221		1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	3.17	J	1	1.40	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	9.65	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	3.06	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Sulfide	0.059	J	1	0.010	0.10	1000	mg/L	SM 4500S2 D-2000	
Vanadium - Total	12.8	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	7.21	J	1	3.80	10.0	10	ug/L	EPA 6010C	

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Client ID: 4103-MW-13								Lab ID: C512354-05	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Barium - Total	93.3	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Bis(2-ethylhexyl)phthalate	1.8	J	1	1.7	5.0	15	ug/L	EPA 8270D	
Silver - Total	2.79	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	4.71	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	4.19	J	1	3.80	10.0	10	ug/L	EPA 6010C	

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ANALYTICAL RESULTS

Description: 4103-SMW4 **Lab Sample ID:** C512354-01 **Received:** 10/08/15 14:00

Matrix: Ground Water **Sampled:** 10/07/15 17:45 **Work Order:** C512354

Project: White Street Landfill App IIs - CAS **Sampled By:** Bradley Keise

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/15/15 15:02	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/15/15 15:02	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/15/15 15:02	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/15/15 15:02	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/15/15 15:02	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/15/15 15:02	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/15/15 15:02	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/15/15 15:02	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/15/15 15:02	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/15/15 15:02	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/15/15 15:02	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/15/15 15:02	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/15/15 15:02	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/15/15 15:02	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/15/15 15:02	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/15/15 15:02	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/15/15 15:02	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/15/15 15:02	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/15/15 15:02	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/15/15 15:02	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/15/15 15:02	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/15/15 15:02	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/15/15 15:02	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/15/15 15:02	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/15/15 15:02	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/15/15 15:02	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/15 15:02	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/15/15 15:02	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/15 15:02	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/15/15 15:02	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/15/15 15:02	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/15/15 15:02	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/15 15:02	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/15/15 15:02	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/15/15 15:02	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/15/15 15:02	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/15/15 15:02	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/15/15 15:02	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/15/15 15:02	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/15/15 15:02	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/15/15 15:02	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/15/15 15:02	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/15/15 15:02	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/15/15 15:02	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/15/15 15:02	MSZ	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	10/15/15 15:02	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/15/15 15:02	MSZ	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/15/15 15:02	MSZ	

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Description: 4103-SMW4 | **Lab Sample ID:** C512354-01 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/07/15 17:45 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/15/15 15:02	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/15/15 15:02	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/15/15 15:02	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/15/15 15:02	MSZ	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/15/15 15:02	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/15/15 15:02	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/15 15:02	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/15/15 15:02	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/15/15 15:02	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/15 15:02	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/15/15 15:02	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/15 15:02	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/15/15 15:02	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/15/15 15:02	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/15/15 15:02	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/15/15 15:02	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*95 %*	*53-136*	*5J15019*	*EPA 8260B*	*10/15/15 15:02*	*MSZ*	
Dibromofluoromethane	*56*	*1*	*50.0*	*113 %*	*67-129*	*5J15019*	*EPA 8260B*	*10/15/15 15:02*	*MSZ*	
Toluene-d8	*48*	*1*	*50.0*	*97 %*	*59-134*	*5J15019*	*EPA 8260B*	*10/15/15 15:02*	*MSZ*	

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Description: 4103-SMW4 | **Lab Sample ID:** C512354-01 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/07/15 17:45 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/15/15 23:56	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/15/15 23:56	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/15/15 23:56	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/15/15 23:56	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/15/15 23:56	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/15/15 23:56	DFM	QV-02
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/15/15 23:56	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/15/15 23:56	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/15/15 23:56	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/15/15 23:56	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/15/15 23:56	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/15/15 23:56	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/15/15 23:56	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/15/15 23:56	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/15/15 23:56	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/15/15 23:56	DFM	QV-01
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/15/15 23:56	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/15/15 23:56	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/15/15 23:56	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/15/15 23:56	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/15/15 23:56	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/15/15 23:56	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/15/15 23:56	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/15/15 23:56	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/15/15 23:56	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/15/15 23:56	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/15/15 23:56	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/15/15 23:56	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/15/15 23:56	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/15/15 23:56	DFM	QV-02
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/15/15 23:56	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/15/15 23:56	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/15/15 23:56	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/15/15 23:56	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/15/15 23:56	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/15/15 23:56	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/15/15 23:56	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/15/15 23:56	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/15/15 23:56	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/15/15 23:56	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/15/15 23:56	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/15/15 23:56	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/15/15 23:56	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/15/15 23:56	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/15/15 23:56	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/15/15 23:56	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/15/15 23:56	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/15/15 23:56	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/15/15 23:56	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/15/15 23:56	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/15/15 23:56	DFM	

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Description: 4103-SMW4 | **Lab Sample ID:** C512354-01 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/07/15 17:45 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/15/15 23:56	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/15/15 23:56	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/15/15 23:56	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/15/15 23:56	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/15/15 23:56	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/15/15 23:56	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/15/15 23:56	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/15/15 23:56	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/15/15 23:56	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/15/15 23:56	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/15/15 23:56	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/15/15 23:56	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/15/15 23:56	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/15/15 23:56	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/15/15 23:56	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/15/15 23:56	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/15/15 23:56	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/15/15 23:56	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/15/15 23:56	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/15/15 23:56	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/15/15 23:56	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/15/15 23:56	DFM	QV-01
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/15/15 23:56	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/15/15 23:56	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/15/15 23:56	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/15/15 23:56	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/15/15 23:56	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/15/15 23:56	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/15/15 23:56	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/15/15 23:56	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/15/15 23:56	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/15/15 23:56	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/15/15 23:56	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/15/15 23:56	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/15/15 23:56	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/15/15 23:56	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/15/15 23:56	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/15/15 23:56	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/15/15 23:56	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/15/15 23:56	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/15/15 23:56	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/15/15 23:56	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/15/15 23:56	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/15/15 23:56	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/15/15 23:56	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/15/15 23:56	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/15/15 23:56	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/15/15 23:56	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/15/15 23:56	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/15/15 23:56	DFM	

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Description: 4103-SMW4 | **Lab Sample ID:** C512354-01 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/07/15 17:45 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/15/15 23:56	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/15/15 23:56	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/15/15 23:56	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*78*	*1*	*100*	*78 %*	*10-179*	*5J12029*	*EPA 8270D*	*10/15/15 23:56*	*DFM*	
2-Fluorobiphenyl	*42*	*1*	*50.0*	*83 %*	*10-149*	*5J12029*	*EPA 8270D*	*10/15/15 23:56*	*DFM*	
2-Fluorophenol	*61*	*1*	*100*	*61 %*	*10-110*	*5J12029*	*EPA 8270D*	*10/15/15 23:56*	*DFM*	
Nitrobenzene-d5	*40*	*1*	*50.0*	*81 %*	*10-149*	*5J12029*	*EPA 8270D*	*10/15/15 23:56*	*DFM*	
Phenol-d5	*52*	*1*	*100*	*52 %*	*10-88*	*5J12029*	*EPA 8270D*	*10/15/15 23:56*	*DFM*	
Terphenyl-d14	*55*	*1*	*50.0*	*110 %*	*10-188*	*5J12029*	*EPA 8270D*	*10/15/15 23:56*	*DFM*	

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Description: 4103-SMW4 | **Lab Sample ID:** C512354-01 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/07/15 17:45 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	10/19/15 15:43	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	10/19/15 15:43	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	10/19/15 15:43	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	10/19/15 15:43	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/19/15 15:43	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/19/15 15:43	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	10/19/15 15:43	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	10/19/15 15:43	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	10/19/15 15:43	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	10/19/15 15:43	MWC	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	10/19/15 15:43	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	10/19/15 15:43	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	10/19/15 15:43	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	10/19/15 15:43	MWC	QV-01
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	10/19/15 15:43	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	10/19/15 15:43	MWC	QV-01
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	10/19/15 15:43	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	10/19/15 15:43	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	10/19/15 15:43	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	10/19/15 15:43	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	10/19/15 15:43	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.89*	*1*	*1.00*	*89 %*	*44-134*	*5J13002*	*EPA 8081B*	*10/19/15 15:43*	*MWC*	
Decachlorobiphenyl	*0.88*	*1*	*1.00*	*88 %*	*37-149*	*5J13002*	*EPA 8081B*	*10/19/15 15:43*	*MWC*	

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Description: 4103-SMW4 | **Lab Sample ID:** C512354-01 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/07/15 17:45 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/16/15 15:30	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/16/15 15:30	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/16/15 15:30	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/16/15 15:30	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/16/15 15:30	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/16/15 15:30	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.80*	*1*	*1.00*	*80 %*	*45-151*	*5J13003*	*EPA 8082A*	*10/16/15 15:30*	*MWC*	
Decachlorobiphenyl	*0.76*	*1*	*1.00*	*76 %*	*42-159*	*5J13003*	*EPA 8082A*	*10/16/15 15:30*	*MWC*	

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Description: 4103-SMW4
Matrix: Ground Water
Project: White Street Landfill App IIs - CAS

Lab Sample ID: C512354-01
Sampled: 10/07/15 17:45
Sampled By: Bradley Keise

Received: 10/08/15 14:00
Work Order: C512354

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/15/15 11:07	BAM	

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Description: 4103-SMW4 | **Lab Sample ID:** C512354-01 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/07/15 17:45 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**2.43**	J	ug/L	1	0.220	2.00	6	EPA 6020A	10/15/15 13:40	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	10/15/15 13:29	JDH	
Barium [7440-39-3] ^	**59.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	10/15/15 13:29	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/15/15 13:29	JDH	
Cadmium [7440-43-9] ^	**0.365**	J	ug/L	1	0.360	1.00	1	EPA 6010C	10/15/15 13:29	JDH	
Chromium [7440-47-3] ^	**5.87**	J	ug/L	1	1.40	10.0	10	EPA 6010C	10/15/15 13:29	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	10/15/15 13:29	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/15/15 13:29	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	10/15/15 13:29	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	10/15/15 13:29	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/15/15 13:40	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/15/15 13:29	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/15/15 13:40	VLO	
Tin [7440-31-5] ^	2.40	U	ug/L	1	2.40	10.0	100	EPA 6010C	10/15/15 13:29	JDH	
Vanadium [7440-62-2] ^	**3.59**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/15/15 13:29	JDH	
Zinc [7440-66-6] ^	**12.1**		ug/L	1	3.80	10.0	10	EPA 6010C	10/15/15 13:29	JDH	

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Description: 4103-SMW4
Matrix: Ground Water
Project: White Street Landfill App IIs - CAS

Lab Sample ID: C512354-01
Sampled: 10/07/15 17:45
Sampled By: Bradley Keise

Received: 10/08/15 14:00
Work Order: C512354

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/19/15 09:27	JLJ	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/10/15 13:52	JOC	

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Description: 4103-SMW4 | **Lab Sample ID:** C512354-01 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/07/15 17:45 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50		EPA 8151A	10/13/15 19:46	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/13/15 19:46	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/13/15 19:46	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/13/15 19:46	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/13/15 19:46	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.4*	*1*	*2.04*	*69 %*	*48-151*	*5J12002*	*EPA 8151A*	*10/13/15 19:46*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-SMW1 | **Lab Sample ID:** C512354-02 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/07/15 16:20 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/15/15 15:31	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/15/15 15:31	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/15/15 15:31	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/15/15 15:31	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/15/15 15:31	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/15/15 15:31	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/15/15 15:31	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/15/15 15:31	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/15/15 15:31	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/15/15 15:31	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/15/15 15:31	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/15/15 15:31	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/15/15 15:31	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/15/15 15:31	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/15/15 15:31	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/15/15 15:31	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/15/15 15:31	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/15/15 15:31	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/15/15 15:31	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/15/15 15:31	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/15/15 15:31	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/15/15 15:31	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/15/15 15:31	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/15/15 15:31	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/15/15 15:31	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/15/15 15:31	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/15 15:31	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/15/15 15:31	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/15 15:31	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/15/15 15:31	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/15/15 15:31	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/15/15 15:31	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/15 15:31	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/15/15 15:31	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/15/15 15:31	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/15/15 15:31	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/15/15 15:31	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/15/15 15:31	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/15/15 15:31	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/15/15 15:31	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/15/15 15:31	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/15/15 15:31	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/15/15 15:31	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/15/15 15:31	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/15/15 15:31	MSZ	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	10/15/15 15:31	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/15/15 15:31	MSZ	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/15/15 15:31	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/15/15 15:31	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/15/15 15:31	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/15/15 15:31	MSZ	

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Description: 4103-SMW1 | **Lab Sample ID:** C512354-02 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/07/15 16:20 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/15/15 15:31	MSZ	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/15/15 15:31	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/15/15 15:31	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/15 15:31	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/15/15 15:31	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/15/15 15:31	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/15 15:31	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/15/15 15:31	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/15 15:31	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/15/15 15:31	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/15/15 15:31	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/15/15 15:31	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/15/15 15:31	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*53-136*	*5J15019*	*EPA 8260B*	*10/15/15 15:31*	*MSZ*	
Dibromofluoromethane	*55*	*1*	*50.0*	*110 %*	*67-129*	*5J15019*	*EPA 8260B*	*10/15/15 15:31*	*MSZ*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*59-134*	*5J15019*	*EPA 8260B*	*10/15/15 15:31*	*MSZ*	

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Description: 4103-SMW1 **Lab Sample ID:** C512354-02 **Received:** 10/08/15 14:00

Matrix: Ground Water **Sampled:** 10/07/15 16:20 **Work Order:** C512354

Project: White Street Landfill App IIs - CAS **Sampled By:** Bradley Keise

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 00:27	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/16/15 00:27	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/16/15 00:27	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/16/15 00:27	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/16/15 00:27	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/16/15 00:27	DFM	QV-02
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 00:27	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 00:27	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 00:27	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 00:27	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:27	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/16/15 00:27	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/16/15 00:27	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 00:27	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 00:27	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/16/15 00:27	DFM	QV-01
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 00:27	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 00:27	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/16/15 00:27	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 00:27	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 00:27	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/16/15 00:27	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/16/15 00:27	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 00:27	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 00:27	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/16/15 00:27	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/16/15 00:27	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:27	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/16/15 00:27	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/16/15 00:27	DFM	QV-02
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 00:27	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/16/15 00:27	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/16/15 00:27	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 00:27	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/16/15 00:27	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/16/15 00:27	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/16/15 00:27	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 00:27	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 00:27	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 00:27	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:27	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 00:27	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:27	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:27	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 00:27	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/16/15 00:27	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:27	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/16/15 00:27	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 00:27	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 00:27	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:27	DFM	

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Description: 4103-SMW1 | **Lab Sample ID:** C512354-02 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/07/15 16:20 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/16/15 00:27	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 00:27	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 00:27	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 00:27	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 00:27	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/16/15 00:27	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 00:27	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 00:27	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/16/15 00:27	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 00:27	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 00:27	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/16/15 00:27	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 00:27	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/16/15 00:27	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/16/15 00:27	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 00:27	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 00:27	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 00:27	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 00:27	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:27	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 00:27	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 00:27	DFM	QV-01
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/16/15 00:27	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/16/15 00:27	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:27	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:27	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/16/15 00:27	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/16/15 00:27	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 00:27	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/16/15 00:27	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 00:27	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/16/15 00:27	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:27	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 00:27	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 00:27	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 00:27	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/16/15 00:27	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/16/15 00:27	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:27	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:27	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 00:27	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 00:27	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 00:27	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:27	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/16/15 00:27	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/16/15 00:27	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 00:27	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 00:27	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 00:27	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 00:27	DFM	

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Description: 4103-SMW1 | **Lab Sample ID:** C512354-02 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/07/15 16:20 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 00:27	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 00:27	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/16/15 00:27	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*69*	*1*	*100*	*69 %*	*10-179*	*5J12029*	*EPA 8270D*	*10/16/15 00:27*	*DFM*	
2-Fluorobiphenyl	*44*	*1*	*50.0*	*88 %*	*10-149*	*5J12029*	*EPA 8270D*	*10/16/15 00:27*	*DFM*	
2-Fluorophenol	*61*	*1*	*100*	*61 %*	*10-110*	*5J12029*	*EPA 8270D*	*10/16/15 00:27*	*DFM*	
Nitrobenzene-d5	*41*	*1*	*50.0*	*82 %*	*10-149*	*5J12029*	*EPA 8270D*	*10/16/15 00:27*	*DFM*	
Phenol-d5	*51*	*1*	*100*	*51 %*	*10-88*	*5J12029*	*EPA 8270D*	*10/16/15 00:27*	*DFM*	
Terphenyl-d14	*47*	*1*	*50.0*	*93 %*	*10-188*	*5J12029*	*EPA 8270D*	*10/16/15 00:27*	*DFM*	

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Description: 4103-SMW1 | **Lab Sample ID:** C512354-02 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/07/15 16:20 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	10/19/15 15:57	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	10/19/15 15:57	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	10/19/15 15:57	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	10/19/15 15:57	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/19/15 15:57	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/19/15 15:57	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	10/19/15 15:57	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	10/19/15 15:57	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	10/19/15 15:57	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	10/19/15 15:57	MWC	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	10/19/15 15:57	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	10/19/15 15:57	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	10/19/15 15:57	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	10/19/15 15:57	MWC	QV-01
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	10/19/15 15:57	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	10/19/15 15:57	MWC	QV-01
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	10/19/15 15:57	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	10/19/15 15:57	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	10/19/15 15:57	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	10/19/15 15:57	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	10/19/15 15:57	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.88*	*1*	*1.00*	*88 %*	*44-134*	*5J13002*	*EPA 8081B*	*10/19/15 15:57*	*MWC*	
Decachlorobiphenyl	*0.90*	*1*	*1.00*	*90 %*	*37-149*	*5J13002*	*EPA 8081B*	*10/19/15 15:57*	*MWC*	

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Description: 4103-SMW1 | **Lab Sample ID:** C512354-02 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/07/15 16:20 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/16/15 15:57	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/16/15 15:57	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/16/15 15:57	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/16/15 15:57	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/16/15 15:57	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/16/15 15:57	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.78*	*1*	*1.00*	*78 %*	*45-151*	*5J13003*	*EPA 8082A*	*10/16/15 15:57*	*MWC*	
Decachlorobiphenyl	*0.79*	*1*	*1.00*	*79 %*	*42-159*	*5J13003*	*EPA 8082A*	*10/16/15 15:57*	*MWC*	

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Description:	4103-SMW1	**Lab Sample ID:**	C512354-02	**Received:**	10/08/15 14:00
Matrix:	Ground Water	**Sampled:**	10/07/15 16:20	**Work Order:**	C512354
Project:	White Street Landfill App IIs - CAS	**Sampled By:**	Bradley Keise		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**0.176**	J	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/15/15 11:12	BAM	

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Description: 4103-SMW1 | **Lab Sample ID:** C512354-02 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/07/15 16:20 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.456**	J	ug/L	1	0.220	2.00	6	EPA 6020A	10/15/15 14:13	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	10/15/15 13:32	JDH	
Barium [7440-39-3] ^	**69.0**	J	ug/L	1	1.00	10.0	100	EPA 6010C	10/15/15 13:32	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/15/15 13:32	JDH	
Cadmium [7440-43-9] ^	**3.45**		ug/L	1	0.360	1.00	1	EPA 6010C	10/15/15 13:32	JDH	
Chromium [7440-47-3] ^	**2.19**	J	ug/L	1	1.40	10.0	10	EPA 6010C	10/15/15 13:32	JDH	
Cobalt [7440-48-4] ^	**19.9**		ug/L	1	1.10	10.0	10	EPA 6010C	10/15/15 13:32	JDH	
Copper [7440-50-8] ^	**12.9**		ug/L	1	1.60	10.0	10	EPA 6010C	10/15/15 13:32	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	10/15/15 13:32	JDH	
Nickel [7440-02-0] ^	**4.18**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/15/15 13:32	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/15/15 14:13	VLO	
Silver [7440-22-4] ^	**1.92**	J	ug/L	1	1.90	10.0	10	EPA 6010C	10/15/15 13:32	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/15/15 14:13	VLO	
Tin [7440-31-5] ^	2.40	U	ug/L	1	2.40	10.0	100	EPA 6010C	10/15/15 13:32	JDH	
Vanadium [7440-62-2] ^	**5.44**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/15/15 13:32	JDH	
Zinc [7440-66-6] ^	**280**		ug/L	1	3.80	10.0	10	EPA 6010C	10/15/15 13:32	JDH	

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Description: 4103-SMW1 | **Lab Sample ID:** C512354-02 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/07/15 16:20 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/19/15 09:29	JLJ	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/10/15 13:52	JOC	

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Description:	4103-SMW1	**Lab Sample ID:**	C512354-02	**Received:**	10/08/15 14:00
Matrix:	Ground Water	**Sampled:**	10/07/15 16:20	**Work Order:**	C512354
Project:	White Street Landfill App IIs - CAS	**Sampled By:**	Bradley Keise		

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50		EPA 8151A	10/13/15 20:11	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/13/15 20:11	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/13/15 20:11	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/13/15 20:11	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/13/15 20:11	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.8*	*1*	*2.04*	*89 %*	*48-151*	*5J12002*	*EPA 8151A*	*10/13/15 20:11*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-II1 | **Lab Sample ID:** C512354-03 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/07/15 13:15 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/15/15 15:59	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/15/15 15:59	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/15/15 15:59	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/15/15 15:59	MSZ	
1,1-Dichloroethane [75-34-3] ^	**0.86**	J	ug/L	1	0.13	1.0	5	EPA 8260B	10/15/15 15:59	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/15/15 15:59	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/15/15 15:59	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/15/15 15:59	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/15/15 15:59	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/15/15 15:59	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/15/15 15:59	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	**0.46**	J	ug/L	1	0.19	1.0	5	EPA 8260B	10/15/15 15:59	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/15/15 15:59	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/15/15 15:59	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/15/15 15:59	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/15/15 15:59	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	**7.6**		ug/L	1	0.19	1.0	1	EPA 8260B	10/15/15 15:59	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/15/15 15:59	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/15/15 15:59	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/15/15 15:59	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/15/15 15:59	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/15/15 15:59	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/15/15 15:59	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/15/15 15:59	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/15/15 15:59	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/15/15 15:59	MSZ	
Benzene [71-43-2] ^	**1.2**		ug/L	1	0.15	1.0	1	EPA 8260B	10/15/15 15:59	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/15/15 15:59	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/15 15:59	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/15/15 15:59	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/15/15 15:59	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/15/15 15:59	MSZ	
Carbon tetrachloride [56-23-5] ^	**0.47**	J	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/15 15:59	MSZ	
Chlorobenzene [108-90-7] ^	**3.4**		ug/L	1	0.17	1.0	3	EPA 8260B	10/15/15 15:59	MSZ	
Chloroethane [75-00-3] ^	**0.94**	J	ug/L	1	0.23	1.0	10	EPA 8260B	10/15/15 15:59	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/15/15 15:59	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/15/15 15:59	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/15/15 15:59	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/15/15 15:59	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/15/15 15:59	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/15/15 15:59	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/15/15 15:59	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/15/15 15:59	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/15/15 15:59	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/15/15 15:59	MSZ	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	10/15/15 15:59	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/15/15 15:59	MSZ	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/15/15 15:59	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/15/15 15:59	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/15/15 15:59	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/15/15 15:59	MSZ	

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Description: 4103-II1 | **Lab Sample ID:** C512354-03 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/07/15 13:15 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/15/15 15:59	MSZ	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/15/15 15:59	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/15/15 15:59	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/15 15:59	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/15/15 15:59	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/15/15 15:59	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/15 15:59	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/15/15 15:59	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/15 15:59	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/15/15 15:59	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/15/15 15:59	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/15/15 15:59	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/15/15 15:59	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*98 %*	*53-136*	*5J15019*	*EPA 8260B*	*10/15/15 15:59*	*MSZ*	
Dibromofluoromethane	*58*	*1*	*50.0*	*116 %*	*67-129*	*5J15019*	*EPA 8260B*	*10/15/15 15:59*	*MSZ*	
Toluene-d8	*51*	*1*	*50.0*	*102 %*	*59-134*	*5J15019*	*EPA 8260B*	*10/15/15 15:59*	*MSZ*	

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Description: 4103-II1 | **Lab Sample ID:** C512354-03 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/07/15 13:15 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 00:58	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/16/15 00:58	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/16/15 00:58	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/16/15 00:58	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/16/15 00:58	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/16/15 00:58	DFM	QV-02
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 00:58	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 00:58	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 00:58	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 00:58	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:58	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/16/15 00:58	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/16/15 00:58	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 00:58	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 00:58	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/16/15 00:58	DFM	QV-01
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 00:58	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 00:58	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/16/15 00:58	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 00:58	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 00:58	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/16/15 00:58	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/16/15 00:58	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 00:58	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 00:58	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/16/15 00:58	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/16/15 00:58	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:58	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/16/15 00:58	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/16/15 00:58	DFM	QV-02
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 00:58	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/16/15 00:58	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/16/15 00:58	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 00:58	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/16/15 00:58	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/16/15 00:58	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/16/15 00:58	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 00:58	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 00:58	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 00:58	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:58	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 00:58	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:58	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:58	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 00:58	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/16/15 00:58	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:58	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/16/15 00:58	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 00:58	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 00:58	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:58	DFM	

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Description: 4103-II1 | **Lab Sample ID:** C512354-03 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/07/15 13:15 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/16/15 00:58	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 00:58	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 00:58	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 00:58	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 00:58	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/16/15 00:58	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 00:58	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 00:58	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/16/15 00:58	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 00:58	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 00:58	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/16/15 00:58	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 00:58	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/16/15 00:58	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/16/15 00:58	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 00:58	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 00:58	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 00:58	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 00:58	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:58	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 00:58	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 00:58	DFM	QV-01
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/16/15 00:58	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/16/15 00:58	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:58	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:58	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/16/15 00:58	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/16/15 00:58	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 00:58	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/16/15 00:58	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 00:58	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/16/15 00:58	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:58	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 00:58	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 00:58	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 00:58	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/16/15 00:58	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/16/15 00:58	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:58	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:58	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 00:58	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 00:58	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 00:58	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 00:58	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/16/15 00:58	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/16/15 00:58	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 00:58	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 00:58	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 00:58	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 00:58	DFM	

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Description: 4103-II1 | **Lab Sample ID:** C512354-03 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/07/15 13:15 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 00:58	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 00:58	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/16/15 00:58	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*100*	*1*	*100*	*101 %*	*10-179*	*5J12029*	*EPA 8270D*	*10/16/15 00:58*	*DFM*	
2-Fluorobiphenyl	*40*	*1*	*50.0*	*80 %*	*10-149*	*5J12029*	*EPA 8270D*	*10/16/15 00:58*	*DFM*	
2-Fluorophenol	*62*	*1*	*100*	*62 %*	*10-110*	*5J12029*	*EPA 8270D*	*10/16/15 00:58*	*DFM*	
Nitrobenzene-d5	*41*	*1*	*50.0*	*83 %*	*10-149*	*5J12029*	*EPA 8270D*	*10/16/15 00:58*	*DFM*	
Phenol-d5	*53*	*1*	*100*	*53 %*	*10-88*	*5J12029*	*EPA 8270D*	*10/16/15 00:58*	*DFM*	
Terphenyl-d14	*49*	*1*	*50.0*	*98 %*	*10-188*	*5J12029*	*EPA 8270D*	*10/16/15 00:58*	*DFM*	

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Description: 4103-II1 | **Lab Sample ID:** C512354-03 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/07/15 13:15 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	10/19/15 16:10	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	10/19/15 16:10	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	10/19/15 16:10	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	10/19/15 16:10	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/19/15 16:10	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/19/15 16:10	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	10/19/15 16:10	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	10/19/15 16:10	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	10/19/15 16:10	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	10/19/15 16:10	MWC	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	10/19/15 16:10	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	10/19/15 16:10	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	10/19/15 16:10	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	10/19/15 16:10	MWC	QV-01
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	10/19/15 16:10	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	10/19/15 16:10	MWC	QV-01
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	10/19/15 16:10	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	10/19/15 16:10	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	10/19/15 16:10	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	10/19/15 16:10	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	10/19/15 16:10	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.64*	*1*	*1.00*	*64 %*	*44-134*	*5J13002*	*EPA 8081B*	*10/19/15 16:10*	*MWC*	
Decachlorobiphenyl	*1.0*	*1*	*1.00*	*100 %*	*37-149*	*5J13002*	*EPA 8081B*	*10/19/15 16:10*	*MWC*	

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Description: 4103-II1 | **Lab Sample ID:** C512354-03 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/07/15 13:15 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/16/15 16:10	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/16/15 16:10	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/16/15 16:10	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/16/15 16:10	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/16/15 16:10	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/16/15 16:10	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.68*	*1*	*1.00*	*68 %*	*45-151*	*5J13003*	*EPA 8082A*	*10/16/15 16:10*	*MWC*	
Decachlorobiphenyl	*1.4*	*1*	*1.00*	*144 %*	*42-159*	*5J13003*	*EPA 8082A*	*10/16/15 16:10*	*MWC*	

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Description:	4103-II1	**Lab Sample ID:**	C512354-03	**Received:**	10/08/15 14:00
Matrix:	Ground Water	**Sampled:**	10/07/15 13:15	**Work Order:**	C512354
Project:	White Street Landfill App IIs - CAS	**Sampled By:**	Bradley Keise		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/15/15 11:14	BAM	

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Description: 4103-II1 | **Lab Sample ID:** C512354-03 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/07/15 13:15 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.418**	J	ug/L	1	0.220	2.00	6	EPA 6020A	10/15/15 14:17	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	10/15/15 13:34	JDH	
Barium [7440-39-3] ^	**424**		ug/L	1	1.00	10.0	100	EPA 6010C	10/15/15 13:34	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/15/15 13:34	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/15/15 13:34	JDH	
Chromium [7440-47-3] ^	**3.16**	J	ug/L	1	1.40	10.0	10	EPA 6010C	10/15/15 13:34	JDH	
Cobalt [7440-48-4] ^	**42.7**		ug/L	1	1.10	10.0	10	EPA 6010C	10/15/15 13:34	JDH	
Copper [7440-50-8] ^	**13.3**		ug/L	1	1.60	10.0	10	EPA 6010C	10/15/15 13:34	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	10/15/15 13:34	JDH	
Nickel [7440-02-0] ^	**27.7**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/15/15 13:34	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/15/15 14:17	VLO	
Silver [7440-22-4] ^	**7.83**	J	ug/L	1	1.90	10.0	10	EPA 6010C	10/15/15 13:34	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/15/15 14:17	VLO	
Tin [7440-31-5] ^	2.40	U	ug/L	1	2.40	10.0	100	EPA 6010C	10/15/15 13:34	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	10/15/15 13:34	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	10/15/15 13:34	JDH	

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Description: 4103-II1
Matrix: Ground Water
Project: White Street Landfill App IIs - CAS

Lab Sample ID: C512354-03
Sampled: 10/07/15 13:15
Sampled By: Bradley Keise

Received: 10/08/15 14:00
Work Order: C512354

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/19/15 09:31	JLJ	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/10/15 16:30	JOC	

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Description: 4103-II1 | **Lab Sample ID:** C512354-03 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/07/15 13:15 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50		EPA 8151A	10/13/15 20:37	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/13/15 20:37	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/13/15 20:37	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/13/15 20:37	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/13/15 20:37	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.0*	*1*	*2.00*	*98 %*	*48-151*	*5J12002*	*EPA 8151A*	*10/13/15 20:37*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-II12 | **Lab Sample ID:** C512354-04 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/08/15 07:55 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/16/15 19:33	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/16/15 19:33	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/16/15 19:33	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/16/15 19:33	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/16/15 19:33	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/16/15 19:33	REF	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/16/15 19:33	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/16/15 19:33	REF	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/16/15 19:33	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/16/15 19:33	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/16/15 19:33	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/16/15 19:33	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/16/15 19:33	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/16/15 19:33	REF	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/16/15 19:33	REF	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/16/15 19:33	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/16/15 19:33	REF	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/16/15 19:33	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/16/15 19:33	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/16/15 19:33	REF	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/16/15 19:33	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/16/15 19:33	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/16/15 19:33	REF	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/16/15 19:33	REF	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/16/15 19:33	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/16/15 19:33	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/16/15 19:33	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/16/15 19:33	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/16/15 19:33	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/16/15 19:33	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/16/15 19:33	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/16/15 19:33	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/16/15 19:33	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/16/15 19:33	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/16/15 19:33	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/16/15 19:33	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/16/15 19:33	REF	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/16/15 19:33	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/16/15 19:33	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/16/15 19:33	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/16/15 19:33	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/16/15 19:33	REF	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/16/15 19:33	REF	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/16/15 19:33	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/16/15 19:33	REF	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	10/16/15 19:33	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/16/15 19:33	REF	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/16/15 19:33	REF	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/16/15 19:33	REF	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/16/15 19:33	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/16/15 19:33	REF	

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Description: 4103-II12 | **Lab Sample ID:** C512354-04 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/08/15 07:55 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/16/15 19:33	REF	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/16/15 19:33	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/16/15 19:33	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/16/15 19:33	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/16/15 19:33	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/16/15 19:33	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/16/15 19:33	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/16/15 19:33	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/16/15 19:33	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/16/15 19:33	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/16/15 19:33	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/16/15 19:33	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/16/15 19:33	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*93 %*	*53-136*	*5J16014*	*EPA 8260B*	*10/16/15 19:33*	*REF*	
Dibromofluoromethane	*61*	*1*	*50.0*	*123 %*	*67-129*	*5J16014*	*EPA 8260B*	*10/16/15 19:33*	*REF*	
Toluene-d8	*51*	*1*	*50.0*	*103 %*	*59-134*	*5J16014*	*EPA 8260B*	*10/16/15 19:33*	*REF*	

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Description: 4103-II12 | **Lab Sample ID:** C512354-04 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/08/15 07:55 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 01:29	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/16/15 01:29	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/16/15 01:29	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/16/15 01:29	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/16/15 01:29	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/16/15 01:29	DFM	QV-02
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 01:29	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 01:29	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 01:29	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 01:29	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 01:29	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/16/15 01:29	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/16/15 01:29	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 01:29	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 01:29	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/16/15 01:29	DFM	QV-01
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 01:29	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 01:29	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/16/15 01:29	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 01:29	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 01:29	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/16/15 01:29	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/16/15 01:29	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 01:29	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 01:29	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/16/15 01:29	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/16/15 01:29	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 01:29	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/16/15 01:29	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/16/15 01:29	DFM	QV-02
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 01:29	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/16/15 01:29	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/16/15 01:29	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 01:29	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/16/15 01:29	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/16/15 01:29	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/16/15 01:29	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 01:29	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 01:29	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 01:29	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 01:29	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 01:29	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 01:29	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 01:29	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 01:29	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/16/15 01:29	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 01:29	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/16/15 01:29	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 01:29	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 01:29	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 01:29	DFM	

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Description: 4103-II12 | **Lab Sample ID:** C512354-04 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/08/15 07:55 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/16/15 01:29	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 01:29	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 01:29	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 01:29	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 01:29	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/16/15 01:29	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 01:29	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 01:29	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/16/15 01:29	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 01:29	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 01:29	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/16/15 01:29	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 01:29	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/16/15 01:29	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/16/15 01:29	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 01:29	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 01:29	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 01:29	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 01:29	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 01:29	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 01:29	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 01:29	DFM	QV-01
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/16/15 01:29	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/16/15 01:29	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 01:29	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 01:29	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/16/15 01:29	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/16/15 01:29	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 01:29	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/16/15 01:29	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 01:29	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/16/15 01:29	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 01:29	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 01:29	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 01:29	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 01:29	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/16/15 01:29	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/16/15 01:29	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 01:29	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 01:29	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 01:29	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 01:29	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 01:29	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 01:29	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/16/15 01:29	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/16/15 01:29	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 01:29	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 01:29	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 01:29	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 01:29	DFM	

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Description: 4103-II12 | **Lab Sample ID:** C512354-04 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/08/15 07:55 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 01:29	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 01:29	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/16/15 01:29	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*75*	*1*	*100*	*75 %*	*10-179*	*5J12029*	*EPA 8270D*	*10/16/15 01:29*	*DFM*	
2-Fluorobiphenyl	*44*	*1*	*50.0*	*88 %*	*10-149*	*5J12029*	*EPA 8270D*	*10/16/15 01:29*	*DFM*	
2-Fluorophenol	*54*	*1*	*100*	*54 %*	*10-110*	*5J12029*	*EPA 8270D*	*10/16/15 01:29*	*DFM*	
Nitrobenzene-d5	*39*	*1*	*50.0*	*79 %*	*10-149*	*5J12029*	*EPA 8270D*	*10/16/15 01:29*	*DFM*	
Phenol-d5	*46*	*1*	*100*	*46 %*	*10-88*	*5J12029*	*EPA 8270D*	*10/16/15 01:29*	*DFM*	
Terphenyl-d14	*39*	*1*	*50.0*	*78 %*	*10-188*	*5J12029*	*EPA 8270D*	*10/16/15 01:29*	*DFM*	

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Description: 4103-II12 | **Lab Sample ID:** C512354-04 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/08/15 07:55 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	10/19/15 16:23	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	10/19/15 16:23	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	10/19/15 16:23	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	10/19/15 16:23	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/19/15 16:23	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/19/15 16:23	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	10/19/15 16:23	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	10/19/15 16:23	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	10/19/15 16:23	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	10/19/15 16:23	MWC	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	10/19/15 16:23	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	10/19/15 16:23	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	10/19/15 16:23	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	10/19/15 16:23	MWC	QV-01
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	10/19/15 16:23	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	10/19/15 16:23	MWC	QV-01
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	10/19/15 16:23	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	10/19/15 16:23	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	10/19/15 16:23	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	10/19/15 16:23	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	10/19/15 16:23	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.94*	*1*	*1.00*	*94 %*	*44-134*	*5J13002*	*EPA 8081B*	*10/19/15 16:23*	*MWC*	
Decachlorobiphenyl	*0.72*	*1*	*1.00*	*72 %*	*37-149*	*5J13002*	*EPA 8081B*	*10/19/15 16:23*	*MWC*	

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Description: 4103-II12 | **Lab Sample ID:** C512354-04 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/08/15 07:55 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/16/15 16:23	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/16/15 16:23	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/16/15 16:23	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/16/15 16:23	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/16/15 16:23	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/16/15 16:23	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.88*	*1*	*1.00*	*88 %*	*45-151*	*5J13003*	*EPA 8082A*	*10/16/15 16:23*	*MWC*	
Decachlorobiphenyl	*0.62*	*1*	*1.00*	*62 %*	*42-159*	*5J13003*	*EPA 8082A*	*10/16/15 16:23*	*MWC*	

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Description:	4103-II12	**Lab Sample ID:**	C512354-04	**Received:**	10/08/15 14:00
Matrix:	Ground Water	**Sampled:**	10/08/15 07:55	**Work Order:**	C512354
Project:	White Street Landfill App IIs - CAS	**Sampled By:**	Bradley Keise		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/15/15 11:16	BAM	

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Description: 4103-II12 | **Lab Sample ID:** C512354-04 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/08/15 07:55 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/15/15 14:21	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	10/15/15 13:37	JDH	
Barium [7440-39-3] ^	**221**		ug/L	1	1.00	10.0	100	EPA 6010C	10/15/15 13:37	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/15/15 13:37	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/15/15 13:37	JDH	
Chromium [7440-47-3] ^	**3.17**	J	ug/L	1	1.40	10.0	10	EPA 6010C	10/15/15 13:37	JDH	
Cobalt [7440-48-4] ^	**9.65**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/15/15 13:37	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/15/15 13:37	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	10/15/15 13:37	JDH	
Nickel [7440-02-0] ^	**3.06**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/15/15 13:37	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/15/15 14:21	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/15/15 13:37	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/15/15 14:21	VLO	
Tin [7440-31-5] ^	2.40	U	ug/L	1	2.40	10.0	100	EPA 6010C	10/15/15 13:37	JDH	
Vanadium [7440-62-2] ^	**12.8**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/15/15 13:37	JDH	
Zinc [7440-66-6] ^	**7.21**	J	ug/L	1	3.80	10.0	10	EPA 6010C	10/15/15 13:37	JDH	

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Description: 4103-II12
Matrix: Ground Water
Project: White Street Landfill App IIs - CAS

Lab Sample ID: C512354-04
Sampled: 10/08/15 07:55
Sampled By: Bradley Keise

Received: 10/08/15 14:00
Work Order: C512354

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/19/15 09:33	JLJ	
Sulfide [18496-25-8] ^	**0.059**	J	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/10/15 16:30	JOC	

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Description: 4103-II12 | **Lab Sample ID:** C512354-04 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/08/15 07:55 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50		EPA 8151A	10/13/15 21:03	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/13/15 21:03	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/13/15 21:03	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/13/15 21:03	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/13/15 21:03	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.8*	*1*	*2.00*	*138 %*	*48-151*	*5J12002*	*EPA 8151A*	*10/13/15 21:03*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-MW-13 | **Lab Sample ID:** C512354-05 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/08/15 09:20 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/16/15 20:02	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/16/15 20:02	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/16/15 20:02	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/16/15 20:02	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/16/15 20:02	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/16/15 20:02	REF	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/16/15 20:02	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/16/15 20:02	REF	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/16/15 20:02	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/16/15 20:02	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/16/15 20:02	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/16/15 20:02	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/16/15 20:02	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/16/15 20:02	REF	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/16/15 20:02	REF	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/16/15 20:02	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/16/15 20:02	REF	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/16/15 20:02	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/16/15 20:02	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/16/15 20:02	REF	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/16/15 20:02	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/16/15 20:02	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/16/15 20:02	REF	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/16/15 20:02	REF	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/16/15 20:02	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/16/15 20:02	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/16/15 20:02	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/16/15 20:02	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/16/15 20:02	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/16/15 20:02	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/16/15 20:02	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/16/15 20:02	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/16/15 20:02	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/16/15 20:02	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/16/15 20:02	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/16/15 20:02	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/16/15 20:02	REF	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/16/15 20:02	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/16/15 20:02	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/16/15 20:02	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/16/15 20:02	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/16/15 20:02	REF	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/16/15 20:02	REF	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/16/15 20:02	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/16/15 20:02	REF	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	10/16/15 20:02	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/16/15 20:02	REF	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/16/15 20:02	REF	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/16/15 20:02	REF	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/16/15 20:02	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/16/15 20:02	REF	

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Description: 4103-MW-13 | **Lab Sample ID:** C512354-05 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/08/15 09:20 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/16/15 20:02	REF	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/16/15 20:02	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/16/15 20:02	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/16/15 20:02	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/16/15 20:02	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/16/15 20:02	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/16/15 20:02	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/16/15 20:02	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/16/15 20:02	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/16/15 20:02	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/16/15 20:02	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/16/15 20:02	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/16/15 20:02	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*53-136*	*5J16014*	*EPA 8260B*	*10/16/15 20:02*	*REF*	
Dibromofluoromethane	*59*	*1*	*50.0*	*119 %*	*67-129*	*5J16014*	*EPA 8260B*	*10/16/15 20:02*	*REF*	
Toluene-d8	*50*	*1*	*50.0*	*101 %*	*59-134*	*5J16014*	*EPA 8260B*	*10/16/15 20:02*	*REF*	

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Description: 4103-MW-13 | **Lab Sample ID:** C512354-05 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/08/15 09:20 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 02:00	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/16/15 02:00	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/16/15 02:00	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/16/15 02:00	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/16/15 02:00	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/16/15 02:00	DFM	QV-02
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 02:00	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 02:00	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 02:00	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 02:00	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:00	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/16/15 02:00	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/16/15 02:00	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 02:00	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 02:00	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/16/15 02:00	DFM	QV-01
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 02:00	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 02:00	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/16/15 02:00	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 02:00	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 02:00	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/16/15 02:00	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/16/15 02:00	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 02:00	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 02:00	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/16/15 02:00	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/16/15 02:00	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:00	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/16/15 02:00	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/16/15 02:00	DFM	QV-02
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 02:00	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/16/15 02:00	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/16/15 02:00	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 02:00	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/16/15 02:00	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/16/15 02:00	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/16/15 02:00	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 02:00	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 02:00	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 02:00	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:00	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 02:00	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:00	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:00	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 02:00	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/16/15 02:00	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:00	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/16/15 02:00	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 02:00	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 02:00	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:00	DFM	

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Description: 4103-MW-13 | **Lab Sample ID:** C512354-05 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/08/15 09:20 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	**1.8**	J	ug/L	1	1.7	5.0	15	EPA 8270D	10/16/15 02:00	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 02:00	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 02:00	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 02:00	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 02:00	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/16/15 02:00	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 02:00	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 02:00	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/16/15 02:00	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 02:00	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 02:00	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/16/15 02:00	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 02:00	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/16/15 02:00	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/16/15 02:00	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 02:00	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 02:00	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 02:00	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 02:00	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:00	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 02:00	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 02:00	DFM	QV-01
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/16/15 02:00	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/16/15 02:00	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:00	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:00	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/16/15 02:00	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/16/15 02:00	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 02:00	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/16/15 02:00	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 02:00	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/16/15 02:00	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:00	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 02:00	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 02:00	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 02:00	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/16/15 02:00	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/16/15 02:00	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:00	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:00	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 02:00	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 02:00	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 02:00	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:00	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/16/15 02:00	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/16/15 02:00	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 02:00	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 02:00	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 02:00	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 02:00	DFM	

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Description: 4103-MW-13 | **Lab Sample ID:** C512354-05 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/08/15 09:20 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 02:00	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 02:00	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/16/15 02:00	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*85*	*1*	*100*	*85 %*	*10-179*	*5J12029*	*EPA 8270D*	*10/16/15 02:00*	*DFM*	
2-Fluorobiphenyl	*38*	*1*	*50.0*	*76 %*	*10-149*	*5J12029*	*EPA 8270D*	*10/16/15 02:00*	*DFM*	
2-Fluorophenol	*52*	*1*	*100*	*52 %*	*10-110*	*5J12029*	*EPA 8270D*	*10/16/15 02:00*	*DFM*	
Nitrobenzene-d5	*38*	*1*	*50.0*	*77 %*	*10-149*	*5J12029*	*EPA 8270D*	*10/16/15 02:00*	*DFM*	
Phenol-d5	*45*	*1*	*100*	*45 %*	*10-88*	*5J12029*	*EPA 8270D*	*10/16/15 02:00*	*DFM*	
Terphenyl-d14	*55*	*1*	*50.0*	*109 %*	*10-188*	*5J12029*	*EPA 8270D*	*10/16/15 02:00*	*DFM*	

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Description: 4103-MW-13 | **Lab Sample ID:** C512354-05 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/08/15 09:20 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	10/19/15 16:36	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	10/19/15 16:36	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	10/19/15 16:36	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	10/19/15 16:36	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/19/15 16:36	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/19/15 16:36	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	10/19/15 16:36	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	10/19/15 16:36	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	10/19/15 16:36	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	10/19/15 16:36	MWC	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	10/19/15 16:36	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	10/19/15 16:36	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	10/19/15 16:36	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	10/19/15 16:36	MWC	QV-01
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	10/19/15 16:36	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	10/19/15 16:36	MWC	QV-01
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	10/19/15 16:36	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	10/19/15 16:36	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	10/19/15 16:36	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	10/19/15 16:36	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	10/19/15 16:36	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.80*	*1*	*1.00*	*80 %*	*44-134*	*5J13002*	*EPA 8081B*	*10/19/15 16:36*	*MWC*	
Decachlorobiphenyl	*0.80*	*1*	*1.00*	*80 %*	*37-149*	*5J13002*	*EPA 8081B*	*10/19/15 16:36*	*MWC*	

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Description: 4103-MW-13 | **Lab Sample ID:** C512354-05 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/08/15 09:20 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/16/15 16:37	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/16/15 16:37	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/16/15 16:37	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/16/15 16:37	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/16/15 16:37	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/16/15 16:37	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.87*	*1*	*1.00*	*87 %*	*45-151*	*5J13003*	*EPA 8082A*	*10/16/15 16:37*	*MWC*	
Decachlorobiphenyl	*0.83*	*1*	*1.00*	*83 %*	*42-159*	*5J13003*	*EPA 8082A*	*10/16/15 16:37*	*MWC*	

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Description: 4103-MW-13
Matrix: Ground Water
Project: White Street Landfill App IIs - CAS

Lab Sample ID: C512354-05
Sampled: 10/08/15 09:20
Sampled By: Bradley Keise

Received: 10/08/15 14:00
Work Order: C512354

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/15/15 11:18	BAM	

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Description: 4103-MW-13 | **Lab Sample ID:** C512354-05 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/08/15 09:20 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/15/15 14:24	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	10/15/15 13:49	JDH	
Barium [7440-39-3] ^	**93.3**	J	ug/L	1	1.00	10.0	100	EPA 6010C	10/15/15 13:49	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/15/15 13:49	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/15/15 13:49	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	10/15/15 13:49	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	10/15/15 13:49	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/15/15 13:49	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	10/15/15 13:49	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	10/15/15 13:49	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/15/15 14:24	VLO	
Silver [7440-22-4] ^	**2.79**	J	ug/L	1	1.90	10.0	10	EPA 6010C	10/15/15 13:49	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/15/15 14:24	VLO	
Tin [7440-31-5] ^	2.40	U	ug/L	1	2.40	10.0	100	EPA 6010C	10/15/15 13:49	JDH	
Vanadium [7440-62-2] ^	**4.71**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/15/15 13:49	JDH	
Zinc [7440-66-6] ^	**4.19**	J	ug/L	1	3.80	10.0	10	EPA 6010C	10/15/15 13:49	JDH	

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Description: 4103-MW-13
Matrix: Ground Water
Project: White Street Landfill App IIs - CAS

Lab Sample ID: C512354-05
Sampled: 10/08/15 09:20
Sampled By: Bradley Keise

Received: 10/08/15 14:00
Work Order: C512354

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/19/15 09:39	JLJ	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/10/15 16:30	JOC	

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Description: 4103-MW-13 | **Lab Sample ID:** C512354-05 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/08/15 09:20 | **Work Order:** C512354

Project: White Street Landfill App IIs - CAS | **Sampled By:** Bradley Keise

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50		EPA 8151A	10/13/15 21:28	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/13/15 21:28	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/13/15 21:28	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/13/15 21:28	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/13/15 21:28	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.8*	*1*	*2.00*	*88 %*	*48-151*	*5J12002*	*EPA 8151A*	*10/13/15 21:28*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5J15019 - EPA 5030B_MS

Blank (5J15019-BLK1) Prepared: 10/15/2015 10:29 Analyzed: 10/15/2015 10:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Hexachlorobutadiene	0.22	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5J15019 - EPA 5030B_MS

Blank (5J15019-BLK1) Continued Prepared: 10/15/2015 10:29 Analyzed: 10/15/2015 10:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*96*	*53-136*			
Surrogate: Dibromofluoromethane	*57*			*ug/L*	*50.0*		*115*	*67-129*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*98*	*59-134*			

LCS (5J15019-BS1) Prepared: 10/15/2015 10:29 Analyzed: 10/15/2015 11:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0		109	75-133			
Benzene	20		1.0	ug/L	20.0		101	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		94	83-117			
Toluene	20		1.0	ug/L	20.0		102	71-118			
Trichloroethene	18		1.0	ug/L	20.0		90	74-119			
Surrogate: 4-Bromofluorobenzene	*49*			*ug/L*	*50.0*		*98*	*53-136*			
Surrogate: Dibromofluoromethane	*54*			*ug/L*	*50.0*		*108*	*67-129*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*96*	*59-134*			

Matrix Spike (5J15019-MS1) Prepared: 10/15/2015 10:29 Analyzed: 10/15/2015 11:41

Source: C512539-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	26		1.0	ug/L	20.0	0.21 U	128	75-133			
Benzene	23		1.0	ug/L	20.0	0.15 U	114	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	105	83-117			
Toluene	23		1.0	ug/L	20.0	0.14 U	113	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	104	74-119			
Surrogate: 4-Bromofluorobenzene	*49*			*ug/L*	*50.0*		*98*	*53-136*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*107*	*67-129*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*97*	*59-134*			

Matrix Spike Dup (5J15019-MSD1) Prepared: 10/15/2015 10:29 Analyzed: 10/15/2015 12:10

Source: C512539-03

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5J15019 - EPA 5030B_MS

Matrix Spike Dup (5J15019-MSD1) Continued Prepared: 10/15/2015 10:29 Analyzed: 10/15/2015 12:10

Source: C512539-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	25		1.0	ug/L	20.0	0.21 U	126	75-133	2	20	
Benzene	23		1.0	ug/L	20.0	0.15 U	113	81-134	0.9	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	102	83-117	4	16	
Toluene	23		1.0	ug/L	20.0	0.14 U	114	71-118	0.8	17	
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	104	74-119	0.4	22	
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*97*	*53-136*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*107*	*67-129*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*96*	*59-134*			

Batch 5J16014 - EPA 5030B_MS

Blank (5J16014-BLK1) Prepared: 10/16/2015 10:18 Analyzed: 10/16/2015 10:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5J16014 - EPA 5030B_MS

Blank (5J16014-BLK1) Continued Prepared: 10/16/2015 10:18 Analyzed: 10/16/2015 10:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Hexachlorobutadiene	0.22	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*53-136*			
Surrogate: Dibromofluoromethane	*58*			*ug/L*	*50.0*		*117*	*67-129*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*100*	*59-134*			

LCS (5J16014-BS1) Prepared: 10/16/2015 10:18 Analyzed: 10/16/2015 11:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0		111	75-133			
Benzene	20		1.0	ug/L	20.0		102	81-134			
Chlorobenzene	18		1.0	ug/L	20.0		92	83-117			
Toluene	21		1.0	ug/L	20.0		103	71-118			
Trichloroethene	19		1.0	ug/L	20.0		93	74-119			
Surrogate: 4-Bromofluorobenzene	*50*			*ug/L*	*50.0*		*99*	*53-136*			
Surrogate: Dibromofluoromethane	*55*			*ug/L*	*50.0*		*111*	*67-129*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*101*	*59-134*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5J16014 - EPA 5030B_MS

Matrix Spike (5J16014-MS1) Prepared: 10/16/2015 10:18 Analyzed: 10/16/2015 11:54

Source: C513339-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	109	75-133			
Benzene	21		1.0	ug/L	20.0	0.15 U	106	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	98	83-117			
Toluene	21		1.0	ug/L	20.0	0.14 U	107	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	96	74-119			
Surrogate: 4-Bromofluorobenzene	*51*			*ug/L*	*50.0*		*102*	*53-136*			
Surrogate: Dibromofluoromethane	*55*			*ug/L*	*50.0*		*110*	*67-129*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*100*	*59-134*			

Matrix Spike Dup (5J16014-MSD1) Prepared: 10/16/2015 10:18 Analyzed: 10/16/2015 12:23

Source: C513339-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	111	75-133	1	20	
Benzene	20		1.0	ug/L	20.0	0.15 U	99	81-134	6	17	
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	88	83-117	10	16	
Toluene	19		1.0	ug/L	20.0	0.14 U	96	71-118	10	17	
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	89	74-119	7	22	
Surrogate: 4-Bromofluorobenzene	*49*			*ug/L*	*50.0*		*99*	*53-136*			
Surrogate: Dibromofluoromethane	*56*			*ug/L*	*50.0*		*112*	*67-129*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*100*	*59-134*			

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 5J12029 - EPA 3510C_MS

Blank (5J12029-BLK1) Prepared: 10/12/2015 14:13 Analyzed: 10/15/2015 20:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4,5-Tetrachlorobenzene	2.0	U	10	ug/L							
1,3,5-Trinitrobenzene	3.0	U	10	ug/L							
1,3-Dinitrobenzene	1.9	U	10	ug/L							
1,4-Naphthoquinone	2.5	U	10	ug/L							
1,4-Phenylenediamine	4.0	U	10	ug/L							
1-Naphthylamine	1.9	U	10	ug/L							QV-02
2,3,4,6-Tetrachlorophenol	2.0	U	10	ug/L							
2,4,5-Trichlorophenol	1.0	U	10	ug/L							
2,4,6-Trichlorophenol	1.1	U	10	ug/L							
2,4-Dichlorophenol	1.4	U	10	ug/L							
2,4-Dimethylphenol	1.3	U	10	ug/L							
2,4-Dinitrophenol	2.6	U	10	ug/L							
2,4-Dinitrotoluene	2.4	U	10	ug/L							
2,6-Dichlorophenol	1.1	U	10	ug/L							
2,6-Dinitrotoluene	1.5	U	10	ug/L							
2-Acetylaminofluorene	2.5	U	10	ug/L							QV-01
2-Chloronaphthalene	1.0	U	10	ug/L							
2-Chlorophenol	1.2	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 5J12029 - EPA 3510C_MS

Blank (5J12029-BLK1) Continued Prepared: 10/12/2015 14:13 Analyzed: 10/15/2015 20:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Methyl-4,6-dinitrophenol	2.9	U	10	ug/L							
2-Methylnaphthalene	1.5	U	10	ug/L							
2-Methylphenol	1.4	U	10	ug/L							
2-Naphthylamine	3.0	U	10	ug/L							
2-Nitroaniline	1.5	U	10	ug/L							
2-Nitrophenol	1.1	U	10	ug/L							
3 & 4-Methylphenol	1.6	U	10	ug/L							
3,3'-Dichlorobenzidine	3.3	U	10	ug/L							
3,3'-Dimethylbenzidine	2.2	U	10	ug/L							
3-Methylcholanthrene	1.3	U	10	ug/L							
3-Nitroaniline	2.1	U	10	ug/L							
4-Aminobiphenyl	2.1	U	10	ug/L							QV-02
4-Bromophenyl-phenylether	1.0	U	10	ug/L							
4-Chloro-3-methylphenol	1.5	U	10	ug/L							
4-Chloroaniline	1.2	U	10	ug/L							
4-Chlorophenyl-phenylether	1.6	U	10	ug/L							
4-Nitroaniline	3.2	U	10	ug/L							
4-Nitrophenol	2.0	U	10	ug/L							
5-Nitro-o-toluidine	3.2	U	10	ug/L							
7,12-Dimethylbenz(a)anthracene	1.1	U	10	ug/L							
Acenaphthene	1.4	U	10	ug/L							
Acenaphthylene	1.2	U	10	ug/L							
Acetophenone	1.3	U	10	ug/L							
Anthracene	1.6	U	10	ug/L							
Benzo(a)anthracene	1.3	U	10	ug/L							
Benzo(a)pyrene	1.3	U	10	ug/L							
Benzo(b)fluoranthene	1.0	U	10	ug/L							
Benzo(g,h,i)perylene	2.4	U	10	ug/L							
Benzo(k)fluoranthene	1.3	U	10	ug/L							
Benzyl alcohol	1.4	U	10	ug/L							
Bis(2-chloroethoxy)methane	1.4	U	10	ug/L							
Bis(2-chloroethyl)ether	1.2	U	10	ug/L							
Bis(2-chloroisopropyl)ether	1.3	U	10	ug/L							
Bis(2-ethylhexyl)phthalate	1.7	U	5.0	ug/L							
Butylbenzylphthalate	2.0	U	10	ug/L							QV-01
Chlorobenzilate	1.0	U	10	ug/L							
Chrysene	2.0	U	10	ug/L							
Diallate	1.0	U	10	ug/L							
Dibenzo(a,h)anthracene	2.3	U	10	ug/L							
Dibenzofuran	1.4	U	10	ug/L							
Diethylphthalate	2.1	U	10	ug/L							
Dimethoate	2.3	U	10	ug/L							
Dimethylphthalate	1.4	U	10	ug/L							
Di-n-butylphthalate	1.5	U	10	ug/L							
Di-n-octylphthalate	3.1	U	10	ug/L							
Disulfoton	1.1	U	10	ug/L							
Ethyl methanesulfonate	1.2	U	10	ug/L							
Famphur	2.7	U	10	ug/L							
Fluoranthene	2.1	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 5J12029 - EPA 3510C_MS

Blank (5J12029-BLK1) Continued Prepared: 10/12/2015 14:13 Analyzed: 10/15/2015 20:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluorene	1.7	U	10	ug/L							
Hexachlorobenzene	1.0	U	10	ug/L							
Hexachlorobutadiene	1.2	U	10	ug/L							
Hexachlorocyclopentadiene	1.3	U	10	ug/L							
Hexachloroethane	1.1	U	10	ug/L							
Hexachloropropene	1.7	U	10	ug/L							QV-01
Indeno(1,2,3-cd)pyrene	2.2	U	10	ug/L							
Isodrin	1.0	U	10	ug/L							
Isophorone	1.3	U	10	ug/L							
Isosafrole	1.3	U	10	ug/L							
Kepone	7.2	U	20	ug/L							
Methapyrilene	3.5	U	10	ug/L							QV-02
Methyl Methanesulfonate	1.0	U	10	ug/L							
Methyl parathion	2.5	U	10	ug/L							
Nitrobenzene	1.2	U	10	ug/L							
N-Nitrosodiethylamine	1.3	U	10	ug/L							
N-Nitrosodimethylamine	1.3	U	10	ug/L							
N-Nitrosodi-n-butylamine	1.2	U	10	ug/L							
N-Nitroso-di-n-propylamine	1.5	U	10	ug/L							
N-nitrosodiphenylamine/Diphenylamine	2.1	U	10	ug/L							
N-Nitrosomethylethylamine	1.9	U	10	ug/L							
N-Nitrosopiperidine	1.1	U	10	ug/L							
N-Nitrosopyrrolidine	1.3	U	10	ug/L							
O,O,O-Triethyl phosphorothioate	1.3	U	10	ug/L							
o-Toluidine	1.1	U	10	ug/L							
Parathion	1.7	U	10	ug/L							
p-Dimethylaminoazobenzene	1.4	U	10	ug/L							
Pentachlorobenzene	1.3	U	10	ug/L							
Pentachloronitrobenzene	1.0	U	10	ug/L							
Phenacetin	2.7	U	10	ug/L							
Phenanthrene	1.4	U	10	ug/L							
Phenol	1.4	U	10	ug/L							
Phorate	1.0	U	10	ug/L							
Pronamide	1.4	U	10	ug/L							
Pyrene	2.1	U	10	ug/L							
Safrole	1.2	U	10	ug/L							
Thionazin	2.3	U	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*54*			*ug/L*	*100*		*54*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*40*			*ug/L*	*50.0*		*81*	*10-149*			
Surrogate: 2-Fluorophenol	*56*			*ug/L*	*100*		*56*	*10-110*			
Surrogate: Nitrobenzene-d5	*37*			*ug/L*	*50.0*		*73*	*10-149*			
Surrogate: Phenol-d5	*47*			*ug/L*	*100*		*47*	*10-88*			
Surrogate: Terphenyl-d14	*41*			*ug/L*	*50.0*		*83*	*10-188*			

LCS (5J12029-BS1) Prepared: 10/12/2015 14:13 Analyzed: 10/15/2015 21:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	40		10	ug/L	50.0		80	40-109			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 5J12029 - EPA 3510C_MS

LCS (5J12029-BS1) Continued Prepared: 10/12/2015 14:13 Analyzed: 10/15/2015 21:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4-Chloro-3-methylphenol	35		10	ug/L	50.0		70	58-121			
4-Nitrophenol	24		10	ug/L	50.0		48	33-105			
Acenaphthene	45		10	ug/L	50.0		89	39-125			
N-Nitroso-di-n-propylamine	39		10	ug/L	50.0		79	48-126			
Phenol	26		10	ug/L	50.0		52	19-78			
Pyrene	48		10	ug/L	50.0		96	44-137			
Surrogate: 2,4,6-Tribromophenol	*81*			*ug/L*	*100*		*81*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*49*			*ug/L*	*50.0*		*99*	*10-149*			
Surrogate: 2-Fluorophenol	*64*			*ug/L*	*100*		*64*	*10-110*			
Surrogate: Nitrobenzene-d5	*48*			*ug/L*	*50.0*		*96*	*10-149*			
Surrogate: Phenol-d5	*52*			*ug/L*	*100*		*52*	*10-88*			
Surrogate: Terphenyl-d14	*48*			*ug/L*	*50.0*		*96*	*10-188*			

Matrix Spike (5J12029-MS1) Prepared: 10/12/2015 14:13 Analyzed: 10/15/2015 21:53

Source: C512871-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	42		10	ug/L	50.0	1.2 U	83	40-109			
4-Chloro-3-methylphenol	37		10	ug/L	50.0	1.5 U	74	58-121			
4-Nitrophenol	27		10	ug/L	50.0	2.0 U	54	33-105			
Acenaphthene	47		10	ug/L	50.0	1.4 U	94	39-125			
N-Nitroso-di-n-propylamine	42		10	ug/L	50.0	1.5 U	85	48-126			
Phenol	26		10	ug/L	50.0	1.4 U	52	19-78			
Pyrene	53		10	ug/L	50.0	2.1 U	106	44-137			
Surrogate: 2,4,6-Tribromophenol	*85*			*ug/L*	*100*		*85*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*48*			*ug/L*	*50.0*		*95*	*10-149*			
Surrogate: 2-Fluorophenol	*63*			*ug/L*	*100*		*63*	*10-110*			
Surrogate: Nitrobenzene-d5	*49*			*ug/L*	*50.0*		*97*	*10-149*			
Surrogate: Phenol-d5	*50*			*ug/L*	*100*		*50*	*10-88*			
Surrogate: Terphenyl-d14	*52*			*ug/L*	*50.0*		*104*	*10-188*			

Matrix Spike Dup (5J12029-MSD1) Prepared: 10/12/2015 14:13 Analyzed: 10/15/2015 22:24

Source: C512871-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	41		10	ug/L	50.0	1.2 U	82	40-109	1	22	
4-Chloro-3-methylphenol	40		10	ug/L	50.0	1.5 U	79	58-121	7	22	
4-Nitrophenol	29		10	ug/L	50.0	2.0 U	59	33-105	8	27	
Acenaphthene	45		10	ug/L	50.0	1.4 U	91	39-125	3	25	
N-Nitroso-di-n-propylamine	45		10	ug/L	50.0	1.5 U	91	48-126	7	23	
Phenol	26		10	ug/L	50.0	1.4 U	52	19-78	1	18	
Pyrene	55		10	ug/L	50.0	2.1 U	110	44-137	4	24	
Surrogate: 2,4,6-Tribromophenol	*92*			*ug/L*	*100*		*92*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*43*			*ug/L*	*50.0*		*87*	*10-149*			
Surrogate: 2-Fluorophenol	*59*			*ug/L*	*100*		*59*	*10-110*			
Surrogate: Nitrobenzene-d5	*46*			*ug/L*	*50.0*		*92*	*10-149*			
Surrogate: Phenol-d5	*48*			*ug/L*	*100*		*48*	*10-88*			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 5J12029 - EPA 3510C_MS

Matrix Spike Dup (5J12029-MSD1) Continued Prepared: 10/12/2015 14:13 Analyzed: 10/15/2015 22:24

Source: C512871-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Terphenyl-d14	*55*			*ug/L*	*50.0*		*109*	*10-188*			

Organochlorine Pesticides by GC - Quality Control

Batch 5J13002 - EPA 3510C

Blank (5J13002-BLK1) Prepared: 10/13/2015 12:00 Analyzed: 10/19/2015 14:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.044	U	0.050	ug/L							
4,4'-DDE	0.048	U	0.050	ug/L							
4,4'-DDT	0.049	U	0.050	ug/L							
Aldrin	0.041	U	0.050	ug/L							
alpha-BHC	0.036	U	0.050	ug/L							
beta-BHC	0.036	U	0.050	ug/L							
Chlordane (tech)	0.20	U	0.50	ug/L							
Chlordane-alpha	0.048	U	0.050	ug/L							
Chlordane-gamma	0.042	U	0.050	ug/L							
delta-BHC	0.048	U	0.050	ug/L							
Dieldrin	0.045	U	0.050	ug/L							
Endosulfan I	0.045	U	0.050	ug/L							
Endosulfan II	0.036	U	0.050	ug/L							
Endosulfan sulfate	0.032	U	0.050	ug/L							QV-01
Endrin	0.041	U	0.050	ug/L							
Endrin aldehyde	0.042	U	0.050	ug/L							QV-01
gamma-BHC	0.034	U	0.050	ug/L							
Heptachlor	0.030	U	0.050	ug/L							
Heptachlor epoxide	0.037	U	0.050	ug/L							
Methoxychlor	0.025	U	0.050	ug/L							
Toxaphene	0.22	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*0.98*			*ug/L*	*1.00*		*98*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.94*			*ug/L*	*1.00*		*94*	*37-149*			

LCS (5J13002-BS1) Prepared: 10/13/2015 12:00 Analyzed: 10/19/2015 15:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.0		0.050	ug/L	1.00		105	37-139			
Dieldrin	1.1		0.050	ug/L	1.00		109	46-132			
Endrin	1.1		0.050	ug/L	1.00		110	43-133			
Surrogate: 2,4,5,6-TCMX	*0.82*			*ug/L*	*1.00*		*82*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.74*			*ug/L*	*1.00*		*74*	*37-149*			

Matrix Spike (5J13002-MS1) Prepared: 10/13/2015 12:00 Analyzed: 10/19/2015 15:17

Source: C513030-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.1		0.050	ug/L	1.00	0.049 U	108	37-139			

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 5J13002 - EPA 3510C

Matrix Spike (5J13002-MS1) Continued Prepared: 10/13/2015 12:00 Analyzed: 10/19/2015 15:17

Source: C513030-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Dieldrin	1.2		0.050	ug/L	1.00	0.045 U	116	46-132			
Endrin	1.2		0.050	ug/L	1.00	0.041 U	118	43-133			
Surrogate: 2,4,5,6-TCMX	*0.77*			*ug/L*	*1.00*		*77*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.71*			*ug/L*	*1.00*		*71*	*37-149*			

Matrix Spike Dup (5J13002-MSD1) Prepared: 10/13/2015 12:00 Analyzed: 10/19/2015 15:30

Source: C513030-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.0		0.050	ug/L	1.00	0.049 U	100	37-139	8	26	
Dieldrin	1.0		0.050	ug/L	1.00	0.045 U	104	46-132	11	27	
Endrin	1.1		0.050	ug/L	1.00	0.041 U	106	43-133	11	26	
Surrogate: 2,4,5,6-TCMX	*0.74*			*ug/L*	*1.00*		*74*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.76*			*ug/L*	*1.00*		*76*	*37-149*			

Polychlorinated Biphenyls by GC - Quality Control

Batch 5J13003 - EPA 3510C

Blank (5J13003-BLK1) Prepared: 10/13/2015 12:00 Analyzed: 10/16/2015 13:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	0.43	U	0.50	ug/L							
PCB-1221	0.37	U	0.50	ug/L							
PCB-1232	0.45	U	0.50	ug/L							
PCB-1248	0.014	U	0.50	ug/L							
PCB-1254	0.37	U	0.50	ug/L							
PCB-1260	0.45	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*0.82*			*ug/L*	*1.00*		*82*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.74*			*ug/L*	*1.00*		*74*	*42-159*			

LCS (5J13003-BS1) Prepared: 10/13/2015 12:00 Analyzed: 10/16/2015 14:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	10		0.50	ug/L	10.0		104	66-149			
PCB-1260	11		0.50	ug/L	10.0		110	64-150			
Surrogate: 2,4,5,6-TCMX	*0.87*			*ug/L*	*1.00*		*87*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.86*			*ug/L*	*1.00*		*86*	*42-159*			

Matrix Spike (5J13003-MS1) Prepared: 10/13/2015 12:00 Analyzed: 10/16/2015 15:04

Source: C513030-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	10		0.50	ug/L	10.0	0.43 U	103	66-149			
PCB-1260	11		0.50	ug/L	10.0	0.45 U	110	64-150			

QUALITY CONTROL

Polychlorinated Biphenyls by GC - Quality Control

Batch 5J13003 - EPA 3510C

Matrix Spike (5J13003-MS1) Continued Prepared: 10/13/2015 12:00 Analyzed: 10/16/2015 15:04

Source: C513030-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 2,4,5,6-TCMX	*0.86*			*ug/L*	*1.00*		*86*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.82*			*ug/L*	*1.00*		*82*	*42-159*			

Matrix Spike Dup (5J13003-MSD1) Prepared: 10/13/2015 12:00 Analyzed: 10/16/2015 15:17

Source: C513030-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	10		0.50	ug/L	10.0	0.43 U	102	66-149	1	21	
PCB-1260	11		0.50	ug/L	10.0	0.45 U	107	64-150	2	18	
Surrogate: 2,4,5,6-TCMX	*0.86*			*ug/L*	*1.00*		*86*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.81*			*ug/L*	*1.00*		*81*	*42-159*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 5J14014 - EPA 7470A

Blank (5J14014-BLK1) Prepared: 10/14/2015 09:21 Analyzed: 10/15/2015 10:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (5J14014-BS1) Prepared: 10/14/2015 09:21 Analyzed: 10/15/2015 10:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.76		0.200	ug/L	5.00		95	80-120			

Matrix Spike (5J14014-MS1) Prepared: 10/14/2015 09:21 Analyzed: 10/15/2015 10:15

Source: C512213-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	6.04		0.200	ug/L	5.00	1.50	91	75-125			

Matrix Spike Dup (5J14014-MSD1) Prepared: 10/14/2015 09:21 Analyzed: 10/15/2015 10:18

Source: C512213-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	6.19		0.200	ug/L	5.00	1.50	94	75-125	2	25	

Post Spike (5J14014-PS1) Prepared: 10/14/2015 09:21 Analyzed: 10/15/2015 10:20

Source: C512213-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.76		0.200	ug/L	5.00	1.50	85	75-125			

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 5J12027 - EPA 3005A

Blank (5J12027-BLK1) Prepared: 10/12/2015 13:35 Analyzed: 10/15/2015 12:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	6.80	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.40	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	3.10	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Tin	2.40	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (5J12027-BS1) Prepared: 10/12/2015 13:35 Analyzed: 10/15/2015 12:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	204		10.0	ug/L	200		102	80-120			
Barium	199		10.0	ug/L	200		99	80-120			
Beryllium	19.6		1.00	ug/L	20.0		98	80-120			
Cadmium	21.2		1.00	ug/L	20.0		106	80-120			
Chromium	195		10.0	ug/L	200		98	80-120			
Cobalt	200		10.0	ug/L	200		100	80-120			
Copper	188		10.0	ug/L	200		94	80-120			
Lead	205		10.0	ug/L	200		102	80-120			
Nickel	201		10.0	ug/L	200		100	80-120			
Silver	192		10.0	ug/L	200		96	80-120			
Tin	203		10.0	ug/L	200		102	80-120			
Vanadium	189		10.0	ug/L	200		95	80-120			
Zinc	208		10.0	ug/L	200		104	80-120			

Matrix Spike (5J12027-MS1) Prepared: 10/12/2015 13:35 Analyzed: 10/15/2015 12:19

Source: C512213-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	205		10.0	ug/L	200	6.80 U	103	75-125			
Barium	212		10.0	ug/L	200	14.5	99	75-125			
Beryllium	19.4		1.00	ug/L	20.0	0.100 U	97	75-125			
Cadmium	21.1		1.00	ug/L	20.0	0.360 U	105	75-125			
Chromium	194		10.0	ug/L	200	1.40 U	97	75-125			
Cobalt	208		10.0	ug/L	200	7.21	101	75-125			
Copper	192		10.0	ug/L	200	3.12	94	75-125			
Lead	204		10.0	ug/L	200	3.10 U	102	75-125			
Nickel	198		10.0	ug/L	200	1.80 U	99	75-125			
Silver	189		10.0	ug/L	200	1.93	94	75-125			
Tin	203		10.0	ug/L	200	2.40 U	101	75-125			
Vanadium	188		10.0	ug/L	200	1.40 U	94	75-125			
Zinc	205		10.0	ug/L	200	3.80 U	103	75-125			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 5J12027 - EPA 3005A

Matrix Spike Dup (5J12027-MSD1) Prepared: 10/12/2015 13:35 Analyzed: 10/15/2015 12:22

Source: C512213-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	200		10.0	ug/L	200	6.80 U	100	75-125	2	20	
Barium	213		10.0	ug/L	200	14.5	99	75-125	0.5	20	
Beryllium	19.6		1.00	ug/L	20.0	0.100 U	98	75-125	1	20	
Cadmium	20.6		1.00	ug/L	20.0	0.360 U	103	75-125	3	20	
Chromium	195		10.0	ug/L	200	1.40 U	97	75-125	0.6	20	
Cobalt	203		10.0	ug/L	200	7.21	98	75-125	3	20	
Copper	192		10.0	ug/L	200	3.12	94	75-125	0.01	20	
Lead	198		10.0	ug/L	200	3.10 U	99	75-125	3	20	
Nickel	199		10.0	ug/L	200	1.80 U	100	75-125	0.6	20	
Silver	190		10.0	ug/L	200	1.93	94	75-125	0.5	20	
Tin	201		10.0	ug/L	200	2.40 U	101	75-125	0.9	20	
Vanadium	189		10.0	ug/L	200	1.40 U	95	75-125	1	20	
Zinc	209		10.0	ug/L	200	3.80 U	104	75-125	2	20	

Post Spike (5J12027-PS1) Prepared: 10/12/2015 13:35 Analyzed: 10/15/2015 12:33

Source: C512213-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.196		0.0100	mg/L	0.200	0.00421	96	80-120			
Barium	0.214		0.0100	mg/L	0.200	0.0145	100	80-120			
Beryllium	0.0186		0.00100	mg/L	0.0200	-7.47E-5	93	80-120			
Cadmium	0.0201		0.00100	mg/L	0.0200	0.000227	99	80-120			
Chromium	0.186		0.0100	mg/L	0.200	-0.000467	93	80-120			
Cobalt	0.198		0.0100	mg/L	0.200	0.00721	96	80-120			
Copper	0.184		0.0100	mg/L	0.200	0.00312	90	80-120			
Lead	0.194		0.0100	mg/L	0.200	0.000359	97	80-120			
Nickel	0.191		0.0100	mg/L	0.200	6.77E-5	96	80-120			
Silver	0.168		0.0100	mg/L	0.200	0.00193	83	80-120			
Tin	0.195		0.0100	mg/L	0.200	0.00113	97	80-120			
Vanadium	0.180		0.0100	mg/L	0.200	0.000727	90	80-120			
Zinc	0.207		0.0100	mg/L	0.200	0.00157	103	80-120			

Batch 5J13026 - EPA 3005A

Blank (5J13026-BLK1) Prepared: 10/13/2015 14:32 Analyzed: 10/15/2015 13:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Selenium	0.910	U	3.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (5J13026-BS1) Prepared: 10/13/2015 14:32 Analyzed: 10/15/2015 13:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	196		2.00	ug/L	200		98	80-120			
Selenium	208		3.00	ug/L	200		104	80-120			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 5J13026 - EPA 3005A

LCS (5J13026-BS1) Continued Prepared: 10/13/2015 14:32 Analyzed: 10/15/2015 13:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Thallium	213		1.00	ug/L	200		106	80-120			

Matrix Spike (5J13026-MS1) Prepared: 10/13/2015 14:32 Analyzed: 10/15/2015 13:44

Source: C512354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	190		2.00	ug/L	200	2.43	94	75-125			
Selenium	216		3.00	ug/L	200	0.910 U	108	75-125			
Thallium	204		1.00	ug/L	200	0.110 U	102	75-125			

Matrix Spike Dup (5J13026-MSD1) Prepared: 10/13/2015 14:32 Analyzed: 10/15/2015 13:59

Source: C512354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	190		2.00	ug/L	200	2.43	94	75-125	0.04	20	
Selenium	210		3.00	ug/L	200	0.910 U	105	75-125	3	20	
Thallium	202		1.00	ug/L	200	0.110 U	101	75-125	1	20	

Post Spike (5J13026-PS1) Prepared: 10/13/2015 14:32 Analyzed: 10/15/2015 14:03

Source: C512354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	199		2.00	ug/L	200	2.43	98	80-120			
Selenium	226		3.00	ug/L	200	0.192	113	80-120			
Thallium	209		1.00	ug/L	200	0.0840	105	80-120			

Classical Chemistry Parameters - Quality Control

Batch 5J10003 - NO PREP

Blank (5J10003-BLK1) Prepared: 10/10/2015 13:05 Analyzed: 10/10/2015 13:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.010	U	0.10	mg/L							

LCS (5J10003-BS1) Prepared: 10/10/2015 13:05 Analyzed: 10/10/2015 13:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.43		0.10	mg/L	0.401		108	80-120			

Duplicate (5J10003-DUP1) Prepared: 10/10/2015 13:05 Analyzed: 10/10/2015 13:52

Source: C512354-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.010	U	0.10	mg/L		0.010 U				25	

Matrix Spike (5J10003-MS1) Prepared: 10/10/2015 13:05 Analyzed: 10/10/2015 13:52

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 5J10003 - NO PREP

Matrix Spike (5J10003-MS1) Continued Prepared: 10/10/2015 13:05 Analyzed: 10/10/2015 13:52

Source: C512354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.17		0.10	mg/L	0.401	0.010 U	42	80-120			QM-05

Matrix Spike Dup (5J10003-MSD1) Prepared: 10/10/2015 13:05 Analyzed: 10/10/2015 13:52

Source: C512354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.19		0.10	mg/L	0.401	0.010 U	47	80-120	11	25	QM-05

Batch 5J10007 - NO PREP

Blank (5J10007-BLK1) Prepared: 10/10/2015 15:54 Analyzed: 10/10/2015 16:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.010	U	0.10	mg/L							

LCS (5J10007-BS1) Prepared: 10/10/2015 15:54 Analyzed: 10/10/2015 16:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.43		0.10	mg/L	0.401		108	80-120			

Duplicate (5J10007-DUP1) Prepared: 10/10/2015 15:54 Analyzed: 10/10/2015 16:30

Source: C512354-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.010	U	0.10	mg/L		0.010 U				25	

Matrix Spike (5J10007-MS1) Prepared: 10/10/2015 15:54 Analyzed: 10/10/2015 16:30

Source: C512539-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.36		0.10	mg/L	0.401	0.010 U	91	80-120			

Matrix Spike Dup (5J10007-MSD1) Prepared: 10/10/2015 15:54 Analyzed: 10/10/2015 16:30

Source: C512539-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.36		0.10	mg/L	0.401	0.010 U	90	80-120	1	25	

Batch 5J15006 - Same

Blank (5J15006-BLK1) Prepared: 10/15/2015 09:38 Analyzed: 10/19/2015 09:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.0049	U	0.010	mg/L							

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 5J15006 - Same

LCS (5J15006-BS1) Prepared: 10/15/2015 09:38 Analyzed: 10/19/2015 09:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.15		0.010	mg/L	0.150		101	85-115			

Matrix Spike (5J15006-MS1) Prepared: 10/15/2015 09:38 Analyzed: 10/19/2015 09:18

Source: C512294-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.14		0.010	mg/L	0.150	0.0049 U	95	85-115			

Matrix Spike (5J15006-MS2) Prepared: 10/15/2015 09:38 Analyzed: 10/19/2015 09:20

Source: C512354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.15		0.010	mg/L	0.150	0.0049 U	100	85-115			

Matrix Spike Dup (5J15006-MSD1) Prepared: 10/15/2015 09:38 Analyzed: 10/19/2015 09:22

Source: C512294-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.15		0.010	mg/L	0.150	0.0049 U	100	85-115	4	20	

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 5J12002 - EPA 3510C

Blank (5J12002-BLK1) Prepared: 10/12/2015 10:30 Analyzed: 10/13/2015 12:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.28	U	0.50	ug/L							
2,4,5-TP (Silvex)	0.44	U	0.50	ug/L							
2,4-D	0.27	U	0.50	ug/L							
Dinoseb	0.32	U	0.50	ug/L							
Pentachlorophenol	0.19	U	0.50	ug/L							
Surrogate: 2,4-DCAA	*1.4*			*ug/L*	*2.00*		*70*	*48-151*			

LCS (5J12002-BS1) Prepared: 10/12/2015 10:30 Analyzed: 10/13/2015 12:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.2		0.50	ug/L	2.00		60	47-142			
2,4-D	1.1		0.50	ug/L	2.00		57	37-129			
Surrogate: 2,4-DCAA	*1.3*			*ug/L*	*2.00*		*64*	*48-151*			

Matrix Spike (5J12002-MS1) Prepared: 10/12/2015 10:30 Analyzed: 10/13/2015 13:22

Source: A506504-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 5J12002 - EPA 3510C

Matrix Spike (5J12002-MS1) Continued Prepared: 10/12/2015 10:30 Analyzed: 10/13/2015 13:22

Source: A506504-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.6		0.50	ug/L	2.00	0.44 U	78	47-142			
2,4-D	1.4		0.50	ug/L	2.00	0.27 U	70	37-129			
Surrogate: 2,4-DCAA	*1.7*			*ug/L*	*2.00*		*84*	*48-151*			

Matrix Spike Dup (5J12002-MSD1) Prepared: 10/12/2015 10:30 Analyzed: 10/13/2015 13:47

Source: A506504-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.2		0.50	ug/L	2.00	0.44 U	62	47-142	24	15	QM-11
2,4-D	1.1		0.50	ug/L	2.00	0.27 U	54	37-129	25	33	
Surrogate: 2,4-DCAA	*1.2*			*ug/L*	*2.00*		*62*	*48-151*			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.
QV-02	The associated continuing calibration verification standard exhibited low bias; the reported result should be considered to be a minimum estimate.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

www.encolabs.com

10775 Central Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 111 Jacksonville, FL 32216-6069 (904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515

Client Name: City of Greensboro (CI034)	Project Number: [none]
Address: 2503 White Street	Project Name/Desc: White Street Landfill App IIs - CAS
City/ST/Zip: Greensboro, NC 27405	PO # / Billing Info:
Tel: (336) 373-4188 Fax:	Reporting Contact: Lewis Walker
Sampler(s) Name, Affiliation (Print): BRADLEY KEYSE / SIMC	Billing Contact: Angie Wade
Sampler(s) Signature: [signature]	Site Location / Time Zone:

Requested Analyses: 8081B Appendix 2; 8082A Appendix 2, 8151A Appendix 2, 8270D Appendix 2; 8260B Appendix 2; Ag, As, Ba, Be, Cd, Co, Cr, Cu, Ni, Pb, Sb, Se, Sn, Tl, V, Zn; Cyanide Total 9014; Hg; Sulfide SM4500-S D

Requested Turnaround Times: Note : Rush requests subject to acceptance by the facility. ✓ Standard ___ Expedited Due __/__/__

Lab Workorder: C512354

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8081B Appendix 2	8082A Appendix 2, 8151A Appendix 2, 8270D Appendix 2	8260B Appendix 2	Ag, As, Ba, Be, Cd, Co, Cr, Cu, Ni, Pb, Sb, Se, Sn, Tl, V, Zn	Cyanide Total 9014	Hg	Sulfide SM4500-S D				Sample Comments
	~~4103-SMW4~~	10-7-15	1745	GRAB	GW	9	X	X	X	X	X	X	X				
	~~4103-SMW1~~	10-7-15	1620	GRAB	GW	9	X	X	X	X	X	X	X				
	4103-IF1 ~~4103-SMW3~~ (BR)	10-7-15	1315	GRAB	GW	9	X	X	X	X	X	X	X				
	4103-IF12 ~~4103-IF12~~ (BR)	10-8-15	0755	GRAB	GW	9	X	X	X	X	X	X	X				
	4103-MW13 ~~4103-IF9~~	10-8-15	0920	GRAB	GW	9	X	X	X	X	X	X	X				

<-- Total # of Containers

Sample Kit Prepared By: KAY	Date/Time: 9/24	Relinquished By: [signature] / SIMC	Date/Time: 10-8-15 / 1200	Received By: [signature]	Date/Time: 12:03 10-8-15
Comments/Special Reporting Requirements		Relinquished By: [signature]	Date/Time: 2:00 10/8/15	Received By: [signature]	Date/Time: 10/8/15 1400
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-2176 C-902 2.1°C

Condition Upon Receipt: ___ Acceptable ___ Unacceptable

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

Sample Preservation Verification

ENCO Cary

Work Order:	C512354	Project:	White Street Landfill App IIs - CAS
Client:	City of Greensboro (CI034)	Project #:	[none]
Logged In:	08-Oct-15 15:43	Logged By:	Andrew S Coons

C512354-01

Cont	Type	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
D	250mLP+HNO3	<2	Y / N / NA	Y / N / NA		
E	250mLP+NaOH	>12	Y / N / NA	Y / N / NA		
F	250mLP+ZnAc+NaOH	>9	Y / N / NA	Y / N / NA		

C512354-02

Cont	Type	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
D	250mLP+HNO3	<2	Y / N / NA	Y / N / NA		
E	250mLP+NaOH	>12	Y / N / NA	Y / N / NA		
F	250mLP+ZnAc+NaOH	>9	Y / N / NA	Y / N / NA		

C512354-03

Cont	Type	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
D	250mLP+HNO3	<2	Y / N / NA	Y / N / NA		
E	250mLP+NaOH	>12	Y / N / NA	Y / N / NA		
F	250mLP+ZnAc+NaOH	>9	Y / N / NA	Y / N / NA		

C512354-04

Cont	Type	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
D	250mLP+HNO3	<2	Y / N / NA	Y / N / NA		
E	250mLP+NaOH	>12	Y / N / NA	Y / N / NA		
F	250mLP+ZnAc+NaOH	>9	Y / N / NA	Y / N / NA		

C512354-05

Cont	Type	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
D	250mLP+HNO3	<2	Y / N / NA	Y / N / NA		
E	250mLP+NaOH	>12	Y / N / NA	Y / N / NA		
F	250mLP+ZnAc+NaOH	>9	Y / N / NA	Y / N / NA		

	Reagent Name	ID		Reagent Name	ID		Reagent Name	ID
1			3			5		
2			4			6		

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Monday, October 19, 2015

City of Greensboro (CI034)

Attn: Lewis Walker

2503 White Street

Greensboro, NC 27405

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: White Street Landfill App IIs
ENCO Workorder(s): C512885

Dear Lewis Walker,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, October 7, 2015.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 99.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4103-DuplicateII | **Lab ID: C512885-01** | **Sampled: 10/06/15 07:00** | **Received: 10/07/15 13:15**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	04/03/16		10/09/15	08:29	10/13/2015	14:47
EPA 6020A	04/03/16		10/08/15	08:55	10/14/2015	11:24
EPA 7470A	11/03/15		10/12/15	08:24	10/13/2015	11:37
EPA 8081B	10/13/15	11/17/15	10/08/15	10:58	10/14/2015	20:22
EPA 8082A	10/05/16	11/17/15	10/08/15	11:30	10/14/2015	20:22
EPA 8151A	10/13/15	11/21/15	10/12/15	10:30	10/13/2015	17:12
EPA 8260B	10/20/15		10/12/15	15:41	10/13/2015	19:09
EPA 8270D	10/13/15	11/21/15	10/12/15	14:13	10/16/2015	02:30
EPA 9014	10/20/15		10/13/15	12:16	10/15/2015	10:41
SM 4500S2 D-2000	10/13/15		10/10/15	11:33	10/10/2015	11:50

Client ID: 4103-II9 | **Lab ID: C512885-02** | **Sampled: 10/07/15 08:15** | **Received: 10/07/15 13:15**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	04/04/16		10/09/15	08:29	10/13/2015	14:50
EPA 6020A	04/04/16		10/08/15	08:55	10/14/2015	11:28
EPA 7470A	11/04/15		10/12/15	08:24	10/13/2015	11:39
EPA 8081B	10/14/15	11/17/15	10/08/15	10:58	10/14/2015	20:35
EPA 8082A	10/06/16	11/17/15	10/08/15	11:30	10/14/2015	20:35
EPA 8151A	10/14/15	11/21/15	10/12/15	10:30	10/13/2015	17:38
EPA 8260B	10/21/15		10/13/15	12:41	10/14/2015	07:10
EPA 8270D	10/14/15	11/21/15	10/12/15	14:13	10/16/2015	03:01
EPA 9014	10/21/15		10/13/15	12:16	10/15/2015	10:43
SM 4500S2 D-2000	10/14/15		10/10/15	15:54	10/10/2015	16:30

Client ID: 4103-SMW3 | **Lab ID: C512885-03** | **Sampled: 10/07/15 10:20** | **Received: 10/07/15 13:15**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	04/04/16		10/09/15	08:29	10/13/2015	14:52
EPA 6020A	04/04/16		10/08/15	08:55	10/14/2015	11:43
EPA 7470A	11/04/15		10/12/15	08:35	10/13/2015	12:47
EPA 8081B	10/14/15	11/17/15	10/08/15	10:58	10/14/2015	20:48
EPA 8082A	10/06/16	11/17/15	10/08/15	11:30	10/14/2015	20:48
EPA 8151A	10/14/15	11/21/15	10/12/15	10:30	10/13/2015	18:04
EPA 8260B	10/21/15		10/13/15	12:41	10/14/2015	07:39
EPA 8270D	10/14/15	11/21/15	10/12/15	14:13	10/16/2015	03:31
EPA 9014	10/21/15		10/13/15	12:16	10/15/2015	10:45
SM 4500S2 D-2000	10/14/15		10/10/15	15:54	10/10/2015	16:30

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Client ID: 4103-II7	Lab ID: C512885-04	Sampled: 10/06/15 12:45	Received: 10/07/15 13:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	04/03/16		10/09/15	08:29	10/13/2015 14:55
EPA 6020A	04/03/16		10/08/15	08:55	10/14/2015 11:47
EPA 7470A	11/03/15		10/12/15	08:35	10/13/2015 13:26
EPA 8081B	10/13/15	11/17/15	10/08/15	10:58	10/14/2015 21:02
EPA 8082A	10/05/16	11/17/15	10/08/15	11:30	10/14/2015 21:02
EPA 8151A	10/13/15	11/21/15	10/12/15	10:30	10/13/2015 18:29
EPA 8260B	10/20/15		10/12/15	15:41	10/13/2015 19:39
EPA 8270D	10/13/15	11/21/15	10/12/15	14:13	10/16/2015 04:02
EPA 9014	10/20/15		10/13/15	12:16	10/15/2015 10:47
SM 4500S2 D-2000	10/13/15		10/10/15	11:33	10/10/2015 11:50

Client ID: 4103-II7B	Lab ID: C512885-05	Sampled: 10/06/15 14:30	Received: 10/07/15 13:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	04/03/16		10/09/15	08:29	10/13/2015 15:21
EPA 6020A	04/03/16		10/08/15	08:55	10/14/2015 11:50
EPA 7470A	11/03/15		10/12/15	08:35	10/13/2015 13:28
EPA 8081B	10/13/15	11/17/15	10/08/15	10:58	10/14/2015 21:15
EPA 8082A	10/05/16	11/17/15	10/08/15	11:30	10/14/2015 21:15
EPA 8151A	10/13/15	11/21/15	10/12/15	10:30	10/13/2015 18:54
EPA 8260B	10/20/15		10/12/15	15:41	10/13/2015 20:08
EPA 8270D	10/13/15	11/21/15	10/12/15	14:13	10/16/2015 04:32
EPA 9014	10/20/15		10/13/15	12:16	10/15/2015 10:48
SM 4500S2 D-2000	10/13/15		10/10/15	11:33	10/10/2015 11:50

Client ID: 4103-II8	Lab ID: C512885-06	Sampled: 10/06/15 17:40	Received: 10/07/15 13:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	04/03/16		10/09/15	08:29	10/13/2015 15:24
EPA 6020A	04/03/16		10/08/15	08:55	10/14/2015 11:54
EPA 7470A	11/03/15		10/12/15	08:35	10/13/2015 13:30
EPA 8081B	10/13/15	11/17/15	10/08/15	10:58	10/14/2015 21:28
EPA 8082A	10/05/16	11/17/15	10/08/15	11:30	10/14/2015 21:28
EPA 8151A	10/13/15	11/21/15	10/12/15	10:30	10/13/2015 19:20
EPA 8270D	10/13/15	11/21/15	10/12/15	14:13	10/16/2015 05:03
EPA 9014	10/20/15		10/13/15	12:16	10/15/2015 10:50
SM 4500S2 D-2000	10/13/15		10/10/15	11:33	10/10/2015 11:50

Client ID: 4103-II8	Lab ID: C512885-06RE1	Sampled: 10/06/15 17:40	Received: 10/07/15 13:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	10/20/15		10/12/15	15:41	10/14/2015 15:45

Client ID: 4103-Trip Blank #1	Lab ID: C512885-07	Sampled: 10/06/15 07:00	Received: 10/07/15 13:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	10/20/15		10/12/15	15:41	10/14/2015 20:38

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Client ID: 4103-Trip Blank #2	Lab ID: C512885-08RE1	Sampled: 10/06/15 07:00	Received: 10/07/15 13:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	10/20/15	10/16/15 10:18	10/16/2015 13:20

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 4103-DuplicateII **Lab ID: C512885-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.40	J	1	0.13	1.0	5	ug/L	EPA 8260B	
Arsenic - Total	7.33	J	1	6.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	142		1	1.00	10.0	100	ug/L	EPA 6010C	
Chlorobenzene	2.4	J	1	0.17	1.0	3	ug/L	EPA 8260B	
Chromium - Total	1.46	J	1	1.40	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	1.72	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Lead - Total	4.15	J	1	3.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	41.0	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Silver - Total	5.40	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Tetrahydrofuran	12		1	0.80	1.0	NE	ug/L	EPA 8260B	
Vanadium - Total	2.08	J	1	1.40	10.0	25	ug/L	EPA 6010C	

Client ID: 4103-II9 **Lab ID: C512885-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	5.8		1	0.13	1.0	5	ug/L	EPA 8260B	
Barium - Total	110		1	1.00	10.0	100	ug/L	EPA 6010C	
Chlorobenzene	0.60	J	1	0.17	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	13		1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	6.64	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Lead - Total	4.51	J	1	3.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.53	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vinyl chloride	2.2		1	0.32	1.0	1	ug/L	EPA 8260B	
Zinc - Total	20.2		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4103-SMW3 **Lab ID: C512885-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	3.7	J	1	0.13	1.0	5	ug/L	EPA 8260B	
Barium - Total	145		1	1.00	10.0	100	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	7.6		1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	2.01	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	3.74	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Vinyl chloride	0.72	J	1	0.32	1.0	1	ug/L	EPA 8260B	

Client ID: 4103-II7 **Lab ID: C512885-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	87.0	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cobalt - Total	3.51	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Mercury - Total	0.170	J	1	0.170	0.200	0.2	ug/L	EPA 7470A	
Nickel - Total	4.65	J	1	1.80	10.0	50	ug/L	EPA 6010C	

Client ID: 4103-II7B **Lab ID: C512885-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.79	J	1	0.13	1.0	5	ug/L	EPA 8260B	
Barium - Total	13.4	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Phenol	1.8	J	1	1.4	10	10	ug/L	EPA 8270D	
Vanadium - Total	2.32	J	1	1.40	10.0	25	ug/L	EPA 6010C	

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Client ID: 4103-II8				Lab ID: C512885-06					
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Barium - Total	150		1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	2.10	J	1	1.40	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	1.75	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	44.4	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Silver - Total	5.84	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	1.92	J	1	1.40	10.0	25	ug/L	EPA 6010C	

Client ID: 4103-II8				Lab ID: C512885-06RE1					
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Chlorobenzene	1.9	J	1	0.17	1.0	3	ug/L	EPA 8260B	
Tetrahydrofuran	9.8		1	0.80	1.0	NE	ug/L	EPA 8260B	

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ANALYTICAL RESULTS

Description: 4103-DuplicateII
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-01
Sampled: 10/06/15 07:00
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/13/15 19:09	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/13/15 19:09	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/13/15 19:09	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/15 19:09	MSZ	
1,1-Dichloroethane [75-34-3] ^	**0.40**	J	ug/L	1	0.13	1.0	5	EPA 8260B	10/13/15 19:09	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/15 19:09	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/15 19:09	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/15 19:09	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/15 19:09	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/13/15 19:09	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/13/15 19:09	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/13/15 19:09	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/13/15 19:09	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/13/15 19:09	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/15 19:09	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/13/15 19:09	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/13/15 19:09	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/13/15 19:09	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/13/15 19:09	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/13/15 19:09	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/15 19:09	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/13/15 19:09	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/13/15 19:09	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/13/15 19:09	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/13/15 19:09	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/13/15 19:09	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/15 19:09	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/13/15 19:09	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/15 19:09	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/13/15 19:09	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/15 19:09	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/13/15 19:09	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/15 19:09	MSZ	
Chlorobenzene [108-90-7] ^	**2.4**	J	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/15 19:09	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/13/15 19:09	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/13/15 19:09	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/15 19:09	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/13/15 19:09	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/15 19:09	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/13/15 19:09	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/15 19:09	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/13/15 19:09	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/13/15 19:09	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/13/15 19:09	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/15 19:09	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/13/15 19:09	MSZ	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/13/15 19:09	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/13/15 19:09	MSZ	

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Description: 4103-DuplicateII
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-01
Sampled: 10/06/15 07:00
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/13/15 19:09	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/15 19:09	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/15 19:09	MSZ	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/13/15 19:09	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/13/15 19:09	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/15 19:09	MSZ	
Tetrahydrofuran [109-99-9] ^	**12**		ug/L	1	0.80	1.0		EPA 8260B	10/13/15 19:09	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/15 19:09	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/15 19:09	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/15 19:09	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/13/15 19:09	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/15 19:09	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/13/15 19:09	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/13/15 19:09	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/13/15 19:09	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/13/15 19:09	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*105 %*	*53-136*	*5J12032*	*EPA 8260B*	*10/13/15 19:09*	*MSZ*	
Dibromofluoromethane	*53*	*1*	*50.0*	*106 %*	*67-129*	*5J12032*	*EPA 8260B*	*10/13/15 19:09*	*MSZ*	
Toluene-d8	*53*	*1*	*50.0*	*106 %*	*59-134*	*5J12032*	*EPA 8260B*	*10/13/15 19:09*	*MSZ*	

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Description: 4103-DuplicateII | **Lab Sample ID:** C512885-01 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 07:00 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 02:30	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/16/15 02:30	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/16/15 02:30	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/16/15 02:30	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/16/15 02:30	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/16/15 02:30	DFM	QV-02
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 02:30	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 02:30	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 02:30	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 02:30	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:30	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/16/15 02:30	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/16/15 02:30	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 02:30	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 02:30	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/16/15 02:30	DFM	QV-01
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 02:30	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 02:30	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/16/15 02:30	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 02:30	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 02:30	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/16/15 02:30	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/16/15 02:30	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 02:30	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 02:30	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/16/15 02:30	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/16/15 02:30	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:30	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/16/15 02:30	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/16/15 02:30	DFM	QV-02
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 02:30	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/16/15 02:30	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/16/15 02:30	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 02:30	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/16/15 02:30	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/16/15 02:30	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/16/15 02:30	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 02:30	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 02:30	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 02:30	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:30	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 02:30	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:30	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:30	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 02:30	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/16/15 02:30	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:30	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/16/15 02:30	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 02:30	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 02:30	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:30	DFM	

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Description: 4103-DuplicateII | **Lab Sample ID:** C512885-01 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 07:00 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/16/15 02:30	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 02:30	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 02:30	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 02:30	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 02:30	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/16/15 02:30	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 02:30	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 02:30	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/16/15 02:30	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 02:30	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 02:30	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/16/15 02:30	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 02:30	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/16/15 02:30	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/16/15 02:30	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 02:30	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 02:30	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 02:30	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 02:30	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:30	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 02:30	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 02:30	DFM	QV-01
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/16/15 02:30	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/16/15 02:30	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:30	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:30	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/16/15 02:30	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/16/15 02:30	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 02:30	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/16/15 02:30	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 02:30	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/16/15 02:30	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:30	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 02:30	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 02:30	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 02:30	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/16/15 02:30	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/16/15 02:30	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:30	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:30	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 02:30	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 02:30	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 02:30	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 02:30	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/16/15 02:30	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/16/15 02:30	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 02:30	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 02:30	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 02:30	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 02:30	DFM	

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Description: 4103-DuplicateII
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-01
Sampled: 10/06/15 07:00
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 02:30	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 02:30	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/16/15 02:30	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*86*	*1*	*100*	*86 %*	*10-179*	*5J12029*	*EPA 8270D*	*10/16/15 02:30*	*DFM*	
2-Fluorobiphenyl	*45*	*1*	*50.0*	*90 %*	*10-149*	*5J12029*	*EPA 8270D*	*10/16/15 02:30*	*DFM*	
2-Fluorophenol	*57*	*1*	*100*	*57 %*	*10-110*	*5J12029*	*EPA 8270D*	*10/16/15 02:30*	*DFM*	
Nitrobenzene-d5	*42*	*1*	*50.0*	*84 %*	*10-149*	*5J12029*	*EPA 8270D*	*10/16/15 02:30*	*DFM*	
Phenol-d5	*45*	*1*	*100*	*45 %*	*10-88*	*5J12029*	*EPA 8270D*	*10/16/15 02:30*	*DFM*	
Terphenyl-d14	*43*	*1*	*50.0*	*87 %*	*10-188*	*5J12029*	*EPA 8270D*	*10/16/15 02:30*	*DFM*	

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Description: 4103-DuplicateII
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-01
Sampled: 10/06/15 07:00
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	10/14/15 20:22	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	10/14/15 20:22	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	10/14/15 20:22	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	10/14/15 20:22	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/15 20:22	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/15 20:22	MWC	QV-01
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	10/14/15 20:22	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	10/14/15 20:22	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	10/14/15 20:22	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	10/14/15 20:22	MWC	QV-01
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	10/14/15 20:22	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	10/14/15 20:22	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	10/14/15 20:22	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	10/14/15 20:22	MWC	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	10/14/15 20:22	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	10/14/15 20:22	MWC	QV-01
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	10/14/15 20:22	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	10/14/15 20:22	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	10/14/15 20:22	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	10/14/15 20:22	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	10/14/15 20:22	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.77*	*1*	*1.00*	*77 %*	*44-134*	*5J08015*	*EPA 8081B*	*10/14/15 20:22*	*MWC*	
Decachlorobiphenyl	*1.0*	*1*	*1.00*	*100 %*	*37-149*	*5J08015*	*EPA 8081B*	*10/14/15 20:22*	*MWC*	

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Description: 4103-DuplicateII
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-01
Sampled: 10/06/15 07:00
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/14/15 20:22	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/15 20:22	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/15 20:22	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/14/15 20:22	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/15 20:22	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/15 20:22	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.77*	*1*	*1.00*	*77 %*	*45-151*	*5J08017*	*EPA 8082A*	*10/14/15 20:22*	*MWC*	
Decachlorobiphenyl	*1.0*	*1*	*1.00*	*100 %*	*42-159*	*5J08017*	*EPA 8082A*	*10/14/15 20:22*	*MWC*	

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Description:	4103-DuplicateII	**Lab Sample ID:**	C512885-01	**Received:**	10/07/15 13:15
Matrix:	Ground Water	**Sampled:**	10/06/15 07:00	**Work Order:**	C512885
Project:	White Street Landfill App IIs	**Sampled By:**	Bradley Keyse		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/13/15 11:37	BAM	

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Description: 4103-DuplicateII
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-01
Sampled: 10/06/15 07:00
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/14/15 11:24	VLO	
Arsenic [7440-38-2] ^	**7.33**	J	ug/L	1	6.80	10.0	10	EPA 6010C	10/13/15 14:47	JDH	
Barium [7440-39-3] ^	**142**		ug/L	1	1.00	10.0	100	EPA 6010C	10/13/15 14:47	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/13/15 14:47	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/13/15 14:47	JDH	
Chromium [7440-47-3] ^	**1.46**	J	ug/L	1	1.40	10.0	10	EPA 6010C	10/13/15 14:47	JDH	
Cobalt [7440-48-4] ^	**1.72**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/13/15 14:47	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/13/15 14:47	JDH	
Lead [7439-92-1] ^	**4.15**	J	ug/L	1	3.10	10.0	10	EPA 6010C	10/13/15 14:47	JDH	
Nickel [7440-02-0] ^	**41.0**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/13/15 14:47	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/14/15 11:24	VLO	
Silver [7440-22-4] ^	**5.40**	J	ug/L	1	1.90	10.0	10	EPA 6010C	10/13/15 14:47	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/14/15 11:24	VLO	
Tin [7440-31-5] ^	2.40	U	ug/L	1	2.40	10.0	100	EPA 6010C	10/13/15 14:47	JDH	
Vanadium [7440-62-2] ^	**2.08**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/13/15 14:47	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	10/13/15 14:47	JDH	

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Description: 4103-DuplicateII
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-01
Sampled: 10/06/15 07:00
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/15/15 10:41	JLJ	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/10/15 11:50	JOC	

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Description: 4103-DuplicateII
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-01
Sampled: 10/06/15 07:00
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50		EPA 8151A	10/13/15 17:12	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/13/15 17:12	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/13/15 17:12	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/13/15 17:12	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/13/15 17:12	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.2*	*1*	*2.00*	*110 %*	*48-151*	*5J12002*	*EPA 8151A*	*10/13/15 17:12*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-II9 | **Lab Sample ID:** C512885-02 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/07/15 08:15 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/14/15 07:10	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/14/15 07:10	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/14/15 07:10	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/14/15 07:10	REF	
1,1-Dichloroethane [75-34-3] ^	**5.8**		ug/L	1	0.13	1.0	5	EPA 8260B	10/14/15 07:10	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/14/15 07:10	REF	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/14/15 07:10	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/14/15 07:10	REF	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/14/15 07:10	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/14/15 07:10	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/14/15 07:10	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/14/15 07:10	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/14/15 07:10	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/14/15 07:10	REF	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/14/15 07:10	REF	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/14/15 07:10	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/14/15 07:10	REF	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/14/15 07:10	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/14/15 07:10	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/14/15 07:10	REF	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/14/15 07:10	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/14/15 07:10	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/14/15 07:10	REF	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/14/15 07:10	REF	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/14/15 07:10	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/14/15 07:10	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/15 07:10	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/14/15 07:10	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/15 07:10	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/14/15 07:10	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/14/15 07:10	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/14/15 07:10	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/15 07:10	REF	
Chlorobenzene [108-90-7] ^	**0.60**	J	ug/L	1	0.17	1.0	3	EPA 8260B	10/14/15 07:10	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/14/15 07:10	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/14/15 07:10	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/14/15 07:10	REF	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/14/15 07:10	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**13**		ug/L	1	0.15	1.0	5	EPA 8260B	10/14/15 07:10	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/14/15 07:10	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/14/15 07:10	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/14/15 07:10	REF	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/14/15 07:10	REF	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/14/15 07:10	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/14/15 07:10	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/14/15 07:10	REF	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/14/15 07:10	REF	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/14/15 07:10	REF	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/14/15 07:10	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/14/15 07:10	REF	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/14/15 07:10	REF	

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Description: 4103-II9 | **Lab Sample ID:** C512885-02 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/07/15 08:15 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/14/15 07:10	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/14/15 07:10	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/15 07:10	REF	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	10/14/15 07:10	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/14/15 07:10	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/14/15 07:10	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/15 07:10	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/14/15 07:10	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/15 07:10	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/14/15 07:10	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/14/15 07:10	REF	
Vinyl chloride [75-01-4] ^	**2.2**		ug/L	1	0.32	1.0	1	EPA 8260B	10/14/15 07:10	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/14/15 07:10	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*96 %*	*53-136*	*5J13019*	*EPA 8260B*	*10/14/15 07:10*	*REF*	
Dibromofluoromethane	*54*	*1*	*50.0*	*108 %*	*67-129*	*5J13019*	*EPA 8260B*	*10/14/15 07:10*	*REF*	
Toluene-d8	*48*	*1*	*50.0*	*97 %*	*59-134*	*5J13019*	*EPA 8260B*	*10/14/15 07:10*	*REF*	

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Description: 4103-II9 | **Lab Sample ID:** C512885-02 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/07/15 08:15 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 03:01	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/16/15 03:01	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/16/15 03:01	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/16/15 03:01	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/16/15 03:01	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/16/15 03:01	DFM	QV-02
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 03:01	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 03:01	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 03:01	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 03:01	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:01	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/16/15 03:01	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/16/15 03:01	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 03:01	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 03:01	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/16/15 03:01	DFM	QV-01
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 03:01	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 03:01	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/16/15 03:01	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 03:01	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 03:01	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/16/15 03:01	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/16/15 03:01	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 03:01	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 03:01	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/16/15 03:01	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/16/15 03:01	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:01	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/16/15 03:01	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/16/15 03:01	DFM	QV-02
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 03:01	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/16/15 03:01	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/16/15 03:01	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 03:01	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/16/15 03:01	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/16/15 03:01	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/16/15 03:01	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 03:01	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 03:01	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 03:01	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:01	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 03:01	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:01	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:01	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 03:01	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/16/15 03:01	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:01	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/16/15 03:01	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 03:01	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 03:01	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:01	DFM	

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Description: 4103-II9 | **Lab Sample ID:** C512885-02 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/07/15 08:15 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/16/15 03:01	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 03:01	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 03:01	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 03:01	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 03:01	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/16/15 03:01	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 03:01	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 03:01	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/16/15 03:01	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 03:01	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 03:01	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/16/15 03:01	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 03:01	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/16/15 03:01	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/16/15 03:01	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 03:01	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 03:01	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 03:01	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 03:01	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:01	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 03:01	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 03:01	DFM	QV-01
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/16/15 03:01	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/16/15 03:01	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:01	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:01	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/16/15 03:01	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/16/15 03:01	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 03:01	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/16/15 03:01	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 03:01	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/16/15 03:01	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:01	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 03:01	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 03:01	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 03:01	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/16/15 03:01	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/16/15 03:01	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:01	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:01	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 03:01	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 03:01	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 03:01	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:01	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/16/15 03:01	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/16/15 03:01	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 03:01	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 03:01	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 03:01	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 03:01	DFM	

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Description: 4103-II9 | **Lab Sample ID:** C512885-02 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/07/15 08:15 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 03:01	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 03:01	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/16/15 03:01	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*89*	*1*	*100*	*89 %*	*10-179*	*5J12029*	*EPA 8270D*	*10/16/15 03:01*	*DFM*	
2-Fluorobiphenyl	*42*	*1*	*50.0*	*84 %*	*10-149*	*5J12029*	*EPA 8270D*	*10/16/15 03:01*	*DFM*	
2-Fluorophenol	*63*	*1*	*100*	*63 %*	*10-110*	*5J12029*	*EPA 8270D*	*10/16/15 03:01*	*DFM*	
Nitrobenzene-d5	*42*	*1*	*50.0*	*83 %*	*10-149*	*5J12029*	*EPA 8270D*	*10/16/15 03:01*	*DFM*	
Phenol-d5	*55*	*1*	*100*	*55 %*	*10-88*	*5J12029*	*EPA 8270D*	*10/16/15 03:01*	*DFM*	
Terphenyl-d14	*55*	*1*	*50.0*	*110 %*	*10-188*	*5J12029*	*EPA 8270D*	*10/16/15 03:01*	*DFM*	

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Description: 4103-II9 | **Lab Sample ID:** C512885-02 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/07/15 08:15 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	10/14/15 20:35	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	10/14/15 20:35	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	10/14/15 20:35	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	10/14/15 20:35	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/15 20:35	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/15 20:35	MWC	QV-01
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	10/14/15 20:35	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	10/14/15 20:35	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	10/14/15 20:35	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	10/14/15 20:35	MWC	QV-01
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	10/14/15 20:35	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	10/14/15 20:35	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	10/14/15 20:35	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	10/14/15 20:35	MWC	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	10/14/15 20:35	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	10/14/15 20:35	MWC	QV-01
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	10/14/15 20:35	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	10/14/15 20:35	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	10/14/15 20:35	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	10/14/15 20:35	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	10/14/15 20:35	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.78*	*1*	*1.00*	*78 %*	*44-134*	*5J08015*	*EPA 8081B*	*10/14/15 20:35*	*MWC*	
Decachlorobiphenyl	*0.89*	*1*	*1.00*	*89 %*	*37-149*	*5J08015*	*EPA 8081B*	*10/14/15 20:35*	*MWC*	

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Description: 4103-II9
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-02
Sampled: 10/07/15 08:15
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/14/15 20:35	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/15 20:35	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/15 20:35	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/14/15 20:35	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/15 20:35	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/15 20:35	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.78*	*1*	*1.00*	*78 %*	*45-151*	*5J08017*	*EPA 8082A*	*10/14/15 20:35*	*MWC*	
Decachlorobiphenyl	*0.89*	*1*	*1.00*	*89 %*	*42-159*	*5J08017*	*EPA 8082A*	*10/14/15 20:35*	*MWC*	

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Description: 4103-II9
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-02
Sampled: 10/07/15 08:15
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/13/15 11:39	BAM	

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Description: 4103-II9 | **Lab Sample ID:** C512885-02 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/07/15 08:15 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/14/15 11:28	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	10/13/15 14:50	JDH	
Barium [7440-39-3] ^	**110**		ug/L	1	1.00	10.0	100	EPA 6010C	10/13/15 14:50	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/13/15 14:50	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/13/15 14:50	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	10/13/15 14:50	JDH	
Cobalt [7440-48-4] ^	**6.64**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/13/15 14:50	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/13/15 14:50	JDH	
Lead [7439-92-1] ^	**4.51**	J	ug/L	1	3.10	10.0	10	EPA 6010C	10/13/15 14:50	JDH	
Nickel [7440-02-0] ^	**2.53**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/13/15 14:50	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/14/15 11:28	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/13/15 14:50	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/14/15 11:28	VLO	
Tin [7440-31-5] ^	2.40	U	ug/L	1	2.40	10.0	100	EPA 6010C	10/13/15 14:50	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	10/13/15 14:50	JDH	
Zinc [7440-66-6] ^	**20.2**		ug/L	1	3.80	10.0	10	EPA 6010C	10/13/15 14:50	JDH	

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Description: 4103-II9
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-02
Sampled: 10/07/15 08:15
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/15/15 10:43	JLJ	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/10/15 16:30	JOC	

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Description: 4103-II9
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-02
Sampled: 10/07/15 08:15
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50		EPA 8151A	10/13/15 17:38	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/13/15 17:38	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/13/15 17:38	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/13/15 17:38	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/13/15 17:38	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.9*	*1*	*2.02*	*92 %*	*48-151*	*5J12002*	*EPA 8151A*	*10/13/15 17:38*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-SMW3 | **Lab Sample ID:** C512885-03 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/07/15 10:20 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/14/15 07:39	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/14/15 07:39	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/14/15 07:39	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/14/15 07:39	REF	
1,1-Dichloroethane [75-34-3] ^	**3.7**	J	ug/L	1	0.13	1.0	5	EPA 8260B	10/14/15 07:39	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/14/15 07:39	REF	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/14/15 07:39	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/14/15 07:39	REF	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/14/15 07:39	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/14/15 07:39	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/14/15 07:39	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/14/15 07:39	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/14/15 07:39	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/14/15 07:39	REF	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/14/15 07:39	REF	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/14/15 07:39	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/14/15 07:39	REF	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/14/15 07:39	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/14/15 07:39	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/14/15 07:39	REF	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/14/15 07:39	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/14/15 07:39	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/14/15 07:39	REF	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/14/15 07:39	REF	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/14/15 07:39	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/14/15 07:39	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/15 07:39	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/14/15 07:39	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/15 07:39	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/14/15 07:39	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/14/15 07:39	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/14/15 07:39	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/15 07:39	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/14/15 07:39	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/14/15 07:39	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/14/15 07:39	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/14/15 07:39	REF	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/14/15 07:39	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**7.6**		ug/L	1	0.15	1.0	5	EPA 8260B	10/14/15 07:39	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/14/15 07:39	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/14/15 07:39	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/14/15 07:39	REF	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/14/15 07:39	REF	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/14/15 07:39	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/14/15 07:39	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/14/15 07:39	REF	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/14/15 07:39	REF	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/14/15 07:39	REF	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/14/15 07:39	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/14/15 07:39	REF	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/14/15 07:39	REF	

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Description: 4103-SMW3 | **Lab Sample ID:** C512885-03 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/07/15 10:20 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/14/15 07:39	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/14/15 07:39	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/15 07:39	REF	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	10/14/15 07:39	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/14/15 07:39	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/14/15 07:39	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/15 07:39	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/14/15 07:39	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/15 07:39	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/14/15 07:39	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/14/15 07:39	REF	
Vinyl chloride [75-01-4] ^	**0.72**	J	ug/L	1	0.32	1.0	1	EPA 8260B	10/14/15 07:39	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/14/15 07:39	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*97 %*	*53-136*	*5J13019*	*EPA 8260B*	*10/14/15 07:39*	*REF*	
Dibromofluoromethane	*54*	*1*	*50.0*	*109 %*	*67-129*	*5J13019*	*EPA 8260B*	*10/14/15 07:39*	*REF*	
Toluene-d8	*50*	*1*	*50.0*	*99 %*	*59-134*	*5J13019*	*EPA 8260B*	*10/14/15 07:39*	*REF*	

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Description: 4103-SMW3 | **Lab Sample ID:** C512885-03 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/07/15 10:20 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 03:31	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/16/15 03:31	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/16/15 03:31	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/16/15 03:31	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/16/15 03:31	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/16/15 03:31	DFM	QV-02
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 03:31	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 03:31	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 03:31	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 03:31	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:31	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/16/15 03:31	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/16/15 03:31	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 03:31	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 03:31	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/16/15 03:31	DFM	QV-01
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 03:31	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 03:31	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/16/15 03:31	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 03:31	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 03:31	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/16/15 03:31	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/16/15 03:31	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 03:31	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 03:31	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/16/15 03:31	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/16/15 03:31	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:31	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/16/15 03:31	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/16/15 03:31	DFM	QV-02
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 03:31	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/16/15 03:31	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/16/15 03:31	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 03:31	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/16/15 03:31	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/16/15 03:31	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/16/15 03:31	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 03:31	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 03:31	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 03:31	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:31	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 03:31	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:31	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:31	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 03:31	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/16/15 03:31	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:31	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/16/15 03:31	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 03:31	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 03:31	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:31	DFM	

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Description: 4103-SMW3 | **Lab Sample ID:** C512885-03 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/07/15 10:20 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/16/15 03:31	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 03:31	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 03:31	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 03:31	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 03:31	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/16/15 03:31	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 03:31	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 03:31	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/16/15 03:31	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 03:31	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 03:31	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/16/15 03:31	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 03:31	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/16/15 03:31	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/16/15 03:31	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 03:31	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 03:31	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 03:31	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 03:31	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:31	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 03:31	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 03:31	DFM	QV-01
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/16/15 03:31	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/16/15 03:31	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:31	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:31	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/16/15 03:31	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/16/15 03:31	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 03:31	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/16/15 03:31	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 03:31	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/16/15 03:31	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:31	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 03:31	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 03:31	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 03:31	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/16/15 03:31	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/16/15 03:31	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:31	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:31	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 03:31	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 03:31	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 03:31	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 03:31	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/16/15 03:31	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/16/15 03:31	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 03:31	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 03:31	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 03:31	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 03:31	DFM	

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Description: 4103-SMW3 | **Lab Sample ID:** C512885-03 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/07/15 10:20 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 03:31	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 03:31	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/16/15 03:31	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*90*	*1*	*100*	*90 %*	*10-179*	*5J12029*	*EPA 8270D*	*10/16/15 03:31*	*DFM*	
2-Fluorobiphenyl	*44*	*1*	*50.0*	*87 %*	*10-149*	*5J12029*	*EPA 8270D*	*10/16/15 03:31*	*DFM*	
2-Fluorophenol	*65*	*1*	*100*	*65 %*	*10-110*	*5J12029*	*EPA 8270D*	*10/16/15 03:31*	*DFM*	
Nitrobenzene-d5	*43*	*1*	*50.0*	*86 %*	*10-149*	*5J12029*	*EPA 8270D*	*10/16/15 03:31*	*DFM*	
Phenol-d5	*58*	*1*	*100*	*58 %*	*10-88*	*5J12029*	*EPA 8270D*	*10/16/15 03:31*	*DFM*	
Terphenyl-d14	*57*	*1*	*50.0*	*114 %*	*10-188*	*5J12029*	*EPA 8270D*	*10/16/15 03:31*	*DFM*	

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Description: 4103-SMW3 | **Lab Sample ID:** C512885-03 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/07/15 10:20 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	10/14/15 20:48	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	10/14/15 20:48	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	10/14/15 20:48	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	10/14/15 20:48	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/15 20:48	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/15 20:48	MWC	QV-01
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	10/14/15 20:48	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	10/14/15 20:48	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	10/14/15 20:48	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	10/14/15 20:48	MWC	QV-01
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	10/14/15 20:48	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	10/14/15 20:48	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	10/14/15 20:48	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	10/14/15 20:48	MWC	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	10/14/15 20:48	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	10/14/15 20:48	MWC	QV-01
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	10/14/15 20:48	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	10/14/15 20:48	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	10/14/15 20:48	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	10/14/15 20:48	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	10/14/15 20:48	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.78*	*1*	*1.00*	*78 %*	*44-134*	*5J08015*	*EPA 8081B*	*10/14/15 20:48*	*MWC*	
Decachlorobiphenyl	*0.85*	*1*	*1.00*	*85 %*	*37-149*	*5J08015*	*EPA 8081B*	*10/14/15 20:48*	*MWC*	

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Description: 4103-SMW3 | **Lab Sample ID:** C512885-03 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/07/15 10:20 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/14/15 20:48	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/15 20:48	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/15 20:48	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/14/15 20:48	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/15 20:48	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/15 20:48	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.78*	*1*	*1.00*	*78 %*	*45-151*	*5J08017*	*EPA 8082A*	*10/14/15 20:48*	*MWC*	
Decachlorobiphenyl	*0.85*	*1*	*1.00*	*85 %*	*42-159*	*5J08017*	*EPA 8082A*	*10/14/15 20:48*	*MWC*	

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Description: 4103-SMW3
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-03
Sampled: 10/07/15 10:20
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/13/15 12:47	BAM	

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Description: 4103-SMW3 | **Lab Sample ID:** C512885-03 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/07/15 10:20 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/14/15 11:43	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	10/13/15 14:52	JDH	
Barium [7440-39-3] ^	**145**		ug/L	1	1.00	10.0	100	EPA 6010C	10/13/15 14:52	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/13/15 14:52	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/13/15 14:52	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	10/13/15 14:52	JDH	
Cobalt [7440-48-4] ^	**2.01**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/13/15 14:52	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/13/15 14:52	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	10/13/15 14:52	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	10/13/15 14:52	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/14/15 11:43	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/13/15 14:52	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/14/15 11:43	VLO	
Tin [7440-31-5] ^	2.40	U	ug/L	1	2.40	10.0	100	EPA 6010C	10/13/15 14:52	JDH	
Vanadium [7440-62-2] ^	**3.74**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/13/15 14:52	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	10/13/15 14:52	JDH	

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Description: 4103-SMW3
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-03
Sampled: 10/07/15 10:20
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/15/15 10:45	JLJ	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/10/15 16:30	JOC	

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Description: 4103-SMW3
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-03
Sampled: 10/07/15 10:20
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50		EPA 8151A	10/13/15 18:04	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/13/15 18:04	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/13/15 18:04	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/13/15 18:04	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/13/15 18:04	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.5*	*1*	*2.00*	*75 %*	*48-151*	*5J12002*	*EPA 8151A*	*10/13/15 18:04*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-II7 | **Lab Sample ID:** C512885-04 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 12:45 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/13/15 19:39	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/13/15 19:39	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/13/15 19:39	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/15 19:39	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/13/15 19:39	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/15 19:39	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/15 19:39	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/15 19:39	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/15 19:39	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/13/15 19:39	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/13/15 19:39	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/13/15 19:39	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/13/15 19:39	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/13/15 19:39	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/15 19:39	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/13/15 19:39	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/13/15 19:39	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/13/15 19:39	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/13/15 19:39	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/13/15 19:39	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/15 19:39	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/13/15 19:39	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/13/15 19:39	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/13/15 19:39	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/13/15 19:39	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/13/15 19:39	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/15 19:39	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/13/15 19:39	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/15 19:39	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/13/15 19:39	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/15 19:39	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/13/15 19:39	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/15 19:39	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/15 19:39	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/13/15 19:39	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/13/15 19:39	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/15 19:39	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/13/15 19:39	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/15 19:39	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/13/15 19:39	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/15 19:39	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/13/15 19:39	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/13/15 19:39	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/13/15 19:39	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/15 19:39	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/13/15 19:39	MSZ	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/13/15 19:39	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/13/15 19:39	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/13/15 19:39	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/15 19:39	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/15 19:39	MSZ	

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Description: 4103-II7 | **Lab Sample ID:** C512885-04 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 12:45 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/13/15 19:39	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/13/15 19:39	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/15 19:39	MSZ	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	10/13/15 19:39	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/15 19:39	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/15 19:39	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/15 19:39	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/13/15 19:39	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/15 19:39	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/13/15 19:39	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/13/15 19:39	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/13/15 19:39	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/13/15 19:39	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*53*	*1*	*50.0*	*106 %*	*53-136*	*5J12032*	*EPA 8260B*	*10/13/15 19:39*	*MSZ*	
Dibromofluoromethane	*51*	*1*	*50.0*	*101 %*	*67-129*	*5J12032*	*EPA 8260B*	*10/13/15 19:39*	*MSZ*	
Toluene-d8	*52*	*1*	*50.0*	*105 %*	*59-134*	*5J12032*	*EPA 8260B*	*10/13/15 19:39*	*MSZ*	

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Description: 4103-II7 | **Lab Sample ID:** C512885-04 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 12:45 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 04:02	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/16/15 04:02	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/16/15 04:02	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/16/15 04:02	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/16/15 04:02	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/16/15 04:02	DFM	QV-02
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 04:02	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 04:02	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 04:02	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 04:02	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:02	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/16/15 04:02	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/16/15 04:02	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 04:02	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 04:02	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/16/15 04:02	DFM	QV-01
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 04:02	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 04:02	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/16/15 04:02	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 04:02	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 04:02	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/16/15 04:02	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/16/15 04:02	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 04:02	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 04:02	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/16/15 04:02	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/16/15 04:02	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:02	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/16/15 04:02	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/16/15 04:02	DFM	QV-02
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 04:02	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/16/15 04:02	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/16/15 04:02	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 04:02	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/16/15 04:02	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/16/15 04:02	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/16/15 04:02	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 04:02	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 04:02	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 04:02	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:02	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 04:02	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:02	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:02	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 04:02	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/16/15 04:02	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:02	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/16/15 04:02	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 04:02	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 04:02	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:02	DFM	

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Description: 4103-II7 | **Lab Sample ID:** C512885-04 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 12:45 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/16/15 04:02	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 04:02	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 04:02	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 04:02	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 04:02	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/16/15 04:02	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 04:02	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 04:02	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/16/15 04:02	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 04:02	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 04:02	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/16/15 04:02	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 04:02	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/16/15 04:02	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/16/15 04:02	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 04:02	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 04:02	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 04:02	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 04:02	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:02	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 04:02	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 04:02	DFM	QV-01
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/16/15 04:02	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/16/15 04:02	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:02	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:02	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/16/15 04:02	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/16/15 04:02	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 04:02	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/16/15 04:02	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 04:02	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/16/15 04:02	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:02	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 04:02	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 04:02	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 04:02	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/16/15 04:02	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/16/15 04:02	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:02	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:02	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 04:02	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 04:02	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 04:02	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:02	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/16/15 04:02	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/16/15 04:02	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 04:02	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 04:02	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 04:02	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 04:02	DFM	

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Description: 4103-II7
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-04
Sampled: 10/06/15 12:45
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 04:02	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 04:02	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/16/15 04:02	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*87*	*1*	*100*	*87 %*	*10-179*	*5J12029*	*EPA 8270D*	*10/16/15 04:02*	*DFM*	
2-Fluorobiphenyl	*47*	*1*	*50.0*	*95 %*	*10-149*	*5J12029*	*EPA 8270D*	*10/16/15 04:02*	*DFM*	
2-Fluorophenol	*64*	*1*	*100*	*64 %*	*10-110*	*5J12029*	*EPA 8270D*	*10/16/15 04:02*	*DFM*	
Nitrobenzene-d5	*44*	*1*	*50.0*	*87 %*	*10-149*	*5J12029*	*EPA 8270D*	*10/16/15 04:02*	*DFM*	
Phenol-d5	*53*	*1*	*100*	*53 %*	*10-88*	*5J12029*	*EPA 8270D*	*10/16/15 04:02*	*DFM*	
Terphenyl-d14	*53*	*1*	*50.0*	*106 %*	*10-188*	*5J12029*	*EPA 8270D*	*10/16/15 04:02*	*DFM*	

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Description: 4103-II7 | **Lab Sample ID:** C512885-04 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 12:45 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	10/14/15 21:02	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	10/14/15 21:02	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	10/14/15 21:02	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	10/14/15 21:02	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/15 21:02	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/15 21:02	MWC	QV-01
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	10/14/15 21:02	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	10/14/15 21:02	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	10/14/15 21:02	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	10/14/15 21:02	MWC	QV-01
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	10/14/15 21:02	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	10/14/15 21:02	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	10/14/15 21:02	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	10/14/15 21:02	MWC	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	10/14/15 21:02	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	10/14/15 21:02	MWC	QV-01
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	10/14/15 21:02	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	10/14/15 21:02	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	10/14/15 21:02	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	10/14/15 21:02	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	10/14/15 21:02	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.29*	*1*	*1.00*	*29 %*	*44-134*	*5J08015*	*EPA 8081B*	*10/14/15 21:02*	*MWC*	*QS-06*
Decachlorobiphenyl	*0.78*	*1*	*1.00*	*78 %*	*37-149*	*5J08015*	*EPA 8081B*	*10/14/15 21:02*	*MWC*	

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Description: 4103-II7
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-04
Sampled: 10/06/15 12:45
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/14/15 21:02	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/15 21:02	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/15 21:02	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/14/15 21:02	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/15 21:02	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/15 21:02	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.29*	*1*	*1.00*	*29 %*	*45-151*	*5J08017*	*EPA 8082A*	*10/14/15 21:02*	*MWC*	*QS-03*
Decachlorobiphenyl	*0.78*	*1*	*1.00*	*78 %*	*42-159*	*5J08017*	*EPA 8082A*	*10/14/15 21:02*	*MWC*	

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Description: 4103-II7
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-04
Sampled: 10/06/15 12:45
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**0.170**	J	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/13/15 13:26	BAM	

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Description: 4103-II7 | **Lab Sample ID:** C512885-04 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 12:45 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/14/15 11:47	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	10/13/15 14:55	JDH	
Barium [7440-39-3] ^	**87.0**	J	ug/L	1	1.00	10.0	100	EPA 6010C	10/13/15 14:55	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/13/15 14:55	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/13/15 14:55	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	10/13/15 14:55	JDH	
Cobalt [7440-48-4] ^	**3.51**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/13/15 14:55	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/13/15 14:55	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	10/13/15 14:55	JDH	
Nickel [7440-02-0] ^	**4.65**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/13/15 14:55	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/14/15 11:47	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/13/15 14:55	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/14/15 11:47	VLO	
Tin [7440-31-5] ^	2.40	U	ug/L	1	2.40	10.0	100	EPA 6010C	10/13/15 14:55	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	10/13/15 14:55	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	10/13/15 14:55	JDH	

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Description: 4103-II7
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-04
Sampled: 10/06/15 12:45
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/15/15 10:47	JLJ	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/10/15 11:50	JOC	

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Description: 4103-II7
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-04
Sampled: 10/06/15 12:45
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50		EPA 8151A	10/13/15 18:29	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/13/15 18:29	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/13/15 18:29	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/13/15 18:29	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/13/15 18:29	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.2*	*1*	*2.00*	*112 %*	*48-151*	*5J12002*	*EPA 8151A*	*10/13/15 18:29*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-II7B
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-05
Sampled: 10/06/15 14:30
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/13/15 20:08	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/13/15 20:08	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/13/15 20:08	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/15 20:08	MSZ	
1,1-Dichloroethane [75-34-3] ^	**0.79**	J	ug/L	1	0.13	1.0	5	EPA 8260B	10/13/15 20:08	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/15 20:08	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/15 20:08	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/15 20:08	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/15 20:08	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/13/15 20:08	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/13/15 20:08	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/13/15 20:08	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/13/15 20:08	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/13/15 20:08	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/15 20:08	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/13/15 20:08	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/13/15 20:08	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/13/15 20:08	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/13/15 20:08	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/13/15 20:08	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/15 20:08	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/13/15 20:08	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/13/15 20:08	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/13/15 20:08	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/13/15 20:08	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/13/15 20:08	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/15 20:08	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/13/15 20:08	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/15 20:08	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/13/15 20:08	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/15 20:08	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/13/15 20:08	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/15 20:08	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/15 20:08	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/13/15 20:08	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/13/15 20:08	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/15 20:08	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/13/15 20:08	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/15 20:08	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/13/15 20:08	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/15 20:08	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/13/15 20:08	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/13/15 20:08	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/13/15 20:08	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/15 20:08	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/13/15 20:08	MSZ	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/13/15 20:08	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/13/15 20:08	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/13/15 20:08	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/15 20:08	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/15 20:08	MSZ	

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Description: 4103-II7B
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-05
Sampled: 10/06/15 14:30
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/13/15 20:08	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/13/15 20:08	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/15 20:08	MSZ	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	10/13/15 20:08	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/15 20:08	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/15 20:08	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/15 20:08	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/13/15 20:08	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/15 20:08	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/13/15 20:08	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/13/15 20:08	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/13/15 20:08	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/13/15 20:08	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*53-136*	*5J12032*	*EPA 8260B*	*10/13/15 20:08*	*MSZ*	
Dibromofluoromethane	*50*	*1*	*50.0*	*101 %*	*67-129*	*5J12032*	*EPA 8260B*	*10/13/15 20:08*	*MSZ*	
Toluene-d8	*53*	*1*	*50.0*	*105 %*	*59-134*	*5J12032*	*EPA 8260B*	*10/13/15 20:08*	*MSZ*	

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Description: 4103-II7B
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-05
Sampled: 10/06/15 14:30
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 04:32	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/16/15 04:32	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/16/15 04:32	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/16/15 04:32	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/16/15 04:32	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/16/15 04:32	DFM	QV-02
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 04:32	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 04:32	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 04:32	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 04:32	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:32	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/16/15 04:32	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/16/15 04:32	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 04:32	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 04:32	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/16/15 04:32	DFM	QV-01
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 04:32	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 04:32	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/16/15 04:32	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 04:32	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 04:32	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/16/15 04:32	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/16/15 04:32	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 04:32	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 04:32	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/16/15 04:32	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/16/15 04:32	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:32	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/16/15 04:32	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/16/15 04:32	DFM	QV-02
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 04:32	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/16/15 04:32	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/16/15 04:32	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 04:32	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/16/15 04:32	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/16/15 04:32	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/16/15 04:32	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 04:32	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 04:32	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 04:32	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:32	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 04:32	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:32	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:32	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 04:32	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/16/15 04:32	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:32	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/16/15 04:32	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 04:32	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 04:32	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:32	DFM	

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Description: 4103-II7B
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-05
Sampled: 10/06/15 14:30
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/16/15 04:32	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 04:32	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 04:32	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 04:32	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 04:32	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/16/15 04:32	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 04:32	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 04:32	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/16/15 04:32	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 04:32	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 04:32	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/16/15 04:32	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 04:32	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/16/15 04:32	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/16/15 04:32	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 04:32	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 04:32	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 04:32	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 04:32	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:32	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 04:32	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 04:32	DFM	QV-01
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/16/15 04:32	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/16/15 04:32	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:32	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:32	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/16/15 04:32	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/16/15 04:32	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 04:32	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/16/15 04:32	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 04:32	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/16/15 04:32	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:32	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 04:32	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 04:32	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 04:32	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/16/15 04:32	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/16/15 04:32	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:32	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:32	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 04:32	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 04:32	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 04:32	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 04:32	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/16/15 04:32	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/16/15 04:32	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 04:32	DFM	
Phenol [108-95-2] ^	**1.8**	J	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 04:32	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 04:32	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 04:32	DFM	

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Description: 4103-II7B
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-05
Sampled: 10/06/15 14:30
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 04:32	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 04:32	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/16/15 04:32	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*67*	*1*	*100*	*67 %*	*10-179*	*5J12029*	*EPA 8270D*	*10/16/15 04:32*	*DFM*	
2-Fluorobiphenyl	*47*	*1*	*50.0*	*94 %*	*10-149*	*5J12029*	*EPA 8270D*	*10/16/15 04:32*	*DFM*	
2-Fluorophenol	*61*	*1*	*100*	*61 %*	*10-110*	*5J12029*	*EPA 8270D*	*10/16/15 04:32*	*DFM*	
Nitrobenzene-d5	*41*	*1*	*50.0*	*82 %*	*10-149*	*5J12029*	*EPA 8270D*	*10/16/15 04:32*	*DFM*	
Phenol-d5	*53*	*1*	*100*	*53 %*	*10-88*	*5J12029*	*EPA 8270D*	*10/16/15 04:32*	*DFM*	
Terphenyl-d14	*44*	*1*	*50.0*	*88 %*	*10-188*	*5J12029*	*EPA 8270D*	*10/16/15 04:32*	*DFM*	

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Description: 4103-II7B
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-05
Sampled: 10/06/15 14:30
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	10/14/15 21:15	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	10/14/15 21:15	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	10/14/15 21:15	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	10/14/15 21:15	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/15 21:15	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/15 21:15	MWC	QV-01
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	10/14/15 21:15	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	10/14/15 21:15	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	10/14/15 21:15	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	10/14/15 21:15	MWC	QV-01
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	10/14/15 21:15	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	10/14/15 21:15	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	10/14/15 21:15	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	10/14/15 21:15	MWC	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	10/14/15 21:15	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	10/14/15 21:15	MWC	QV-01
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	10/14/15 21:15	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	10/14/15 21:15	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	10/14/15 21:15	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	10/14/15 21:15	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	10/14/15 21:15	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.82*	*1*	*1.00*	*82 %*	*44-134*	*5J08015*	*EPA 8081B*	*10/14/15 21:15*	*MWC*	
Decachlorobiphenyl	*1.7*	*1*	*1.00*	*167 %*	*37-149*	*5J08015*	*EPA 8081B*	*10/14/15 21:15*	*MWC*	*QV-01*

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Description: 4103-II7B
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-05
Sampled: 10/06/15 14:30
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/14/15 21:15	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/15 21:15	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/15 21:15	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/14/15 21:15	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/15 21:15	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/15 21:15	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.82*	*1*	*1.00*	*82 %*	*45-151*	*5J08017*	*EPA 8082A*	*10/14/15 21:15*	*MWC*	
Decachlorobiphenyl	*1.7*	*1*	*1.00*	*167 %*	*42-159*	*5J08017*	*EPA 8082A*	*10/14/15 21:15*	*MWC*	*QS-06*

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Lab Sample ID: C512885-05
Sampled: 10/06/15 14:30
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Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/13/15 13:28	BAM	

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Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/14/15 11:50	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	10/13/15 15:21	JDH	
Barium [7440-39-3] ^	**13.4**	J	ug/L	1	1.00	10.0	100	EPA 6010C	10/13/15 15:21	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/13/15 15:21	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/13/15 15:21	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	10/13/15 15:21	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	10/13/15 15:21	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/13/15 15:21	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	10/13/15 15:21	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	10/13/15 15:21	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/14/15 11:50	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/13/15 15:21	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/14/15 11:50	VLO	
Tin [7440-31-5] ^	2.40	U	ug/L	1	2.40	10.0	100	EPA 6010C	10/13/15 15:21	JDH	
Vanadium [7440-62-2] ^	**2.32**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/13/15 15:21	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	10/13/15 15:21	JDH	

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Lab Sample ID: C512885-05
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Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/15/15 10:48	JLJ	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/10/15 11:50	JOC	

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Work Order: C512885

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50		EPA 8151A	10/13/15 18:54	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/13/15 18:54	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/13/15 18:54	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/13/15 18:54	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/13/15 18:54	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.7*	*1*	*2.00*	*84 %*	*48-151*	*5J12002*	*EPA 8151A*	*10/13/15 18:54*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-II8 | **Lab Sample ID:** C512885-06 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 17:40 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/14/15 15:45	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/14/15 15:45	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/14/15 15:45	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/14/15 15:45	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/14/15 15:45	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/14/15 15:45	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/14/15 15:45	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/14/15 15:45	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/14/15 15:45	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/14/15 15:45	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/14/15 15:45	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/14/15 15:45	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/14/15 15:45	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/14/15 15:45	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/14/15 15:45	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/14/15 15:45	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/14/15 15:45	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/14/15 15:45	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/14/15 15:45	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/14/15 15:45	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/14/15 15:45	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/14/15 15:45	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/14/15 15:45	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/14/15 15:45	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/14/15 15:45	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/14/15 15:45	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/15 15:45	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/14/15 15:45	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/15 15:45	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/14/15 15:45	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/14/15 15:45	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/14/15 15:45	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/15 15:45	MSZ	
Chlorobenzene [108-90-7] ^	**1.9**	J	ug/L	1	0.17	1.0	3	EPA 8260B	10/14/15 15:45	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/14/15 15:45	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/14/15 15:45	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/14/15 15:45	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/14/15 15:45	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/14/15 15:45	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/14/15 15:45	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/14/15 15:45	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/14/15 15:45	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/14/15 15:45	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/14/15 15:45	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/14/15 15:45	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/14/15 15:45	MSZ	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/14/15 15:45	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/14/15 15:45	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/14/15 15:45	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/14/15 15:45	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/14/15 15:45	MSZ	

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Description: 4103-II8 | **Lab Sample ID:** C512885-06 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 17:40 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/14/15 15:45	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/14/15 15:45	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/15 15:45	MSZ	
Tetrahydrofuran [109-99-9] ^	**9.8**		ug/L	1	0.80	1.0		EPA 8260B	10/14/15 15:45	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/14/15 15:45	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/14/15 15:45	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/15 15:45	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/14/15 15:45	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/15 15:45	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/14/15 15:45	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/14/15 15:45	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/14/15 15:45	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/14/15 15:45	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*100 %*	*53-136*	*5J14027*	*EPA 8260B*	*10/14/15 15:45*	*MSZ*	
Dibromofluoromethane	*49*	*1*	*50.0*	*97 %*	*67-129*	*5J14027*	*EPA 8260B*	*10/14/15 15:45*	*MSZ*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*59-134*	*5J14027*	*EPA 8260B*	*10/14/15 15:45*	*MSZ*	

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Description: 4103-II8 | **Lab Sample ID:** C512885-06 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 17:40 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 05:03	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/16/15 05:03	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/16/15 05:03	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/16/15 05:03	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/16/15 05:03	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/16/15 05:03	DFM	QV-02
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 05:03	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 05:03	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 05:03	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 05:03	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 05:03	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/16/15 05:03	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/16/15 05:03	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 05:03	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 05:03	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/16/15 05:03	DFM	QV-01
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 05:03	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 05:03	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/16/15 05:03	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 05:03	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 05:03	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/16/15 05:03	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/16/15 05:03	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 05:03	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 05:03	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/16/15 05:03	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/16/15 05:03	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 05:03	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/16/15 05:03	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/16/15 05:03	DFM	QV-02
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 05:03	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/16/15 05:03	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/16/15 05:03	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 05:03	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/16/15 05:03	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/16/15 05:03	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/16/15 05:03	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 05:03	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 05:03	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 05:03	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 05:03	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/16/15 05:03	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 05:03	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 05:03	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 05:03	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/16/15 05:03	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 05:03	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/16/15 05:03	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 05:03	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 05:03	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 05:03	DFM	

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Description: 4103-II8 | **Lab Sample ID:** C512885-06 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 17:40 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/16/15 05:03	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 05:03	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 05:03	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/16/15 05:03	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 05:03	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/16/15 05:03	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 05:03	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 05:03	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/16/15 05:03	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 05:03	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 05:03	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/16/15 05:03	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 05:03	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/16/15 05:03	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/16/15 05:03	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 05:03	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 05:03	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 05:03	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 05:03	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 05:03	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 05:03	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 05:03	DFM	QV-01
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/16/15 05:03	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/16/15 05:03	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 05:03	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 05:03	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/16/15 05:03	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/16/15 05:03	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 05:03	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/16/15 05:03	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 05:03	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/16/15 05:03	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 05:03	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 05:03	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/16/15 05:03	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 05:03	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/16/15 05:03	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/16/15 05:03	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 05:03	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 05:03	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/16/15 05:03	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/16/15 05:03	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 05:03	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/16/15 05:03	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/16/15 05:03	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/16/15 05:03	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 05:03	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 05:03	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/16/15 05:03	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/16/15 05:03	DFM	

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Description: 4103-II8 | **Lab Sample ID:** C512885-06 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 17:40 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/16/15 05:03	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/16/15 05:03	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/16/15 05:03	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*91*	*1*	*100*	*91 %*	*10-179*	*5J12029*	*EPA 8270D*	*10/16/15 05:03*	*DFM*	
2-Fluorobiphenyl	*45*	*1*	*50.0*	*91 %*	*10-149*	*5J12029*	*EPA 8270D*	*10/16/15 05:03*	*DFM*	
2-Fluorophenol	*63*	*1*	*100*	*63 %*	*10-110*	*5J12029*	*EPA 8270D*	*10/16/15 05:03*	*DFM*	
Nitrobenzene-d5	*41*	*1*	*50.0*	*82 %*	*10-149*	*5J12029*	*EPA 8270D*	*10/16/15 05:03*	*DFM*	
Phenol-d5	*55*	*1*	*100*	*55 %*	*10-88*	*5J12029*	*EPA 8270D*	*10/16/15 05:03*	*DFM*	
Terphenyl-d14	*53*	*1*	*50.0*	*105 %*	*10-188*	*5J12029*	*EPA 8270D*	*10/16/15 05:03*	*DFM*	

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Description: 4103-II8 | **Lab Sample ID:** C512885-06 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 17:40 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	10/14/15 21:28	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	10/14/15 21:28	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	10/14/15 21:28	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	10/14/15 21:28	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/15 21:28	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/15 21:28	MWC	QV-01
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	10/14/15 21:28	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	10/14/15 21:28	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	10/14/15 21:28	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	10/14/15 21:28	MWC	QV-01
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	10/14/15 21:28	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	10/14/15 21:28	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	10/14/15 21:28	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	10/14/15 21:28	MWC	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	10/14/15 21:28	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	10/14/15 21:28	MWC	QV-01
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	10/14/15 21:28	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	10/14/15 21:28	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	10/14/15 21:28	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	10/14/15 21:28	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	10/14/15 21:28	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.44*	*1*	*1.00*	*44 %*	*44-134*	*5J08015*	*EPA 8081B*	*10/14/15 21:28*	*MWC*	
Decachlorobiphenyl	*1.5*	*1*	*1.00*	*150 %*	*37-149*	*5J08015*	*EPA 8081B*	*10/14/15 21:28*	*MWC*	*QS-06*

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Description: 4103-II8
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-06
Sampled: 10/06/15 17:40
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/14/15 21:28	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/15 21:28	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/15 21:28	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/14/15 21:28	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/15 21:28	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/15 21:28	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.44*	*1*	*1.00*	*44 %*	*45-151*	*5J08017*	*EPA 8082A*	*10/14/15 21:28*	*MWC*	*QS-03*
Decachlorobiphenyl	*1.5*	*1*	*1.00*	*150 %*	*42-159*	*5J08017*	*EPA 8082A*	*10/14/15 21:28*	*MWC*	

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Description:	4103-II8	**Lab Sample ID:**	C512885-06	**Received:**	10/07/15 13:15
Matrix:	Ground Water	**Sampled:**	10/06/15 17:40	**Work Order:**	C512885
Project:	White Street Landfill App IIs	**Sampled By:**	Bradley Keyse		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/13/15 13:30	BAM	

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Description: 4103-II8 | **Lab Sample ID:** C512885-06 | **Received:** 10/07/15 13:15

Matrix: Ground Water | **Sampled:** 10/06/15 17:40 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** Bradley Keyse

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/14/15 11:54	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	10/13/15 15:24	JDH	
Barium [7440-39-3] ^	**150**		ug/L	1	1.00	10.0	100	EPA 6010C	10/13/15 15:24	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/13/15 15:24	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/13/15 15:24	JDH	
Chromium [7440-47-3] ^	**2.10**	J	ug/L	1	1.40	10.0	10	EPA 6010C	10/13/15 15:24	JDH	
Cobalt [7440-48-4] ^	**1.75**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/13/15 15:24	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/13/15 15:24	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	10/13/15 15:24	JDH	
Nickel [7440-02-0] ^	**44.4**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/13/15 15:24	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/14/15 11:54	VLO	
Silver [7440-22-4] ^	**5.84**	J	ug/L	1	1.90	10.0	10	EPA 6010C	10/13/15 15:24	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/14/15 11:54	VLO	
Tin [7440-31-5] ^	2.40	U	ug/L	1	2.40	10.0	100	EPA 6010C	10/13/15 15:24	JDH	
Vanadium [7440-62-2] ^	**1.92**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/13/15 15:24	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	10/13/15 15:24	JDH	

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Description: 4103-II8
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-06
Sampled: 10/06/15 17:40
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/15/15 10:50	JLJ	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/10/15 11:50	JOC	

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Description: 4103-II8
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C512885-06
Sampled: 10/06/15 17:40
Sampled By: Bradley Keyse

Received: 10/07/15 13:15
Work Order: C512885

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50		EPA 8151A	10/13/15 19:20	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/13/15 19:20	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/13/15 19:20	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/13/15 19:20	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/13/15 19:20	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.0*	*1*	*2.00*	*100 %*	*48-151*	*5J12002*	*EPA 8151A*	*10/13/15 19:20*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-Trip Blank #1 | **Lab Sample ID:** C512885-07 | **Received:** 10/07/15 13:15

Matrix: Water | **Sampled:** 10/06/15 07:00 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/14/15 20:38	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/14/15 20:38	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/14/15 20:38	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/14/15 20:38	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/14/15 20:38	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/14/15 20:38	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/14/15 20:38	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/14/15 20:38	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/14/15 20:38	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/14/15 20:38	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/14/15 20:38	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/14/15 20:38	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/14/15 20:38	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/14/15 20:38	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/14/15 20:38	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/14/15 20:38	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/14/15 20:38	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/14/15 20:38	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/14/15 20:38	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/14/15 20:38	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/14/15 20:38	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/14/15 20:38	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/14/15 20:38	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/14/15 20:38	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/14/15 20:38	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/14/15 20:38	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/15 20:38	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/14/15 20:38	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/15 20:38	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/14/15 20:38	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/14/15 20:38	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/14/15 20:38	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/15 20:38	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/14/15 20:38	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/14/15 20:38	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/14/15 20:38	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/14/15 20:38	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/14/15 20:38	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/14/15 20:38	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/14/15 20:38	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/14/15 20:38	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/14/15 20:38	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/14/15 20:38	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/14/15 20:38	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/14/15 20:38	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/14/15 20:38	MSZ	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/14/15 20:38	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/14/15 20:38	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/14/15 20:38	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/14/15 20:38	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/14/15 20:38	MSZ	

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Description: 4103-Trip Blank #1 | **Lab Sample ID:** C512885-07 | **Received:** 10/07/15 13:15

Matrix: Water | **Sampled:** 10/06/15 07:00 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/14/15 20:38	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/14/15 20:38	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/15 20:38	MSZ	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	10/14/15 20:38	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/14/15 20:38	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/14/15 20:38	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/15 20:38	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/14/15 20:38	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/15 20:38	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/14/15 20:38	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/14/15 20:38	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/14/15 20:38	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/14/15 20:38	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*101 %*	*53-136*	*5J14027*	*EPA 8260B*	*10/14/15 20:38*	*MSZ*	
Dibromofluoromethane	*48*	*1*	*50.0*	*97 %*	*67-129*	*5J14027*	*EPA 8260B*	*10/14/15 20:38*	*MSZ*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*59-134*	*5J14027*	*EPA 8260B*	*10/14/15 20:38*	*MSZ*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-Trip Blank #2 | **Lab Sample ID:** C512885-08 | **Received:** 10/07/15 13:15

Matrix: Water | **Sampled:** 10/06/15 07:00 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/16/15 13:20	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/16/15 13:20	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/16/15 13:20	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/16/15 13:20	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/16/15 13:20	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/16/15 13:20	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/16/15 13:20	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/16/15 13:20	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/16/15 13:20	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/16/15 13:20	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/16/15 13:20	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/16/15 13:20	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/16/15 13:20	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/16/15 13:20	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/16/15 13:20	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/16/15 13:20	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/16/15 13:20	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/16/15 13:20	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/16/15 13:20	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/16/15 13:20	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/16/15 13:20	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/16/15 13:20	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/16/15 13:20	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/16/15 13:20	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/16/15 13:20	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/16/15 13:20	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/16/15 13:20	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/16/15 13:20	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/16/15 13:20	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/16/15 13:20	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/16/15 13:20	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/16/15 13:20	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/16/15 13:20	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/16/15 13:20	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/16/15 13:20	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/16/15 13:20	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/16/15 13:20	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/16/15 13:20	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/16/15 13:20	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/16/15 13:20	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/16/15 13:20	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/16/15 13:20	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/16/15 13:20	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/16/15 13:20	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/16/15 13:20	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/16/15 13:20	MSZ	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/16/15 13:20	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/16/15 13:20	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/16/15 13:20	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/16/15 13:20	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/16/15 13:20	MSZ	

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Description: 4103-Trip Blank #2 | **Lab Sample ID:** C512885-08 | **Received:** 10/07/15 13:15

Matrix: Water | **Sampled:** 10/06/15 07:00 | **Work Order:** C512885

Project: White Street Landfill App IIs | **Sampled By:** ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/16/15 13:20	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/16/15 13:20	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/16/15 13:20	MSZ	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	10/16/15 13:20	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/16/15 13:20	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/16/15 13:20	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/16/15 13:20	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/16/15 13:20	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/16/15 13:20	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/16/15 13:20	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/16/15 13:20	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/16/15 13:20	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/16/15 13:20	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*99 %*	*53-136*	*5J16014*	*EPA 8260B*	*10/16/15 13:20*	*MSZ*	
Dibromofluoromethane	*62*	*1*	*50.0*	*124 %*	*67-129*	*5J16014*	*EPA 8260B*	*10/16/15 13:20*	*MSZ*	
Toluene-d8	*53*	*1*	*50.0*	*106 %*	*59-134*	*5J16014*	*EPA 8260B*	*10/16/15 13:20*	*MSZ*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5J12032 - EPA 5030B_MS

Blank (5J12032-BLK1) Prepared: 10/12/2015 15:41 Analyzed: 10/13/2015 13:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5J12032 - EPA 5030B_MS

Blank (5J12032-BLK1) Continued Prepared: 10/12/2015 15:41 Analyzed: 10/13/2015 13:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Tetrahydrofuran	0.80	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*106*	*53-136*			
Surrogate: Dibromofluoromethane	*48*			*ug/L*	*50.0*		*97*	*67-129*			
Surrogate: Toluene-d8	*52*			*ug/L*	*50.0*		*105*	*59-134*			

LCS (5J12032-BS1) Prepared: 10/12/2015 15:41 Analyzed: 10/13/2015 11:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0		86	75-133			
Benzene	17		1.0	ug/L	20.0		87	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		94	83-117			
Toluene	18		1.0	ug/L	20.0		91	71-118			
Trichloroethene	19		1.0	ug/L	20.0		96	74-119			

Matrix Spike (5J12032-MS1) Prepared: 10/12/2015 15:41 Analyzed: 10/13/2015 12:20

Source: C513226-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0	0.21 U	84	75-133			
Benzene	17		1.0	ug/L	20.0	0.15 U	84	81-134			
Chlorobenzene	17		1.0	ug/L	20.0	0.17 U	86	83-117			
Toluene	17		1.0	ug/L	20.0	0.14 U	86	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	97	74-119			

Matrix Spike Dup (5J12032-MSD1) Prepared: 10/12/2015 15:41 Analyzed: 10/13/2015 12:49

Source: C513226-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	15		1.0	ug/L	20.0	0.21 U	77	75-133	8	20	
Benzene	17		1.0	ug/L	20.0	0.15 U	83	81-134	2	17	
Chlorobenzene	17		1.0	ug/L	20.0	0.17 U	87	83-117	1	16	
Toluene	17		1.0	ug/L	20.0	0.14 U	84	71-118	3	17	
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	97	74-119	0.5	22	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5J12032 - EPA 5030B_MS

Batch 5J13019 - EPA 5030B_MS

Blank (5J13019-BLK1) Prepared: 10/13/2015 12:41 Analyzed: 10/13/2015 23:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5J13019 - EPA 5030B_MS

Blank (5J13019-BLK1) Continued Prepared: 10/13/2015 12:41 Analyzed: 10/13/2015 23:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Tetrahydrofuran	0.80	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*97*	*53-136*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*105*	*67-129*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*99*	*59-134*			

LCS (5J13019-BS1) Prepared: 10/13/2015 12:41 Analyzed: 10/14/2015 00:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		107	75-133			
Benzene	21		1.0	ug/L	20.0		104	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		98	83-117			
Toluene	21		1.0	ug/L	20.0		106	71-118			
Trichloroethene	19		1.0	ug/L	20.0		94	74-119			

Matrix Spike (5J13019-MS1) Prepared: 10/13/2015 12:41 Analyzed: 10/14/2015 00:29

Source: C513226-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	108	75-133			
Benzene	21		1.0	ug/L	20.0	0.15 U	106	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	100	83-117			
Toluene	21		1.0	ug/L	20.0	0.14 U	106	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	98	74-119			

Matrix Spike Dup (5J13019-MSD1) Prepared: 10/13/2015 12:41 Analyzed: 10/14/2015 00:58

Source: C513226-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.21 U	106	75-133	2	20	
Benzene	21		1.0	ug/L	20.0	0.15 U	105	81-134	0.9	17	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5J13019 - EPA 5030B_MS

Matrix Spike Dup (5J13019-MSD1) Continued Prepared: 10/13/2015 12:41 Analyzed: 10/14/2015 00:58

Source: C513226-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	98	83-117	2	16	
Toluene	21		1.0	ug/L	20.0	0.14 U	105	71-118	0.8	17	
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	95	74-119	3	22	

Batch 5J14027 - EPA 5030B_MS

Blank (5J14027-BLK1) Prepared: 10/14/2015 13:13 Analyzed: 10/14/2015 13:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5J14027 - EPA 5030B_MS

Blank (5J14027-BLK1) Continued Prepared: 10/14/2015 13:13 Analyzed: 10/14/2015 13:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Tetrahydrofuran	0.80	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*54*			*ug/L*	*50.0*		*108*	*53-136*			
Surrogate: Dibromofluoromethane	*49*			*ug/L*	*50.0*		*98*	*67-129*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*102*	*59-134*			

LCS (5J14027-BS1) Prepared: 10/14/2015 13:13 Analyzed: 10/14/2015 13:48

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0		84	75-133			
Benzene	17		1.0	ug/L	20.0		86	81-134			
Chlorobenzene	18		1.0	ug/L	20.0		91	83-117			
Toluene	17		1.0	ug/L	20.0		85	71-118			
Trichloroethene	19		1.0	ug/L	20.0		95	74-119			

Matrix Spike (5J14027-MS1) Prepared: 10/14/2015 13:13 Analyzed: 10/14/2015 14:17

Source: C513226-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0	0.21 U	87	75-133			
Benzene	17		1.0	ug/L	20.0	0.15 U	87	81-134			
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	90	83-117			
Toluene	18		1.0	ug/L	20.0	0.14 U	89	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	95	74-119			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5J14027 - EPA 5030B_MS

Matrix Spike Dup (5J14027-MSD1) Prepared: 10/14/2015 13:13 Analyzed: 10/14/2015 14:46

Source: C513226-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0	0.21 U	85	75-133	3	20	
Benzene	17		1.0	ug/L	20.0	0.15 U	87	81-134	0.1	17	
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	92	83-117	2	16	
Toluene	17		1.0	ug/L	20.0	0.14 U	87	71-118	2	17	
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	92	74-119	3	22	

Batch 5J16014 - EPA 5030B_MS

Blank (5J16014-BLK1) Prepared: 10/16/2015 10:18 Analyzed: 10/16/2015 10:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5J16014 - EPA 5030B_MS

Blank (5J16014-BLK1) Continued Prepared: 10/16/2015 10:18 Analyzed: 10/16/2015 10:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Tetrahydrofuran	0.80	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*53-136*			
Surrogate: Dibromofluoromethane	*58*			*ug/L*	*50.0*		*117*	*67-129*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*100*	*59-134*			

LCS (5J16014-BS1) Prepared: 10/16/2015 10:18 Analyzed: 10/16/2015 11:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0		111	75-133			
Benzene	20		1.0	ug/L	20.0		102	81-134			
Chlorobenzene	18		1.0	ug/L	20.0		92	83-117			
Toluene	21		1.0	ug/L	20.0		103	71-118			
Trichloroethene	19		1.0	ug/L	20.0		93	74-119			

Matrix Spike (5J16014-MS1) Prepared: 10/16/2015 10:18 Analyzed: 10/16/2015 11:54

Source: C513339-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	109	75-133			
Benzene	21		1.0	ug/L	20.0	0.15 U	106	81-134			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5J16014 - EPA 5030B_MS

Matrix Spike (5J16014-MS1) Continued Prepared: 10/16/2015 10:18 Analyzed: 10/16/2015 11:54

Source: C513339-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	98	83-117			
Toluene	21		1.0	ug/L	20.0	0.14 U	107	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	96	74-119			

Matrix Spike Dup (5J16014-MSD1) Prepared: 10/16/2015 10:18 Analyzed: 10/16/2015 12:23

Source: C513339-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	111	75-133	1	20	
Benzene	20		1.0	ug/L	20.0	0.15 U	99	81-134	6	17	
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	88	83-117	10	16	
Toluene	19		1.0	ug/L	20.0	0.14 U	96	71-118	10	17	
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	89	74-119	7	22	

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 5J12029 - EPA 3510C_MS

Blank (5J12029-BLK1) Prepared: 10/12/2015 14:13 Analyzed: 10/15/2015 20:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4,5-Tetrachlorobenzene	2.0	U	10	ug/L							
1,3,5-Trinitrobenzene	3.0	U	10	ug/L							
1,3-Dinitrobenzene	1.9	U	10	ug/L							
1,4-Naphthoquinone	2.5	U	10	ug/L							
1,4-Phenylenediamine	4.0	U	10	ug/L							
1-Naphthylamine	1.9	U	10	ug/L							QV-02
2,3,4,6-Tetrachlorophenol	2.0	U	10	ug/L							
2,4,5-Trichlorophenol	1.0	U	10	ug/L							
2,4,6-Trichlorophenol	1.1	U	10	ug/L							
2,4-Dichlorophenol	1.4	U	10	ug/L							
2,4-Dimethylphenol	1.3	U	10	ug/L							
2,4-Dinitrophenol	2.6	U	10	ug/L							
2,4-Dinitrotoluene	2.4	U	10	ug/L							
2,6-Dichlorophenol	1.1	U	10	ug/L							
2,6-Dinitrotoluene	1.5	U	10	ug/L							
2-Acetylaminofluorene	2.5	U	10	ug/L							QV-01
2-Chloronaphthalene	1.0	U	10	ug/L							
2-Chlorophenol	1.2	U	10	ug/L							
2-Methyl-4,6-dinitrophenol	2.9	U	10	ug/L							
2-Methylnaphthalene	1.5	U	10	ug/L							
2-Methylphenol	1.4	U	10	ug/L							
2-Naphthylamine	3.0	U	10	ug/L							
2-Nitroaniline	1.5	U	10	ug/L							
2-Nitrophenol	1.1	U	10	ug/L							
3 & 4-Methylphenol	1.6	U	10	ug/L							
3,3'-Dichlorobenzidine	3.3	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 5J12029 - EPA 3510C_MS

Blank (5J12029-BLK1) Continued Prepared: 10/12/2015 14:13 Analyzed: 10/15/2015 20:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
3,3'-Dimethylbenzidine	2.2	U	10	ug/L							
3-Methylcholanthrene	1.3	U	10	ug/L							
3-Nitroaniline	2.1	U	10	ug/L							
4-Aminobiphenyl	2.1	U	10	ug/L							QV-02
4-Bromophenyl-phenylether	1.0	U	10	ug/L							
4-Chloro-3-methylphenol	1.5	U	10	ug/L							
4-Chloroaniline	1.2	U	10	ug/L							
4-Chlorophenyl-phenylether	1.6	U	10	ug/L							
4-Nitroaniline	3.2	U	10	ug/L							
4-Nitrophenol	2.0	U	10	ug/L							
5-Nitro-o-toluidine	3.2	U	10	ug/L							
7,12-Dimethylbenz(a)anthracene	1.1	U	10	ug/L							
Acenaphthene	1.4	U	10	ug/L							
Acenaphthylene	1.2	U	10	ug/L							
Acetophenone	1.3	U	10	ug/L							
Anthracene	1.6	U	10	ug/L							
Benzo(a)anthracene	1.3	U	10	ug/L							
Benzo(a)pyrene	1.3	U	10	ug/L							
Benzo(b)fluoranthene	1.0	U	10	ug/L							
Benzo(g,h,i)perylene	2.4	U	10	ug/L							
Benzo(k)fluoranthene	1.3	U	10	ug/L							
Benzyl alcohol	1.4	U	10	ug/L							
Bis(2-chloroethoxy)methane	1.4	U	10	ug/L							
Bis(2-chloroethyl)ether	1.2	U	10	ug/L							
Bis(2-chloroisopropyl)ether	1.3	U	10	ug/L							
Bis(2-ethylhexyl)phthalate	1.7	U	5.0	ug/L							
Butylbenzylphthalate	2.0	U	10	ug/L							QV-01
Chlorobenzilate	1.0	U	10	ug/L							
Chrysene	2.0	U	10	ug/L							
Diallate	1.0	U	10	ug/L							
Dibenzo(a,h)anthracene	2.3	U	10	ug/L							
Dibenzofuran	1.4	U	10	ug/L							
Diethylphthalate	2.1	U	10	ug/L							
Dimethoate	2.3	U	10	ug/L							
Dimethylphthalate	1.4	U	10	ug/L							
Di-n-butylphthalate	1.5	U	10	ug/L							
Di-n-octylphthalate	3.1	U	10	ug/L							
Disulfoton	1.1	U	10	ug/L							
Ethyl methanesulfonate	1.2	U	10	ug/L							
Famphur	2.7	U	10	ug/L							
Fluoranthene	2.1	U	10	ug/L							
Fluorene	1.7	U	10	ug/L							
Hexachlorobenzene	1.0	U	10	ug/L							
Hexachlorobutadiene	1.2	U	10	ug/L							
Hexachlorocyclopentadiene	1.3	U	10	ug/L							
Hexachloroethane	1.1	U	10	ug/L							
Hexachloropropene	1.7	U	10	ug/L							QV-01
Indeno(1,2,3-cd)pyrene	2.2	U	10	ug/L							
Isodrin	1.0	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 5J12029 - EPA 3510C_MS

Blank (5J12029-BLK1) Continued Prepared: 10/12/2015 14:13 Analyzed: 10/15/2015 20:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Isophorone	1.3	U	10	ug/L							
Isosafrole	1.3	U	10	ug/L							
Kepone	7.2	U	20	ug/L							
Methapyrilene	3.5	U	10	ug/L							QV-02
Methyl Methanesulfonate	1.0	U	10	ug/L							
Methyl parathion	2.5	U	10	ug/L							
Nitrobenzene	1.2	U	10	ug/L							
N-Nitrosodiethylamine	1.3	U	10	ug/L							
N-Nitrosodimethylamine	1.3	U	10	ug/L							
N-Nitrosodi-n-butylamine	1.2	U	10	ug/L							
N-Nitroso-di-n-propylamine	1.5	U	10	ug/L							
N-nitrosodiphenylamine/Diphenylamine	2.1	U	10	ug/L							
N-Nitrosomethylethylamine	1.9	U	10	ug/L							
N-Nitrosopiperidine	1.1	U	10	ug/L							
N-Nitrosopyrrolidine	1.3	U	10	ug/L							
O,O,O-Triethyl phosphorothioate	1.3	U	10	ug/L							
o-Toluidine	1.1	U	10	ug/L							
Parathion	1.7	U	10	ug/L							
p-Dimethylaminoazobenzene	1.4	U	10	ug/L							
Pentachlorobenzene	1.3	U	10	ug/L							
Pentachloronitrobenzene	1.0	U	10	ug/L							
Phenacetin	2.7	U	10	ug/L							
Phenanthrene	1.4	U	10	ug/L							
Phenol	1.4	U	10	ug/L							
Phorate	1.0	U	10	ug/L							
Pronamide	1.4	U	10	ug/L							
Pyrene	2.1	U	10	ug/L							
Safrole	1.2	U	10	ug/L							
Thionazin	2.3	U	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*54*			*ug/L*	*100*		*54*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*40*			*ug/L*	*50.0*		*81*	*10-149*			
Surrogate: 2-Fluorophenol	*56*			*ug/L*	*100*		*56*	*10-110*			
Surrogate: Nitrobenzene-d5	*37*			*ug/L*	*50.0*		*73*	*10-149*			
Surrogate: Phenol-d5	*47*			*ug/L*	*100*		*47*	*10-88*			
Surrogate: Terphenyl-d14	*41*			*ug/L*	*50.0*		*83*	*10-188*			

LCS (5J12029-BS1) Prepared: 10/12/2015 14:13 Analyzed: 10/15/2015 21:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	40		10	ug/L	50.0		80	40-109			
4-Chloro-3-methylphenol	35		10	ug/L	50.0		70	58-121			
4-Nitrophenol	24		10	ug/L	50.0		48	33-105			
Acenaphthene	45		10	ug/L	50.0		89	39-125			
N-Nitroso-di-n-propylamine	39		10	ug/L	50.0		79	48-126			
Phenol	26		10	ug/L	50.0		52	19-78			
Pyrene	48		10	ug/L	50.0		96	44-137			
Surrogate: 2,4,6-Tribromophenol	*81*			*ug/L*	*100*		*81*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*49*			*ug/L*	*50.0*		*99*	*10-149*			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 5J12029 - EPA 3510C_MS

LCS (5J12029-BS1) Continued Prepared: 10/12/2015 14:13 Analyzed: 10/15/2015 21:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 2-Fluorophenol	*64*			*ug/L*	*100*		*64*	*10-110*			
Surrogate: Nitrobenzene-d5	*48*			*ug/L*	*50.0*		*96*	*10-149*			
Surrogate: Phenol-d5	*52*			*ug/L*	*100*		*52*	*10-88*			
Surrogate: Terphenyl-d14	*48*			*ug/L*	*50.0*		*96*	*10-188*			

Matrix Spike (5J12029-MS1) Prepared: 10/12/2015 14:13 Analyzed: 10/15/2015 21:53

Source: C512871-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	42		10	ug/L	50.0	1.2 U	83	40-109			
4-Chloro-3-methylphenol	37		10	ug/L	50.0	1.5 U	74	58-121			
4-Nitrophenol	27		10	ug/L	50.0	2.0 U	54	33-105			
Acenaphthene	47		10	ug/L	50.0	1.4 U	94	39-125			
N-Nitroso-di-n-propylamine	42		10	ug/L	50.0	1.5 U	85	48-126			
Phenol	26		10	ug/L	50.0	1.4 U	52	19-78			
Pyrene	53		10	ug/L	50.0	2.1 U	106	44-137			
Surrogate: 2,4,6-Tribromophenol	*85*			*ug/L*	*100*		*85*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*48*			*ug/L*	*50.0*		*95*	*10-149*			
Surrogate: 2-Fluorophenol	*63*			*ug/L*	*100*		*63*	*10-110*			
Surrogate: Nitrobenzene-d5	*49*			*ug/L*	*50.0*		*97*	*10-149*			
Surrogate: Phenol-d5	*50*			*ug/L*	*100*		*50*	*10-88*			
Surrogate: Terphenyl-d14	*52*			*ug/L*	*50.0*		*104*	*10-188*			

Matrix Spike Dup (5J12029-MSD1) Prepared: 10/12/2015 14:13 Analyzed: 10/15/2015 22:24

Source: C512871-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	41		10	ug/L	50.0	1.2 U	82	40-109	1	22	
4-Chloro-3-methylphenol	40		10	ug/L	50.0	1.5 U	79	58-121	7	22	
4-Nitrophenol	29		10	ug/L	50.0	2.0 U	59	33-105	8	27	
Acenaphthene	45		10	ug/L	50.0	1.4 U	91	39-125	3	25	
N-Nitroso-di-n-propylamine	45		10	ug/L	50.0	1.5 U	91	48-126	7	23	
Phenol	26		10	ug/L	50.0	1.4 U	52	19-78	1	18	
Pyrene	55		10	ug/L	50.0	2.1 U	110	44-137	4	24	
Surrogate: 2,4,6-Tribromophenol	*92*			*ug/L*	*100*		*92*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*43*			*ug/L*	*50.0*		*87*	*10-149*			
Surrogate: 2-Fluorophenol	*59*			*ug/L*	*100*		*59*	*10-110*			
Surrogate: Nitrobenzene-d5	*46*			*ug/L*	*50.0*		*92*	*10-149*			
Surrogate: Phenol-d5	*48*			*ug/L*	*100*		*48*	*10-88*			
Surrogate: Terphenyl-d14	*55*			*ug/L*	*50.0*		*109*	*10-188*			

Organochlorine Pesticides by GC - Quality Control

Batch 5J08015 - EPA 3510C

Blank (5J08015-BLK1) Prepared: 10/08/2015 10:58 Analyzed: 10/14/2015 16:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 5J08015 - EPA 3510C

Blank (5J08015-BLK1) Continued Prepared: 10/08/2015 10:58 Analyzed: 10/14/2015 16:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.044	U	0.050	ug/L							
4,4'-DDE	0.048	U	0.050	ug/L							
4,4'-DDT	0.049	U	0.050	ug/L							
Aldrin	0.041	U	0.050	ug/L							
alpha-BHC	0.036	U	0.050	ug/L							
beta-BHC	0.036	U	0.050	ug/L							
Chlordane (tech)	0.20	U	0.50	ug/L							
Chlordane-alpha	0.048	U	0.050	ug/L							
Chlordane-gamma	0.042	U	0.050	ug/L							
delta-BHC	0.048	U	0.050	ug/L							QV-01
Dieldrin	0.045	U	0.050	ug/L							
Endosulfan I	0.045	U	0.050	ug/L							
Endosulfan II	0.036	U	0.050	ug/L							
Endosulfan sulfate	0.032	U	0.050	ug/L							
Endrin	0.041	U	0.050	ug/L							
Endrin aldehyde	0.042	U	0.050	ug/L							QV-01
gamma-BHC	0.034	U	0.050	ug/L							
Heptachlor	0.030	U	0.050	ug/L							
Heptachlor epoxide	0.037	U	0.050	ug/L							
Methoxychlor	0.025	U	0.050	ug/L							
Toxaphene	0.22	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*0.72*			*ug/L*	*1.00*		*72*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.96*			*ug/L*	*1.00*		*96*	*37-149*			

LCS (5J08015-BS1) Prepared: 10/08/2015 10:58 Analyzed: 10/14/2015 16:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.1		0.050	ug/L	1.00		106	37-139			
Dieldrin	1.2		0.050	ug/L	1.00		116	46-132			
Endrin	1.2		0.050	ug/L	1.00		116	43-133			
Surrogate: 2,4,5,6-TCMX	*0.93*			*ug/L*	*1.00*		*93*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.88*			*ug/L*	*1.00*		*88*	*37-149*			

Matrix Spike (5J08015-MS1) Prepared: 10/08/2015 10:58 Analyzed: 10/14/2015 16:37

Source: C512889-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.1		0.050	ug/L	1.00	0.049 U	106	37-139			
Dieldrin	1.2		0.050	ug/L	1.00	0.045 U	116	46-132			
Endrin	1.2		0.050	ug/L	1.00	0.041 U	116	43-133			
Surrogate: 2,4,5,6-TCMX	*0.84*			*ug/L*	*1.00*		*84*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.80*			*ug/L*	*1.00*		*80*	*37-149*			

Matrix Spike Dup (5J08015-MSD1) Prepared: 10/08/2015 10:58 Analyzed: 10/14/2015 16:51

Source: C512889-06

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 5J08015 - EPA 3510C

Matrix Spike Dup (5J08015-MSD1) Continued Prepared: 10/08/2015 10:58 Analyzed: 10/14/2015 16:51

Source: C512889-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.0		0.050	ug/L	1.00	0.049 U	103	37-139	3	26	
Dieldrin	1.2		0.050	ug/L	1.00	0.045 U	116	46-132	0.2	27	
Endrin	1.1		0.050	ug/L	1.00	0.041 U	114	43-133	1	26	
Surrogate: 2,4,5,6-TCMX	*0.85*			*ug/L*	*1.00*		*85*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.80*			*ug/L*	*1.00*		*80*	*37-149*			

Polychlorinated Biphenyls by GC - Quality Control

Batch 5J08017 - EPA 3510C

Blank (5J08017-BLK1) Prepared: 10/08/2015 11:30 Analyzed: 10/14/2015 16:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	0.43	U	0.50	ug/L							
PCB-1221	0.37	U	0.50	ug/L							
PCB-1232	0.45	U	0.50	ug/L							
PCB-1248	0.014	U	0.50	ug/L							
PCB-1254	0.37	U	0.50	ug/L							
PCB-1260	0.45	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*0.72*			*ug/L*	*1.00*		*72*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.96*			*ug/L*	*1.00*		*96*	*42-159*			

LCS (5J08017-BS1) Prepared: 10/08/2015 11:30 Analyzed: 10/14/2015 17:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	9.4		0.50	ug/L	10.0		94	66-149			
PCB-1260	10		0.50	ug/L	10.0		100	64-150			
Surrogate: 2,4,5,6-TCMX	*0.80*			*ug/L*	*1.00*		*80*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.56*			*ug/L*	*1.00*		*56*	*42-159*			

Matrix Spike (5J08017-MS1) Prepared: 10/08/2015 11:30 Analyzed: 10/14/2015 17:17

Source: C512889-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	9.5		0.50	ug/L	10.0	0.43 U	95	66-149			
PCB-1260	9.8		0.50	ug/L	10.0	0.45 U	98	64-150			
Surrogate: 2,4,5,6-TCMX	*0.76*			*ug/L*	*1.00*		*76*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.76*			*ug/L*	*1.00*		*76*	*42-159*			

Matrix Spike Dup (5J08017-MSD1) Prepared: 10/08/2015 11:30 Analyzed: 10/14/2015 17:30

Source: C512889-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	11		0.50	ug/L	10.0	0.43 U	109	66-149	14	21	
PCB-1260	12		0.50	ug/L	10.0	0.45 U	117	64-150	17	18	

QUALITY CONTROL

Polychlorinated Biphenyls by GC - Quality Control

Batch 5J08017 - EPA 3510C

Matrix Spike Dup (5J08017-MSD1) Continued Prepared: 10/08/2015 11:30 Analyzed: 10/14/2015 17:30

Source: C512889-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 2,4,5,6-TCMX	*0.86*			*ug/L*	*1.00*		*86*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.83*			*ug/L*	*1.00*		*83*	*42-159*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 5J12008 - EPA 7470A

Blank (5J12008-BLK1) Prepared: 10/12/2015 08:24 Analyzed: 10/13/2015 10:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (5J12008-BS1) Prepared: 10/12/2015 08:24 Analyzed: 10/13/2015 10:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.50		0.200	ug/L	5.00		90	80-120			

Matrix Spike (5J12008-MS1) Prepared: 10/12/2015 08:24 Analyzed: 10/13/2015 10:35

Source: C512353-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	3.91		0.200	ug/L	5.00	0.170 U	78	75-125			

Matrix Spike Dup (5J12008-MSD1) Prepared: 10/12/2015 08:24 Analyzed: 10/13/2015 10:42

Source: C512353-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	3.96		0.200	ug/L	5.00	0.170 U	79	75-125	1	25	

Post Spike (5J12008-PS1) Prepared: 10/12/2015 08:24 Analyzed: 10/13/2015 10:44

Source: C512353-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.21		0.200	ug/L	5.00	0.0370	83	75-125			

Batch 5J12009 - EPA 7470A

Blank (5J12009-BLK1) Prepared: 10/12/2015 08:35 Analyzed: 10/13/2015 11:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (5J12009-BS1) Prepared: 10/12/2015 08:35 Analyzed: 10/13/2015 11:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.74		0.200	ug/L	5.00		95	80-120			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 5J12009 - EPA 7470A

Matrix Spike (5J12009-MS1) Prepared: 10/12/2015 08:35 Analyzed: 10/13/2015 11:50

Source: C511938-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.53		0.200	ug/L	5.00	0.170 U	91	75-125			

Matrix Spike Dup (5J12009-MSD1) Prepared: 10/12/2015 08:35 Analyzed: 10/13/2015 11:52

Source: C511938-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.32		0.200	ug/L	5.00	0.170 U	86	75-125	5	25	

Post Spike (5J12009-PS1) Prepared: 10/12/2015 08:35 Analyzed: 10/13/2015 11:55

Source: C511938-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.43		0.200	ug/L	5.00	0.0940	87	75-125			

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 5J08012 - EPA 3005A

Blank (5J08012-BLK1) Prepared: 10/08/2015 08:55 Analyzed: 10/14/2015 10:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Selenium	0.910	U	3.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (5J08012-BS1) Prepared: 10/08/2015 08:55 Analyzed: 10/14/2015 10:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	198		2.00	ug/L	200		99	80-120			
Selenium	215		3.00	ug/L	200		108	80-120			
Thallium	202		1.00	ug/L	200		101	80-120			

Matrix Spike (5J08012-MS1) Prepared: 10/08/2015 08:55 Analyzed: 10/14/2015 10:16

Source: C512299-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	195		2.00	ug/L	200	2.24	96	75-125			
Selenium	211		3.00	ug/L	200	0.910 U	106	75-125			
Thallium	198		1.00	ug/L	200	0.110 U	99	75-125			

Matrix Spike Dup (5J08012-MSD1) Prepared: 10/08/2015 08:55 Analyzed: 10/14/2015 10:19

Source: C512299-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	196		2.00	ug/L	200	2.24	97	75-125	0.8	20	

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 5J08012 - EPA 3005A

Matrix Spike Dup (5J08012-MSD1) Continued Prepared: 10/08/2015 08:55 Analyzed: 10/14/2015 10:19

Source: C512299-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Selenium	209		3.00	ug/L	200	0.910 U	104	75-125	1	20	
Thallium	198		1.00	ug/L	200	0.110 U	99	75-125	0.2	20	

Post Spike (5J08012-PS1) Prepared: 10/08/2015 08:55 Analyzed: 10/14/2015 10:23

Source: C512299-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	200		2.00	ug/L	200	2.24	99	80-120			
Selenium	214		3.00	ug/L	200	0.550	107	80-120			
Thallium	203		1.00	ug/L	200	0.0739	101	80-120			

Batch 5J09012 - EPA 3005A

Blank (5J09012-BLK1) Prepared: 10/09/2015 08:29 Analyzed: 10/13/2015 13:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	6.80	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.40	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	3.10	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Tin	2.40	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (5J09012-BS1) Prepared: 10/09/2015 08:29 Analyzed: 10/13/2015 13:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	182		10.0	ug/L	200		91	80-120			
Barium	190		10.0	ug/L	200		95	80-120			
Beryllium	18.7		1.00	ug/L	20.0		94	80-120			
Cadmium	19.0		1.00	ug/L	20.0		95	80-120			
Chromium	187		10.0	ug/L	200		94	80-120			
Cobalt	187		10.0	ug/L	200		94	80-120			
Copper	182		10.0	ug/L	200		91	80-120			
Lead	187		10.0	ug/L	200		94	80-120			
Nickel	190		10.0	ug/L	200		95	80-120			
Silver	176		10.0	ug/L	200		88	80-120			
Tin	185		10.0	ug/L	200		93	80-120			
Vanadium	182		10.0	ug/L	200		91	80-120			
Zinc	190		10.0	ug/L	200		95	80-120			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 5J09012 - EPA 3005A

Matrix Spike (5J09012-MS1) Prepared: 10/09/2015 08:29 Analyzed: 10/13/2015 13:44

Source: C512299-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	184		10.0	ug/L	200	6.80 U	92	75-125			
Barium	228		10.0	ug/L	200	41.8	93	75-125			
Beryllium	18.9		1.00	ug/L	20.0	0.279	93	75-125			
Cadmium	18.9		1.00	ug/L	20.0	0.360 U	95	75-125			
Chromium	187		10.0	ug/L	200	1.40 U	93	75-125			
Cobalt	188		10.0	ug/L	200	1.94	93	75-125			
Copper	185		10.0	ug/L	200	3.11	91	75-125			
Lead	188		10.0	ug/L	200	3.10 U	94	75-125			
Nickel	189		10.0	ug/L	200	2.89	93	75-125			
Silver	173		10.0	ug/L	200	1.90 U	87	75-125			
Tin	188		10.0	ug/L	200	2.40 U	94	75-125			
Vanadium	182		10.0	ug/L	200	2.24	90	75-125			
Zinc	194		10.0	ug/L	200	6.83	94	75-125			

Matrix Spike Dup (5J09012-MSD1) Prepared: 10/09/2015 08:29 Analyzed: 10/13/2015 13:55

Source: C512299-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	186		10.0	ug/L	200	6.80 U	93	75-125	0.9	20	
Barium	232		10.0	ug/L	200	41.8	95	75-125	2	20	
Beryllium	19.1		1.00	ug/L	20.0	0.279	94	75-125	1	20	
Cadmium	19.5		1.00	ug/L	20.0	0.360 U	98	75-125	3	20	
Chromium	190		10.0	ug/L	200	1.40 U	95	75-125	2	20	
Cobalt	192		10.0	ug/L	200	1.94	95	75-125	2	20	
Copper	187		10.0	ug/L	200	3.11	92	75-125	0.9	20	
Lead	193		10.0	ug/L	200	3.10 U	96	75-125	3	20	
Nickel	193		10.0	ug/L	200	2.89	95	75-125	2	20	
Silver	175		10.0	ug/L	200	1.90 U	87	75-125	0.7	20	
Tin	189		10.0	ug/L	200	2.40 U	94	75-125	0.7	20	
Vanadium	186		10.0	ug/L	200	2.24	92	75-125	2	20	
Zinc	199		10.0	ug/L	200	6.83	96	75-125	2	20	

Post Spike (5J09012-PS1) Prepared: 10/09/2015 08:29 Analyzed: 10/13/2015 13:58

Source: C512299-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.179		0.0100	mg/L	0.200	0.00270	88	80-120			
Barium	0.226		0.0100	mg/L	0.200	0.0418	92	80-120			
Beryllium	0.0185		0.00100	mg/L	0.0200	0.000279	91	80-120			
Cadmium	0.0186		0.00100	mg/L	0.0200	0.000104	92	80-120			
Chromium	0.183		0.0100	mg/L	0.200	0.000658	91	80-120			
Cobalt	0.184		0.0100	mg/L	0.200	0.00194	91	80-120			
Copper	0.181		0.0100	mg/L	0.200	0.00311	89	80-120			
Lead	0.184		0.0100	mg/L	0.200	0.00157	91	80-120			
Nickel	0.186		0.0100	mg/L	0.200	0.00289	92	80-120			
Silver	0.167		0.0100	mg/L	0.200	0.000632	83	80-120			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 5J09012 - EPA 3005A

Post Spike (5J09012-PS1) Continued Prepared: 10/09/2015 08:29 Analyzed: 10/13/2015 13:58

Source: C512299-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Tin	0.182		0.0100	mg/L	0.200	0.00108	90	80-120			
Vanadium	0.179		0.0100	mg/L	0.200	0.00224	88	80-120			
Zinc	0.197		0.0100	mg/L	0.200	0.00683	95	80-120			

Classical Chemistry Parameters - Quality Control

Batch 5J10002 - NO PREP

Blank (5J10002-BLK1) Prepared: 10/10/2015 11:33 Analyzed: 10/10/2015 11:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.010	U	0.10	mg/L							

LCS (5J10002-BS1) Prepared: 10/10/2015 11:33 Analyzed: 10/10/2015 11:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.43		0.10	mg/L	0.401		108	80-120			

Duplicate (5J10002-DUP1) Prepared: 10/10/2015 11:33 Analyzed: 10/10/2015 11:50

Source: C512353-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.010	U	0.10	mg/L		0.010 U				25	

Matrix Spike (5J10002-MS1) Prepared: 10/10/2015 11:33 Analyzed: 10/10/2015 11:50

Source: C512353-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.010	U	0.10	mg/L	0.401	0.010 U		80-120			QM-05

Matrix Spike Dup (5J10002-MSD1) Prepared: 10/10/2015 11:33 Analyzed: 10/10/2015 11:50

Source: C512353-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.010	U	0.10	mg/L	0.401	0.010 U		80-120		25	QM-05

Batch 5J10007 - NO PREP

Blank (5J10007-BLK1) Prepared: 10/10/2015 15:54 Analyzed: 10/10/2015 16:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.010	U	0.10	mg/L							

LCS (5J10007-BS1) Prepared: 10/10/2015 15:54 Analyzed: 10/10/2015 16:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 5J10007 - NO PREP

LCS (5J10007-BS1) Continued Prepared: 10/10/2015 15:54 Analyzed: 10/10/2015 16:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.43		0.10	mg/L	0.401		108	80-120			

Duplicate (5J10007-DUP1) Prepared: 10/10/2015 15:54 Analyzed: 10/10/2015 16:30

Source: C512354-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.010	U	0.10	mg/L		0.010 U				25	

Matrix Spike (5J10007-MS1) Prepared: 10/10/2015 15:54 Analyzed: 10/10/2015 16:30

Source: C512539-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.36		0.10	mg/L	0.401	0.010 U	91	80-120			

Matrix Spike Dup (5J10007-MSD1) Prepared: 10/10/2015 15:54 Analyzed: 10/10/2015 16:30

Source: C512539-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.36		0.10	mg/L	0.401	0.010 U	90	80-120	1	25	

Batch 5J13008 - Same

Blank (5J13008-BLK1) Prepared: 10/13/2015 09:38 Analyzed: 10/15/2015 10:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.0049	U	0.010	mg/L							

LCS (5J13008-BS1) Prepared: 10/13/2015 09:38 Analyzed: 10/15/2015 10:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.14		0.010	mg/L	0.150		91	85-115			

Matrix Spike (5J13008-MS1) Prepared: 10/13/2015 09:38 Analyzed: 10/15/2015 10:14

Source: C512286-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.15		0.010	mg/L	0.150	0.0049 U	98	85-115			

Matrix Spike (5J13008-MS2) Prepared: 10/13/2015 09:38 Analyzed: 10/15/2015 10:16

Source: C512287-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.14		0.010	mg/L	0.150	0.0049 U	91	85-115			

Matrix Spike Dup (5J13008-MSD1) Prepared: 10/13/2015 09:38 Analyzed: 10/15/2015 10:18

Source: C512286-02

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 5J13008 - Same

Matrix Spike Dup (5J13008-MSD1) Continued Prepared: 10/13/2015 09:38 Analyzed: 10/15/2015 10:18

Source: C512286-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.14		0.010	mg/L	0.150	0.0049 U	96	85-115	2	20	

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 5J12002 - EPA 3510C

Blank (5J12002-BLK1) Prepared: 10/12/2015 10:30 Analyzed: 10/13/2015 12:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.28	U	0.50	ug/L							
2,4,5-TP (Silvex)	0.44	U	0.50	ug/L							
2,4-D	0.27	U	0.50	ug/L							
Dinoseb	0.32	U	0.50	ug/L							
Pentachlorophenol	0.19	U	0.50	ug/L							
Surrogate: 2,4-DCAA	*1.4*			*ug/L*	*2.00*		*70*	*48-151*			

LCS (5J12002-BS1) Prepared: 10/12/2015 10:30 Analyzed: 10/13/2015 12:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.2		0.50	ug/L	2.00		60	47-142			
2,4-D	1.1		0.50	ug/L	2.00		57	37-129			
Surrogate: 2,4-DCAA	*1.3*			*ug/L*	*2.00*		*64*	*48-151*			

Matrix Spike (5J12002-MS1) Prepared: 10/12/2015 10:30 Analyzed: 10/13/2015 13:22

Source: A506504-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.6		0.50	ug/L	2.00	0.44 U	78	47-142			
2,4-D	1.4		0.50	ug/L	2.00	0.27 U	70	37-129			
Surrogate: 2,4-DCAA	*1.7*			*ug/L*	*2.00*		*84*	*48-151*			

Matrix Spike Dup (5J12002-MSD1) Prepared: 10/12/2015 10:30 Analyzed: 10/13/2015 13:47

Source: A506504-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.2		0.50	ug/L	2.00	0.44 U	62	47-142	24	15	QM-11
2,4-D	1.1		0.50	ug/L	2.00	0.27 U	54	37-129	25	33	
Surrogate: 2,4-DCAA	*1.2*			*ug/L*	*2.00*		*62*	*48-151*			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.
QS-03	Surrogate recovery outside acceptance limits
QS-06	Surrogate recovery exceeded acceptance criteria due to coelution. Matrix effect confirmed.
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.
QV-02	The associated continuing calibration verification standard exhibited low bias; the reported result should be considered to be a minimum estimate.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 850-6945
4810 Executive Park Court, Suite 111 Jacksonville, FL 32216-6069 (904) 296-3007 Fax (904) 296-6210
102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515
www.encolabs.com

Client Name: City of Greensboro (CI034)	Project Number: [none]
Address: 2503 White Street	Project Name/Desc: White Street Landfill App IIs
City/ST/Zip: Greensboro, NC 27405	PO # / Billing Info:
Tel: (336) 373-4188 / Fax:	Reporting Contact: Lewis Walker
Sampler(s) Name, Affiliation (Print): BRADLEY KEYSE / S&ME	Billing Contact: Angie Wade
Sampler(s) Signature: Bradley Keyse	Site Location / Time Zone:

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C512885 ~~C512353~~ RAY

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8081B Appendix 2	8082A Appendix 2, 8151A Appendix 2, 8270D Appendix 2	8260B Appendix 2, 8260B Extended	Ag,As,Ba,Be,Co,Cr,Cu,Ni,Pb,Sb,Se,Sn,Tl,V,Zn	Cyanide Total 9014	Hg	Sulfide SM4500-S D				Sample Comments
	4103-DUPLICATE II ~~4103-II15~~	10-6-15	0700	GRAB	GW	9	X	X	X	X	X	X	X				
	4103-TRIP BLANK #1 ~~4103-II2~~ BB	—	—	—	OT BE GW	9	~~X~~	~~X~~ BL	X	~~X~~	~~X~~	~~X~~	~~X~~ BL				
	4103-TRIP BLANK #2 ~~4103-II3~~ BL	—	—	—	OT BE ~~GW~~	9	~~X~~	~~X~~ BL	X	~~X~~	~~X~~	~~X~~	~~X~~ BL				
	~~4103-II4A~~				~~GW~~	~~9~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~ BL				
	~~4103-II5~~ 4103-II9	10-7-15	0815	GRAB	GW	9	X	X	X	X	X	X	X				
	~~4103-II6~~ 4103-SMW3	10-7-15	1020	GRAB	GW	9	X	X	X	X	X	X	X				
	4103-II7	10-6-15	1245	GRAB	GW	9	X	X	X	X	X	X	X				
	4103-II7B	10-6-15	1430	GRAB	GW	9	X	X	X	X	X	X	X				
	4103-II8	10-6-15	1740	GRAB	GW	9	X	X	X	X	X	X	X				
	~~4103-II12~~				~~GW~~	~~9~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~ BL				
	~~4103-MW13~~				~~GW~~	~~9~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~ BL				
	~~4103-MW14~~				~~GW~~	~~9~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~ BL				

<-- Total # of Containers

Sample Kit Prepared By: RAY	Date/Time: 9/24	Relinquished By: [signature]	Date/Time: 10-7-15 / 1130	Received By: [signature] B.W.	Date/Time: 10/7/15 11:30
Comments/Special Reporting Requirements: OT - PREPARED BY ENCO		Relinquished By: B.W.	Date/Time: 10/7/15 13:10	Received By: Rachel	Date/Time: 10/7/15 13:15
		Relinquished By:	Date/Time:	Received By:	Date/Time:

Cooler #'s & Temps on Receipt: C-4007 C-215 C-800 C-201 C-1023 2.6c C-200

Condition Upon Receipt: ✓ Acceptable ___ Unacceptable

TB/+11/787B

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

Sample Preservation Verification

ENCO Cary

Work Order:	C512885	Project:	White Street Landfill App IIs
Client:	City of Greensboro (CI034)	Project #:	[none]
Logged In:	07-Oct-15 13:56	Logged By:	Rachel Ann Yonish

C512885-01

Cont	Type	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
D	250mLP+HNO3	<2	Y / N / NA	Y / N / NA		
E	250mLP+NaOH	>12	Y / N / NA	Y / N / NA		
F	250mLP+ZnAc+NaOH	>9	Y / N / NA	Y / N / NA		

C512885-02

Cont	Type	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
D	250mLP+HNO3	<2	Y / N / NA	Y / N / NA		
E	250mLP+NaOH	>12	Y / N / NA	Y / N / NA		
F	250mLP+ZnAc+NaOH	>9	Y / N / NA	Y / N / NA		

C512885-03

Cont	Type	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
D	250mLP+HNO3	<2	Y / N / NA	Y / N / NA		
E	250mLP+NaOH	>12	Y / N / NA	Y / N / NA		
F	250mLP+ZnAc+NaOH	>9	Y / N / NA	Y / N / NA		

C512885-04

Cont	Type	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
D	250mLP+HNO3	<2	Y / N / NA	Y / N / NA		
E	250mLP+NaOH	>12	Y / N / NA	Y / N / NA		
F	250mLP+ZnAc+NaOH	>9	Y / N / NA	Y / N / NA		

C512885-05

Cont	Type	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
D	250mLP+HNO3	<2	Y / N / NA	Y / N / NA		
E	250mLP+NaOH	>12	Y / N / NA	Y / N / NA		
F	250mLP+ZnAc+NaOH	>9	Y / N / NA	Y / N / NA		

C512885-06

Cont	Type	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
D	250mLP+HNO3	<2	Y / N / NA	Y / N / NA		
E	250mLP+NaOH	>12	Y / N / NA	Y / N / NA		
F	250mLP+ZnAc+NaOH	>9	Y / N / NA	Y / N / NA		

Sample Preservation Verification

ENCO Cary

Work Order:	C512885	Project:	White Street Landfill App IIs
Client:	City of Greensboro (CI034)	Project #:	[none]
Logged In:	07-Oct-15 13:56	Logged By:	Rachel Ann Yonish

	Reagent Name	ID
1		
2		

	Reagent Name	ID
3		
4		

	Reagent Name	ID
5		
6		

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Monday, October 19, 2015

City of Greensboro (CI034)

Attn: Lewis Walker

2503 White Street

Greensboro, NC 27405

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: White Street Landfill MNA
ENCO Workorder(s): C512996

Dear Lewis Walker,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, October 8, 2015.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 19.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4103-II1	Lab ID: C512996-01	Sampled: 10/07/15 13:15	Received: 10/08/15 14:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	11/04/15	10/14/15 08:05	10/14/2015 08:05
EPA 310.2	10/21/15	10/09/15 09:21	10/9/2015 14:28
EPA 353.2	07/02/18	10/19/15 13:29	10/19/2015 13:33
EPA 8260B	10/21/15	10/15/15 10:29	10/15/2015 15:59
RSK-175	10/21/15	10/13/15 10:45	10/13/2015 22:57
SM 4500S2 D-2000	10/14/15	10/10/15 15:54	10/10/2015 16:30
SM 5310B-2000	11/04/15	10/15/15 10:00	10/15/2015 16:03
Volatile Fatty Acids	10/21/15	10/15/15 08:44	10/15/2015 14:38

Client ID: 4103-II1	Lab ID: C512996-01RE1	Sampled: 10/07/15 13:15	Received: 10/08/15 14:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	11/04/15	10/14/15 08:05	10/14/2015 08:05
RSK-175	10/21/15	10/13/15 10:45	10/14/2015 13:22

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 4103-II1 **Lab ID: C512996-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.86	J	1	0.13	1.0	5	ug/L	EPA 8260B	
1,2-Dichlorobenzene	0.46	J	1	0.19	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	7.6		1	0.19	1.0	1	ug/L	EPA 8260B	
Acetic Acid	31		1	0.16	0.20	NE	mg/L	Volatile Fatty Acids	
Benzene	1.2		1	0.15	1.0	1	ug/L	EPA 8260B	
Carbon tetrachloride	0.47	J	1	0.17	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	3.4		1	0.17	1.0	3	ug/L	EPA 8260B	
Chloroethane	0.94	J	1	0.23	1.0	10	ug/L	EPA 8260B	
Nitrate as N	220	J	1	25	100	10000	ug/L	EPA 353.2	
Propionic Acid	29		1	0.065	0.10	NE	mg/L	Volatile Fatty Acids	
Sulfate as SO4	15000	J	1	2900	5000	250000	ug/L	EPA 300.0	
Total Alkalinity as CaCO3	1000000	D	6	84000	90000	NE	ug/L	EPA 310.2	
Total Organic Carbon	46000		1	340	1000	NE	ug/L	SM 5310B-2000	

Client ID: 4103-II1 **Lab ID: C512996-01RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Carbon dioxide	1150000	D	10	2100	25000	NE	ug/L	RSK-175	
Chloride	570000	D	10	22000	50000	NE	ug/L	EPA 300.0	
Methane	277	D	10	4.40	10.0	NE	ug/L	RSK-175	

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ANALYTICAL RESULTS

Description: 4103-II1 | **Lab Sample ID:** C512996-01 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/07/15 13:15 | **Work Order:** C512996

Project: White Street Landfill MNA | **Sampled By:** Bradley Keyse

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/15/15 15:59	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/15/15 15:59	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/15/15 15:59	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/15/15 15:59	REF	
1,1-Dichloroethane [75-34-3] ^	**0.86**	J	ug/L	1	0.13	1.0	5	EPA 8260B	10/15/15 15:59	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/15/15 15:59	REF	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/15/15 15:59	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/15/15 15:59	REF	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/15/15 15:59	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/15/15 15:59	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/15/15 15:59	REF	
1,2-Dichlorobenzene [95-50-1] ^	**0.46**	J	ug/L	1	0.19	1.0	5	EPA 8260B	10/15/15 15:59	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/15/15 15:59	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/15/15 15:59	REF	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/15/15 15:59	REF	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/15/15 15:59	REF	
1,4-Dichlorobenzene [106-46-7] ^	**7.6**		ug/L	1	0.19	1.0	1	EPA 8260B	10/15/15 15:59	REF	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/15/15 15:59	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/15/15 15:59	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/15/15 15:59	REF	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/15/15 15:59	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/15/15 15:59	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/15/15 15:59	REF	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/15/15 15:59	REF	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/15/15 15:59	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/15/15 15:59	REF	
Benzene [71-43-2] ^	**1.2**		ug/L	1	0.15	1.0	1	EPA 8260B	10/15/15 15:59	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/15/15 15:59	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/15 15:59	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/15/15 15:59	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/15/15 15:59	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/15/15 15:59	REF	
Carbon tetrachloride [56-23-5] ^	**0.47**	J	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/15 15:59	REF	
Chlorobenzene [108-90-7] ^	**3.4**		ug/L	1	0.17	1.0	3	EPA 8260B	10/15/15 15:59	REF	
Chloroethane [75-00-3] ^	**0.94**	J	ug/L	1	0.23	1.0	10	EPA 8260B	10/15/15 15:59	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/15/15 15:59	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/15/15 15:59	REF	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/15/15 15:59	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/15/15 15:59	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/15/15 15:59	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/15/15 15:59	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/15/15 15:59	REF	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/15/15 15:59	REF	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/15/15 15:59	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/15/15 15:59	REF	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	10/15/15 15:59	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/15/15 15:59	REF	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/15/15 15:59	REF	

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Description: 4103-II1 | **Lab Sample ID:** C512996-01 | **Received:** 10/08/15 14:00

Matrix: Ground Water | **Sampled:** 10/07/15 13:15 | **Work Order:** C512996

Project: White Street Landfill MNA | **Sampled By:** Bradley Keyse

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/15/15 15:59	REF	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/15/15 15:59	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/15/15 15:59	REF	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/15/15 15:59	REF	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/15/15 15:59	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/15/15 15:59	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/15 15:59	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/15/15 15:59	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/15/15 15:59	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/15 15:59	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/15/15 15:59	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/15 15:59	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/15/15 15:59	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/15/15 15:59	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/15/15 15:59	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/15/15 15:59	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*98 %*	*53-136*	*5J15019*	*EPA 8260B*	*10/15/15 15:59*	*REF*	
Dibromofluoromethane	*58*	*1*	*50.0*	*116 %*	*67-129*	*5J15019*	*EPA 8260B*	*10/15/15 15:59*	*REF*	
Toluene-d8	*51*	*1*	*50.0*	*102 %*	*59-134*	*5J15019*	*EPA 8260B*	*10/15/15 15:59*	*REF*	

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Description: 4103-II1
Matrix: Ground Water
Project: White Street Landfill MNA

Lab Sample ID: C512996-01
Sampled: 10/07/15 13:15
Sampled By: Bradley Keyse

Received: 10/08/15 14:00
Work Order: C512996

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] ^	**570000**	D	ug/L	10	22000	50000	NE	EPA 300.0	10/14/15 08:05	MMR	
Nitrate as N [14797-55-8] ^	**220**	J	ug/L	1	25	100	10000	EPA 353.2	10/19/15 13:33	JLJ	
Sulfate as SO4 [14808-79-8] ^	**15000**	J	ug/L	1	2900	5000	250000	EPA 300.0	10/14/15 08:05	MMR	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM 4500S2 D-2000	10/10/15 16:30	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**1000000**	D	ug/L	6	84000	90000	NE	EPA 310.2	10/09/15 14:28	JLJ	

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Description: 4103-II1
Matrix: Ground Water
Project: White Street Landfill MNA

Lab Sample ID: C512996-01
Sampled: 10/07/15 13:15
Sampled By: Bradley Keyse

Received: 10/08/15 14:00
Work Order: C512996

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	**31**		mg/L	1	0.16	0.20	NE	Volatile Fatty Acids	10/15/15 14:38	jfi	
Butyric Acid [107-92-6]	0.089	U	mg/L	1	0.089	0.10	NE	Volatile Fatty Acids	10/15/15 14:38	jfi	
Hexanoic Acid [142-62-1]	0.26	U	mg/L	1	0.26	0.50		Volatile Fatty Acids	10/15/15 14:38	jfi	
iso-Hexanoic Acid [646-07-1]	0.44	U	mg/L	1	0.44	0.50		Volatile Fatty Acids	10/15/15 14:38	jfi	
iso-Pentanoic Acid [503-74-2]	0.18	U	mg/L	1	0.18	0.20		Volatile Fatty Acids	10/15/15 14:38	jfi	J-02
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid) [50-21-5/594-61-6]	**4.7**		mg/L	1	0.095	0.14		Volatile Fatty Acids	10/15/15 14:38	jfi	
Pentanoic Acid [109-52-4]	0.11	U	mg/L	1	0.11	0.20		Volatile Fatty Acids	10/15/15 14:38	jfi	
Propionic Acid [79-09-4]	**29**		mg/L	1	0.065	0.10	NE	Volatile Fatty Acids	10/15/15 14:38	jfi	
Pyruvic Acid [127-17-3]	0.012	U	mg/L	1	0.012	0.070	NE	Volatile Fatty Acids	10/15/15 14:38	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*17*	*1*	*20.0*	*84 %*	*50-150*	*5J15015*	*Volatile Fatty Acids*	*10/15/15 14:38*	*jfi*	

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Description:	4103-II1	**Lab Sample ID:**	C512996-01	**Received:**	10/08/15 14:00
Matrix:	Ground Water	**Sampled:**	10/07/15 13:15	**Work Order:**	C512996
Project:	White Street Landfill MNA	**Sampled By:**	Bradley Keyse		

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon^	**46000**		ug/L	1	340	1000	NE	SM 5310B-2000	10/15/15 16:03	RSA	

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Description: 4103-II1
Matrix: Ground Water
Project: White Street Landfill MNA

Lab Sample ID: C512996-01
Sampled: 10/07/15 13:15
Sampled By: Bradley Keyse

Received: 10/08/15 14:00
Work Order: C512996

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**1150000**	D	ug/L	10	2100	25000	NE	RSK-175	10/14/15 13:22	LTS	
Ethane [74-84-0]	0.470	U	ug/L	1	0.470	2.00	NE	RSK-175	10/13/15 22:57	LTS	
Ethene [74-85-1]	0.620	U	ug/L	1	0.620	3.00	NE	RSK-175	10/13/15 22:57	LTS	
Methane [74-82-8]	**277**	D	ug/L	10	4.40	10.0	NE	RSK-175	10/14/15 13:22	LTS	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5J15019 - EPA 5030B_MS

Blank (5J15019-BLK1) Prepared: 10/15/2015 10:29 Analyzed: 10/15/2015 10:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Hexachlorobutadiene	0.22	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5J15019 - EPA 5030B_MS

Blank (5J15019-BLK1) Continued Prepared: 10/15/2015 10:29 Analyzed: 10/15/2015 10:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*96*	*53-136*			
Surrogate: Dibromofluoromethane	*57*			*ug/L*	*50.0*		*115*	*67-129*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*98*	*59-134*			

LCS (5J15019-BS1) Prepared: 10/15/2015 10:29 Analyzed: 10/15/2015 11:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0		109	75-133			
Benzene	20		1.0	ug/L	20.0		101	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		94	83-117			
Toluene	20		1.0	ug/L	20.0		102	71-118			
Trichloroethene	18		1.0	ug/L	20.0		90	74-119			
Surrogate: 4-Bromofluorobenzene	*49*			*ug/L*	*50.0*		*98*	*53-136*			
Surrogate: Dibromofluoromethane	*54*			*ug/L*	*50.0*		*108*	*67-129*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*96*	*59-134*			

Matrix Spike (5J15019-MS1) Prepared: 10/15/2015 10:29 Analyzed: 10/15/2015 11:41

Source: C512539-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	26		1.0	ug/L	20.0	0.21 U	128	75-133			
Benzene	23		1.0	ug/L	20.0	0.15 U	114	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	105	83-117			
Toluene	23		1.0	ug/L	20.0	0.14 U	113	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	104	74-119			
Surrogate: 4-Bromofluorobenzene	*49*			*ug/L*	*50.0*		*98*	*53-136*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*107*	*67-129*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*97*	*59-134*			

Matrix Spike Dup (5J15019-MSD1) Prepared: 10/15/2015 10:29 Analyzed: 10/15/2015 12:10

Source: C512539-03

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5J15019 - EPA 5030B_MS

Matrix Spike Dup (5J15019-MSD1) Continued Prepared: 10/15/2015 10:29 Analyzed: 10/15/2015 12:10

Source: C512539-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	25		1.0	ug/L	20.0	0.21 U	126	75-133	2	20	
Benzene	23		1.0	ug/L	20.0	0.15 U	113	81-134	0.9	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	102	83-117	4	16	
Toluene	23		1.0	ug/L	20.0	0.14 U	114	71-118	0.8	17	
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	104	74-119	0.4	22	
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*97*	*53-136*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*107*	*67-129*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*96*	*59-134*			

Classical Chemistry Parameters - Quality Control

Batch 5J08037 - NO PREP

LCS (5J08037-BS1) Prepared: 10/08/2015 14:07 Analyzed: 10/08/2015 15:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0		0.10	mg/L	1.00		102	90-110			

LCS (5J08037-BS2) Prepared: 10/08/2015 14:07 Analyzed: 10/08/2015 16:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0		0.10	mg/L	1.00		101	90-110			

LCS (5J08037-BS3) Prepared: 10/08/2015 14:07 Analyzed: 10/08/2015 19:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.98		0.10	mg/L	1.00		98	90-110			

LCS (5J08037-BS4) Prepared: 10/08/2015 14:07 Analyzed: 10/08/2015 19:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.97		0.10	mg/L	1.00		97	90-110			

Matrix Spike (5J08037-MS1) Prepared: 10/08/2015 14:07 Analyzed: 10/08/2015 16:12

Source: C511939-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1200		100	ug/L	1000	190	100	90-110			

Matrix Spike (5J08037-MS2) Prepared: 10/08/2015 14:07 Analyzed: 10/08/2015 16:31

Source: C512539-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1000		100	ug/L	1000	17 U	105	90-110			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 5J08037 - NO PREP

Matrix Spike Dup (5J08037-MSD1) Prepared: 10/08/2015 14:07 Analyzed: 10/08/2015 16:15

Source: C511939-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1200		100	ug/L	1000	190	100	90-110	0.1	10	

Matrix Spike Dup (5J08037-MSD2) Prepared: 10/08/2015 14:07 Analyzed: 10/08/2015 16:34

Source: C512539-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1000		100	ug/L	1000	17 U	100	90-110	5	10	

Batch 5J09018 - NO PREP

Blank (5J09018-BLK1) Prepared: 10/09/2015 09:21 Analyzed: 10/09/2015 14:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	14000	U	15000	ug/L							

LCS (5J09018-BS1) Prepared: 10/09/2015 09:21 Analyzed: 10/09/2015 14:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	100		15	mg/L	100		101	80-120			

Matrix Spike (5J09018-MS1) Prepared: 10/09/2015 09:21 Analyzed: 10/09/2015 15:45

Source: C511922-01RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	1200000		150000	ug/L	400000	870000	93	80-120			

Matrix Spike Dup (5J09018-MSD1) Prepared: 10/09/2015 09:21 Analyzed: 10/09/2015 15:46

Source: C511922-01RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	1300000		150000	ug/L	400000	870000	98	80-120	2	25	

Batch 5J10007 - NO PREP

Blank (5J10007-BLK1) Prepared: 10/10/2015 15:54 Analyzed: 10/10/2015 16:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	10	U	100	ug/L							

LCS (5J10007-BS1) Prepared: 10/10/2015 15:54 Analyzed: 10/10/2015 16:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.43		0.10	mg/L	0.401		108	80-120			

Duplicate (5J10007-DUP1) Prepared: 10/10/2015 15:54 Analyzed: 10/10/2015 16:30

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 5J10007 - NO PREP

Duplicate (5J10007-DUP1) Continued Prepared: 10/10/2015 15:54 Analyzed: 10/10/2015 16:30

Source: C512354-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	10	U	100	ug/L		10 U				25	

Matrix Spike (5J10007-MS1) Prepared: 10/10/2015 15:54 Analyzed: 10/10/2015 16:30

Source: C512539-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	360		100	ug/L	401	10 U	91	80-120			

Matrix Spike Dup (5J10007-MSD1) Prepared: 10/10/2015 15:54 Analyzed: 10/10/2015 16:30

Source: C512539-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	360		100	ug/L	401	10 U	90	80-120	1	25	

Batch 5J14003 - NO PREP

LCS (5J14003-BS1) Prepared: 10/14/2015 07:24 Analyzed: 10/14/2015 10:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.3		0.10	mg/L	1.25		102	90-110			

Matrix Spike (5J14003-MS1) Prepared: 10/14/2015 07:24 Analyzed: 10/14/2015 10:35

Source: C511200-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1400		100	ug/L	513	920	102	90-110			

Matrix Spike (5J14003-MS2) Prepared: 10/14/2015 07:24 Analyzed: 10/14/2015 10:48

Source: C511203-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	680		100	ug/L	513	160	103	90-110			

Matrix Spike Dup (5J14003-MSD1) Prepared: 10/14/2015 07:24 Analyzed: 10/14/2015 10:44

Source: C511200-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1500		100	ug/L	513	920	108	90-110	2	10	

Batch 5J14004 - NO PREP

Blank (5J14004-BLK1) Prepared & Analyzed: 10/14/2015 08:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	2200	U	5000	ug/L							

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 5J14004 - NO PREP

Blank (5J14004-BLK1) Continued Prepared & Analyzed: 10/14/2015 08:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	2900	U	5000	ug/L							

LCS (5J14004-BS1) Prepared & Analyzed: 10/14/2015 08:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	48000		5000	ug/L	50000		97	90-110			
Sulfate as SO4	49000		5000	ug/L	50000		98	90-110			

Matrix Spike (5J14004-MS1) Prepared & Analyzed: 10/14/2015 08:05

Source: C512539-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	23000		5000	ug/L	20000	4500	93	90-110			
Sulfate as SO4	26000		5000	ug/L	20000	6900	95	90-110			

Matrix Spike (5J14004-MS2) Prepared & Analyzed: 10/14/2015 08:05

Source: C511938-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	20000		5000	ug/L	20000	2600	87	90-110			QM-07
Sulfate as SO4	22000		5000	ug/L	20000	4300	87	90-110			QM-07

Matrix Spike Dup (5J14004-MSD1) Prepared & Analyzed: 10/14/2015 08:05

Source: C512539-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	24000		5000	ug/L	20000	4500	96	90-110	2	10	
Sulfate as SO4	26000		5000	ug/L	20000	6900	97	90-110	1	10	

QUALITY CONTROL

Dissolved Gases by GC - Quality Control

Batch 5J13010 - Same

Blank (5J13010-BLK1) Prepared: 10/13/2015 10:18 Analyzed: 10/13/2015 18:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	210	U	2500	ug/L							
Ethane	0.470	U	2.00	ug/L							
Ethene	0.620	U	3.00	ug/L							
Methane	0.440	U	1.00	ug/L							

LCS (5J13010-BS1) Prepared: 10/13/2015 10:18 Analyzed: 10/13/2015 17:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	46100		2.50	mg/L	50400		91	80-120			
Ethane	512		0.00200	mg/L	500		102	80-120			

QUALITY CONTROL

Dissolved Gases by GC - Quality Control

Batch 5J13010 - Same

LCS (5J13010-BS1) Continued Prepared: 10/13/2015 10:18 Analyzed: 10/13/2015 17:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ethene	522		0.00300	mg/L	500		104	80-120			
Methane	518		0.00100	mg/L	500		104	80-120			

LCS Dup (5J13010-BSD1) Prepared: 10/13/2015 10:18 Analyzed: 10/13/2015 17:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	46400		2.50	mg/L	50400		92	80-120	0.8	25	
Ethane	514		0.00200	mg/L	500		103	80-120	0.4	25	
Ethene	527		0.00300	mg/L	500		105	80-120	0.8	25	
Methane	504		0.00100	mg/L	500		101	80-120	3	25	

Duplicate (5J13010-DUP1) Prepared: 10/13/2015 10:18 Analyzed: 10/13/2015 22:08

Source: B504303-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	213000		2500	ug/L		208000			2	25	
Ethane	0.470	U	2.00	ug/L		0.470 U				25	
Ethene	0.620	U	3.00	ug/L		0.620 U				25	
Methane	0.440	U	1.00	ug/L		2220				25	

QUALITY CONTROL

Volatile Fatty Acids by HPLC - Quality Control

Batch 5J15015 - NA

Blank (5J15015-BLK1) Prepared: 10/15/2015 08:44 Analyzed: 10/15/2015 10:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	0.16	U	0.20	mg/L							
Butyric Acid	0.089	U	0.10	mg/L							
Hexanoic Acid	0.26	U	0.50	mg/L							
iso-Hexanoic Acid	0.44	U	0.50	mg/L							
iso-Pentanoic Acid	0.18	U	0.20	mg/L							
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid	0.095	U	0.14	mg/L							
Pentanoic Acid	0.11	U	0.20	mg/L							
Propionic Acid	0.065	U	0.10	mg/L							
Pyruvic Acid	0.012	U	0.070	mg/L							
Surrogate: Trimethylacetic acid	*23*			*mg/L*	*20.0*		*113*	*50-150*			

LCS (5J15015-BS1) Prepared: 10/15/2015 08:44 Analyzed: 10/15/2015 10:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	22		0.20	mg/L	20.0		111	70-130			
Butyric Acid	17		0.10	mg/L	20.0		83	70-130			
Hexanoic Acid	23		0.50	mg/L	20.0		114	70-130			
iso-Hexanoic Acid	25		0.50	mg/L	20.0		124	70-130			
iso-Pentanoic Acid	13		0.20	mg/L	20.0		64	70-130			J-02
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid	50		0.14	mg/L	40.0		126	0-200			

QUALITY CONTROL

Volatile Fatty Acids by HPLC - Quality Control

Batch 5J15015 - NA

LCS (5J15015-BS1) Continued Prepared: 10/15/2015 08:44 Analyzed: 10/15/2015 10:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Pentanoic Acid	20		0.20	mg/L	20.0		99	70-130			
Propionic Acid	21		0.10	mg/L	20.0		106	70-130			
Pyruvic Acid	14		0.070	mg/L	20.0		71	70-130			
Surrogate: Trimethylacetic acid	*16*			*mg/L*	*20.0*		*81*	*50-150*			

LCS Dup (5J15015-BSD1) Prepared: 10/15/2015 08:44 Analyzed: 10/15/2015 10:59

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	22		0.20	mg/L	20.0		112	70-130	1	25	
Butyric Acid	16		0.10	mg/L	20.0		82	70-130	1	25	
Hexanoic Acid	23		0.50	mg/L	20.0		113	70-130	0.9	25	
iso-Hexanoic Acid	24		0.50	mg/L	20.0		120	70-130	3	25	
iso-Pentanoic Acid	13		0.20	mg/L	20.0		64	70-130	0.2	25	J-02
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid	50		0.14	mg/L	40.0		126	0-200	0.06	200	
Pentanoic Acid	20		0.20	mg/L	20.0		101	70-130	1	25	
Propionic Acid	23		0.10	mg/L	20.0		113	70-130	6	25	
Pyruvic Acid	14		0.070	mg/L	20.0		71	70-130	0.5	25	
Surrogate: Trimethylacetic acid	*16*			*mg/L*	*20.0*		*81*	*50-150*			

Classical Chemistry Parameters - Quality Control

Batch 5J15005 - NO PREP

Blank (5J15005-BLK1) Prepared: 10/15/2015 10:00 Analyzed: 10/15/2015 16:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	340	U	1000	ug/L							

LCS (5J15005-BS1) Prepared: 10/15/2015 10:00 Analyzed: 10/15/2015 16:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	40000		1000	ug/L	40000		100	85-115			

Matrix Spike (5J15005-MS1) Prepared: 10/15/2015 10:00 Analyzed: 10/15/2015 16:03

Source: C512996-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	92000		1000	ug/L	40000	46000	115	85-115			

Matrix Spike Dup (5J15005-MSD1) Prepared: 10/15/2015 10:00 Analyzed: 10/15/2015 16:03

Source: C512996-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	87000		1000	ug/L	40000	46000	103	85-115	5	21	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
J-02	Result is estimated due to bias in the associated laboratory control sample (LCS).
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-5945

4810 Executive Park Court, Suite 111
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 295-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

www.encolabs.com

Client Name	City of Greensboro (CI034)
Address	2503 White Street
City/ST/Zip	Greensboro, NC 27405
Tel	(336) 373-4188
Fax	
Sampler(s) Name, Affiliation (Print)	BRADLEY KEYSE / SGMC
Sampler(s) Signature	
Project Number	[none]
Project Name/Desc	White Street Landfill MNA
PO # / Billing Info	
Reporting Contact	Lewis Walker
Billing Contact	Angie Wade
Site Location / Time Zone	

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: C512358

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 2	Alkalinity 310.2,Chloride 300,Nitrite as N 353.2	Fatty Acids	Nitrate Calc 353.2	NOX 353.2	RSK 175 + CO2	Sulfate 300	Sulfide SM4500-S D	TOC SM5310B		Sample Comments
	4103-11	10/8	1:00		GW	11	X	X	X	X	X	X	X	X	X		
	~~4103-119~~				GW	11	X	X	X	X	X	X	X	X	X	BP	C512996
	~~4103-SW01~~				GW	11	X	X	X	X	X	X	X	X	X	BP	
	~~4103-MW14~~				GW	11	X	X	X	X	X	X	X	X	X	BP	

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: Bradley Keyse / SGMC	Date/Time: 10-8-15 / 1200	Received By: Bobby Woody	Date/Time: 12:05 10/8/15
Comments/Special Reporting Requirements		Relinquished By: Bobby Woody	Date/Time: 12:00 10/8/15	Received By: [signature]	Date/Time: 10/8/15 1400
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 1.8°C		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

Sample Preservation Verification

ENCO Cary

Work Order:	C512996	Project:	White Street Landfill MNA
Client:	City of Greensboro (CI034)	Project #:	[none]
Logged In:	08-Oct-15 15:35	Logged By:	Andrew S Coons

C512996-01

Cont	Type	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
B	250mLP+H2SO4	<2	Y / N / NA	Y / N / NA		
C	250mLP+ZnAc+NaOH	>9	Y / N / NA	Y / N / NA		

	Reagent Name	ID
1		
2		

	Reagent Name	ID
3		
4		

	Reagent Name	ID
5		
6		

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Friday, October 16, 2015

City of Greensboro (CI034)

Attn: Lewis Walker

2503 White Street

Greensboro, NC 27405

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: White Street Landfill Surface Waters
ENCO Workorder(s): C512359

Dear Lewis Walker,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, October 8, 2015.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 26.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4103-SW1 **Lab ID: C512359-01** **Sampled: 10/07/15 14:00** **Received: 10/08/15 14:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/04/16	10/13/15 14:22	10/15/2015 11:39
EPA 6020A	04/04/16	10/13/15 14:32	10/15/2015 14:28
EPA 8260B	10/21/15	10/15/15 10:29	10/15/2015 16:28

Client ID: 4103-SW2 **Lab ID: C512359-02** **Sampled: 10/07/15 13:20** **Received: 10/08/15 14:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/04/16	10/13/15 14:22	10/15/2015 11:42
EPA 6020A	04/04/16	10/13/15 14:32	10/15/2015 14:32
EPA 8260B	10/21/15	10/15/15 10:29	10/15/2015 16:57

Client ID: 4103-SW3 **Lab ID: C512359-03** **Sampled: 10/07/15 15:45** **Received: 10/08/15 14:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/04/16	10/13/15 14:22	10/15/2015 11:57
EPA 6020A	04/04/16	10/13/15 14:32	10/15/2015 14:47
EPA 8260B	10/21/15	10/15/15 10:29	10/15/2015 17:25

Client ID: 4103-SW4 **Lab ID: C512359-04** **Sampled: 10/07/15 14:45** **Received: 10/08/15 14:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/04/16	10/13/15 14:22	10/15/2015 11:59
EPA 6020A	04/04/16	10/13/15 14:32	10/15/2015 14:50
EPA 8260B	10/21/15	10/15/15 10:29	10/15/2015 17:54

Client ID: 4103-SW5 **Lab ID: C512359-05** **Sampled: 10/07/15 12:45** **Received: 10/08/15 14:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/04/16	10/13/15 14:22	10/15/2015 12:02
EPA 6020A	04/04/16	10/13/15 14:32	10/15/2015 14:54
EPA 8260B	10/21/15	10/15/15 10:29	10/15/2015 18:23

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 4103-SW1 **Lab ID: C512359-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.268	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	85.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	0.784	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	7.93	J	1	1.40	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	4.34	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	11.3		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	7.02	J	1	3.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	3.16	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	18.2	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	117		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4103-SW2 **Lab ID: C512359-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	46.2	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Vanadium - Total	2.91	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	7.88	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4103-SW3 **Lab ID: C512359-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.372	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	28.3	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Bromodichloromethane	0.96	J	1	0.17	1.0	1	ug/L	EPA 8260B	
Chloroform	2.4	J	1	0.18	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	2.43	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	2.65	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	6.56	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Silver - Total	2.74	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	3.69	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	25.2		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4103-SW4 **Lab ID: C512359-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.259	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	319		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	1.50		1	0.100	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	5.66		1	0.360	1.00	1	ug/L	EPA 6010C	
Chloroform	0.92	J	1	0.18	1.0	5	ug/L	EPA 8260B	
Chromium - Total	66.1		1	1.40	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	46.5		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	57.1		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	93.2		1	3.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	22.0	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	61.8		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	1020		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4103-SW5 **Lab ID: C512359-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	41.0	J	1	1.00	10.0	100	ug/L	EPA 6010C	

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Client ID: 4103-SW5								Lab ID: C512359-05	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Chloroform	1.0	J	1	0.18	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	1.92	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	2.17	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	3.14	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Silver - Total	2.32	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	3.05	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	24.5		1	3.80	10.0	10	ug/L	EPA 6010C	

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ANALYTICAL RESULTS

Description: 4103-SW1 **Lab Sample ID:** C512359-01 **Received:** 10/08/15 14:00

Matrix: Surface Water **Sampled:** 10/07/15 14:00 **Work Order:** C512359

Project: White Street Landfill Surface Waters **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/15/15 16:28	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/15/15 16:28	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/15/15 16:28	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/15/15 16:28	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/15/15 16:28	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/15/15 16:28	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/15/15 16:28	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/15/15 16:28	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/15/15 16:28	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/15/15 16:28	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/15/15 16:28	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/15/15 16:28	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/15/15 16:28	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/15/15 16:28	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/15/15 16:28	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/15/15 16:28	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/15/15 16:28	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/15/15 16:28	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/15 16:28	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/15/15 16:28	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/15 16:28	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/15/15 16:28	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/15/15 16:28	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/15/15 16:28	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/15 16:28	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/15/15 16:28	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/15/15 16:28	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/15/15 16:28	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/15/15 16:28	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/15/15 16:28	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/15/15 16:28	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/15/15 16:28	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/15/15 16:28	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/15/15 16:28	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/15/15 16:28	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/15/15 16:28	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/15/15 16:28	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/15 16:28	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/15/15 16:28	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/15/15 16:28	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/15 16:28	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/15/15 16:28	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/15 16:28	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/15/15 16:28	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/15/15 16:28	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/15/15 16:28	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/15/15 16:28	MSZ	

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Description:	4103-SW1	**Lab Sample ID:**	C512359-01	**Received:**	10/08/15 14:00
Matrix:	Surface Water	**Sampled:**	10/07/15 14:00	**Work Order:**	C512359
Project:	White Street Landfill Surface Waters	**Sampled By:**	Gary Simcox		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*48*	*1*	*50.0*	*96 %*	*53-136*	*5J15019*	*EPA 8260B*	*10/15/15 16:28*	*MSZ*	
Dibromofluoromethane	*56*	*1*	*50.0*	*113 %*	*67-129*	*5J15019*	*EPA 8260B*	*10/15/15 16:28*	*MSZ*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*59-134*	*5J15019*	*EPA 8260B*	*10/15/15 16:28*	*MSZ*	

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Description: 4103-SW1 | **Lab Sample ID:** C512359-01 | **Received:** 10/08/15 14:00

Matrix: Surface Water | **Sampled:** 10/07/15 14:00 | **Work Order:** C512359

Project: White Street Landfill Surface Waters | **Sampled By:** Gary Simcox

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.268**	J	ug/L	1	0.220	2.00	6	EPA 6020A	10/15/15 14:28	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	10/15/15 11:39	JDH	
Barium [7440-39-3] ^	**85.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	10/15/15 11:39	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/15/15 11:39	JDH	
Cadmium [7440-43-9] ^	**0.784**	J	ug/L	1	0.360	1.00	1	EPA 6010C	10/15/15 11:39	JDH	
Chromium [7440-47-3] ^	**7.93**	J	ug/L	1	1.40	10.0	10	EPA 6010C	10/15/15 11:39	JDH	
Cobalt [7440-48-4] ^	**4.34**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/15/15 11:39	JDH	
Copper [7440-50-8] ^	**11.3**		ug/L	1	1.60	10.0	10	EPA 6010C	10/15/15 11:39	JDH	
Lead [7439-92-1] ^	**7.02**	J	ug/L	1	3.10	10.0	10	EPA 6010C	10/15/15 11:39	JDH	
Nickel [7440-02-0] ^	**3.16**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/15/15 11:39	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/15/15 14:28	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/15/15 11:39	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/15/15 14:28	VLO	
Vanadium [7440-62-2] ^	**18.2**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/15/15 11:39	JDH	
Zinc [7440-66-6] ^	**117**		ug/L	1	3.80	10.0	10	EPA 6010C	10/15/15 11:39	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-SW2 | **Lab Sample ID:** C512359-02 | **Received:** 10/08/15 14:00

Matrix: Surface Water | **Sampled:** 10/07/15 13:20 | **Work Order:** C512359

Project: White Street Landfill Surface Waters | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/15/15 16:57	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/15/15 16:57	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/15/15 16:57	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/15/15 16:57	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/15/15 16:57	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/15/15 16:57	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/15/15 16:57	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/15/15 16:57	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/15/15 16:57	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/15/15 16:57	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/15/15 16:57	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/15/15 16:57	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/15/15 16:57	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/15/15 16:57	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/15/15 16:57	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/15/15 16:57	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/15/15 16:57	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/15/15 16:57	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/15 16:57	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/15/15 16:57	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/15 16:57	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/15/15 16:57	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/15/15 16:57	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/15/15 16:57	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/15 16:57	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/15/15 16:57	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/15/15 16:57	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/15/15 16:57	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/15/15 16:57	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/15/15 16:57	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/15/15 16:57	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/15/15 16:57	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/15/15 16:57	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/15/15 16:57	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/15/15 16:57	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/15/15 16:57	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/15/15 16:57	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/15 16:57	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/15/15 16:57	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/15/15 16:57	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/15 16:57	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/15/15 16:57	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/15 16:57	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/15/15 16:57	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/15/15 16:57	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/15/15 16:57	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/15/15 16:57	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*96 %*	*53-136*	*5J15019*	*EPA 8260B*	*10/15/15 16:57*	*MSZ*	
Dibromofluoromethane	*57*	*1*	*50.0*	*115 %*	*67-129*	*5J15019*	*EPA 8260B*	*10/15/15 16:57*	*MSZ*	

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Description:	4103-SW2	**Lab Sample ID:**	C512359-02	**Received:**	10/08/15 14:00
Matrix:	Surface Water	**Sampled:**	10/07/15 13:20	**Work Order:**	C512359
Project:	White Street Landfill Surface Waters	**Sampled By:**	Gary Simcox		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*59-134*	*5J15019*	*EPA 8260B*	*10/15/15 16:57*	*MSZ*	

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Description: 4103-SW2 | **Lab Sample ID:** C512359-02 | **Received:** 10/08/15 14:00

Matrix: Surface Water | **Sampled:** 10/07/15 13:20 | **Work Order:** C512359

Project: White Street Landfill Surface Waters | **Sampled By:** Gary Simcox

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/15/15 14:32	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	10/15/15 11:42	JDH	
Barium [7440-39-3] ^	**46.2**	J	ug/L	1	1.00	10.0	100	EPA 6010C	10/15/15 11:42	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/15/15 11:42	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/15/15 11:42	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	10/15/15 11:42	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	10/15/15 11:42	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/15/15 11:42	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	10/15/15 11:42	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	10/15/15 11:42	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/15/15 14:32	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/15/15 11:42	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/15/15 14:32	VLO	
Vanadium [7440-62-2] ^	**2.91**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/15/15 11:42	JDH	
Zinc [7440-66-6] ^	**7.88**	J	ug/L	1	3.80	10.0	10	EPA 6010C	10/15/15 11:42	JDH	

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Description: 4103-SW3 | **Lab Sample ID:** C512359-03 | **Received:** 10/08/15 14:00

Matrix: Surface Water | **Sampled:** 10/07/15 15:45 | **Work Order:** C512359

Project: White Street Landfill Surface Waters | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/15/15 17:25	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/15/15 17:25	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/15/15 17:25	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/15/15 17:25	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/15/15 17:25	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/15/15 17:25	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/15/15 17:25	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/15/15 17:25	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/15/15 17:25	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/15/15 17:25	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/15/15 17:25	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/15/15 17:25	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/15/15 17:25	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/15/15 17:25	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/15/15 17:25	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/15/15 17:25	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/15/15 17:25	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/15/15 17:25	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/15 17:25	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/15/15 17:25	MSZ	
Bromodichloromethane [75-27-4] ^	**0.96**	J	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/15 17:25	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/15/15 17:25	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/15/15 17:25	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/15/15 17:25	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/15 17:25	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/15/15 17:25	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/15/15 17:25	MSZ	
Chloroform [67-66-3] ^	**2.4**	J	ug/L	1	0.18	1.0	5	EPA 8260B	10/15/15 17:25	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/15/15 17:25	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/15/15 17:25	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/15/15 17:25	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/15/15 17:25	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/15/15 17:25	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/15/15 17:25	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/15/15 17:25	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/15/15 17:25	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/15/15 17:25	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/15 17:25	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/15/15 17:25	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/15/15 17:25	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/15 17:25	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/15/15 17:25	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/15 17:25	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/15/15 17:25	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/15/15 17:25	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/15/15 17:25	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/15/15 17:25	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*93 %*	*53-136*	*5J15019*	*EPA 8260B*	*10/15/15 17:25*	*MSZ*	
Dibromofluoromethane	*57*	*1*	*50.0*	*114 %*	*67-129*	*5J15019*	*EPA 8260B*	*10/15/15 17:25*	*MSZ*	

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Description:	4103-SW3	**Lab Sample ID:**	C512359-03	**Received:**	10/08/15 14:00
Matrix:	Surface Water	**Sampled:**	10/07/15 15:45	**Work Order:**	C512359
Project:	White Street Landfill Surface Waters	**Sampled By:**	Gary Simcox		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
Toluene-d8	*49*	*1*	*50.0*	*98 %*	*59-134*	*5J15019*	*EPA 8260B*	*10/15/15 17:25*	*MSZ*	

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Description: 4103-SW3 | **Lab Sample ID:** C512359-03 | **Received:** 10/08/15 14:00

Matrix: Surface Water | **Sampled:** 10/07/15 15:45 | **Work Order:** C512359

Project: White Street Landfill Surface Waters | **Sampled By:** Gary Simcox

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.372**	J	ug/L	1	0.220	2.00	6	EPA 6020A	10/15/15 14:47	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	10/15/15 11:57	JDH	
Barium [7440-39-3] ^	**28.3**	J	ug/L	1	1.00	10.0	100	EPA 6010C	10/15/15 11:57	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/15/15 11:57	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/15/15 11:57	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	10/15/15 11:57	JDH	
Cobalt [7440-48-4] ^	**2.43**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/15/15 11:57	JDH	
Copper [7440-50-8] ^	**2.65**	J	ug/L	1	1.60	10.0	10	EPA 6010C	10/15/15 11:57	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	10/15/15 11:57	JDH	
Nickel [7440-02-0] ^	**6.56**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/15/15 11:57	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/15/15 14:47	VLO	
Silver [7440-22-4] ^	**2.74**	J	ug/L	1	1.90	10.0	10	EPA 6010C	10/15/15 11:57	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/15/15 14:47	VLO	
Vanadium [7440-62-2] ^	**3.69**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/15/15 11:57	JDH	
Zinc [7440-66-6] ^	**25.2**		ug/L	1	3.80	10.0	10	EPA 6010C	10/15/15 11:57	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-SW4 | **Lab Sample ID:** C512359-04 | **Received:** 10/08/15 14:00

Matrix: Surface Water | **Sampled:** 10/07/15 14:45 | **Work Order:** C512359

Project: White Street Landfill Surface Waters | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/15/15 17:54	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/15/15 17:54	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/15/15 17:54	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/15/15 17:54	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/15/15 17:54	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/15/15 17:54	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/15/15 17:54	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/15/15 17:54	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/15/15 17:54	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/15/15 17:54	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/15/15 17:54	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/15/15 17:54	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/15/15 17:54	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/15/15 17:54	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/15/15 17:54	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/15/15 17:54	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/15/15 17:54	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/15/15 17:54	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/15 17:54	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/15/15 17:54	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/15 17:54	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/15/15 17:54	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/15/15 17:54	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/15/15 17:54	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/15 17:54	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/15/15 17:54	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/15/15 17:54	MSZ	
Chloroform [67-66-3] ^	**0.92**	J	ug/L	1	0.18	1.0	5	EPA 8260B	10/15/15 17:54	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/15/15 17:54	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/15/15 17:54	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/15/15 17:54	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/15/15 17:54	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/15/15 17:54	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/15/15 17:54	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/15/15 17:54	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/15/15 17:54	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/15/15 17:54	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/15 17:54	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/15/15 17:54	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/15/15 17:54	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/15 17:54	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/15/15 17:54	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/15 17:54	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/15/15 17:54	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/15/15 17:54	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/15/15 17:54	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/15/15 17:54	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*53-136*	*5J15019*	*EPA 8260B*	*10/15/15 17:54*	*MSZ*	
Dibromofluoromethane	*59*	*1*	*50.0*	*117 %*	*67-129*	*5J15019*	*EPA 8260B*	*10/15/15 17:54*	*MSZ*	

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Description:	4103-SW4	**Lab Sample ID:**	C512359-04	**Received:**	10/08/15 14:00
Matrix:	Surface Water	**Sampled:**	10/07/15 14:45	**Work Order:**	C512359
Project:	White Street Landfill Surface Waters	**Sampled By:**	Gary Simcox		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
Toluene-d8	*49*	*1*	*50.0*	*98 %*	*59-134*	*5J15019*	*EPA 8260B*	*10/15/15 17:54*	*MSZ*	

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Description: 4103-SW4 | **Lab Sample ID:** C512359-04 | **Received:** 10/08/15 14:00

Matrix: Surface Water | **Sampled:** 10/07/15 14:45 | **Work Order:** C512359

Project: White Street Landfill Surface Waters | **Sampled By:** Gary Simcox

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.259**	J	ug/L	1	0.220	2.00	6	EPA 6020A	10/15/15 14:50	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	10/15/15 11:59	JDH	
Barium [7440-39-3] ^	**319**		ug/L	1	1.00	10.0	100	EPA 6010C	10/15/15 11:59	JDH	
Beryllium [7440-41-7] ^	**1.50**		ug/L	1	0.100	1.00	1	EPA 6010C	10/15/15 11:59	JDH	
Cadmium [7440-43-9] ^	**5.66**		ug/L	1	0.360	1.00	1	EPA 6010C	10/15/15 11:59	JDH	
Chromium [7440-47-3] ^	**66.1**		ug/L	1	1.40	10.0	10	EPA 6010C	10/15/15 11:59	JDH	
Cobalt [7440-48-4] ^	**46.5**		ug/L	1	1.10	10.0	10	EPA 6010C	10/15/15 11:59	JDH	
Copper [7440-50-8] ^	**57.1**		ug/L	1	1.60	10.0	10	EPA 6010C	10/15/15 11:59	JDH	
Lead [7439-92-1] ^	**93.2**		ug/L	1	3.10	10.0	10	EPA 6010C	10/15/15 11:59	JDH	
Nickel [7440-02-0] ^	**22.0**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/15/15 11:59	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/15/15 14:50	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/15/15 11:59	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/15/15 14:50	VLO	
Vanadium [7440-62-2] ^	**61.8**		ug/L	1	1.40	10.0	25	EPA 6010C	10/15/15 11:59	JDH	
Zinc [7440-66-6] ^	**1020**		ug/L	1	3.80	10.0	10	EPA 6010C	10/15/15 11:59	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-SW5 | **Lab Sample ID:** C512359-05 | **Received:** 10/08/15 14:00

Matrix: Surface Water | **Sampled:** 10/07/15 12:45 | **Work Order:** C512359

Project: White Street Landfill Surface Waters | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/15/15 18:23	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/15/15 18:23	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/15/15 18:23	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/15/15 18:23	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/15/15 18:23	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/15/15 18:23	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/15/15 18:23	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/15/15 18:23	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/15/15 18:23	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/15/15 18:23	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/15/15 18:23	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/15/15 18:23	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/15/15 18:23	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/15/15 18:23	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/15/15 18:23	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/15/15 18:23	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/15/15 18:23	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/15/15 18:23	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/15 18:23	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/15/15 18:23	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/15 18:23	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/15/15 18:23	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/15/15 18:23	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/15/15 18:23	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/15 18:23	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/15/15 18:23	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/15/15 18:23	MSZ	
Chloroform [67-66-3] ^	**1.0**	J	ug/L	1	0.18	1.0	5	EPA 8260B	10/15/15 18:23	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/15/15 18:23	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/15/15 18:23	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/15/15 18:23	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/15/15 18:23	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/15/15 18:23	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/15/15 18:23	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/15/15 18:23	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/15/15 18:23	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/15/15 18:23	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/15 18:23	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/15/15 18:23	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/15/15 18:23	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/15 18:23	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/15/15 18:23	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/15 18:23	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/15/15 18:23	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/15/15 18:23	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/15/15 18:23	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/15/15 18:23	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*95 %*	*53-136*	*5J15019*	*EPA 8260B*	*10/15/15 18:23*	*MSZ*	
Dibromofluoromethane	*58*	*1*	*50.0*	*115 %*	*67-129*	*5J15019*	*EPA 8260B*	*10/15/15 18:23*	*MSZ*	

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Description:	4103-SW5	**Lab Sample ID:**	C512359-05	**Received:**	10/08/15 14:00
Matrix:	Surface Water	**Sampled:**	10/07/15 12:45	**Work Order:**	C512359
Project:	White Street Landfill Surface Waters	**Sampled By:**	Gary Simcox		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
Toluene-d8	*49*	*1*	*50.0*	*99 %*	*59-134*	*5J15019*	*EPA 8260B*	*10/15/15 18:23*	*MSZ*	

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Description: 4103-SW5 | **Lab Sample ID:** C512359-05 | **Received:** 10/08/15 14:00

Matrix: Surface Water | **Sampled:** 10/07/15 12:45 | **Work Order:** C512359

Project: White Street Landfill Surface Waters | **Sampled By:** Gary Simcox

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/15/15 14:54	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	10/15/15 12:02	JDH	
Barium [7440-39-3] ^	**41.0**	J	ug/L	1	1.00	10.0	100	EPA 6010C	10/15/15 12:02	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/15/15 12:02	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/15/15 12:02	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	10/15/15 12:02	JDH	
Cobalt [7440-48-4] ^	**1.92**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/15/15 12:02	JDH	
Copper [7440-50-8] ^	**2.17**	J	ug/L	1	1.60	10.0	10	EPA 6010C	10/15/15 12:02	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	10/15/15 12:02	JDH	
Nickel [7440-02-0] ^	**3.14**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/15/15 12:02	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/15/15 14:54	VLO	
Silver [7440-22-4] ^	**2.32**	J	ug/L	1	1.90	10.0	10	EPA 6010C	10/15/15 12:02	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/15/15 14:54	VLO	
Vanadium [7440-62-2] ^	**3.05**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/15/15 12:02	JDH	
Zinc [7440-66-6] ^	**24.5**		ug/L	1	3.80	10.0	10	EPA 6010C	10/15/15 12:02	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5J15019 - EPA 5030B_MS

Blank (5J15019-BLK1) Prepared: 10/15/2015 10:29 Analyzed: 10/15/2015 10:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*96*	*53-136*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5J15019 - EPA 5030B_MS

Blank (5J15019-BLK1) Continued Prepared: 10/15/2015 10:29 Analyzed: 10/15/2015 10:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*57*			*ug/L*	*50.0*		*115*	*67-129*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*98*	*59-134*			

LCS (5J15019-BS1) Prepared: 10/15/2015 10:29 Analyzed: 10/15/2015 11:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0		109	75-133			
Benzene	20		1.0	ug/L	20.0		101	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		94	83-117			
Toluene	20		1.0	ug/L	20.0		102	71-118			
Trichloroethene	18		1.0	ug/L	20.0		90	74-119			

Matrix Spike (5J15019-MS1) Prepared: 10/15/2015 10:29 Analyzed: 10/15/2015 11:41

Source: C512539-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	26		1.0	ug/L	20.0	0.21 U	128	75-133			
Benzene	23		1.0	ug/L	20.0	0.15 U	114	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	105	83-117			
Toluene	23		1.0	ug/L	20.0	0.14 U	113	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	104	74-119			

Matrix Spike Dup (5J15019-MSD1) Prepared: 10/15/2015 10:29 Analyzed: 10/15/2015 12:10

Source: C512539-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	25		1.0	ug/L	20.0	0.21 U	126	75-133	2	20	
Benzene	23		1.0	ug/L	20.0	0.15 U	113	81-134	0.9	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	102	83-117	4	16	
Toluene	23		1.0	ug/L	20.0	0.14 U	114	71-118	0.8	17	
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	104	74-119	0.4	22	

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 5J13022 - EPA 3005A

Blank (5J13022-BLK1) Prepared: 10/13/2015 14:22 Analyzed: 10/15/2015 10:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	6.80	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.40	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	3.10	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 5J13022 - EPA 3005A

Blank (5J13022-BLK1) Continued Prepared: 10/13/2015 14:22 Analyzed: 10/15/2015 10:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Silver	1.90	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (5J13022-BS1) Prepared: 10/13/2015 14:22 Analyzed: 10/15/2015 10:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	203		10.0	ug/L	200		102	80-120			
Barium	200		10.0	ug/L	200		100	80-120			
Beryllium	19.5		1.00	ug/L	20.0		97	80-120			
Cadmium	20.8		1.00	ug/L	20.0		104	80-120			
Chromium	196		10.0	ug/L	200		98	80-120			
Cobalt	200		10.0	ug/L	200		100	80-120			
Copper	192		10.0	ug/L	200		96	80-120			
Lead	204		10.0	ug/L	200		102	80-120			
Nickel	201		10.0	ug/L	200		100	80-120			
Silver	195		10.0	ug/L	200		97	80-120			
Vanadium	189		10.0	ug/L	200		94	80-120			
Zinc	202		10.0	ug/L	200		101	80-120			

Matrix Spike (5J13022-MS1) Prepared: 10/13/2015 14:22 Analyzed: 10/15/2015 10:47

Source: C512216-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	199		10.0	ug/L	200	6.80 U	99	75-125			
Barium	229		10.0	ug/L	200	27.3	101	75-125			
Beryllium	19.9		1.00	ug/L	20.0	0.100 U	99	75-125			
Cadmium	20.4		1.00	ug/L	20.0	0.360 U	102	75-125			
Chromium	199		10.0	ug/L	200	1.40 U	100	75-125			
Cobalt	201		10.0	ug/L	200	3.49	99	75-125			
Copper	194		10.0	ug/L	200	1.60 U	97	75-125			
Lead	200		10.0	ug/L	200	3.10 U	100	75-125			
Nickel	203		10.0	ug/L	200	1.80 U	102	75-125			
Silver	194		10.0	ug/L	200	1.90 U	97	75-125			
Vanadium	197		10.0	ug/L	200	6.92	95	75-125			
Zinc	214		10.0	ug/L	200	8.60	103	75-125			

Matrix Spike Dup (5J13022-MSD1) Prepared: 10/13/2015 14:22 Analyzed: 10/15/2015 10:49

Source: C512216-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	208		10.0	ug/L	200	6.80 U	104	75-125	4	20	
Barium	230		10.0	ug/L	200	27.3	101	75-125	0.5	20	
Beryllium	20.3		1.00	ug/L	20.0	0.100 U	102	75-125	2	20	
Cadmium	21.8		1.00	ug/L	20.0	0.360 U	109	75-125	7	20	
Chromium	202		10.0	ug/L	200	1.40 U	101	75-125	1	20	
Cobalt	211		10.0	ug/L	200	3.49	104	75-125	5	20	

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 5J13022 - EPA 3005A

Matrix Spike Dup (5J13022-MSD1) Continued Prepared: 10/13/2015 14:22 Analyzed: 10/15/2015 10:49

Source: C512216-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Copper	195		10.0	ug/L	200	1.60 U	97	75-125	0.4	20	
Lead	213		10.0	ug/L	200	3.10 U	107	75-125	6	20	
Nickel	207		10.0	ug/L	200	1.80 U	103	75-125	2	20	
Silver	196		10.0	ug/L	200	1.90 U	98	75-125	0.8	20	
Vanadium	200		10.0	ug/L	200	6.92	96	75-125	1	20	
Zinc	219		10.0	ug/L	200	8.60	105	75-125	2	20	

Post Spike (5J13022-PS1) Prepared: 10/13/2015 14:22 Analyzed: 10/15/2015 10:52

Source: C512216-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.202		0.0100	mg/L	0.200	-0.000907	101	80-120			
Barium	0.229		0.0100	mg/L	0.200	0.0273	101	80-120			
Beryllium	0.0189		0.00100	mg/L	0.0200	4.77E-5	94	80-120			
Cadmium	0.0204		0.00100	mg/L	0.0200	6.08E-5	102	80-120			
Chromium	0.189		0.0100	mg/L	0.200	0.000678	94	80-120			
Cobalt	0.198		0.0100	mg/L	0.200	0.00349	97	80-120			
Copper	0.183		0.0100	mg/L	0.200	0.00118	91	80-120			
Lead	0.199		0.0100	mg/L	0.200	0.00186	98	80-120			
Nickel	0.193		0.0100	mg/L	0.200	0.00148	96	80-120			
Silver	0.170		0.0100	mg/L	0.200	0.000990	85	80-120			
Vanadium	0.187		0.0100	mg/L	0.200	0.00692	90	80-120			
Zinc	0.210		0.0100	mg/L	0.200	0.00860	101	80-120			

Batch 5J13026 - EPA 3005A

Blank (5J13026-BLK1) Prepared: 10/13/2015 14:32 Analyzed: 10/15/2015 13:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Selenium	0.910	U	3.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (5J13026-BS1) Prepared: 10/13/2015 14:32 Analyzed: 10/15/2015 13:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	196		2.00	ug/L	200		98	80-120			
Selenium	208		3.00	ug/L	200		104	80-120			
Thallium	213		1.00	ug/L	200		106	80-120			

Matrix Spike (5J13026-MS1) Prepared: 10/13/2015 14:32 Analyzed: 10/15/2015 13:44

Source: C512354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	190		2.00	ug/L	200	2.43	94	75-125			
Selenium	216		3.00	ug/L	200	0.910 U	108	75-125			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 5J13026 - EPA 3005A

Matrix Spike (5J13026-MS1) Continued Prepared: 10/13/2015 14:32 Analyzed: 10/15/2015 13:44

Source: C512354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Thallium	204		1.00	ug/L	200	0.110 U	102	75-125			

Matrix Spike Dup (5J13026-MSD1) Prepared: 10/13/2015 14:32 Analyzed: 10/15/2015 13:59

Source: C512354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	190		2.00	ug/L	200	2.43	94	75-125	0.04	20	
Selenium	210		3.00	ug/L	200	0.910 U	105	75-125	3	20	
Thallium	202		1.00	ug/L	200	0.110 U	101	75-125	1	20	

Post Spike (5J13026-PS1) Prepared: 10/13/2015 14:32 Analyzed: 10/15/2015 14:03

Source: C512354-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	199		2.00	ug/L	200	2.43	98	80-120			
Selenium	226		3.00	ug/L	200	0.192	113	80-120			
Thallium	209		1.00	ug/L	200	0.0840	105	80-120			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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Orlando, FL 32824
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102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

www.encolabs.com

Client Name: City of Greensboro (CI034)	Project Number: [none]
Address: 2503 White Street	Project Name/Desc: White Street Landfill Surface Waters
City/ST/Zip: Greensboro, NC 27405	PO # / Billing Info:
Tel: (336) 373-4188 / Fax:	Reporting Contact: Lewis Walker
Sampler(s) Name, Affiliation (Print): Gary Simcox / S&ME, Inc.	Billing Contact: Angie Wade
Sampler(s) Signature:	Site Location / Time Zone:

Requested Analyses: 8260B Appendix 1; Ag As Ba Be Co Cr Cu Ni Pb Sb Se Tl V Zn

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

☒ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C512359

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Ag As Ba Be Co Cr Cu Ni Pb Sb Se Tl V Zn								Sample Comments
	4103-SW1	10/7/15	1400	G	SW	4	X	X								
	4103-SW2	10/7/15	1320	G	SW	4	X	X								
	4103-SW3	10/7/15	1545	G	SW	4	X	X								
	4103-SW4	10/7/15	1445	G	SW	4	X	X								
	4103-SW5	10/7/15	1245	G	SW	4	X	X								

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time 10/7/15 1400	Received By	Date/Time 10/7/15 1400
Comments/Special Reporting Requirements		Relinquished By	Date/Time 10/8/15 1207	Received By	Date/Time 12:15 10/8/15
		Relinquished By	Date/Time 2:00 10/8/15	Received By	Date/Time 10/8/15 1400
		Cooler #'s & Temps on Receipt: C-22	2.3°C	Condition Upon Receipt: ☒ Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

Sample Preservation Verification

ENCO Cary

Work Order:	C512359	Project:	White Street Landfill Surface Waters
Client:	City of Greensboro (CI034)	Project #:	[none]
Logged In:	08-Oct-15 15:51	Logged By:	Andrew S Coons

C512359-01

Cont	Type	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
A	250mLP+HNO3	<2	Y / N / NA	Y / N / NA		

C512359-02

Cont	Type	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
A	250mLP+HNO3	<2	Y / N / NA	Y / N / NA		

C512359-03

Cont	Type	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
A	250mLP+HNO3	<2	Y / N / NA	Y / N / NA		

C512359-04

Cont	Type	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
A	250mLP+HNO3	<2	Y / N / NA	Y / N / NA		

C512359-05

Cont	Type	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
A	250mLP+HNO3	<2	Y / N / NA	Y / N / NA		

	Reagent Name	ID		Reagent Name	ID		Reagent Name	ID
1			3			5		
2			4			6		

Appendix III – Descriptive Statistics

Basic Statistics

Parameter: Benzene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements	607
Total Non-Detects	537 (88.4679%)
Pooled Mean	3.39748
Pooled Std Dev	2.08824
Compliance Meas.	508
Compliance Mean	3.43669
Compliance Std Dev	2.08999
Background Meas.	99
Background Mean	3.19626
Background Std Dev	2.07815

Background Locations

There are 5 background location

Location	Meas.	Non-Detects	% ND	Total
MW-13	48	47	97.9167	162
MW-14	45	44	97.7778	151.85
SMW-1	2	2	100	0.86
SMW-3	2	2	100	0.86
SMW-4	2	2	100	0.86

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-13	3.375	2.03577	0	13189	274.771
MW-14	3.37444	2.01755	0	12383	275.178
SMW-1	0.43	0.39598	0	538	269
SMW-3	0.43	0.39598	0	538	269
SMW-4	0.43	0.39598	0	538	269

Compliance Locations

There are 15 compliance location

Location	Obs.	Non-Detects	% ND	Total
II-1	50	33	66	175.85
II-2	50	42	84	175.01
II-3	50	36	72	174.78
II-4	49	44	89.7959	167.13
II-5	49	48	97.9592	167
II-8	48	48	100	162.3
I-5	30	30	100	142
II-6	46	35	76.087	162.15
II-7	47	38	80.8511	177.76
II-7B	34	33	97.0588	92
II-12	24	23	95.8333	50
II-9	24	23	95.8333	86.56
II-10	1	1	100	5
II-11	1	1	100	5
II-3B	5	5	100	3.3

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
II-1	3.517	2.01012	0.320737	0.352664	18564	371.28
II-2	3.5002	1.95457	0.303937	0.352664	15907	318.14
II-3	3.4956	1.94706	0.299337	0.352664	17650	353
II-4	3.41082	2.02059	0.214554	0.355047	14575	297.449
II-5	3.40816	2.02778	0.211901	0.355047	13466	274.816
II-8	3.38125	2.02783	0.184987	0.357513	12912	269
I-5	4.73333	1.01483	1.53707	0.423631	8070	269
II-6	3.525	1.83935	0.328737	0.362709	15904	345.739
II-7	3.78213	2.90689	0.585865	0.360065	15486	329.489
II-7B	2.70588	2.07871	-0.49038	0.404054	9434	277.471
II-12	2.08333	1.92657	-1.11293	0.462488	6745	281.042
II-9	3.60667	2.01972	0.410404	0.462488	6746	281.083
II-10	5	0	1.80374	2.04293	269	269
II-11	5	0	1.80374	2.04293	269	269
II-3B	0.66	0.465564	-2.53626	0.931719	1345	269

Analysis of Variance Statistics

Basic Statistics

Parameter: Carbon tetrachloride

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Measurements	590
Total Non-Detects	589 (99.8305%)
Pooled Mean	8.69664
Pooled Std Dev	3.20388
Compliance Meas.	496
Compliance Mean	8.71036
Compliance Std Dev	3.18672
Background Meas.	94
Background Mean	8.62426
Background Std Dev	3.30949

Background Locations

There are 5 background location

Location	Meas.	Non-Detects	% ND	Total
MW-13	47	47	100	415.17
MW-14	44	44	100	395
SMW-1	1	1	100	0.17
SMW-3	1	1	100	0.17
SMW-4	1	1	100	0.17

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-13	8.8334	3.08455	0	13865	295
MW-14	8.97727	2.88934	0	12980	295
SMW-1	0.17	0	0	295	295
SMW-3	0.17	0	0	295	295
SMW-4	0.17	0	0	295	295

Compliance Locations

There are 15 compliance location

Location	Obs.	Non-Detects	% ND	Total
II-1	49	48	97.9592	435.47
II-2	49	49	100	435.17
II-3	49	49	100	435.17
II-4	48	48	100	425.17
II-5	48	48	100	425.17
II-8	47	47	100	415.17
I-5	30	30	100	300
II-6	45	45	100	395.17
II-7	46	46	100	405.17
II-7B	33	33	100	275.17
II-12	23	23	100	175.17
II-9	23	23	100	175.17
II-10	1	1	100	10
II-11	1	1	100	10
II-3B	4	4	100	3.17

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
II-1	8.88714	3.01087	0.262888	0.544936	14750	301.02
II-2	8.88102	3.0286	0.256765	0.544936	14455	295
II-3	8.88102	3.0286	0.256765	0.544936	14455	295
II-4	8.85771	3.0562	0.233453	0.548654	14160	295
II-5	8.85771	3.0562	0.233453	0.548654	14160	295
II-8	8.8334	3.08455	0.209149	0.552505	13865	295
I-5	10	0	1.37574	0.648523	8850	295
II-6	8.78156	3.14361	0.1573	0.56063	13275	295
II-7	8.80804	3.11368	0.183788	0.556494	13570	295
II-7B	8.33848	3.58176	-0.28577	0.625778	9735	295
II-12	7.61609	4.10609	-1.00817	0.719456	6785	295
II-9	7.61609	4.10609	-1.00817	0.719456	6785	295
II-10	10	0	1.37574	3.10912	295	295
II-11	10	0	1.37574	3.10912	295	295
II-3B	0.7925	0.415	-7.83176	1.57891	1180	295

Analysis of Variance Statistics

Basic Statistics

Parameter: Chlorobenzene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Measurements	607
Total Non-Detects	527 (86.8204%)
Pooled Mean	3.96883
Pooled Std Dev	1.45173
Compliance Meas.	508
Compliance Mean	3.99193
Compliance Std Dev	1.44007
Background Meas.	99
Background Mean	3.8503
Background Std Dev	1.51209

Background Locations

There are 5 background location

Location	Meas.	Non-Detects	% ND	Total
MW-13	48	47	97.9167	194.34
MW-14	45	44	97.7778	184.17
SMW-1	2	2	100	0.89
SMW-3	2	2	100	0.89
SMW-4	2	2	100	0.89

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-13	4.04875	1.33068	0	12957	269.938
MW-14	4.09267	1.22736	0	12166	270.356
SMW-1	0.445	0.388909	0	528	264
SMW-3	0.445	0.388909	0	528	264
SMW-4	0.445	0.388909	0	528	264

Compliance Locations

There are 15 compliance location

Location	Obs.	Non-Detects	% ND	Total
II-1	50	34	68	203.8
II-2	50	34	68	173
II-3	50	48	96	203.32
II-4	49	40	81.6327	194.41
II-5	49	48	97.9592	200.87
II-8	48	32	66.6667	188.9
I-5	30	30	100	146
II-6	46	34	73.913	206.71
II-7	47	46	97.8723	190.87
II-7B	34	33	97.0588	125.87
II-12	24	23	95.8333	78.34
II-9	24	21	87.5	94.94
II-10	1	1	100	5
II-11	1	1	100	5
II-3B	5	5	100	10.87

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
II-1	4.076	1.33364	0.225697	0.239324	18249	364.98
II-2	3.46	2.03875	-0.390303	0.239324	17636	352.72
II-3	4.0664	1.33509	0.216097	0.239324	13756	275.12
II-4	3.96755	1.43675	0.117248	0.240941	15624	318.857
II-5	4.09939	1.24562	0.249085	0.240941	13229	269.98
II-8	3.93542	1.35325	0.0851136	0.242614	17691	368.563
I-5	4.86667	0.507416	1.01636	0.287483	7920	264
II-6	4.4937	1.30531	0.643393	0.246141	16084	349.652
II-7	4.06106	1.25788	0.210761	0.244346	12703	270.277
II-7B	3.70206	1.31357	-0.148244	0.274198	9272	272.706
II-12	3.26417	1.41948	-0.586136	0.313852	6633	276.375
II-9	3.95583	1.65103	0.10553	0.313852	7176	299
II-10	5	0	1.1497	1.38637	264	264
II-11	5	0	1.1497	1.38637	264	264
II-3B	2.174	1.25375	-1.6763	0.632281	1320	264

Analysis of Variance Statistics

Basic Statistics

Parameter: Chloroethane

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements	590
Total Non-Detects	537 (91.0169%)
Pooled Mean	11.1292
Pooled Std Dev	13.2931
Compliance Meas.	496
Compliance Mean	11.422
Compliance Std Dev	14.4564
Background Meas.	94
Background Mean	9.58426
Background Std Dev	1.98262

Background Locations

There are 5 background location

Location	Meas.	Non-Detects	% ND	Total
MW-13	47	47	100	460.23
MW-14	44	44	100	440
SMW-1	1	1	100	0.23
SMW-3	1	1	100	0.23
SMW-4	1	1	100	0.23

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-13	9.79213	1.4251	0	12643	269
MW-14	10	0	0	11836	269
SMW-1	0.23	0	0	269	269
SMW-3	0.23	0	0	269	269
SMW-4	0.23	0	0	269	269

Compliance Locations

There are 15 compliance location

Location	Obs.	Non-Detects	% ND	Total
II-1	49	31	63.2653	1148.09
II-2	49	46	93.8776	451.88
II-3	49	42	85.7143	433.2
II-4	48	45	93.75	452.71
II-5	48	48	100	461.23
II-8	47	43	91.4894	424.93
I-5	30	27	90	305
II-6	45	37	82.2222	581.23
II-7	46	39	84.7826	605.13
II-7B	33	33	100	320.23
II-12	23	23	100	220.23
II-9	23	23	100	211.23
II-10	1	1	100	10
II-11	1	1	100	10
II-3B	4	4	100	30.23

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
II-1	23.4304	41.665	13.8462	2.27063	18618	379.959
II-2	9.22204	2.63674	-0.362215	2.27063	13991	285.531
II-3	8.84082	2.87322	-0.743439	2.27063	15173	309.653
II-4	9.43146	2.22589	-0.152797	2.28612	13737	286.188
II-5	9.60896	1.89688	0.024703	2.28612	12912	269
II-8	9.04106	2.81488	-0.543191	2.30216	13757	292.702
I-5	10.1667	0.530669	0.582411	2.70225	8946	298.2
II-6	12.9162	11.1312	3.33197	2.33602	14548	323.289
II-7	13.155	9.26664	3.57074	2.31879	14512	315.478
II-7B	9.70394	1.70074	0.119684	2.60748	8877	269
II-12	9.57522	2.03719	-0.00903793	2.99781	6187	269
II-9	9.18391	2.70635	-0.400342	2.99781	6187	269
II-10	10	0	0.415745	12.955	269	269
II-11	10	0	0.415745	12.955	269	269
II-3B	7.5575	4.885	-2.02676	6.57898	1076	269

Analysis of Variance Statistics

Basic Statistics

Parameter: 1,4-Dichlorobenzene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Measurements	607
Total Non-Detects	518 (85.3377%)
Pooled Mean	3.71608
Pooled Std Dev	3.67832
Compliance Meas.	508
Compliance Mean	3.81189
Compliance Std Dev	3.91003
Background Meas.	99
Background Mean	3.22444
Background Std Dev	2.06887

Background Locations

There are 5 background location

Location	Meas.	Non-Detects	% ND	Total
MW-13	48	47	97.9167	162.28
MW-14	45	44	97.7778	154.09
SMW-1	2	2	100	0.95
SMW-3	2	2	100	0.95
SMW-4	2	2	100	0.95

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-13	3.38083	2.05685	0	12746.5	265.552
MW-14	3.42422	1.97604	0	11969	265.978
SMW-1	0.475	0.403051	0	519	259.5
SMW-3	0.475	0.403051	0	519	259.5
SMW-4	0.475	0.403051	0	519	259.5

Compliance Locations

There are 15 compliance location

Location	Obs.	Non-Detects	% ND	Total
II-1	50	24	48	263.4
II-2	50	38	76	175.57
II-3	50	49	98	174.28
II-4	49	42	85.7143	170.43
II-5	49	47	95.9184	168.78
II-8	48	41	85.4167	159.66
I-5	30	23	76.6667	221.8
II-6	46	28	60.8696	193.9
II-7	47	43	91.4894	159.83
II-7B	34	33	97.0588	94.28
II-12	24	23	95.8333	52.28
II-9	24	23	95.8333	88.85
II-10	1	1	100	5
II-11	1	1	100	5
II-3B	5	5	100	3.38

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
II-1	5.268	1.49235	2.04356	0.617249	21395	427.9
II-2	3.5114	1.95393	0.286956	0.617249	16324	326.48
II-3	3.4856	1.97955	0.261156	0.617249	13270.5	265.41
II-4	3.47816	1.95318	0.253719	0.621419	14668	299.347
II-5	3.44449	2.00193	0.220045	0.621419	13275.5	270.929
II-8	3.32625	2.0974	0.101806	0.625734	14340.5	298.76
I-5	7.39333	13.5484	4.16889	0.741457	10025.5	334.183
II-6	4.21522	1.88282	0.990773	0.634829	17597	382.543
II-7	3.40064	2.07456	0.176194	0.630202	13356.5	284.181
II-7B	2.77294	2.04531	-0.451503	0.707194	9124.5	268.368
II-12	2.17833	1.9065	-1.04611	0.809467	6530.5	272.104
II-9	3.70208	1.92347	0.477639	0.809467	6531.5	272.146
II-10	5	0	1.77556	3.57563	259.5	259.5
II-11	5	0	1.77556	3.57563	259.5	259.5
II-3B	0.676	0.443655	-2.54844	1.63074	1297.5	259.5

Analysis of Variance Statistics

Basic Statistics

Parameter: 1,1-Dichloroethane

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Measurements	606
Total Non-Detects	398 (65.6766%)
Pooled Mean	8.13612
Pooled Std Dev	22.8381
Compliance Meas.	507
Compliance Mean	8.82781
Compliance Std Dev	24.907
Background Meas.	99
Background Mean	4.59384
Background Std Dev	1.31029

Background Locations

There are 5 background location

Location	Meas.	Non-Detects	% ND	Total
MW-13	48	47	97.9167	226.76
MW-14	45	44	97.7778	216.63
SMW-1	2	2	100	0.75
SMW-3	2	0	0	9.9
SMW-4	2	2	100	0.75

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-13	4.72417	1.09186	0	9825.5	204.698
MW-14	4.814	0.884334	0	9228	205.067
SMW-1	0.375	0.346482	0	399	199.5
SMW-3	4.95	1.76777	0	983	491.5
SMW-4	0.375	0.346482	0	399	199.5

Compliance Locations

There are 15 compliance location

Location	Obs.	Non-Detects	% ND	Total
II-1	50	26	52	355.99
II-2	50	18	36	472.23
II-3	50	26	52	389.4
II-4	49	31	63.2653	185.79
II-5	48	17	35.4167	334.81
II-8	48	31	64.5833	185.64
I-5	30	24	80	193.1
II-6	46	45	97.8261	216.76
II-7	47	18	38.2979	1755.34
II-7B	34	20	58.8235	124.09
II-12	24	23	95.8333	106.76
II-9	24	20	83.3333	138
II-10	1	1	100	5
II-11	1	1	100	5
II-3B	5	2	40	7.79

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
II-1	7.1198	14.1433	2.52596	3.72492	16559	331.18
II-2	9.4446	4.91683	4.85076	3.72492	21153	423.06
II-3	7.788	4.00498	3.19416	3.72492	18159	363.18
II-4	3.79163	1.62617	-0.802206	3.75009	14450.5	294.908
II-5	6.97521	5.22431	2.38137	3.77613	19224.5	400.51
II-8	3.8675	2.12379	-0.726338	3.77613	13741.5	286.281
I-5	6.43667	3.47171	1.84283	4.47448	8099	269.967
II-6	4.71217	1.11428	0.118336	3.83102	9434.5	205.098
II-7	37.3477	74.5466	32.7538	3.80309	18919	402.532
II-7B	3.64971	1.94048	-0.944133	4.26771	10181	299.441
II-12	4.44833	1.5091	-0.145505	4.8849	5048.5	210.354
II-9	5.75	4.16966	1.15616	4.8849	6033	251.375
II-10	5	0	0.406162	21.5779	199.5	199.5
II-11	5	0	0.406162	21.5779	199.5	199.5
II-3B	1.558	1.95267	-3.03584	9.84103	1685	337

Analysis of Variance Statistics

Basic Statistics
Parameter: 1,2-Dichloroethane
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Measurements	590
Total Non-Detects	585 (99.1525%)
Pooled Mean	4.45081
Pooled Std Dev	1.69431
Compliance Meas.	496
Compliance Mean	4.46601
Compliance Std Dev	1.72655
Background Meas.	94
Background Mean	4.37064
Background Std Dev	1.51885

Background Locations
There are 5 background location

Location	Meas.	Non-Detects	% ND	Total
MW-13	47	47	100	210.21
MW-14	44	44	100	200
SMW-1	1	1	100	0.21
SMW-3	1	1	100	0.21
SMW-4	1	1	100	0.21

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-13	4.47255	1.39774	0	13771	293
MW-14	4.54545	1.28415	0	12892	293
SMW-1	0.21	0	0	293	293
SMW-3	0.21	0	0	293	293
SMW-4	0.21	0	0	293	293

Compliance Locations
There are 15 compliance location

Location	Obs.	Non-Detects	% ND	Total
II-1	49	48	97.9592	220.46
II-2	49	47	95.9184	220.38
II-3	49	49	100	220.21
II-4	48	48	100	215.21
II-5	48	48	100	215.21
II-8	47	47	100	210.21
I-5	30	30	100	150
II-6	45	45	100	200.21
II-7	46	44	95.6522	229.41
II-7B	33	33	100	140.21
II-12	23	23	100	90.21
II-9	23	23	100	90.21
II-10	1	1	100	5
II-11	1	1	100	5
II-3B	4	4	100	3.21

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
II-1	4.49918	1.35648	0.128545	0.290156	14651	299
II-2	4.49755	1.3613	0.126913	0.290156	14945	305
II-3	4.49408	1.37236	0.123443	0.290156	14357	293
II-4	4.48354	1.38488	0.112903	0.292136	14064	293
II-5	4.48354	1.38488	0.112903	0.292136	14064	293
II-8	4.47255	1.39774	0.101915	0.294186	13771	293
I-5	5	0	0.629362	0.345313	8790	293
II-6	4.44911	1.42452	0.0784728	0.298513	13185	293
II-7	4.98717	3.40123	0.616536	0.296311	14071	305.891
II-7B	4.24879	1.62328	-0.12185	0.333202	9669	293
II-12	3.92217	1.86139	-0.448464	0.383081	6739	293
II-9	3.92217	1.86139	-0.448464	0.383081	6739	293
II-10	5	0	0.629362	1.65548	293	293
II-11	5	0	0.629362	1.65548	293	293
II-3B	0.8025	0.395	-3.56814	0.840708	1172	293

Analysis of Variance Statistics

Basic Statistics

Parameter: cis-1,2-Dichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements	607
Total Non-Detects	508 (83.6903%)
Pooled Mean	6.35155
Pooled Std Dev	12.7536
Compliance Meas.	508
Compliance Mean	6.67909
Compliance Std Dev	13.8983
Background Meas.	99
Background Mean	4.67081
Background Std Dev	1.75431

Background Locations

There are 5 background location

Location	Meas.	Non-Detects	% ND	Total
MW-13	48	47	97.9167	222.3
MW-14	45	44	97.7778	216.15
SMW-1	2	2	100	0.68
SMW-3	2	0	0	22.6
SMW-4	2	2	100	0.68

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-13	4.63125	1.24215	0	12496.5	260.344
MW-14	4.80333	0.926651	0	11734	260.756
SMW-1	0.34	0.268701	0	509	254.5
SMW-3	11.3	5.23259	0	1153	576.5
SMW-4	0.34	0.268701	0	509	254.5

Compliance Locations

There are 15 compliance location

Location	Obs.	Non-Detects	% ND	Total
II-1	50	35	70	208.72
II-2	50	28	56	475.95
II-3	50	35	70	188.7
II-4	49	41	83.6735	210.48
II-5	49	48	97.9592	231.3
II-8	48	47	97.9167	225.72
I-5	30	30	100	150
II-6	46	45	97.8261	216.3
II-7	47	27	57.4468	981.71
II-7B	34	31	91.1765	147.32
II-12	24	22	91.6667	102.08
II-9	24	17	70.8333	229.4
II-10	1	1	100	5
II-11	1	1	100	5
II-3B	5	5	100	15.3

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
II-1	4.1744	2.03724	-0.496408	2.09911	17156.5	343.13
II-2	9.519	7.59639	4.84819	2.09911	19883	397.66
II-3	3.774	1.90643	-0.896808	2.09911	16882.5	337.65
II-4	4.29551	1.61386	-0.375298	2.1133	14634.5	298.663
II-5	4.72041	1.11069	0.0496001	2.1133	12760	260.408
II-8	4.7025	1.16485	0.0316919	2.12797	12470.5	259.802
I-5	5	0	0.329192	2.52152	7635	254.5
II-6	4.70217	1.1447	0.0313658	2.1589	11997.5	260.815
II-7	20.8874	41.6482	16.2166	2.14316	18373.5	390.926
II-7B	4.33294	1.63528	-0.337867	2.405	9466.5	278.426
II-12	4.25333	1.71278	-0.417475	2.7528	6675	278.125
II-9	9.55833	9.99717	4.88753	2.7528	8410.5	350.438
II-10	5	0	0.329192	12.1598	254.5	254.5
II-11	5	0	0.329192	12.1598	254.5	254.5
II-3B	3.06	2.65645	-1.61081	5.54574	1272.5	254.5

Analysis of Variance Statistics

Basic Statistics

Parameter: Chloromethane

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Measurements	523
Total Non-Detects	519 (99.2352%)
Pooled Mean	6.35459
Pooled Std Dev	7.38789
Compliance Meas.	437
Compliance Mean	6.42776
Compliance Std Dev	7.82861
Background Meas.	86
Background Mean	5.98279
Background Std Dev	4.54494

Background Locations

There are 5 background location

Location	Meas.	Non-Detects	% ND	Total
MW-13	43	43	100	267.13
MW-14	40	40	100	247
SMW-1	1	1	100	0.13
SMW-3	1	1	100	0.13
SMW-4	1	1	100	0.13

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-13	6.21233	4.51853	0	11180	260
MW-14	6.175	4.50577	0	10400	260
SMW-1	0.13	0	0	260	260
SMW-3	0.13	0	0	260	260
SMW-4	0.13	0	0	260	260

Compliance Locations

There are 15 compliance location

Location	Obs.	Non-Detects	% ND	Total
II-1	44	43	97.7273	403.13
II-2	44	42	95.4545	281.4
II-3	44	43	97.7273	306.23
II-4	44	44	100	277.13
II-5	44	44	100	277.13
II-8	43	43	100	276.13
I-5	26	26	100	242
II-6	41	41	100	247.13
II-7	41	41	100	247.13
II-12	20	20	100	55.13
II-7B	20	20	100	37.13
II-9	20	20	100	136.13
II-10	1	1	100	10
II-11	1	1	100	10
II-3B	4	4	100	3.13

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
II-1	9.16205	20.0694	3.17925	1.35686	11703	265.977
II-2	6.39545	4.55105	0.412664	1.35686	11961	271.841
II-3	6.95977	6.67264	0.976982	1.35686	11702	265.955
II-4	6.29841	4.50204	0.315618	1.35686	11440	260
II-5	6.29841	4.50204	0.315618	1.35686	11440	260
II-8	6.42163	4.47962	0.438837	1.36726	11180	260
I-5	9.30769	2.44572	3.3249	1.63837	6760	260
II-6	6.02756	4.54815	0.0447703	1.38931	10660	260
II-7	6.02756	4.54815	0.0447703	1.38931	10660	260
II-12	2.7565	3.72086	-3.22629	1.8173	5200	260
II-7B	1.8565	2.79176	-4.12629	1.8173	5200	260
II-9	6.8065	4.46889	0.823709	1.8173	5200	260
II-10	10	0	4.01721	7.36291	260	260
II-11	10	0	4.01721	7.36291	260	260
II-3B	0.7825	0.435	-5.20029	3.74439	1040	260

Analysis of Variance Statistics

Basic Statistics

Parameter: Vinyl chloride

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Measurements	607
Total Non-Detects	569 (93.7397%)
Pooled Mean	6.55013
Pooled Std Dev	5.63107
Compliance Meas.	508
Compliance Mean	6.62715
Compliance Std Dev	5.82266
Background Meas.	99
Background Mean	6.15495
Background Std Dev	4.52673

Background Locations

There are 5 background location

Location	Meas.	Non-Detects	% ND	Total
MW-13	48	48	100	307.64
MW-14	45	45	100	297.32
SMW-1	2	2	100	1.03
SMW-3	2	0	0	2.32
SMW-4	2	2	100	1.03

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-13	6.40917	4.48517	0	13680	285
MW-14	6.60711	4.45349	0	12825	285
SMW-1	0.515	0.275772	0	570	285
SMW-3	1.16	0.622254	0	1164	582
SMW-4	0.515	0.275772	0	570	285

Compliance Locations

There are 15 compliance location

Location	Obs.	Non-Detects	% ND	Total
II-1	50	41	82	409.52
II-2	50	34	68	373.02
II-3	50	45	90	325.7
II-4	49	49	100	317.64
II-5	49	49	100	317.64
II-8	48	48	100	307.64
I-5	30	30	100	282
II-6	46	46	100	287.64
II-7	47	44	93.617	296.36
II-7B	34	34	100	167.64
II-12	24	24	100	85.64
II-9	24	21	87.5	172.51
II-10	1	1	100	10
II-11	1	1	100	10
II-3B	5	5	100	3.64

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
II-1	8.1904	13.0103	2.03545	0.962801	16958	339.16
II-2	7.4604	3.41591	1.30545	0.962801	19227	384.54
II-3	6.514	4.50087	0.359051	0.962801	15696	313.92
II-4	6.48245	4.46775	0.327499	0.969307	13965	285
II-5	6.48245	4.46775	0.327499	0.969307	13965	285
II-8	6.40917	4.48517	0.254217	0.976038	13680	285
I-5	9.4	2.28337	3.24505	1.15655	8550	285
II-6	6.25304	4.51806	0.098094	0.990224	13110	285
II-7	6.30553	4.53623	0.150582	0.983006	14270	303.617
II-7B	4.93059	4.57477	-1.22436	1.1031	9690	285
II-12	3.56833	4.2201	-2.58662	1.26263	6840	285
II-9	7.18792	4.27895	1.03297	1.26263	7773	323.875
II-10	10	0	3.84505	5.57736	285	285
II-11	10	0	3.84505	5.57736	285	285
II-3B	0.728	0.372451	-5.42695	2.54367	1425	285

Analysis of Variance Statistics

Basic Statistics

Parameter: Total Xylenes

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements	607
Total Non-Detects	596 (98.1878%)
Pooled Mean	4.85918
Pooled Std Dev	0.776461
Compliance Meas.	508
Compliance Mean	4.86756
Compliance Std Dev	0.750634
Background Meas.	99
Background Mean	4.81616
Background Std Dev	0.900477

Background Locations

There are 5 background location

Location	Meas.	Non-Detects	% ND	Total
MW-13	48	48	100	235.45
MW-14	45	45	100	225
SMW-1	2	2	100	5.45
SMW-3	2	2	100	5.45
SMW-4	2	2	100	5.45

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-13	4.90521	0.656736	0	14328	298.5
MW-14	5	0	0	13432.5	298.5
SMW-1	2.725	3.21734	0	597	298.5
SMW-3	2.725	3.21734	0	597	298.5
SMW-4	2.725	3.21734	0	597	298.5

Compliance Locations

There are 15 compliance location

Location	Obs.	Non-Detects	% ND	Total
II-1	50	48	96	248.15
II-2	50	50	100	245.45
II-3	50	50	100	245.45
II-4	49	49	100	240.45
II-5	49	49	100	240.45
II-8	48	48	100	235.45
I-5	30	30	100	150
II-6	46	37	80.4348	210.07
II-7	47	47	100	230.45
II-7B	34	34	100	165.45
II-12	24	24	100	115.45
II-9	24	24	100	115.45
II-10	1	1	100	5
II-11	1	1	100	5
II-3B	5	5	100	20.45

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
II-1	4.963	0.741263	0.146838	0.129727	15540	310.8
II-2	4.909	0.643467	0.0928384	0.129727	14925	298.5
II-3	4.909	0.643467	0.0928384	0.129727	14925	298.5
II-4	4.90714	0.65	0.0909812	0.130603	14626.5	298.5
II-5	4.90714	0.65	0.0909812	0.130603	14626.5	298.5
II-8	4.90521	0.656736	0.0890467	0.13151	14328	298.5
I-5	5	0	0.183838	0.155832	8955	298.5
II-6	4.56674	1.07422	-0.249422	0.133422	16454.5	357.707
II-7	4.90319	0.663686	0.0870299	0.132449	14029.5	298.5
II-7B	4.86618	0.780319	0.0500149	0.14863	10149	298.5
II-12	4.81042	0.928765	-0.00574495	0.170125	7164	298.5
II-9	4.81042	0.928765	-0.00574495	0.170125	7164	298.5
II-10	5	0	0.183838	0.751486	298.5	298.5
II-11	5	0	0.183838	0.751486	298.5	298.5
II-3B	4.09	2.03482	-0.726162	0.34273	1492.5	298.5

Analysis of Variance Statistics

Basic Statistics
Parameter: Tetrahydrofuran
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Measurements	121
Total Non-Detects	84 (69.4215%)
Pooled Mean	9.17124
Pooled Std Dev	26.6686
Compliance Meas.	101
Compliance Mean	10.6487
Compliance Std Dev	28.9835
Background Meas.	20
Background Mean	1.71
Background Std Dev	0.611211

Background Locations
There are 5 background location

Location	Meas.	Non-Detects	% ND	Total
MW-13	9	9	100	16.3
MW-14	8	8	100	15.5
SMW-1	1	1	100	0.8
SMW-3	1	1	100	0.8
SMW-4	1	1	100	0.8

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-13	1.81111	0.573246	0	382.5	42.5
MW-14	1.9375	0.459619	0	340	42.5
SMW-1	0.8	0	0	42.5	42.5
SMW-3	0.8	0	0	42.5	42.5
SMW-4	0.8	0	0	42.5	42.5

Compliance Locations
There are 12 compliance location

Location	Obs.	Non-Detects	% ND	Total
II-1	8	0	0	63.5
II-12	9	9	100	16.3
II-2	8	8	100	15.5
II-3	9	9	100	16.3
II-4	9	2	22.2222	83.3
II-5	9	9	100	16.3
II-6	9	2	22.2222	145.2
II-7	9	9	100	16.3
II-7B	9	3	33.3333	618.6
II-8	9	0	0	60.82
II-9	8	8	100	15.5
II-3B	5	5	100	7.9

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
II-1	7.9375	3.1414	6.2275	9.05469	799	99.875
II-12	1.81111	0.573246	0.101111	8.68795	382.5	42.5
II-2	1.9375	0.459619	0.2275	9.05469	340	42.5
II-3	1.81111	0.573246	0.101111	8.68795	382.5	42.5
II-4	9.25556	12.4014	7.54556	8.68795	786	87.3333
II-5	1.81111	0.573246	0.101111	8.68795	382.5	42.5
II-6	16.1333	13.952	14.4233	8.68795	829	92.1111
II-7	1.81111	0.573246	0.101111	8.68795	382.5	42.5
II-7B	68.7333	75.6194	67.0233	8.68795	814.5	90.5
II-8	6.75778	3.55676	5.04778	8.68795	880	97.7778
II-9	1.9375	0.459619	0.2275	9.05469	340	42.5
II-3B	1.58	0.712039	-0.13	10.8224	212.5	42.5

Analysis of Variance Statistics

SS Wells	36621.6
SS Total	85345.5

Kruskal-Wallis Statistics

Non-Detect Rank	42.5

Basic Statistics

Parameter: bis (2-Ethylhexyl) Phthalate

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Measurements	188
Total Non-Detects	179 (95.2128%)
Pooled Mean	0.45266
Pooled Std Dev	2.47022
Compliance Meas.	158
Compliance Mean	0.272152
Compliance Std Dev	1.36689
Background Meas.	30
Background Mean	1.40333
Background Std Dev	5.3028

Background Locations

There are 5 background location

Location	Meas.	Non-Detects	% ND	Total
MW-13	15	13	86.6667	30.8
MW-14	12	10	83.3333	6.2
SMW-1	1	1	100	1.7
SMW-3	1	1	100	1.7
SMW-4	1	1	100	1.7

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-13	2.05333	7.46897	0	1538	102.533
MW-14	0.516667	1.29463	0	1267	105.583
SMW-1	1.7	0	0	90	90
SMW-3	1.7	0	0	90	90
SMW-4	1.7	0	0	90	90

Compliance Locations

There are 15 compliance location

Location	Obs.	Non-Detects	% ND	Total
I-5	2	2	100	0
II-1	14	14	100	1.7
II-12	14	13	92.8571	3.9
II-2	14	12	85.7143	18
II-3	14	14	100	1.7
II-4	14	14	100	1.7
II-5	13	13	100	1.7
II-6	14	14	100	1.7
II-7	14	13	92.8571	3.8
II-7B	14	13	92.8571	3.7
II-8	14	14	100	1.7
II-9	14	14	100	1.7
II-10	1	1	100	0
II-11	1	1	100	0
II-3B	1	1	100	1.7

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
I-5	0	0	-1.40333	1.84639	180	90
II-1	0.121429	0.454344	-1.2819	0.818325	1260	90
II-12	0.278571	0.714873	-1.12476	0.818325	1355	96.7857
II-2	1.28571	4.26846	-0.117619	0.818325	1449	103.5
II-3	0.121429	0.454344	-1.2819	0.818325	1260	90
II-4	0.121429	0.454344	-1.2819	0.818325	1260	90
II-5	0.130769	0.471495	-1.27256	0.83951	1170	90
II-6	0.121429	0.454344	-1.2819	0.818325	1260	90
II-7	0.271429	0.694405	-1.1319	0.818325	1354	96.7143
II-7B	0.264286	0.674374	-1.13905	0.818325	1353	96.6429
II-8	0.121429	0.454344	-1.2819	0.818325	1260	90
II-9	0.121429	0.454344	-1.2819	0.818325	1260	90
II-10	0	0	-1.40333	2.57007	90	90
II-11	0	0	-1.40333	2.57007	90	90
II-3B	1.7	0	0.296667	2.57007	90	90

Analysis of Variance Statistics

Basic Statistics
Parameter: Antimony
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Measurements	593
Total Non-Detects	566 (95.4469%)
Pooled Mean	19.5581
Pooled Std Dev	12.5631
Compliance Meas.	496
Compliance Mean	19.6926
Compliance Std Dev	12.5599
Background Meas.	97
Background Mean	18.8704
Background Std Dev	12.6221

Background Locations
There are 5 background location

Location	Meas.	Non-Detects	% ND	Total
MW-13	47	47	100	944.44
MW-14	44	44	100	882.22
SMW-1	2	1	50	0.676
SMW-3	2	2	100	0.44
SMW-4	2	1	50	2.65

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-13	20.0945	12.1932	0	13324.5	283.5
MW-14	20.0505	12.1264	0	12474	283.5
SMW-1	0.338	0.166877	0	868.5	434.25
SMW-3	0.22	0	0	567	283.5
SMW-4	1.325	1.56271	0	874.5	437.25

Compliance Locations
There are 15 compliance location

Location	Obs.	Non-Detects	% ND	Total
II-1	49	41	83.6735	996.437
II-2	49	46	93.8776	979.924
II-3	49	46	93.8776	991.719
II-4	48	48	100	972.44
II-5	48	47	97.9167	966.672
II-8	47	47	100	942.44
I-5	29	29	100	822
II-6	45	39	86.6667	848.274
II-7	46	45	97.8261	907.156
II-7B	33	30	90.9091	505.149
II-12	23	23	100	270.44
II-9	23	23	100	486.44
II-10	1	1	100	30
II-11	1	1	100	30
II-3B	5	5	100	18.44

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
II-1	20.3354	13.6732	1.46508	2.13907	16264.5	331.929
II-2	19.9984	12.2012	1.12808	2.13907	14810	302.245
II-3	20.2392	12.4745	1.36879	2.13907	14785	301.735
II-4	20.2592	12.2138	1.3888	2.15382	13608	283.5
II-5	20.139	12.3842	1.26863	2.15382	13894.5	289.469
II-8	20.0519	12.2602	1.18154	2.1691	13324.5	283.5
I-5	28.3448	6.18914	9.47446	2.58305	8221.5	283.5
II-6	18.8505	13.3197	-0.0198378	2.20133	14515.5	322.567
II-7	19.7208	12.4604	0.850411	2.18492	13345.5	290.12
II-7B	15.3075	12.9563	-3.56283	2.45958	10218	309.636
II-12	11.7583	11.201	-7.11211	2.83057	6520.5	283.5
II-9	21.1496	12.4829	2.27919	2.83057	6520.5	283.5
II-10	30	0	11.1296	12.2676	283.5	283.5
II-11	30	0	11.1296	12.2676	283.5	283.5
II-3B	3.688	3.16584	-15.1824	5.59709	1417.5	283.5

Analysis of Variance Statistics

Basic Statistics

Parameter: Arsenic

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Measurements	593
Total Non-Detects	553 (93.2546%)
Pooled Mean	9.57919
Pooled Std Dev	1.7367
Compliance Meas.	496
Compliance Mean	9.65
Compliance Std Dev	1.66828
Background Meas.	97
Background Mean	9.21711
Background Std Dev	2.02248

Background Locations

There are 5 background location

Location	Meas.	Non-Detects	% ND	Total
MW-13	47	45	95.7447	452.93
MW-14	44	36	81.8182	390.73
SMW-1	2	2	100	16.8
SMW-3	2	2	100	16.8
SMW-4	2	2	100	16.8

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-13	9.63681	1.4826	0	13595	289.255
MW-14	8.88023	2.45389	0	14539	330.432
SMW-1	8.4	2.26274	0	554	277
SMW-3	8.4	2.26274	0	554	277
SMW-4	8.4	2.26274	0	554	277

Compliance Locations

There are 15 compliance location

Location	Obs.	Non-Detects	% ND	Total
II-1	49	47	95.9184	470.86
II-2	49	46	93.8776	467.38
II-3	49	47	95.9184	474.09
II-4	48	46	95.8333	463.27
II-5	48	42	87.5	434.34
II-8	47	45	95.7447	463.95
I-5	29	28	96.5517	303
II-6	45	41	91.1111	444
II-7	46	44	95.6522	447.87
II-7B	33	29	87.8788	306.3
II-12	23	21	91.3043	217.74
II-9	23	23	100	226.8
II-10	1	1	100	10
II-11	1	1	100	10
II-3B	5	5	100	46.8

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
II-1	9.60939	1.65786	0.392274	0.302312	14137	288.51
II-2	9.53837	1.68971	0.321254	0.302312	14452	294.939
II-3	9.67531	1.3576	0.458193	0.302312	14158	288.939
II-4	9.65146	1.43675	0.434345	0.304397	13879	289.146
II-5	9.04875	2.48742	-0.168363	0.304397	15029	313.104
II-8	9.87128	0.628555	0.654163	0.306555	13644	290.298
I-5	10.4483	2.41404	1.23116	0.365059	8349	287.897
II-6	9.86667	2.01653	0.649553	0.31111	13689	304.2
II-7	9.7363	1.14283	0.519191	0.308792	13345	290.109
II-7B	9.28182	1.78304	0.0647048	0.347609	10352	313.697
II-12	9.46696	1.43648	0.249843	0.40004	6981	303.522
II-9	9.86087	0.667246	0.643756	0.40004	6371	277
II-10	10	0	0.782887	1.73376	277	277
II-11	10	0	0.782887	1.73376	277	277
II-3B	9.36	1.43108	0.142887	0.791027	1385	277

Analysis of Variance Statistics

Basic Statistics
Parameter: Barium
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Measurements	593
Total Non-Detects	309 (52.1079%)
Pooled Mean	355.918
Pooled Std Dev	240.345
Compliance Meas.	496
Compliance Mean	363.523
Compliance Std Dev	238.525
Background Meas.	97
Background Mean	317.032
Background Std Dev	247.054

Background Locations
There are 5 background location

Location	Meas.	Non-Detects	% ND	Total
MW-13	47	27	57.4468	14918.1
MW-14	44	22	50	14980.3
SMW-1	2	0	0	177
SMW-3	2	0	0	478
SMW-4	2	0	0	198.7

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-13	317.406	198.595	0	13010	276.809
MW-14	340.461	296.806	0	12153	276.205
SMW-1	88.5	27.5772	0	830	415
SMW-3	239	132.936	0	993	496.5
SMW-4	99.35	56.0736	0	849	424.5

Compliance Locations
There are 15 compliance location

Location	Obs.	Non-Detects	% ND	Total
II-1	49	23	46.9388	20978.2
II-2	49	27	55.102	15506.9
II-3	49	23	46.9388	17953
II-4	48	19	39.5833	24025
II-5	48	26	54.1667	14719.9
II-8	47	27	57.4468	14631.9
I-5	29	26	89.6552	12844
II-6	45	24	53.3333	17099.7
II-7	46	27	58.6957	14078.3
II-7B	33	15	45.4545	7611.1
II-12	23	3	13.0435	10678
II-9	23	18	78.2609	8340.2
II-10	1	1	100	500
II-11	1	1	100	500
II-3B	5	0	0	841

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
II-1	428.127	176.087	111.095	40.6987	17156	350.122
II-2	316.467	238.72	-0.564612	40.6987	12956	264.408
II-3	366.388	189.066	49.3558	40.6987	16356	333.796
II-4	500.521	411.131	183.489	40.9793	18176	378.667
II-5	306.665	205.416	-10.3674	40.9793	13280	276.667
II-8	311.317	204.708	-5.71494	41.27	12644	269.021
I-5	442.897	145.478	125.865	49.146	5250	181.034
II-6	379.993	173.477	62.9614	41.8832	13840	307.556
II-7	306.05	226.961	-10.9815	41.571	11238	244.304
II-7B	230.639	238.839	-86.3926	46.7968	8391	254.273
II-12	464.261	161.81	147.229	53.8553	11407	495.957
II-9	362.617	195.721	45.5854	53.8553	4917	213.783
II-10	500	0	182.968	233.407	155	155
II-11	500	0	182.968	233.407	155	155
II-3B	168.2	11.1221	-148.832	106.492	2365	473

Analysis of Variance Statistics

Basic Statistics
Parameter: Cadmium
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Measurements	593
Total Non-Detects	484 (81.6189%)
Pooled Mean	1.09992
Pooled Std Dev	0.888261
Compliance Meas.	496
Compliance Mean	1.10856
Compliance Std Dev	0.919393
Background Meas.	97
Background Mean	1.05574
Background Std Dev	0.710421

Background Locations
There are 5 background location

Location	Meas.	Non-Detects	% ND	Total
MW-13	47	42	89.3617	50.68
MW-14	44	40	90.9091	41.912
SMW-1	2	0	0	8.37
SMW-3	2	2	100	0.72
SMW-4	2	1	50	0.725

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-13	1.0783	0.717312	0	12860	273.617
MW-14	0.952545	0.198575	0	11758	267.227
SMW-1	4.185	1.03945	0	1162	581
SMW-3	0.36	0	0	485	242.5
SMW-4	0.3625	0.00353553	0	759.5	379.75

Compliance Locations
There are 15 compliance location

Location	Obs.	Non-Detects	% ND	Total
II-1	49	33	67.3469	63.74
II-2	49	42	85.7143	44.95
II-3	49	37	75.5102	64.52
II-4	48	37	77.0833	46.292
II-5	48	39	81.25	46.87
II-8	47	41	87.234	45.982
I-5	29	18	62.069	50.5
II-6	45	33	73.3333	62.77
II-7	46	42	91.3043	43.12
II-7B	33	30	90.9091	30.49
II-12	23	20	86.9565	19.894
II-9	23	20	86.9565	25
II-10	1	1	100	1
II-11	1	1	100	1
II-3B	5	5	100	3.72

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
II-1	1.30082	1.92078	0.245074	0.149454	16572.5	338.214
II-2	0.917347	0.249205	-0.138395	0.149454	13789	281.408
II-3	1.31673	1.17206	0.260992	0.149454	15586.5	318.092
II-4	0.964417	0.377197	-0.0913256	0.150485	14790.5	308.135
II-5	0.976458	0.328384	-0.0792839	0.150485	14215.5	296.156
II-8	0.97834	0.248594	-0.0774018	0.151552	13155.5	279.904
I-5	1.74138	1.34071	0.685637	0.180474	10589	365.138
II-6	1.39489	1.20691	0.339147	0.153804	14707.5	326.833
II-7	0.937391	0.206886	-0.118351	0.152658	12260	266.522
II-7B	0.923939	0.243027	-0.131803	0.171848	8827	267.485
II-12	0.864957	0.270268	-0.190786	0.197768	6397	278.13
II-9	1.08696	0.649233	0.0312143	0.197768	6509	283
II-10	1	0	-0.0557423	0.857121	242.5	242.5
II-11	1	0	-0.0557423	0.857121	242.5	242.5
II-3B	0.744	0.350542	-0.311742	0.391061	1212.5	242.5

Analysis of Variance Statistics

Basic Statistics
Parameter: Chromium
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Measurements	593
Total Non-Detects	383 (64.5868%)
Pooled Mean	11.9695
Pooled Std Dev	17.8717
Compliance Meas.	496
Compliance Mean	12.7197
Compliance Std Dev	19.397
Background Meas.	97
Background Mean	8.13371
Background Std Dev	3.44099

Background Locations
There are 5 background location

Location	Meas.	Non-Detects	% ND	Total
MW-13	47	42	89.3617	420.21
MW-14	44	26	59.0909	353.66
SMW-1	2	1	50	3.59
SMW-3	2	1	50	2.81
SMW-4	2	0	0	8.7

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-13	8.94064	2.68399	0	10298	219.106
MW-14	8.03773	3.64029	0	13519	307.25
SMW-1	1.795	0.558614	0	619	309.5
SMW-3	1.405	0.00707107	0	589	294.5
SMW-4	4.35	2.1496	0	953	476.5

Compliance Locations
There are 15 compliance location

Location	Obs.	Non-Detects	% ND	Total
II-1	49	20	40.8163	1004.37
II-2	49	36	73.4694	587.89
II-3	49	25	51.0204	570.98
II-4	48	23	47.9167	674.25
II-5	48	27	56.25	549.67
II-8	47	36	76.5957	388.29
I-5	29	17	58.6207	993.7
II-6	45	28	62.2222	453.29
II-7	46	33	71.7391	400.98
II-7B	33	30	90.9091	287.45
II-12	23	12	52.1739	162.75
II-9	23	20	86.9565	189.9
II-10	1	1	100	10
II-11	1	1	100	10
II-3B	5	4	80	25.43

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
II-1	20.4973	31.6309	12.3636	2.98727	18957	386.878
II-2	11.9978	9.04646	3.86404	2.98727	13539	276.306
II-3	11.6527	12.2471	3.51894	2.98727	16564	338.041
II-4	14.0469	15.1235	5.91316	3.00788	17222	358.792
II-5	11.4515	9.81365	3.31775	3.00788	15391	320.646
II-8	8.26149	3.35478	0.127778	3.02921	11779	250.617
I-5	34.2655	55.325	26.1318	3.6073	9975	343.966
II-6	10.0731	7.58111	1.9394	3.07422	13561	301.356
II-7	8.71696	4.9189	0.583245	3.05131	12124	263.565
II-7B	8.71061	3.10523	0.576895	3.43488	6992	211.879
II-12	7.07609	5.42148	-1.05762	3.95297	7271	316.13
II-9	8.25652	3.3899	0.12281	3.95297	5161	224.391
II-10	10	0	1.86629	17.1321	192	192
II-11	10	0	1.86629	17.1321	192	192
II-3B	5.086	4.51387	-3.04771	7.81649	1223	244.6

Analysis of Variance Statistics

Basic Statistics
Parameter: Cobalt
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Measurements	593
Total Non-Detects	297 (50.0843%)
Pooled Mean	16.9238
Pooled Std Dev	17.2041
Compliance Meas.	496
Compliance Mean	18.3645
Compliance Std Dev	18.4275
Background Meas.	97
Background Mean	9.5568
Background Std Dev	2.95262

Background Locations
There are 5 background location

Location	Meas.	Non-Detects	% ND	Total
MW-13	47	43	91.4894	439.4
MW-14	44	41	93.1818	439.3
SMW-1	2	0	0	40.7
SMW-3	2	0	0	5.41
SMW-4	2	1	50	2.2

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-13	9.34894	2.27432	0	7820	166.383
MW-14	9.98409	1.65402	0	7314	166.227
SMW-1	20.35	0.636396	0	920	460
SMW-3	2.705	0.982878	0	650	325
SMW-4	1.1	0	0	447	223.5

Compliance Locations
There are 15 compliance location

Location	Obs.	Non-Detects	% ND	Total
II-1	49	2	4.08163	2028.7
II-2	49	41	83.6735	516.4
II-3	49	4	8.16327	1245.4
II-4	48	16	33.3333	741.2
II-5	48	11	22.9167	571.76
II-8	47	33	70.2128	535.04
I-5	29	5	17.2414	1034
II-6	45	7	15.5556	1113.25
II-7	46	38	82.6087	407.72
II-7B	33	32	96.9697	313.4
II-12	23	3	13.0435	346.55
II-9	23	18	78.2609	223.96
II-10	1	1	100	10
II-11	1	1	100	10
II-3B	5	0	0	11.43

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
II-1	41.402	29.1172	31.8452	2.44665	24447	498.918
II-2	10.5388	5.25721	0.981971	2.44665	9403	191.898
II-3	25.4163	18.2773	15.8595	2.44665	21754	443.959
II-4	15.4417	14.5981	5.88486	2.46352	16053	334.438
II-5	11.9117	8.18037	2.35486	2.46352	16308	339.75
II-8	11.3838	15.3973	1.82703	2.48099	10003	212.83
I-5	35.6552	20.5945	26.0984	2.95447	13326	459.517
II-6	24.7389	16.6044	15.1821	2.51786	19082	424.044
II-7	8.86348	2.94334	-0.693326	2.49909	8378	182.13
II-7B	9.49697	2.17593	-0.0598344	2.81324	5167	156.576
II-12	15.0674	14.4198	5.51059	3.23757	8575	372.826
II-9	9.73739	1.64712	0.180587	3.23757	4576	198.957
II-10	10	0	0.443196	14.0316	149	149
II-11	10	0	0.443196	14.0316	149	149
II-3B	2.286	0.612601	-7.2708	6.40189	1600	320

Analysis of Variance Statistics

Basic Statistics

Parameter: Copper

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Measurements	593
Total Non-Detects	461 (77.7403%)
Pooled Mean	118.691
Pooled Std Dev	104.51
Compliance Meas.	496
Compliance Mean	120.581
Compliance Std Dev	106.025
Background Meas.	97
Background Mean	109.028
Background Std Dev	96.3217

Background Locations

There are 5 background location

Location	Meas.	Non-Detects	% ND	Total
MW-13	47	41	87.234	5185.27
MW-14	44	42	95.4545	5356.64
SMW-1	2	0	0	23.8
SMW-3	2	1	50	6.85
SMW-4	2	2	100	3.2

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-13	110.325	96.6656	0	12552	267.064
MW-14	121.742	95.1606	0	10692	243
SMW-1	11.9	1.41421	0	1088	544
SMW-3	3.425	2.58094	0	754	377
SMW-4	1.6	0	0	462	231

Compliance Locations

There are 15 compliance location

Location	Obs.	Non-Detects	% ND	Total
II-1	49	23	46.9388	6583.88
II-2	49	45	91.8367	5629.2
II-3	49	35	71.4286	5819.39
II-4	48	33	68.75	6457.09
II-5	48	34	70.8333	5321.61
II-8	47	41	87.234	5652.91
I-5	29	21	72.4138	5615.4
II-6	45	36	80	5335.24
II-7	46	36	78.2609	5334.25
II-7B	33	23	69.697	2906.28
II-12	23	20	86.9565	1530.91
II-9	23	21	91.3043	3188.6
II-10	1	1	100	200
II-11	1	1	100	200
II-3B	5	5	100	33.2

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
II-1	134.365	143.18	25.3364	17.9582	19615	400.306
II-2	114.882	95.3834	5.85318	17.9582	12524	255.592
II-3	118.763	103.39	9.73461	17.9582	15344	313.143
II-4	134.523	92.3768	25.4943	18.0821	15960	332.5
II-5	110.867	103.252	1.83842	18.0821	15041	313.354
II-8	120.275	106.14	11.2462	18.2103	12618	268.468
I-5	193.634	113.019	84.606	21.6856	9420	324.828
II-6	118.561	96.3711	9.53244	18.4809	12838	285.289
II-7	115.962	96.9281	6.9335	18.3431	13270	288.478
II-7B	88.0691	97.6148	-20.9594	20.649	10206	309.273
II-12	66.5613	90.3041	-42.4671	23.7635	6124	266.261
II-9	138.635	87.6265	29.6063	23.7635	5996	260.696
II-10	200	0	90.9715	102.991	231	231
II-11	200	0	90.9715	102.991	231	231
II-3B	6.64	4.60087	-102.388	46.9894	1155	231

Analysis of Variance Statistics

Basic Statistics
Parameter: Lead
Original Data (Not Transformed)
Non-Detects Repiaced with Detection Limit

Total Measurements	593
Total Non-Detects	528 (89.0388%)
Pooled Mean	9.42572
Pooled Std Dev	2.32745
Compliance Meas.	496
Compliance Mean	9.43349
Compliance Std Dev	2.36425
Background Meas.	97
Background Mean	9.38598
Background Std Dev	2.14043

Background Locations
There are 5 background location

Location	Meas.	Non-Detects	% ND	Total
MW-13	47	42	89.3617	441.8
MW-14	44	38	86.3636	429.34
SMW-1	2	2	100	13.1
SMW-3	2	2	100	13.1
SMW-4	2	2	100	13.1

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-13	9.4	2.01397	0	13908	295.915
MW-14	9.75773	1.7218	0	13463	305.977
SMW-1	6.55	4.87904	0	529	264.5
SMW-3	6.55	4.87904	0	529	264.5
SMW-4	6.55	4.87904	0	529	264.5

Compliance Locations
There are 15 compliance location

Location	Obs.	Non-Detects	% ND	Total
II-1	49	40	81.6327	439.93
II-2	49	46	93.8776	465
II-3	49	42	85.7143	452.34
II-4	48	39	81.25	437.61
II-5	48	41	85.4167	466.22
II-8	47	46	97.8723	456.2
I-5	29	27	93.1034	296
II-6	45	41	91.1111	428.16
II-7	46	42	91.3043	446.17
II-7B	33	32	96.9697	314.8
II-12	23	18	78.2609	197.27
II-9	23	21	91.3043	216.21
II-10	1	1	100	10
II-11	1	1	100	10
II-3B	5	5	100	43.1

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
II-1	8.97816	3.00234	-0.407816	0.406728	15588	318.122
II-2	9.4898	1.81994	0.103817	0.406728	13829	282.224
II-3	9.23143	2.48026	-0.154551	0.406728	15036	306.857
II-4	9.11688	2.55245	-0.269104	0.409533	15359.5	319.99
II-5	9.71292	3.59888	0.326937	0.409533	14786.5	308.052
II-8	9.70638	1.4078	0.320404	0.412437	12722	270.681
I-5	10.2069	1.5441	0.820917	0.491148	8305.5	286.397
II-6	9.51467	1.85436	0.128687	0.418566	13070.5	290.456
II-7	9.69935	1.94239	0.313368	0.415446	13384	290.957
II-7B	9.53939	1.84982	0.153415	0.467671	9003	272.818
II-12	8.57696	2.86956	-0.809023	0.538211	7565	328.913
II-9	9.40043	2.03114	0.0144554	0.538211	6662.5	289.674
II-10	10	0	0.614021	2.33259	264.5	264.5
II-11	10	0	0.614021	2.33259	264.5	264.5
II-3B	8.62	3.08577	-0.765979	1.06424	1322.5	264.5

Analysis of Variance Statistics

Basic Statistics
Parameter: Nickel
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Measurements	593
Total Non-Detects	403 (67.9595%)
Pooled Mean	42.7663
Pooled Std Dev	23.9708
Compliance Meas.	496
Compliance Mean	42.5611
Compliance Std Dev	25.2636
Background Meas.	97
Background Mean	43.8155
Background Std Dev	15.845

Background Locations
There are 5 background location

Location	Meas.	Non-Detects	% ND	Total
MW-13	47	44	93.617	2117.34
MW-14	44	42	95.4545	2114.05
SMW-1	2	0	0	7.84
SMW-3	2	2	100	3.6
SMW-4	2	1	50	7.27

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-13	45.0498	14.5514	0	10177	216.532
MW-14	48.0466	9.08976	0	9388	213.364
SMW-1	3.92	0.367696	0	866	433
SMW-3	1.8	0	0	404	202
SMW-4	3.635	2.59508	0	647	323.5

Compliance Locations
There are 15 compliance location

Location	Obs.	Non-Detects	% ND	Total
II-1	49	28	57.1429	1830.82
II-2	49	48	97.9592	2314.3
II-3	49	29	59.1837	1810.6
II-4	48	29	60.4167	2058.1
II-5	48	29	60.4167	1666.91
II-8	47	28	59.5745	1890.31
I-5	29	4	13.7931	2899
II-6	45	26	57.7778	1810.24
II-7	46	37	80.4348	1883.57
II-7B	33	30	90.9091	1417.76
II-12	23	6	26.087	473.89
II-9	23	18	78.2609	932.66
II-10	1	1	100	50
II-11	1	1	100	50
II-3B	5	0	0	22.16

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
II-1	37.3637	18.4306	-6.45179	3.336	16284	332.327
II-2	47.2306	11.0068	3.41515	3.336	10177	207.694
II-3	36.951	20.2173	-6.86444	3.336	15868	323.837
II-4	42.8771	15.8504	-0.938381	3.35901	16014	333.625
II-5	34.7273	23.9173	-9.08817	3.35901	14337	298.688
II-8	40.2194	20.0825	-3.5961	3.38283	15385	327.34
I-5	99.9655	38.7404	56.1501	4.02841	15244	525.655
II-6	40.2276	17.6876	-3.58791	3.43309	14853	330.067
II-7	40.9472	18.5981	-2.86829	3.40751	11327	246.239
II-7B	42.9624	16.9727	-0.85304	3.83586	7371	223.364
II-12	20.6039	18.2014	-23.2116	4.41443	9306	404.609
II-9	40.5504	18.4008	-3.26503	4.41443	5883	255.783
II-10	50	0	6.18454	19.132	202	202
II-11	50	0	6.18454	19.132	202	202
II-3B	4.432	0.793958	-39.3835	8.72896	2186	437.2

Analysis of Variance Statistics

Basic Statistics

Parameter: Mercury

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Measurements	492
Total Non-Detects	478 (97.1545%)
Pooled Mean	0.4116
Pooled Std Dev	0.22622
Compliance Meas.	411
Compliance Mean	0.408251
Compliance Std Dev	0.216679
Background Meas.	81
Background Mean	0.428593
Background Std Dev	0.270411

Background Locations

There are 5 background location

Location	Meas.	Non-Detects	% ND	Total
MW-13	39	39	100	18.6
MW-14	39	39	100	15.6
SMW-1	1	0	0	0.176
SMW-3	1	1	100	0.17
SMW-4	1	1	100	0.17

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-13	0.476923	0.353525	0	9340.5	239.5
MW-14	0.4	0.14327	0	9340.5	239.5
SMW-1	0.176	0	0	483	483
SMW-3	0.17	0	0	239.5	239.5
SMW-4	0.17	0	0	239.5	239.5

Compliance Locations

There are 15 compliance location

Location	Obs.	Non-Detects	% ND	Total
I-5	28	27	96.4286	15.9
II-1	40	39	97.5	15.6241
II-2	40	40	100	15.27
II-3	41	36	87.8049	16.428
II-4	40	40	100	15.77
II-5	39	36	92.3077	17.97
II-6	40	40	100	15.77
II-7	40	38	95	16.27
II-8	40	39	97.5	16.109
II-7B	24	24	100	7.77
II-12	18	18	100	5.37
II-9	18	18	100	8.37
II-10	1	1	100	0.5
II-11	1	1	100	0.5
II-3B	1	1	100	0.17

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
I-5	0.567857	0.483087	0.139265	0.0487887	6958.5	248.518
II-1	0.390602	0.15267	-0.0379901	0.0430079	9819.5	245.488
II-2	0.38175	0.157674	-0.0468426	0.0430079	9580	239.5
II-3	0.400683	0.140525	-0.0279097	0.0426553	11041	269.293
II-4	0.39425	0.146022	-0.0343426	0.0430079	9580	239.5
II-5	0.460769	0.31493	0.0321766	0.0433754	10091	258.744
II-6	0.39425	0.146022	-0.0343426	0.0430079	9580	239.5
II-7	0.40675	0.201347	-0.0218426	0.0430079	10072	251.8
II-8	0.402725	0.142192	-0.0258676	0.0430079	9824.5	245.613
II-7B	0.32375	0.152282	-0.104843	0.0517219	5748	239.5
II-12	0.298333	0.146899	-0.130259	0.0579918	4311	239.5
II-9	0.465	0.101995	0.0364074	0.0579918	4311	239.5
II-10	0.5	0	0.0714074	0.22392	239.5	239.5
II-11	0.5	0	0.0714074	0.22392	239.5	239.5
II-3B	0.17	0	-0.258593	0.22392	239.5	239.5

Analysis of Variance Statistics

Basic Statistics
Parameter: Silver
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Measurements	593
Total Non-Detects	530 (89.3761%)
Pooled Mean	8.89668
Pooled Std Dev	2.69485
Compliance Meas.	496
Compliance Mean	8.90105
Compliance Std Dev	2.68233
Background Meas.	97
Background Mean	8.87433
Background Std Dev	2.77205

Background Locations
There are 5 background location

Location	Meas.	Non-Detects	% ND	Total
MW-13	47	43	91.4894	431.29
MW-14	44	42	95.4545	418.1
SMW-1	2	1	50	3.82
SMW-3	2	2	100	3.8
SMW-4	2	2	100	3.8

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-13	9.17638	2.44083	0	13638.5	290.181
MW-14	9.50227	1.87039	0	12278	279.045
SMW-1	1.91	0.0141421	0	806.5	403.25
SMW-3	1.9	0	0	531	265.5
SMW-4	1.9	0	0	531	265.5

Compliance Locations
There are 15 compliance location

Location	Obs.	Non-Detects	% ND	Total
II-1	49	34	69.3878	386.37
II-2	49	45	91.8367	439.6
II-3	49	47	95.9184	457.7
II-4	48	43	89.5833	436.86
II-5	48	46	95.8333	448.4
II-8	47	38	80.8511	417.86
I-5	29	28	96.5517	280.8
II-6	45	40	88.8889	401
II-7	46	43	93.4783	422.4
II-7B	33	31	93.9394	299.5
II-12	23	18	78.2609	178.37
II-9	23	20	86.9565	192.26
II-10	1	1	100	10
II-11	1	1	100	10
II-3B	5	5	100	33.8

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
II-1	7.8851	3.3477	-0.989228	0.453107	17495	357.041
II-2	8.97143	2.81025	0.0970987	0.453107	14130.5	288.378
II-3	9.34082	2.25914	0.466486	0.453107	13591.5	277.378
II-4	9.10125	2.44065	0.22692	0.456232	14215.5	296.156
II-5	9.34167	2.22355	0.467337	0.456232	13331	277.729
II-8	8.89064	2.6483	0.0163084	0.459467	15203	323.468
I-5	9.68276	1.7084	0.808429	0.547152	7971	274.862
II-6	8.91111	2.58807	0.0367812	0.466294	13495	299.889
II-7	9.18261	2.37593	0.308279	0.462819	13103.5	284.859
II-7B	9.07576	2.53969	0.201428	0.520999	9356.5	283.53
II-12	7.75522	3.48922	-1.11911	0.599582	7591	330.043
II-9	8.35913	3.19704	-0.515199	0.599582	6994	304.087
II-10	10	0	1.12567	2.59857	265.5	265.5
II-11	10	0	1.12567	2.59857	265.5	265.5
II-3B	6.76	4.43655	-2.11433	1.1856	1327.5	265.5

Analysis of Variance Statistics

Basic Statistics

Parameter: Vanadium

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Measurements	593
Total Non-Detects	387 (65.2614%)
Pooled Mean	38.1401
Pooled Std Dev	46.989
Compliance Meas.	496
Compliance Mean	39.9391
Compliance Std Dev	50.3312
Background Meas.	97
Background Mean	28.9407
Background Std Dev	21.2508

Background Locations

There are 5 background location

Location	Meas.	Non-Detects	% ND	Total
MW-13	47	28	59.5745	1182.16
MW-14	44	38	86.3636	1594.7
SMW-1	2	0	0	7.66
SMW-3	2	0	0	17.74
SMW-4	2	1	50	4.99

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-13	25.1523	17.2789	0	14150	301.064
MW-14	36.2432	23.1642	0	10344	235.091
SMW-1	3.83	2.27688	0	889	444.5
SMW-3	8.87	7.25492	0	958	479
SMW-4	2.495	1.54856	0	643	321.5

Compliance Locations

There are 15 compliance location

Location	Obs.	Non-Detects	% ND	Total
II-1	49	34	69.3878	2193.8
II-2	49	26	53.0612	1976.32
II-3	49	31	63.2653	2082.04
II-4	48	19	39.5833	3567.36
II-5	48	26	54.1667	1269.61
II-8	47	30	63.8298	1953.44
I-5	29	21	72.4138	2012
II-6	45	32	71.1111	1399.48
II-7	46	41	89.1304	1425.82
II-7B	33	17	51.5152	758.39
II-12	23	16	69.5652	524.45
II-9	23	21	91.3043	541.22
II-10	1	1	100	25
II-11	1	1	100	25
II-3B	5	4	80	55.88

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
II-1	44.7714	47.1088	15.8307	7.90071	14721	300.429
II-2	40.3331	43.7768	11.3923	7.90071	16131	329.204
II-3	42.4906	51.1718	13.5499	7.90071	14977	305.653
II-4	74.32	88.0991	45.3793	7.9552	19135	398.646
II-5	26.4502	17.9914	-2.49051	7.9552	15446	321.792
II-8	41.5626	65.6683	12.6218	8.01161	13654	290.511
I-5	69.3793	81.6567	40.4386	9.54056	8531	294.172
II-6	31.0996	18.9249	2.15883	8.13065	12294	273.2
II-7	30.9961	12.1601	2.05537	8.07006	10357	225.152
II-7B	22.9815	15.8237	-5.95921	9.08453	10980	332.727
II-12	22.8022	13.7333	-6.13855	10.4548	6438	279.913
II-9	23.5313	11.7728	-5.40942	10.4548	4873	211.87
II-10	25	0	-3.94072	45.3107	194	194
II-11	25	0	-3.94072	45.3107	194	194
II-3B	11.176	12.6382	-17.7647	20.673	1212	242.4

Analysis of Variance Statistics

Basic Statistics

Parameter: Zinc

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Measurements	593
Total Non-Detects	396 (66.7791%)
Pooled Mean	46.4691
Pooled Std Dev	63.7031
Compliance Meas.	496
Compliance Mean	47.0975
Compliance Std Dev	63.1601
Background Meas.	97
Background Mean	43.2557
Background Std Dev	66.6565

Background Locations

There are 5 background location

Location	Meas.	Non-Detects	% ND	Total
MW-13	47	31	65.9574	1516.42
MW-14	44	31	70.4545	1838.9
SMW-1	2	0	0	809
SMW-3	2	1	50	15
SMW-4	2	0	0	16.48

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-13	32.2643	20.6665	0	13538.5	288.053
MW-14	41.7932	49.1926	0	12538.5	284.966
SMW-1	404.5	176.07	0	1174	587
SMW-3	7.5	5.23259	0	681.5	340.75
SMW-4	8.24	5.45886	0	900	450

Compliance Locations

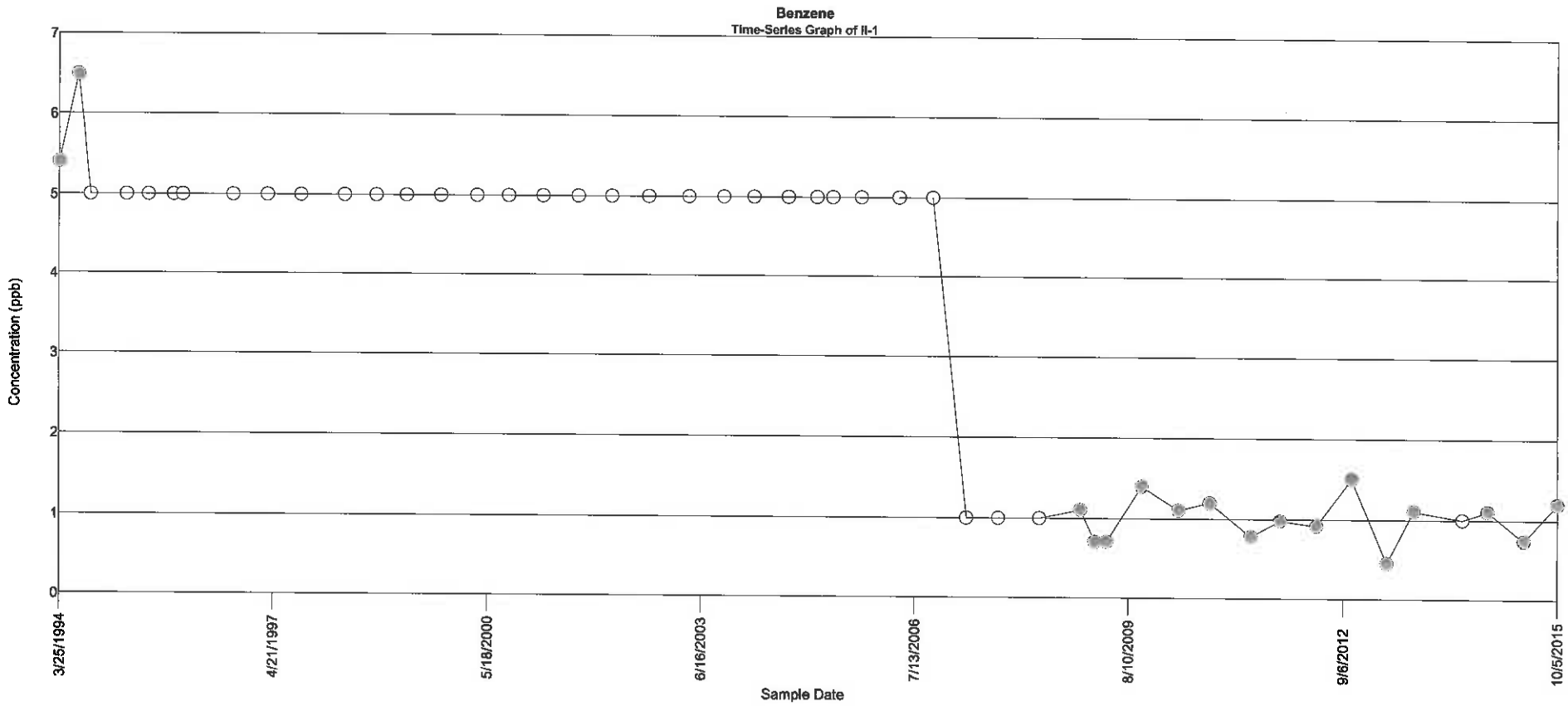
There are 15 compliance location

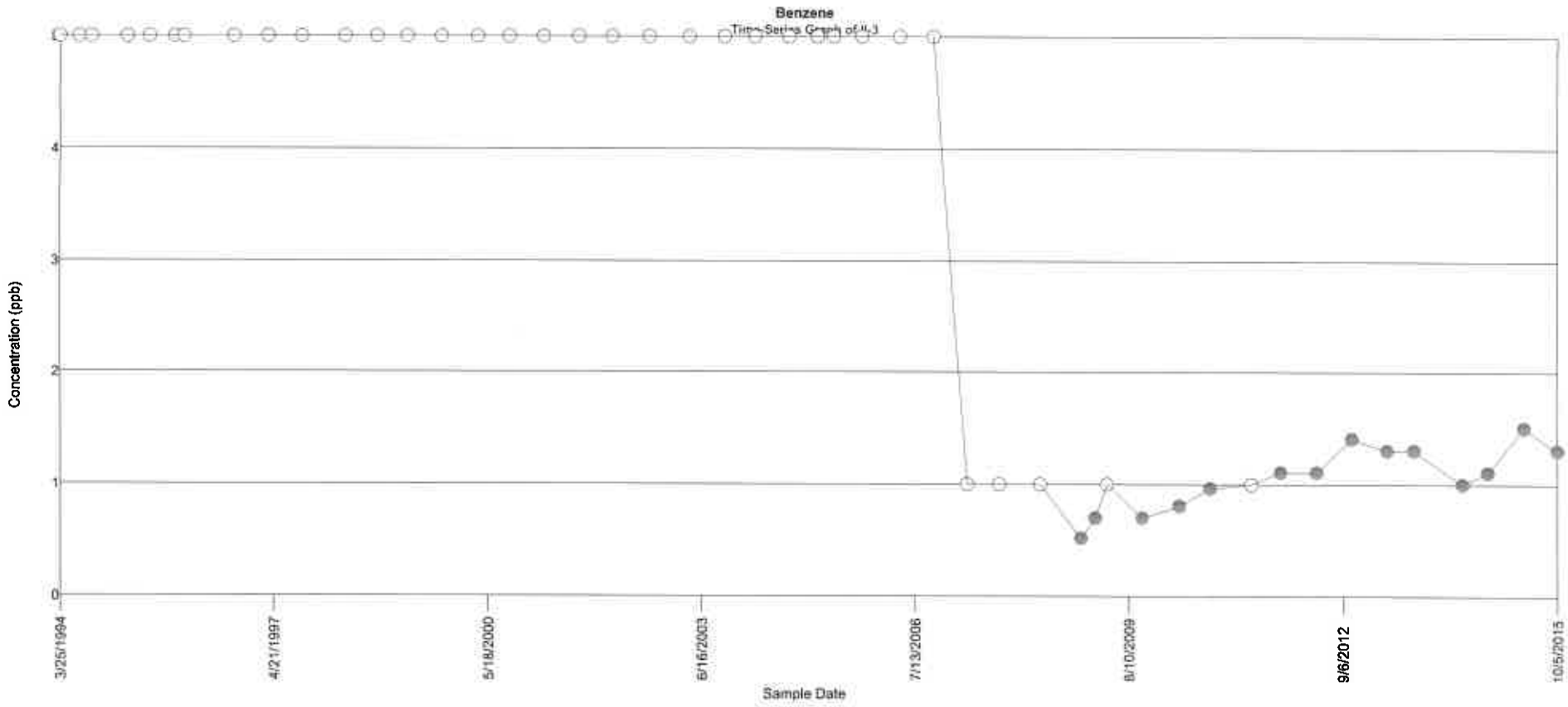
Location	Obs.	Non-Detects	% ND	Total
II-1	49	27	55.102	2608.81
II-2	49	39	79.5918	2343.63
II-3	49	30	61.2245	1965.02
II-4	48	17	35.4167	3811.01
II-5	48	29	60.4167	1748.79
II-8	47	33	70.2128	2285.5
I-5	29	21	72.4138	2184
II-6	45	30	66.6667	1849.94
II-7	46	38	82.6087	1554.73
II-7B	33	32	96.9697	872.7
II-12	23	14	60.8696	473.91
II-9	23	18	78.2609	1531.8
II-10	1	1	100	50
II-11	1	1	100	50
II-3B	5	3	60	30.54

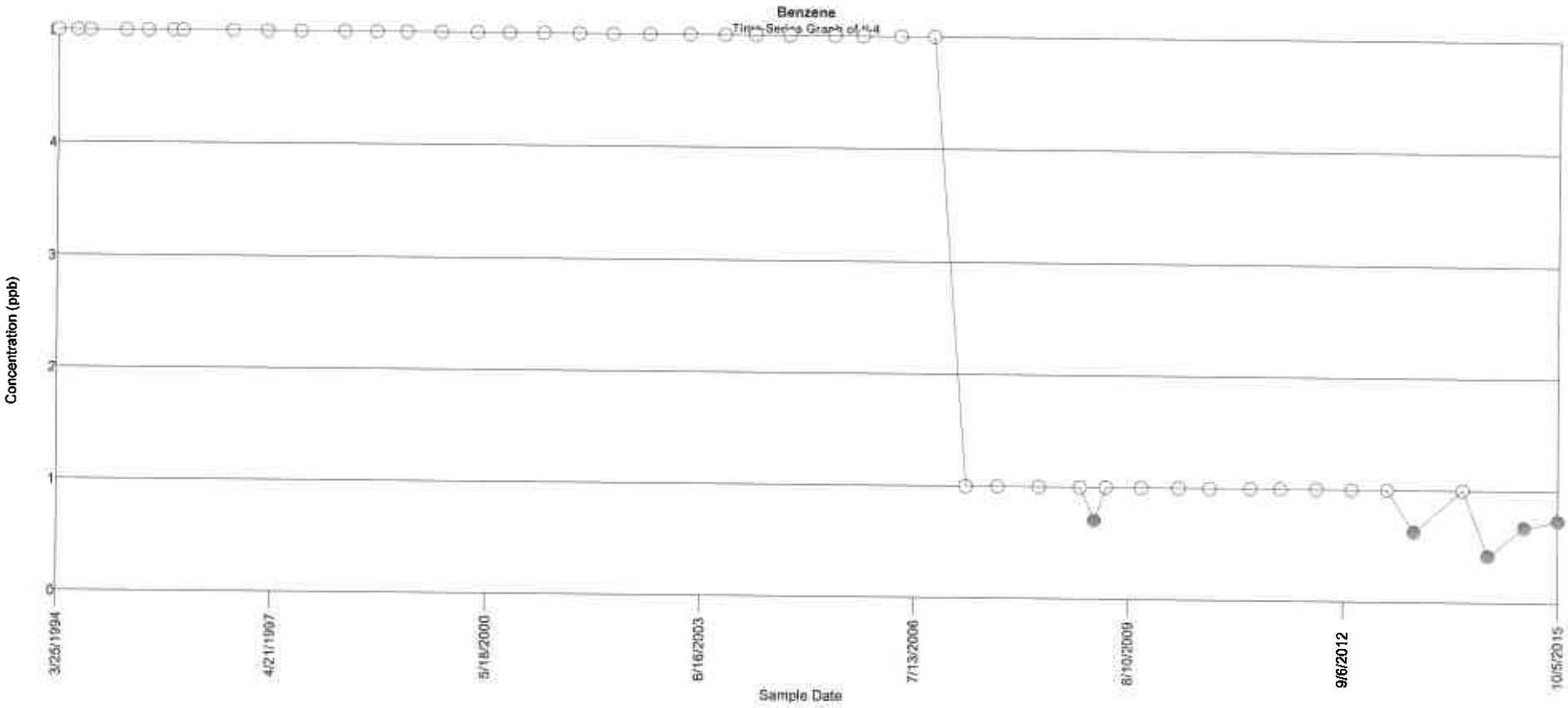
Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
II-1	53.241	75.894	9.98535	10.3267	16358.5	333.847
II-2	47.8292	66.319	4.57351	10.3267	12864.5	262.541
II-3	40.1024	44.5283	-3.15322	10.3267	15038	306.898
II-4	79.396	92.2538	36.1404	10.398	19720.5	410.844
II-5	36.4331	30.2667	-6.82255	10.398	14893.5	310.281
II-8	48.6277	85.5619	5.37199	10.4717	13498.5	287.202
I-5	75.3103	79.2483	32.0547	12.4701	8561.5	295.224
II-6	41.1098	40.6046	-2.14589	10.6273	13320	296
II-7	33.7985	21.0603	-9.45719	10.5481	11278	245.174
II-7B	26.4455	20.5973	-16.8102	11.8741	6793	205.848
II-12	20.6048	19.1372	-22.6509	13.6651	6897	299.87
II-9	66.6	90.9341	23.3443	13.6651	6184	268.87
II-10	50	0	6.74433	59.224	198.5	198.5
II-11	50	0	6.74433	59.224	198.5	198.5
II-3B	6.108	2.90123	-37.1477	27.0209	1484.5	296.9

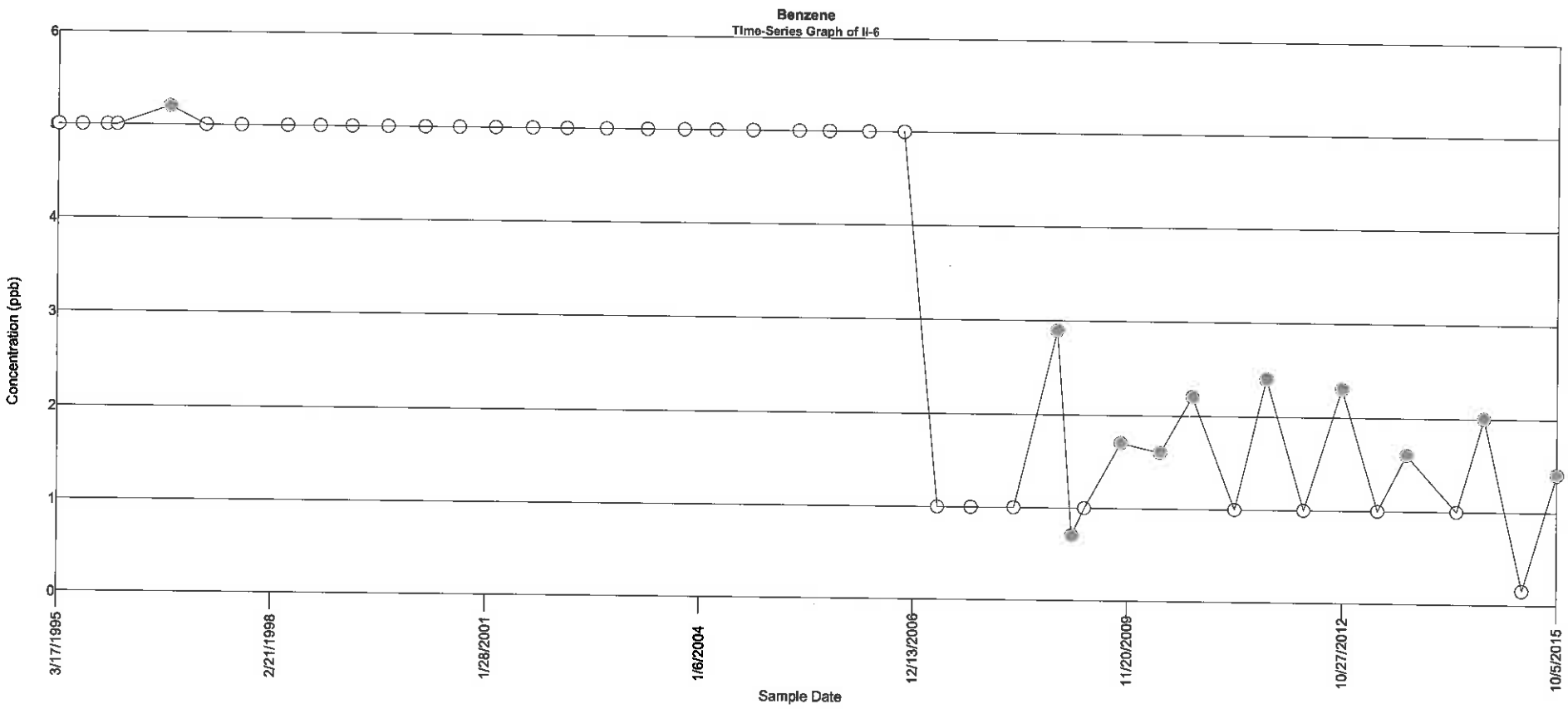
Analysis of Variance Statistics

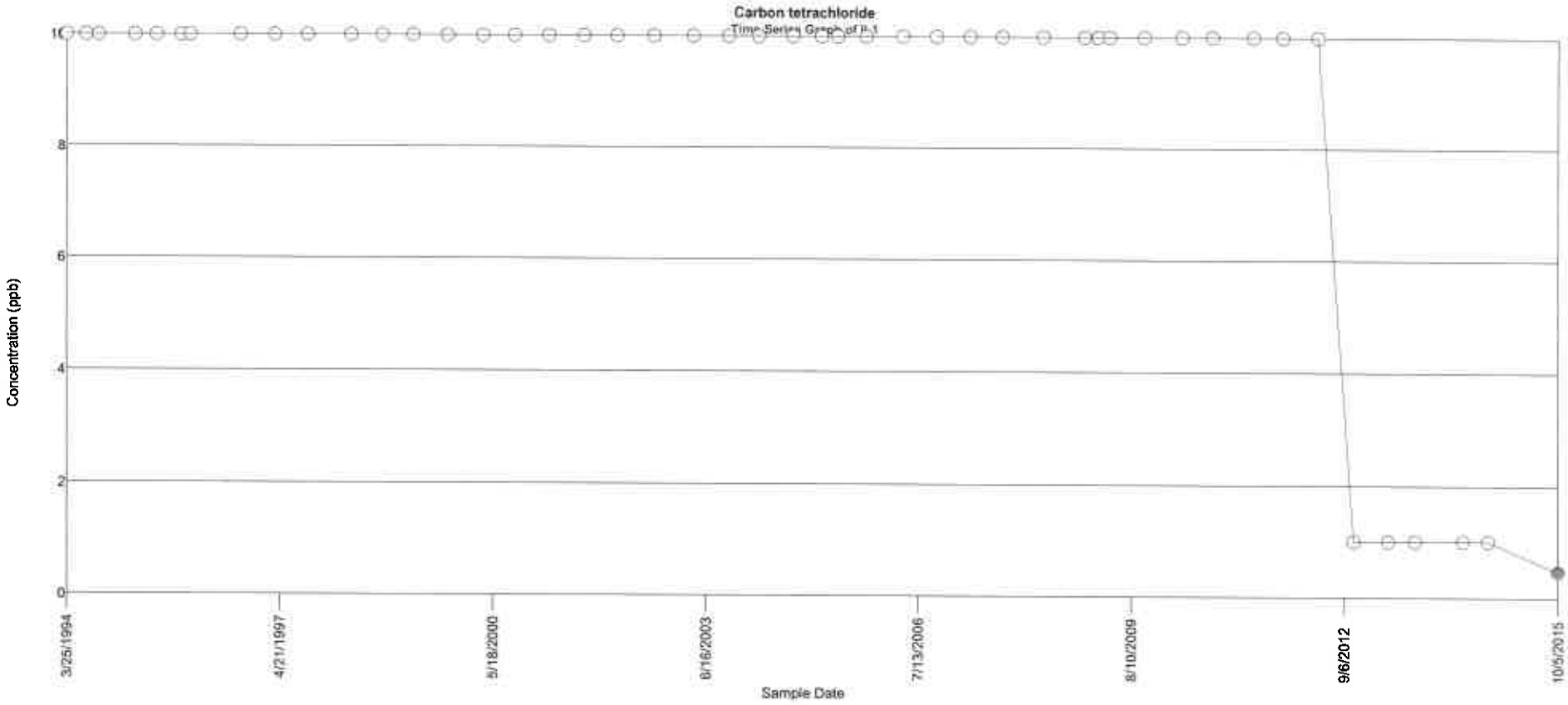
Appendix IV – Time vs Concentration Charts

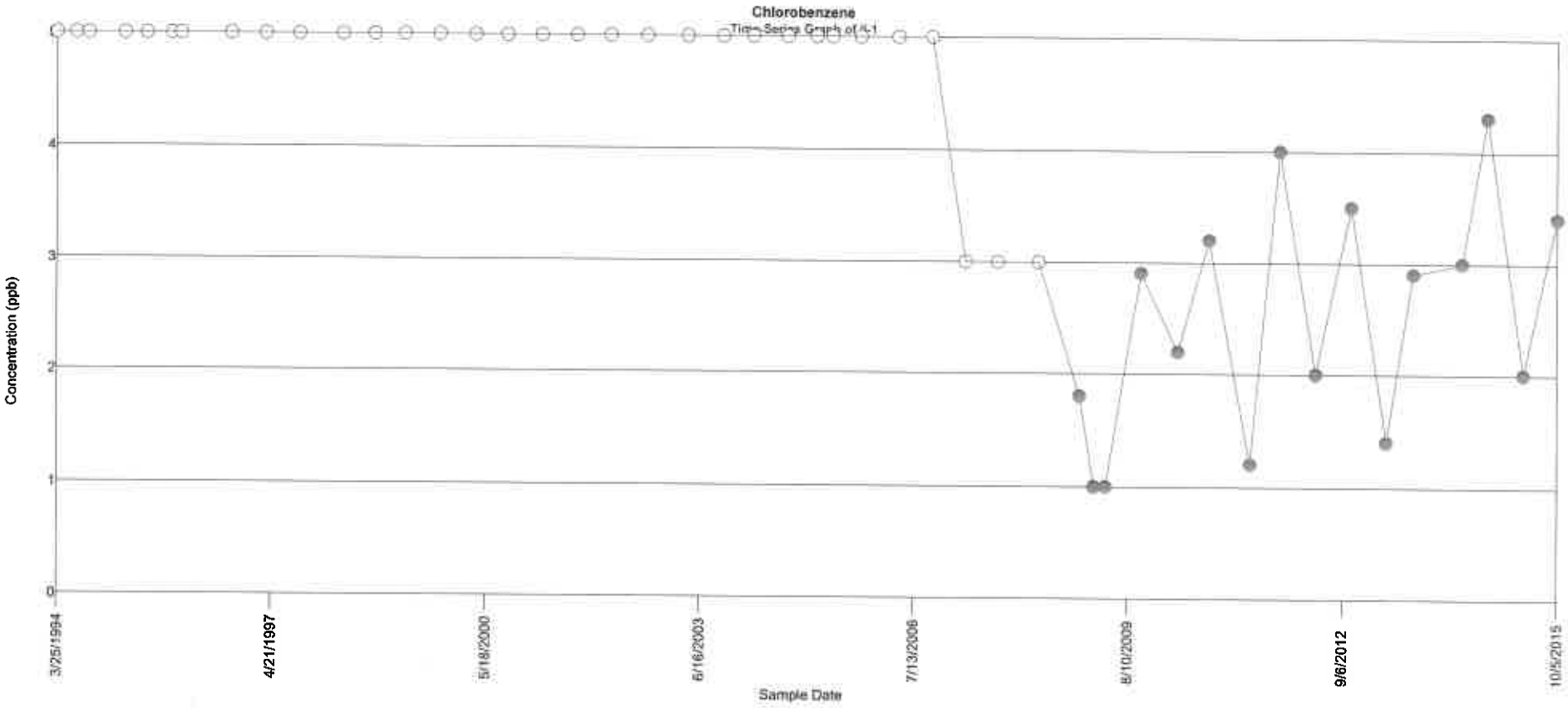

Benzene
Time-Series Graph of II-1
Concentration (ppb)
0
1
2
3
4
5
6
7
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

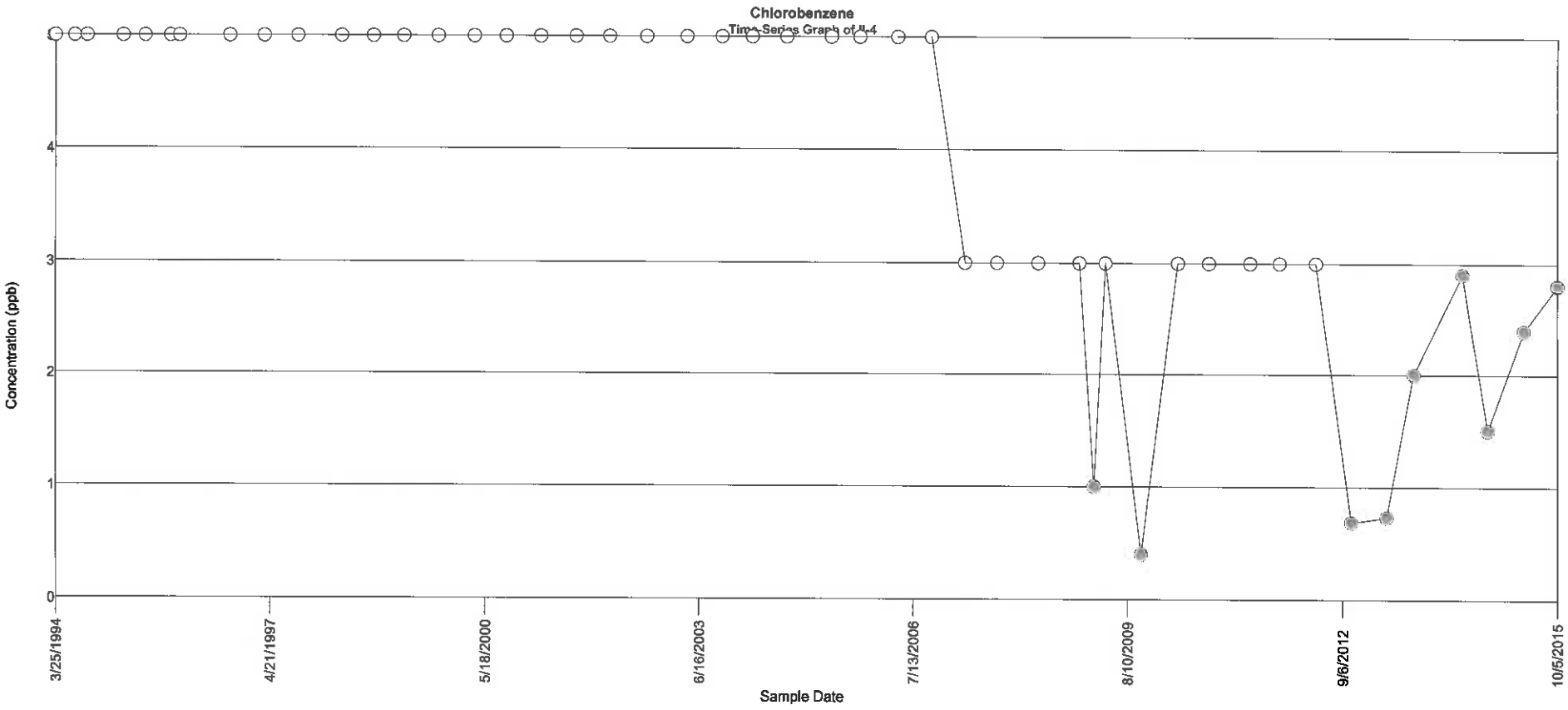

Benzene
Time Series Graph of 4-3
Concentration (ppb)
0
1
2
3
4
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

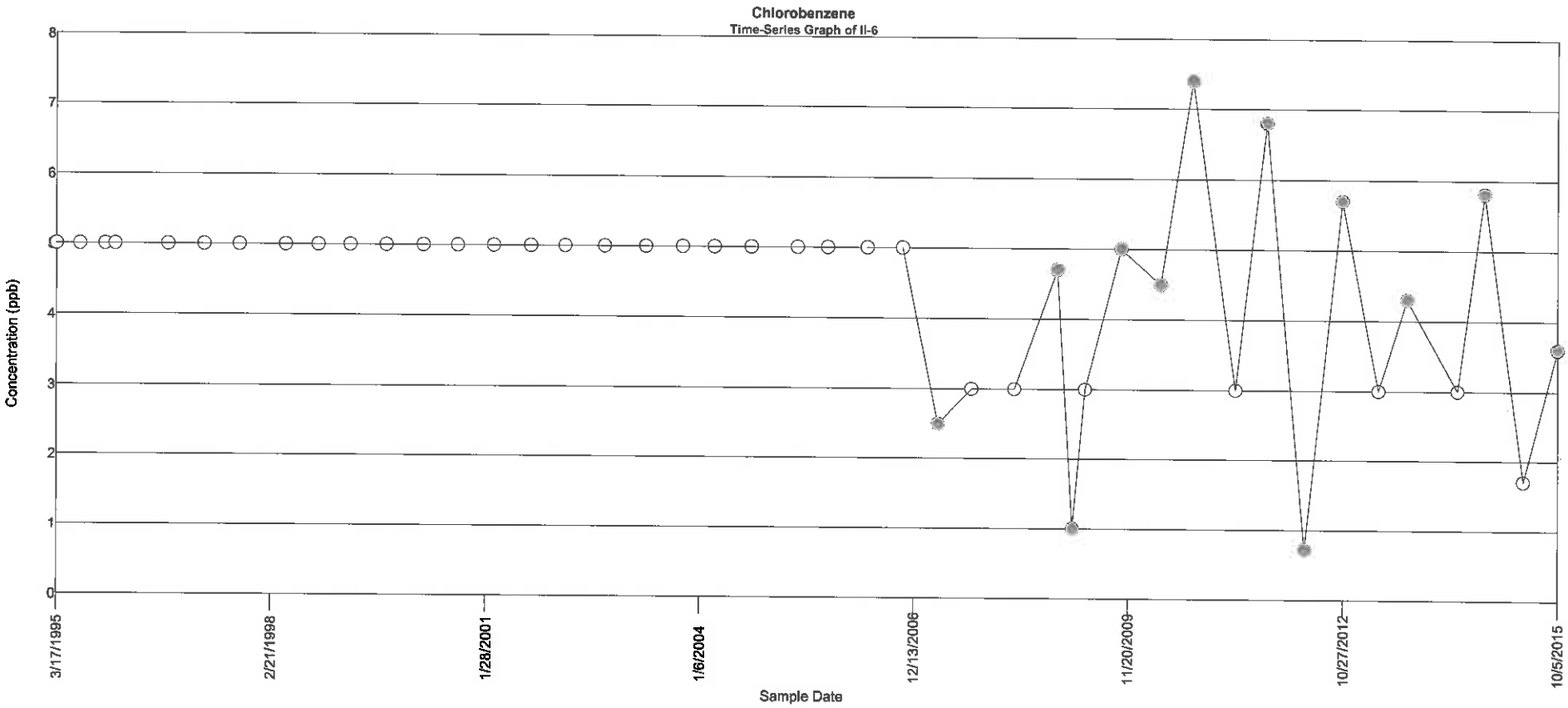

Benzene
Concentration (ppb)
0
1
2
3
4
5
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

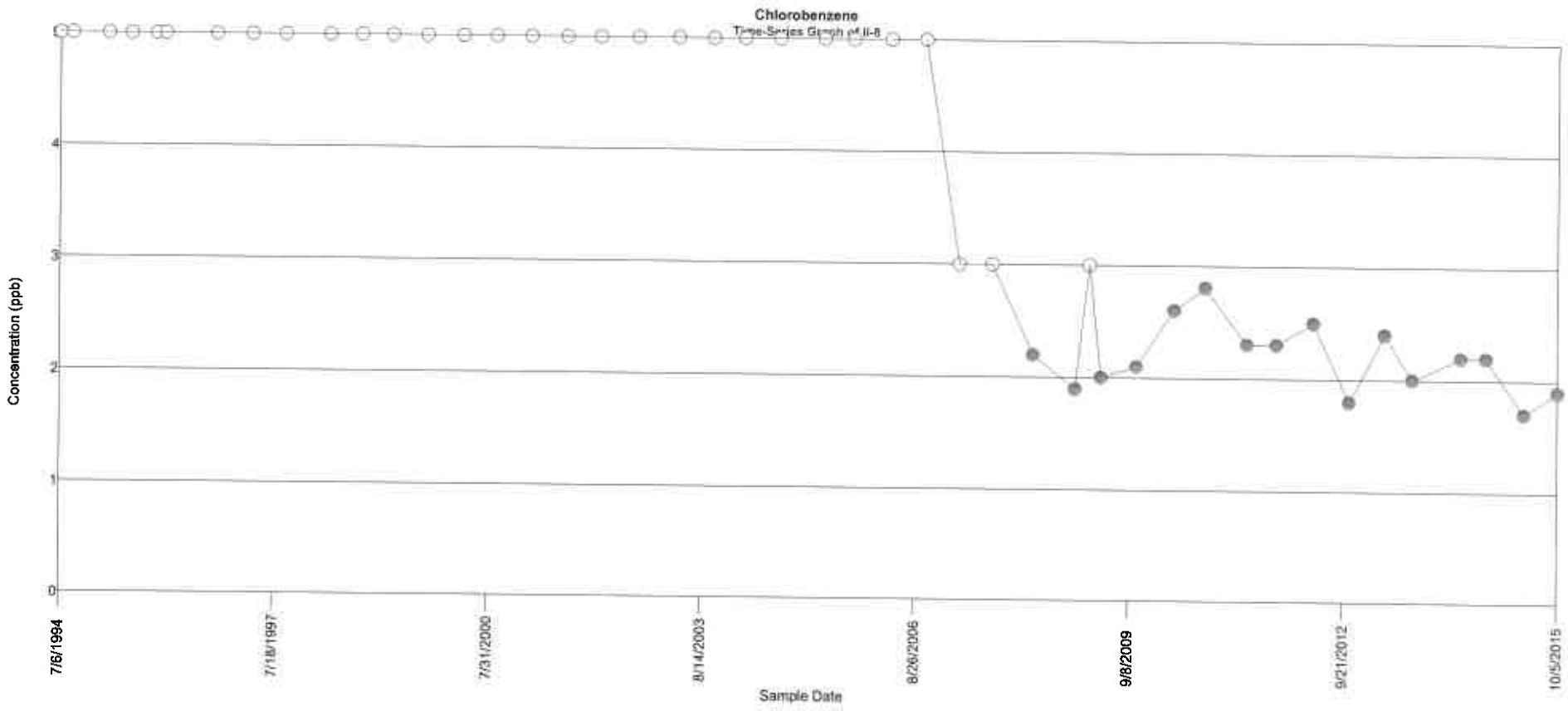

Benzene
Time-Series Graph of II-6
Concentration (ppb)
6
5
4
3
2
1
0
3/17/1995
2/21/1998
1/28/2001
1/6/2004
12/13/2006
11/20/2009
10/27/2012
10/5/2015
Sample Date

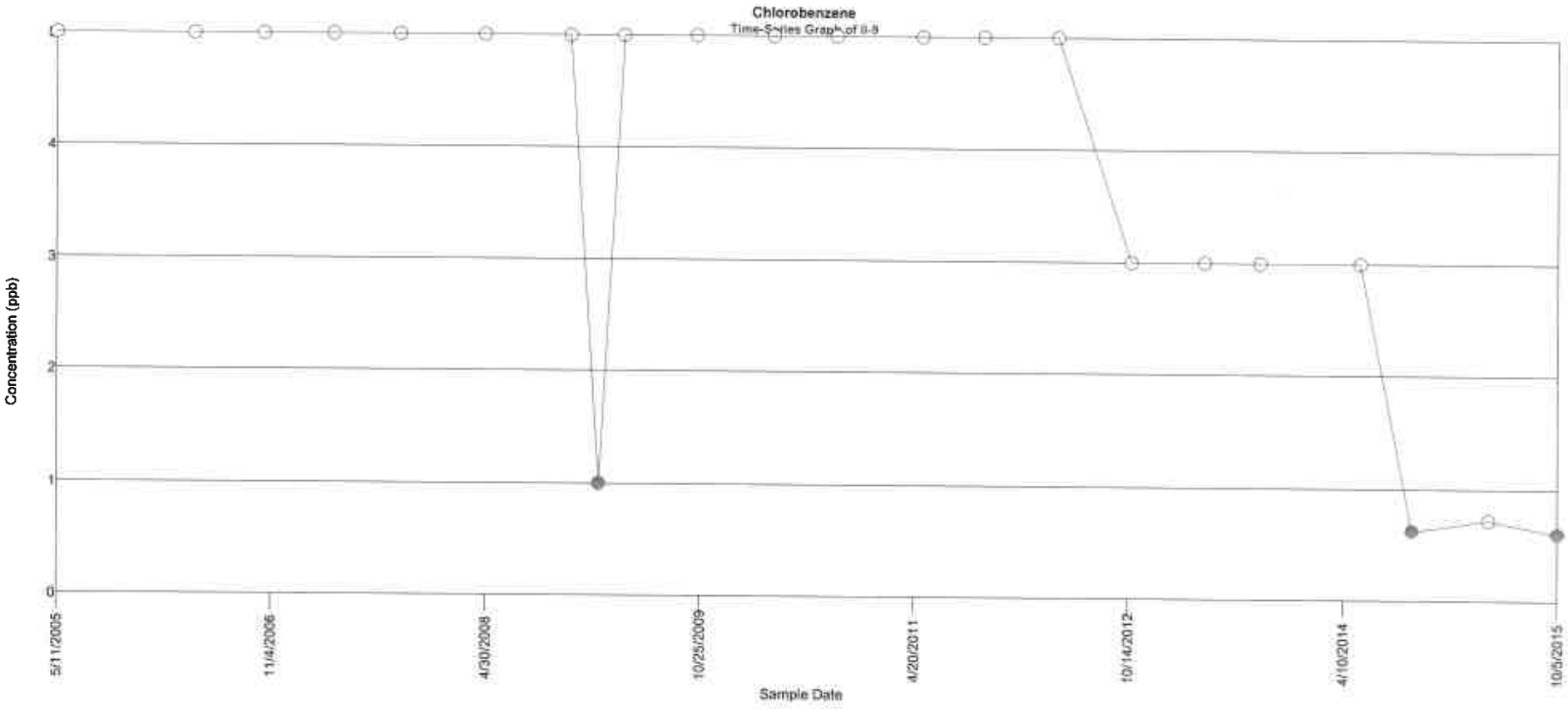

Carbon tetrachloride
Time Series Graph of P-1
Concentration (ppb)
10
8
6
4
2
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

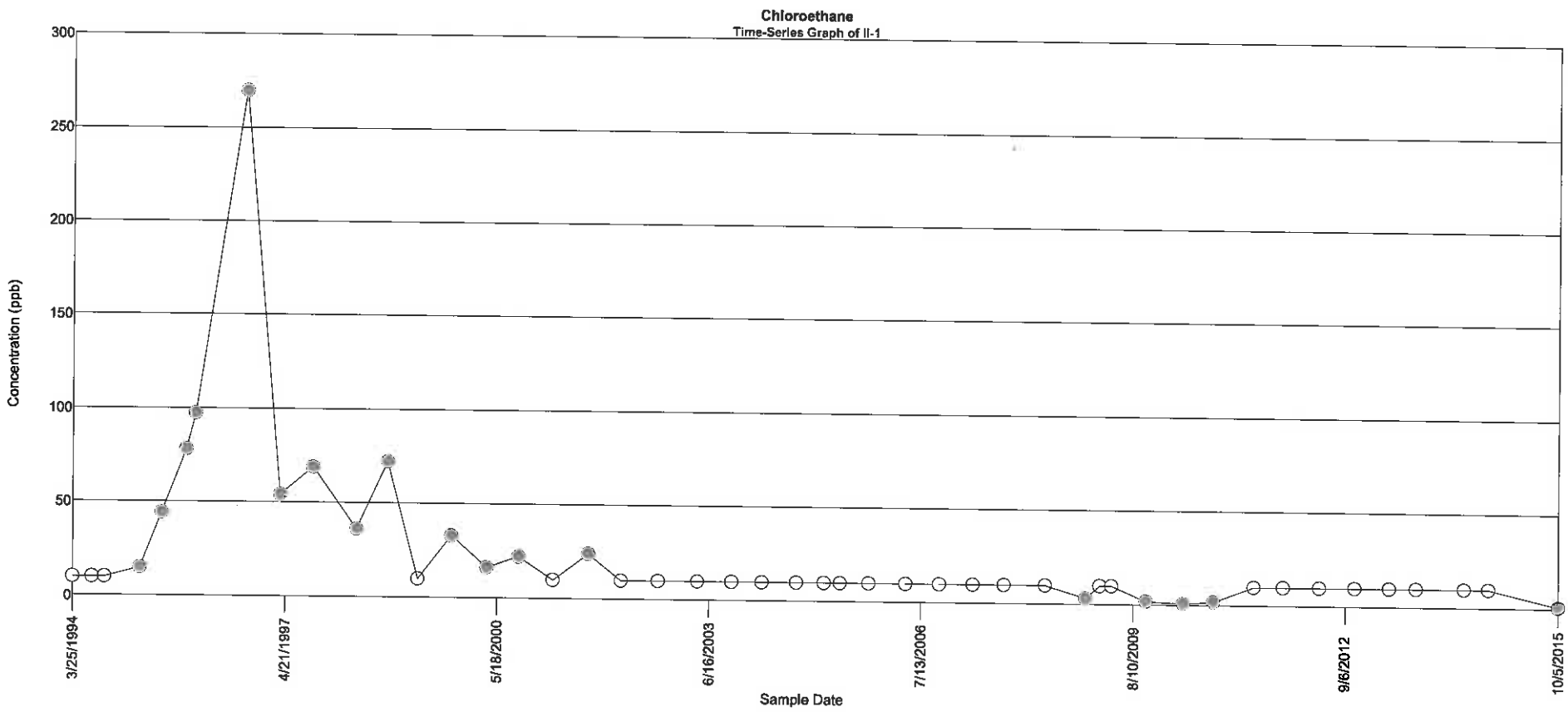

Chlorobenzene
Time Series Graph of N-1
Concentration (ppb)
0
1
2
3
4
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

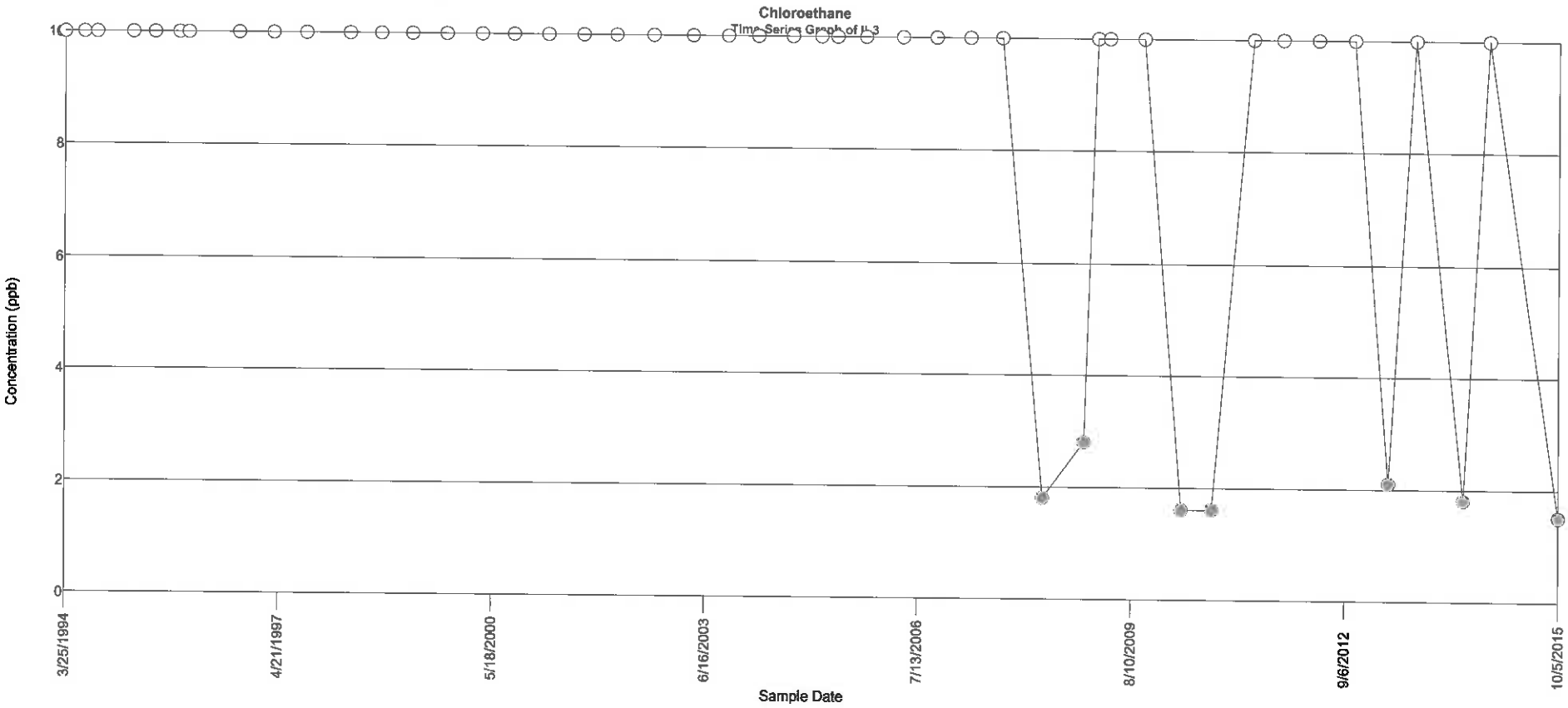

Chlorobenzene
Time Series Graph of IL-4
Concentration (ppb)
0
1
2
3
4
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

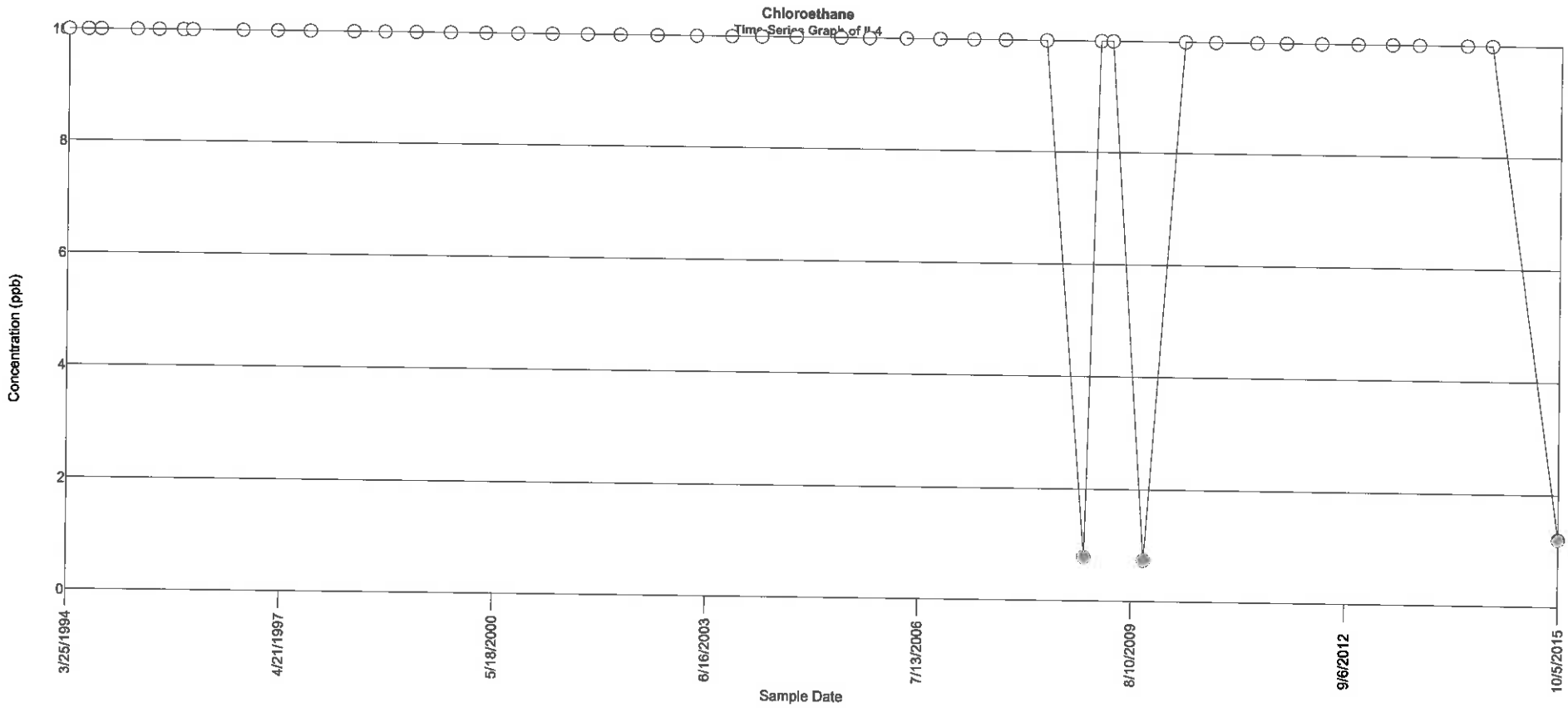

Chlorobenzene
Time-Series Graph of II-6
Concentration (ppb)
0
1
2
3
4
6
7
8
3/17/1995
2/21/1998
1/28/2001
1/6/2004
12/13/2006
11/20/2009
10/27/2012
10/5/2015
Sample Date

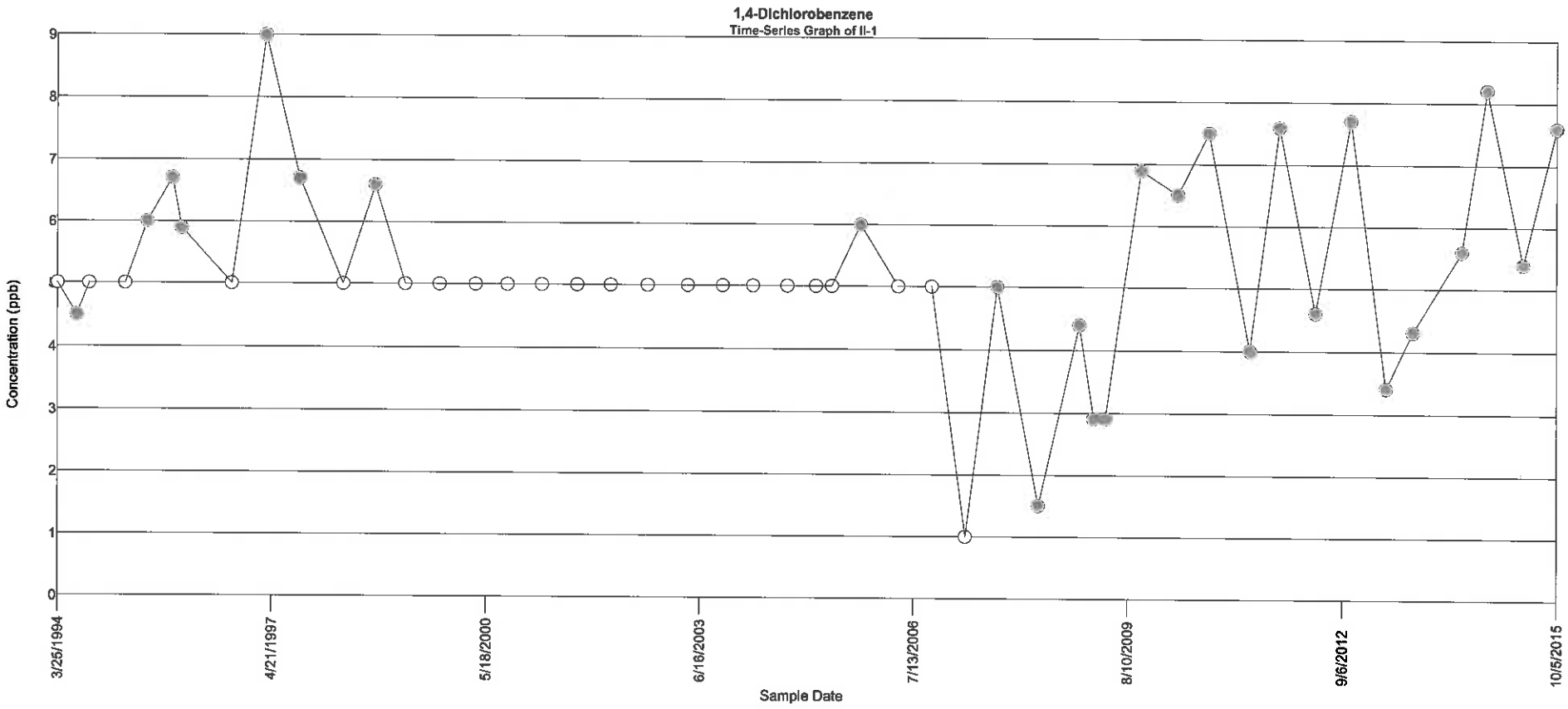

Chlorobenzene
Concentration (ppb)
0
1
2
3
4
7/6/1994
7/18/1997
7/31/2000
8/14/2003
8/26/2006
9/8/2009
9/21/2012
10/5/2015
Sample Date

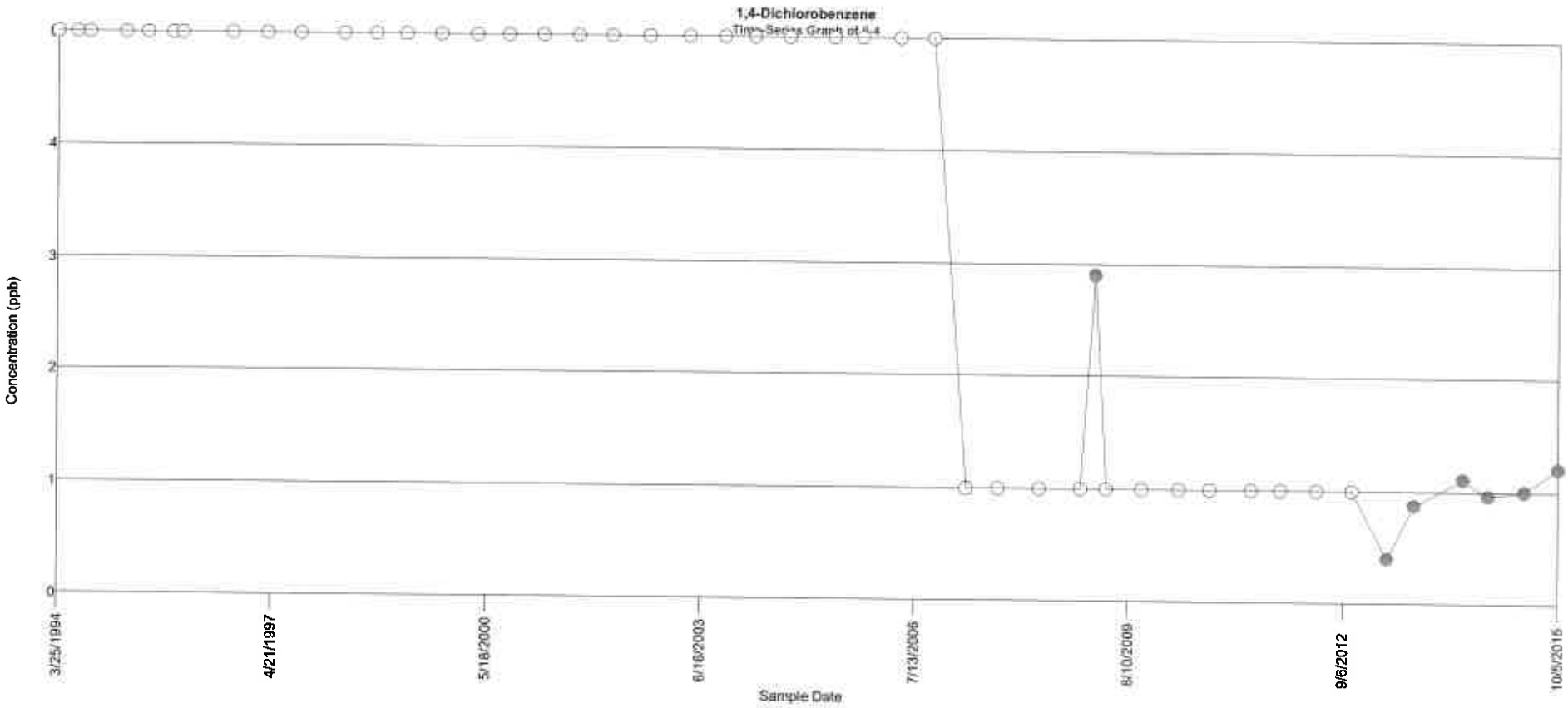

Chlorobenzene
Time-Series Graph of II-8
Concentration (ppb)
0
1
2
3
4
5
5/11/2005
11/4/2006
4/30/2008
10/25/2009
4/20/2011
10/14/2012
4/10/2014
10/5/2015
Sample Date

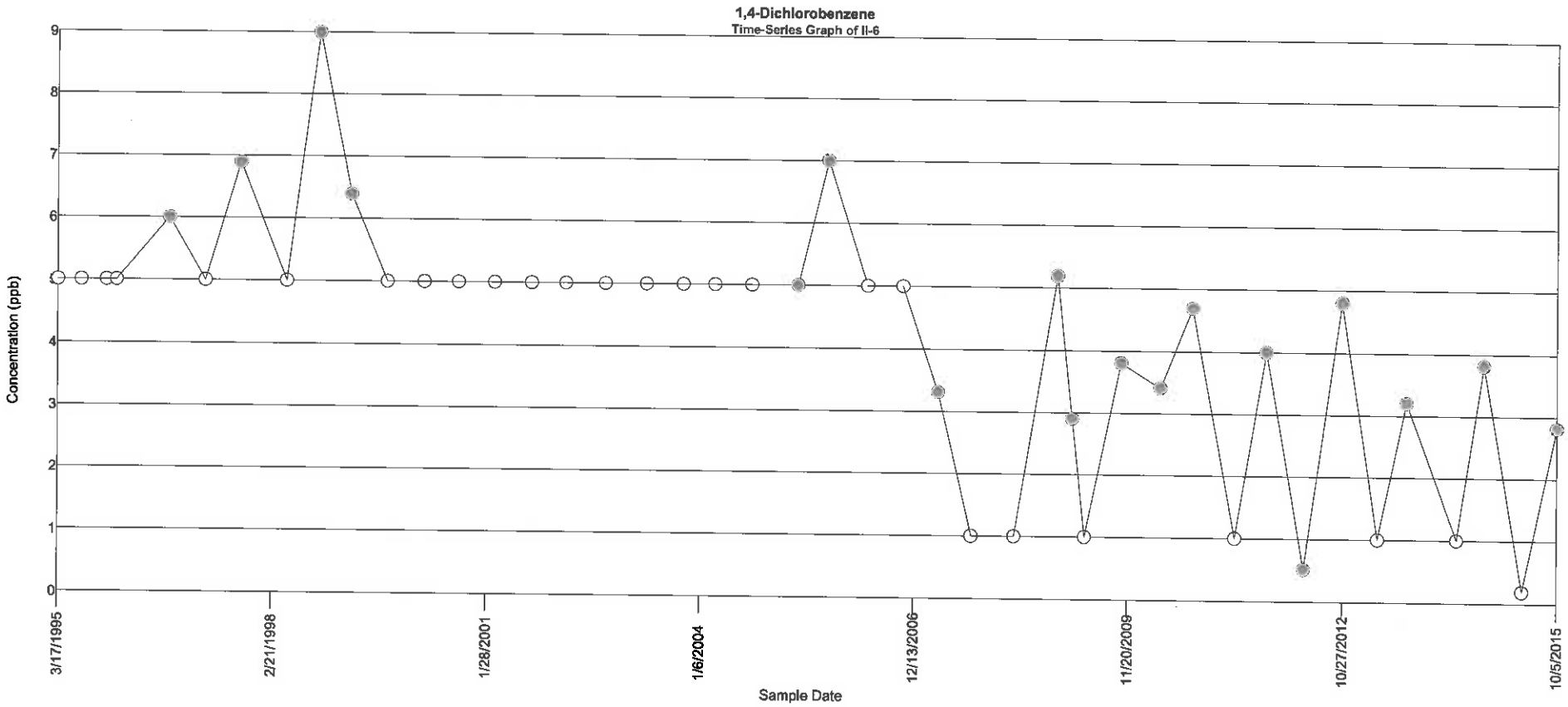

Chloroethane
Time-Series Graph of II-1
Concentration (ppb)
300
250
200
150
100
50
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

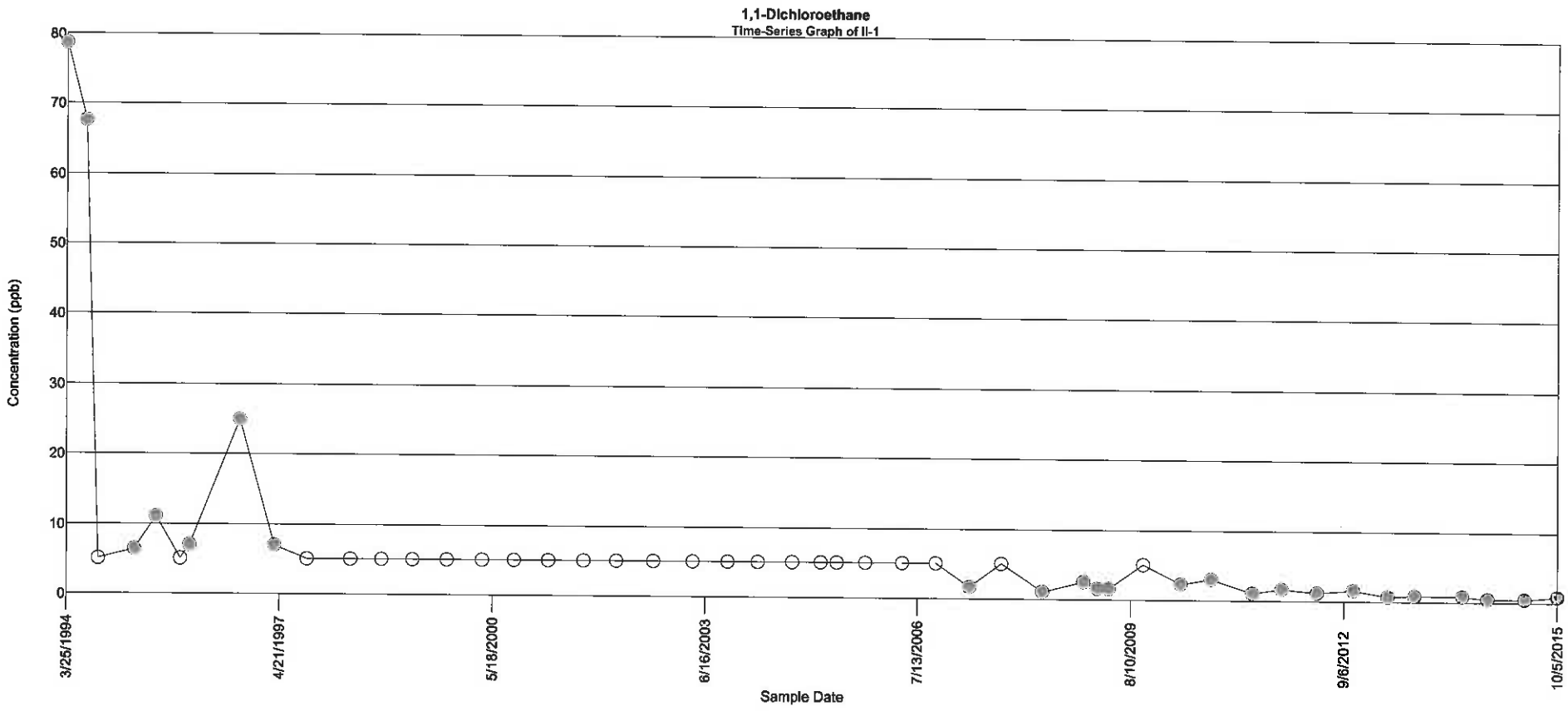

Chloroethane
Time Series Graph of L-3
Concentration (ppb)
0
2
4
6
8
10
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

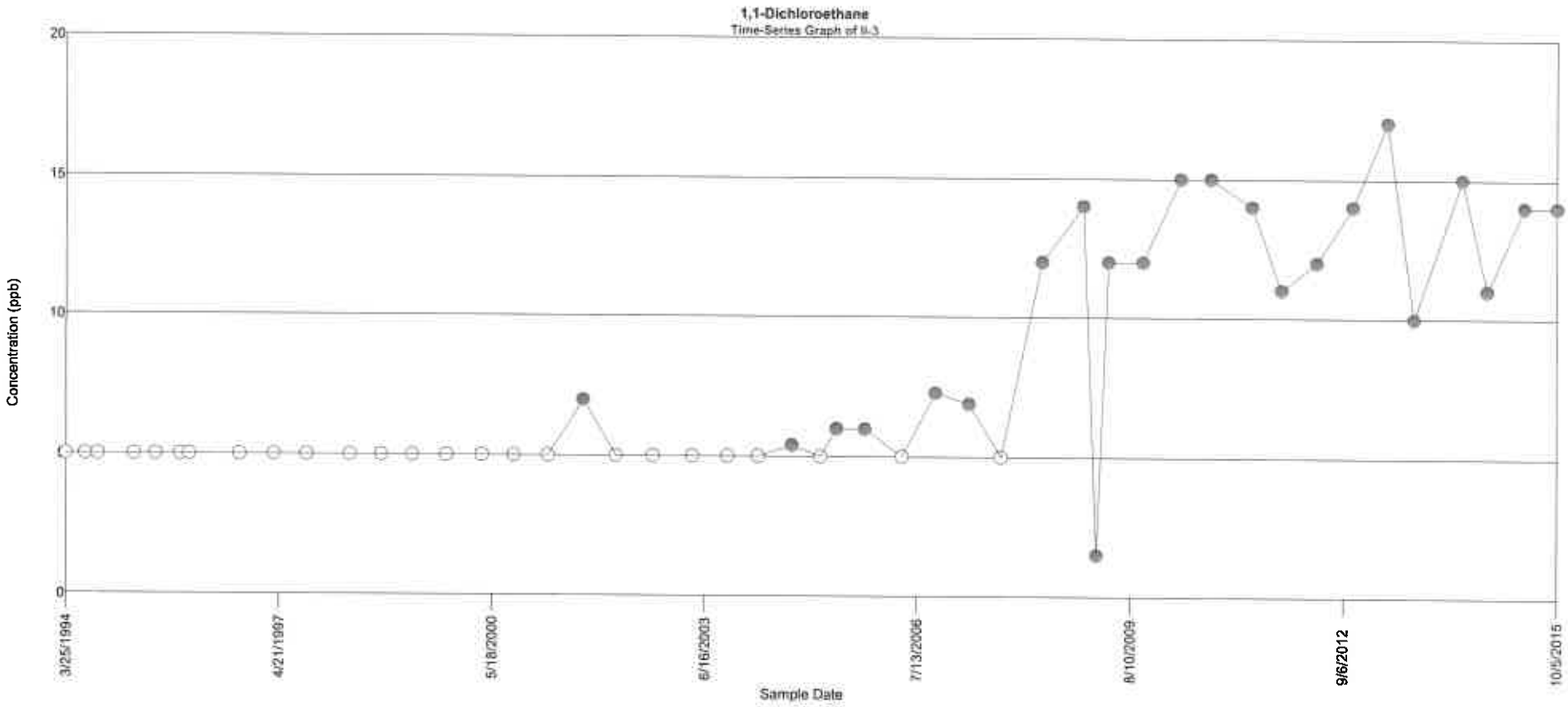

Chloroethane
Time Series Graph of P-4
Concentration (ppb)
10
8
6
4
2
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

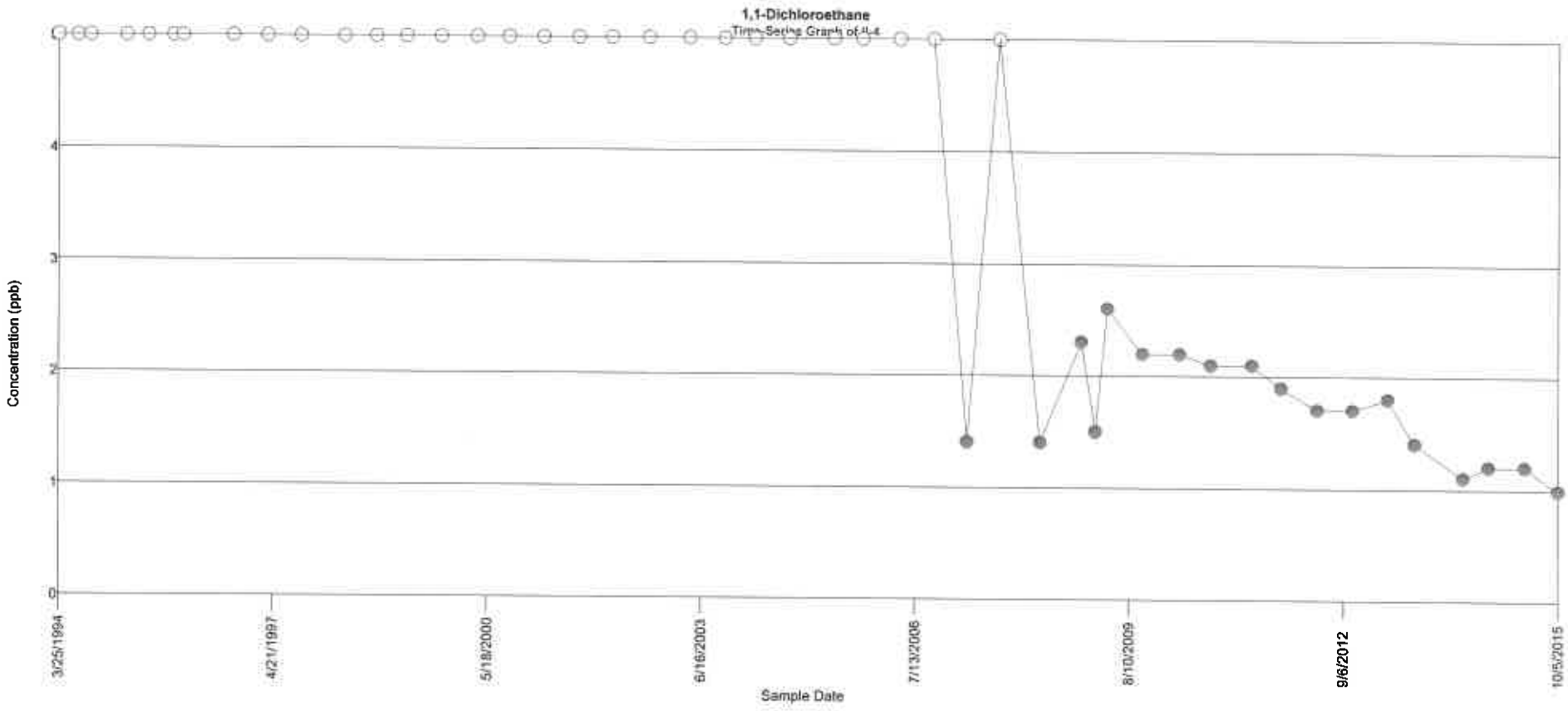

1,4-Dichlorobenzene
Time-Series Graph of II-1
Concentration (ppb)
0
1
2
3
4
5
6
7
8
9
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

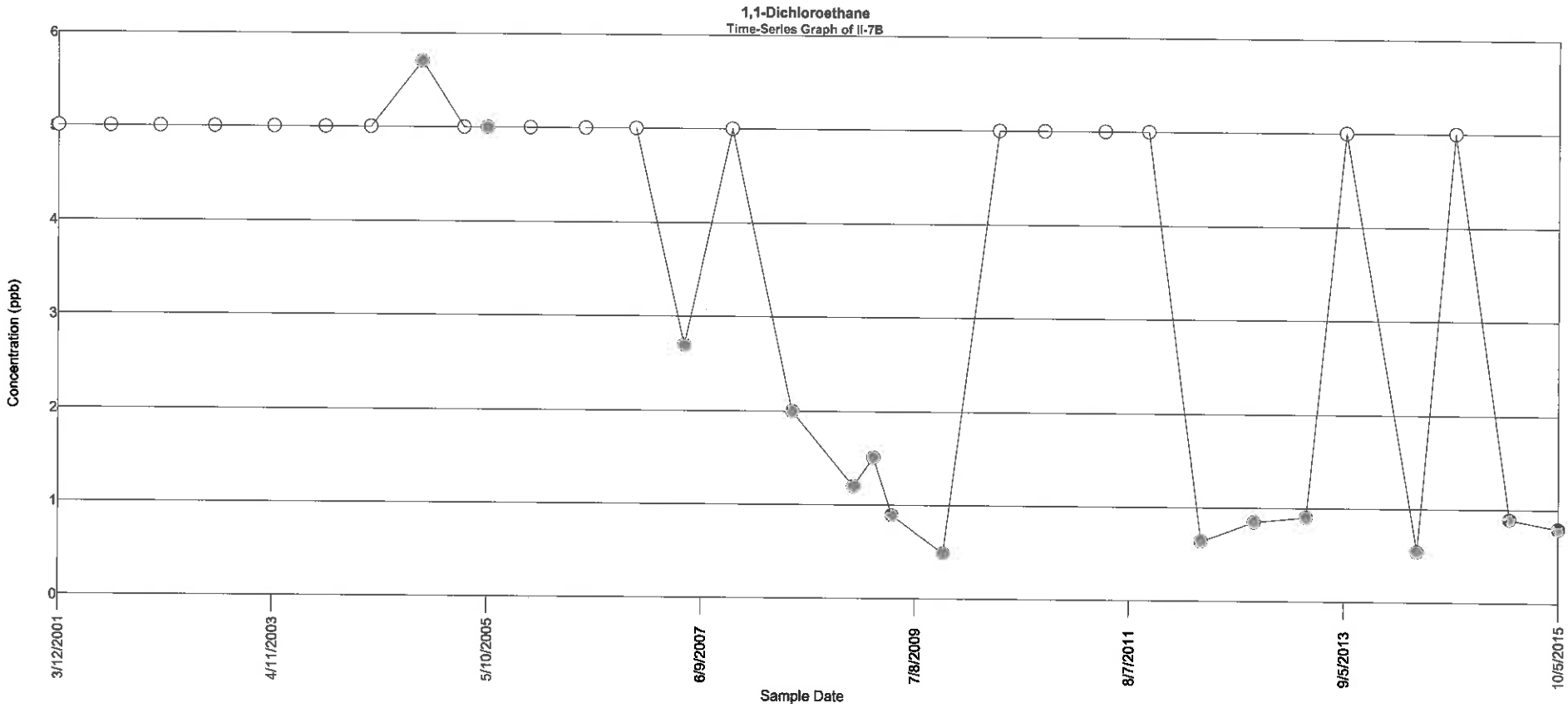

1,4-Dichlorobenzene
Time Series Graph of 1,4
Concentration (ppb)
0
1
2
3
4
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

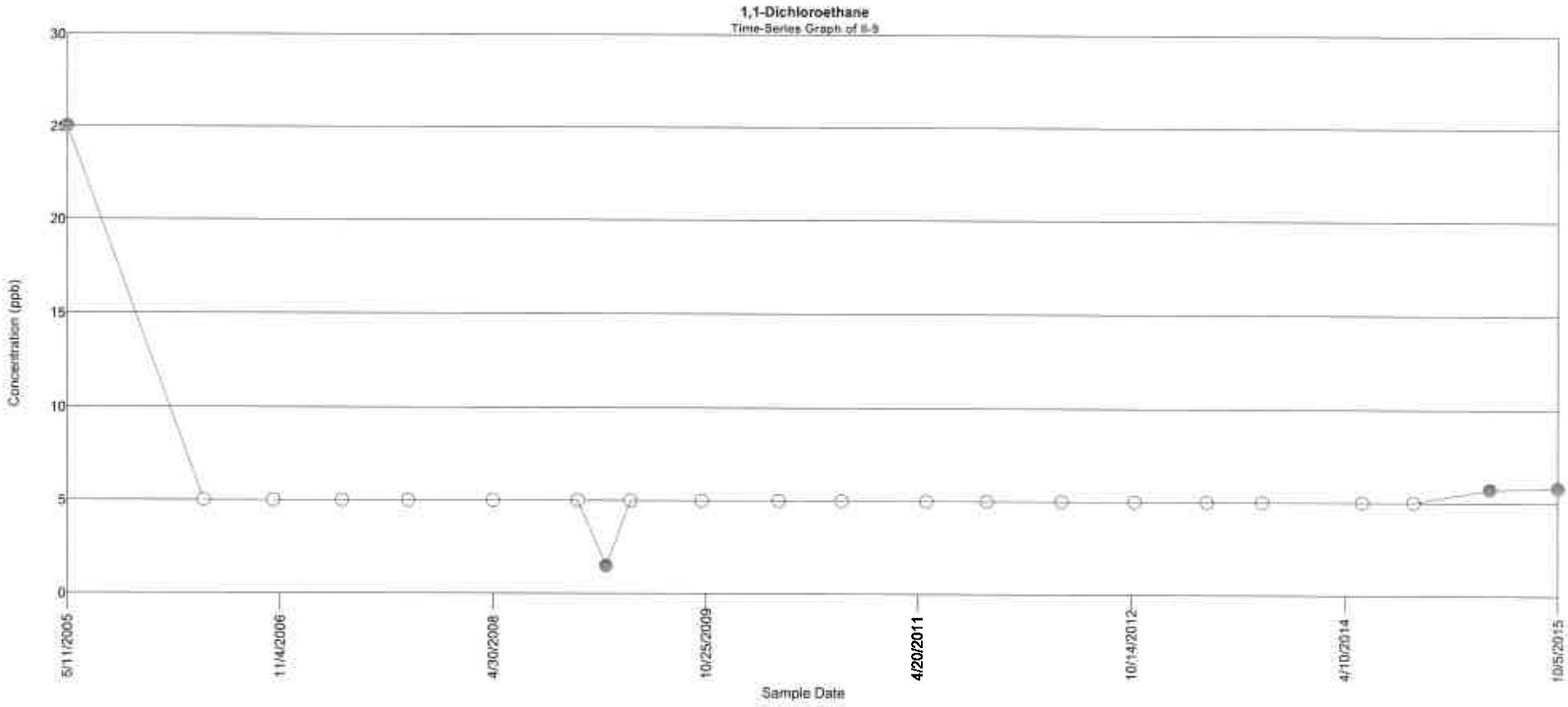

1,4-Dichlorobenzene
Time-Series Graph of II-6
Concentration (ppb)
0
1
2
3
4
5
6
7
8
9
3/17/1995
2/21/1998
1/28/2001
1/6/2004
12/13/2006
11/20/2009
10/27/2012
10/5/2015
Sample Date

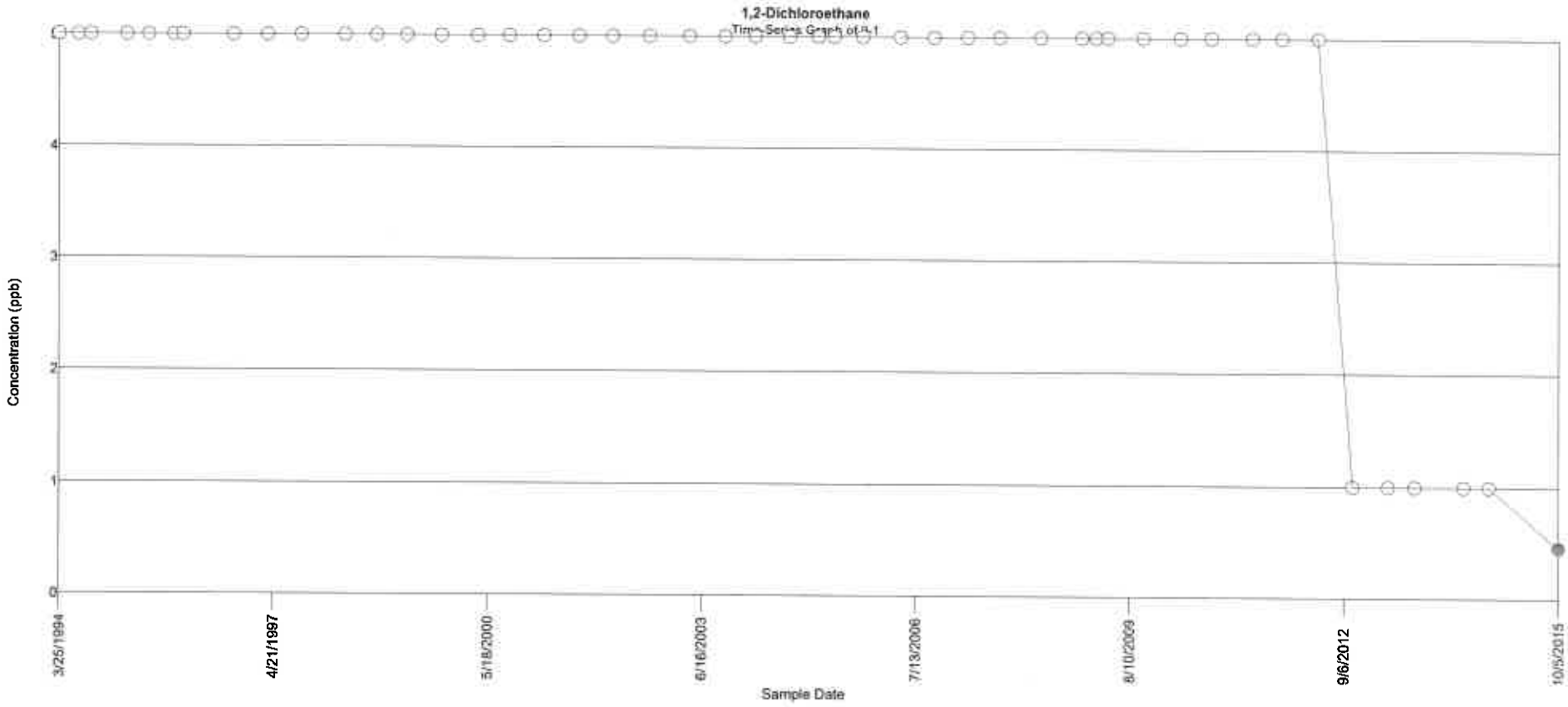

1,1-Dichloroethane
Time-Series Graph of II-1
Concentration (ppb)
80
70
60
50
40
30
20
10
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

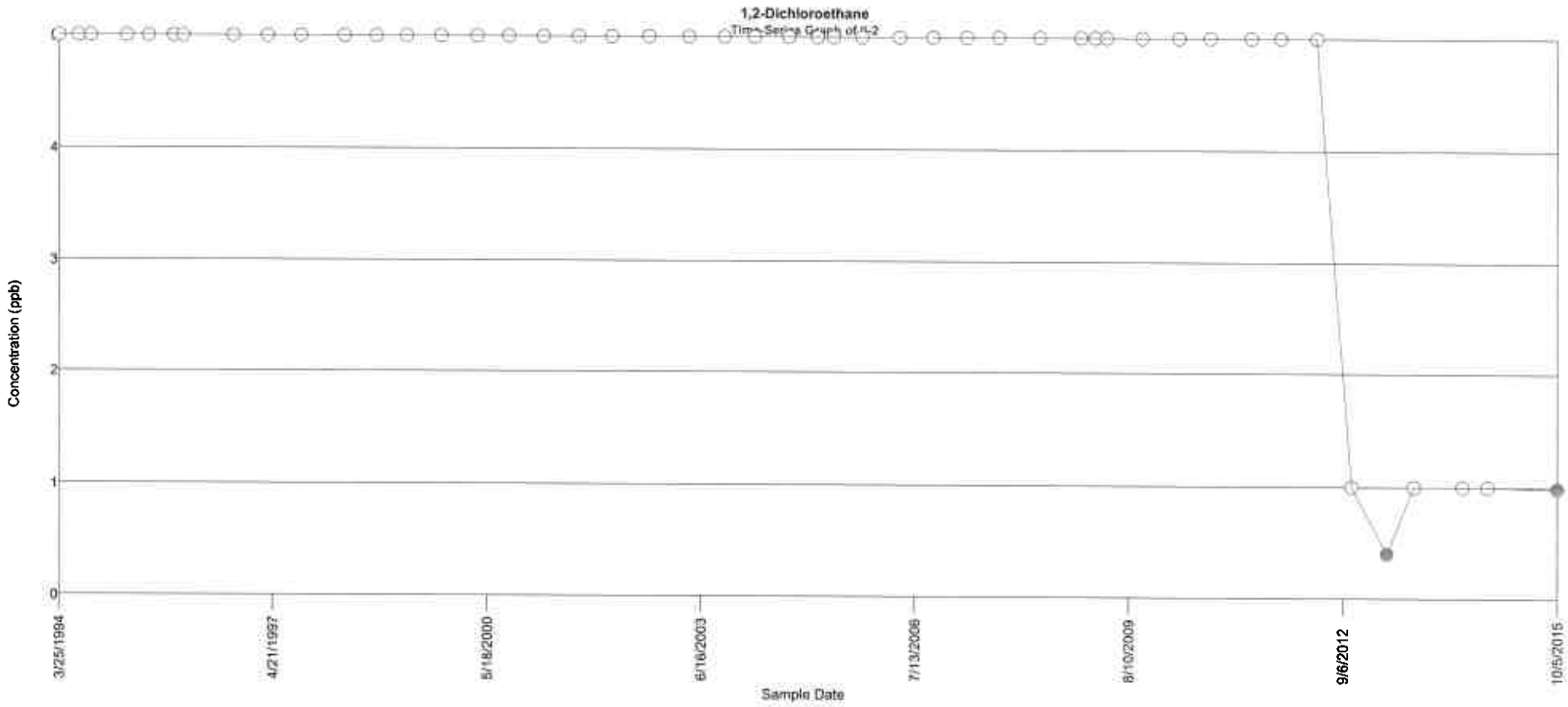

1,1-Dichloroethane
Time-Series Graph of II-3
Concentration (ppb)
20
15
10
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

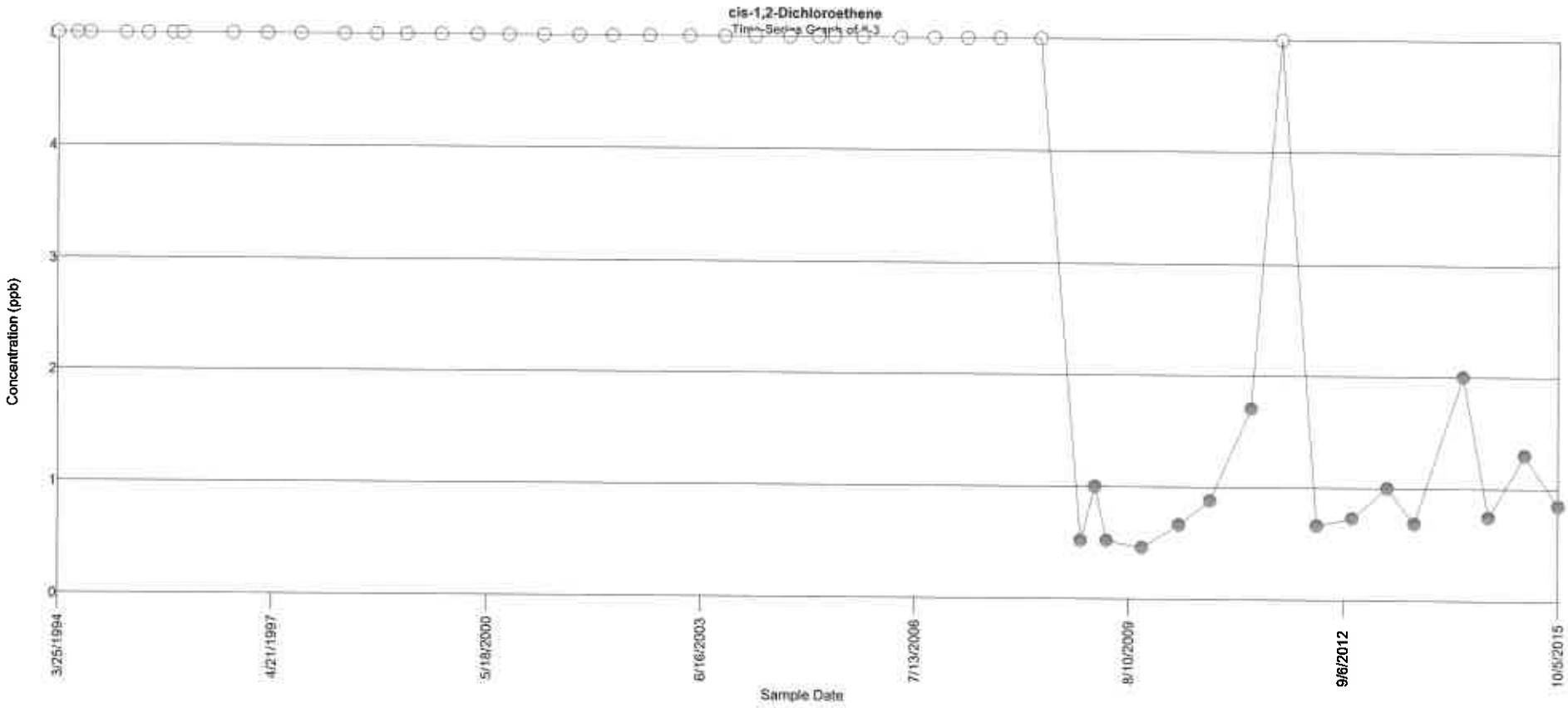

1,1-Dichloroethane
Time-Series Graph of IL-4
Concentration (ppb)
0
1
2
3
4
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

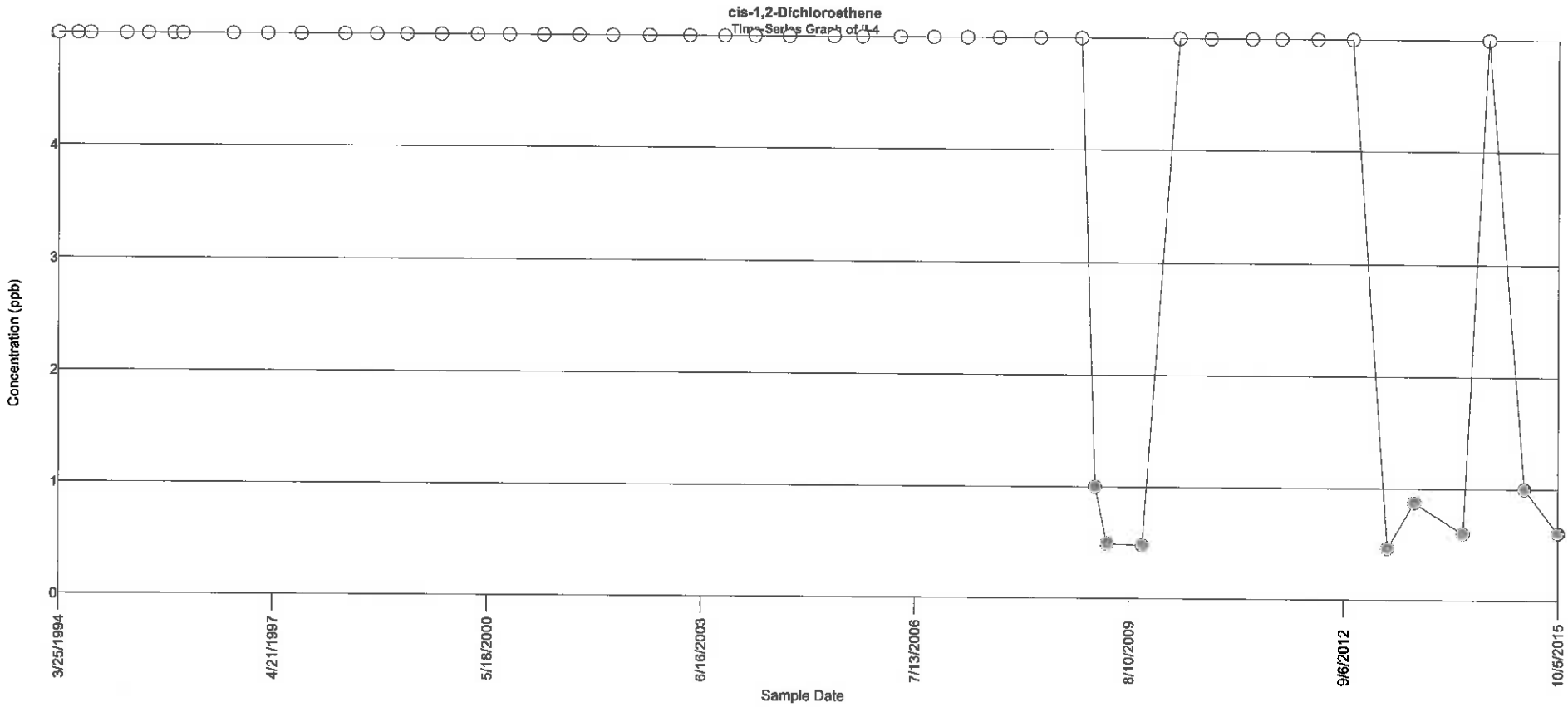

1,1-Dichloroethane
Time-Series Graph of II-7B
Concentration (ppb)
0
1
2
3
4
5
6
3/12/2001
4/11/2003
5/10/2005
6/9/2007
7/8/2009
8/7/2011
9/5/2013
10/5/2015
Sample Date

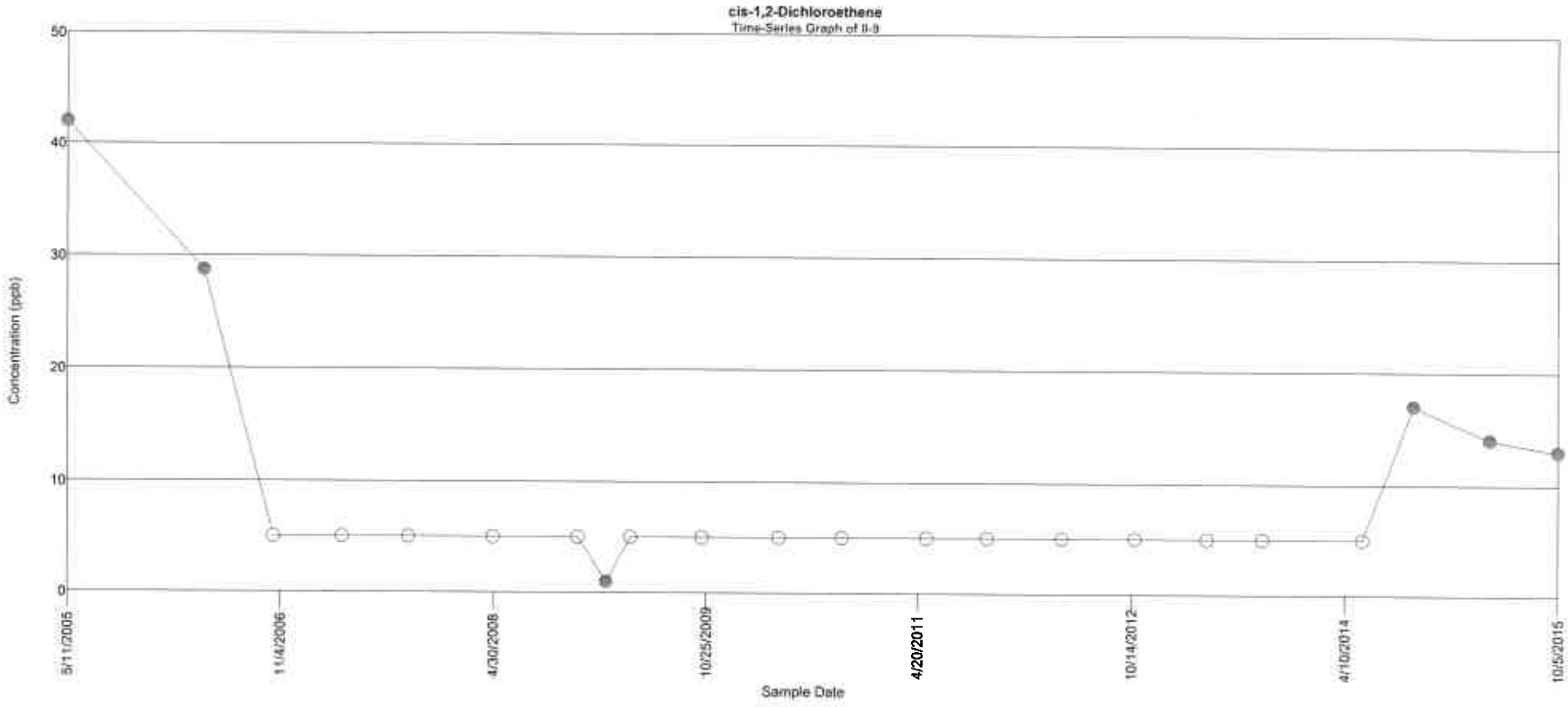

1,1-Dichloroethane
Time-Series Graph of II-9
Concentration (ppb)
30
25
20
15
10
5
0
5/11/2005
11/4/2006
4/30/2008
10/25/2009
4/20/2011
10/14/2012
4/10/2014
10/5/2015
Sample Date

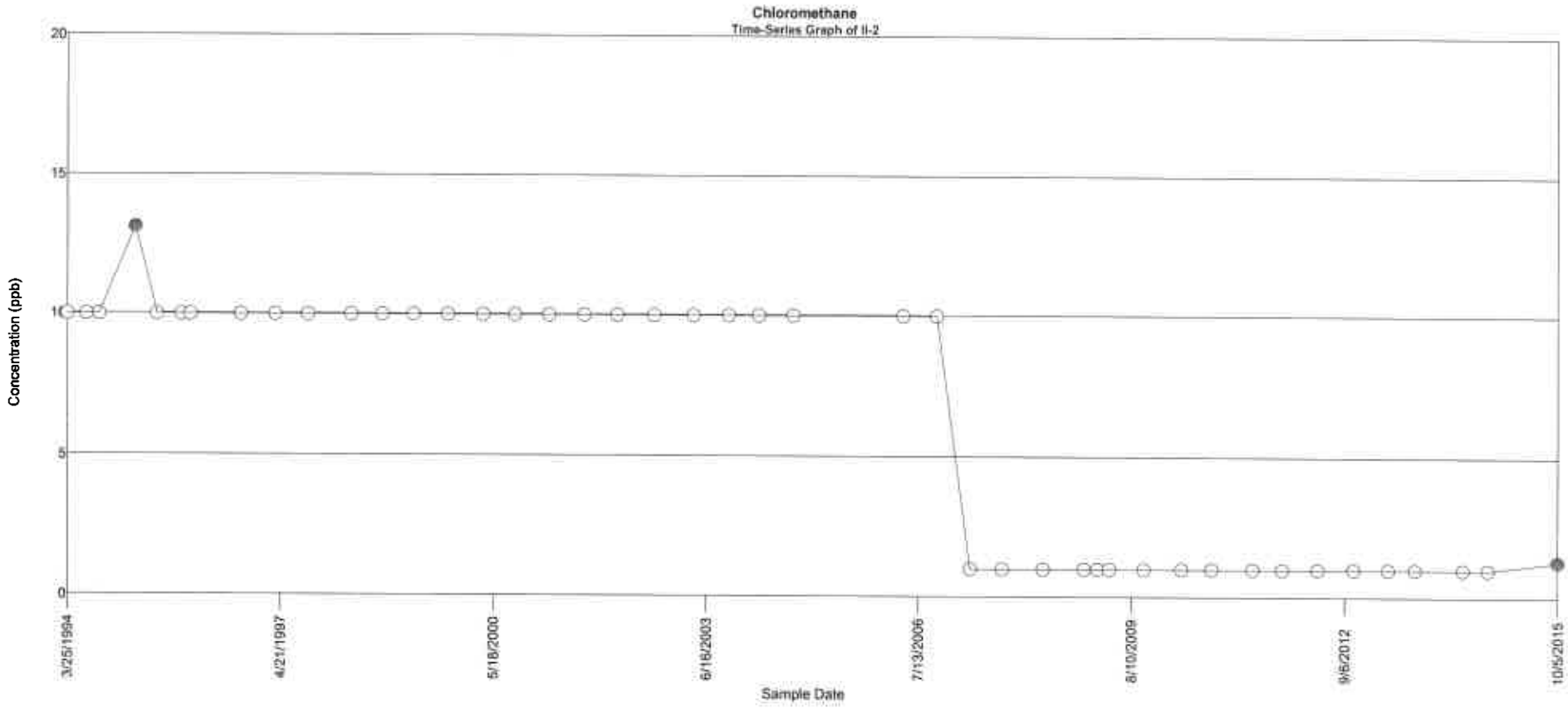

1,2-Dichloroethane
Time Series Graph of R-1
Concentration (ppb)
0
1
2
3
4
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

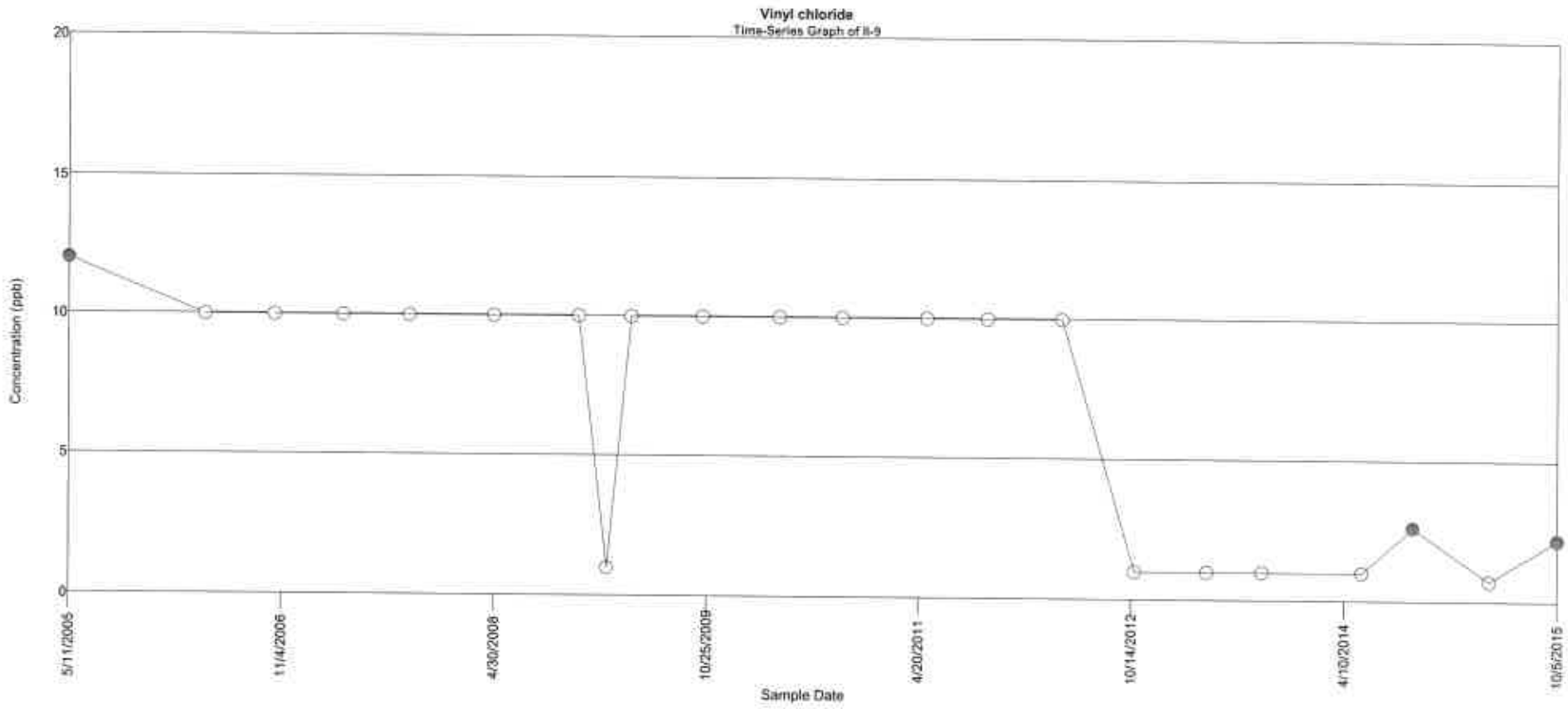

1,2-Dichloroethane
Time Series Graph of 1,2
Concentration (ppb)
0
1
2
3
4
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

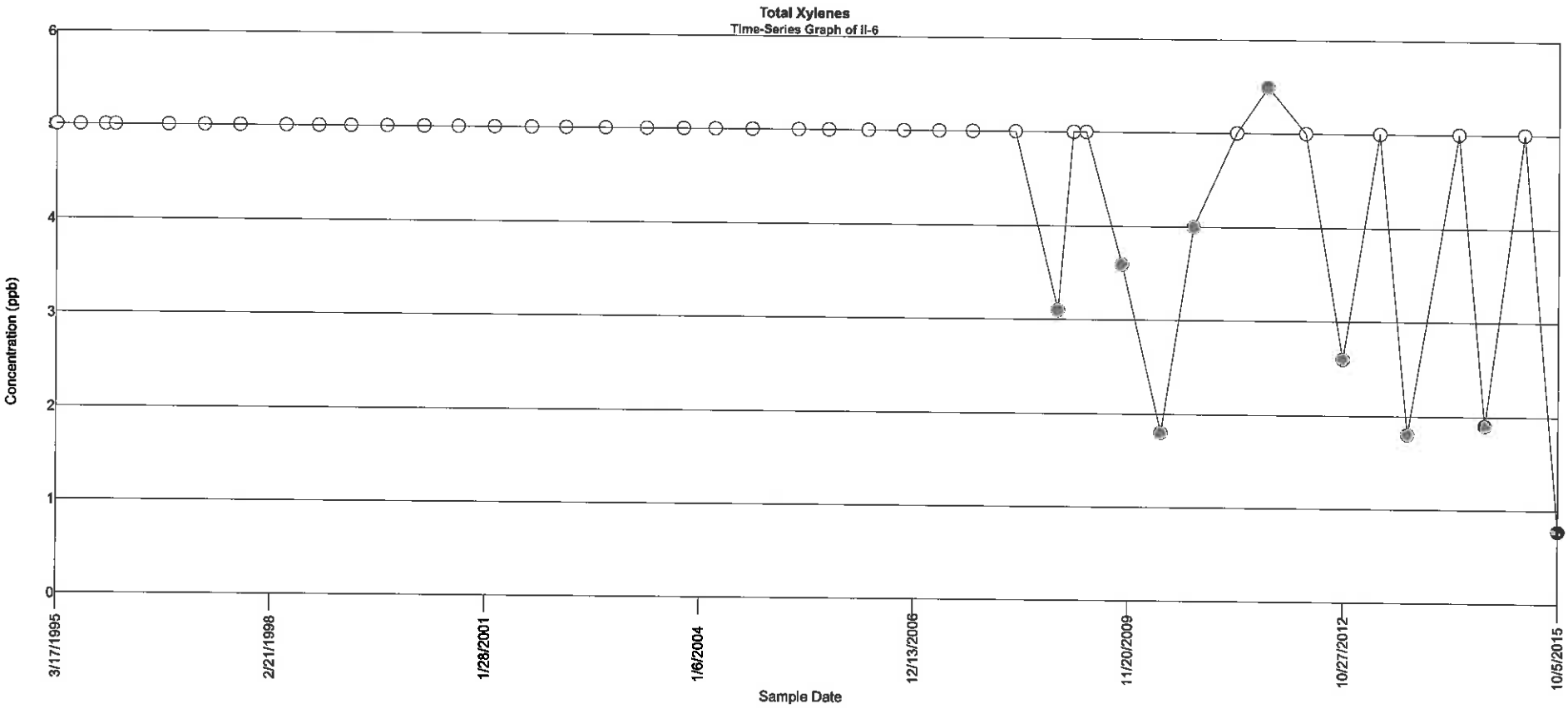

cis-1,2-Dichloroethene
Time-Series Graph of K-3
Concentration (ppb)
0
1
2
3
4
5
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

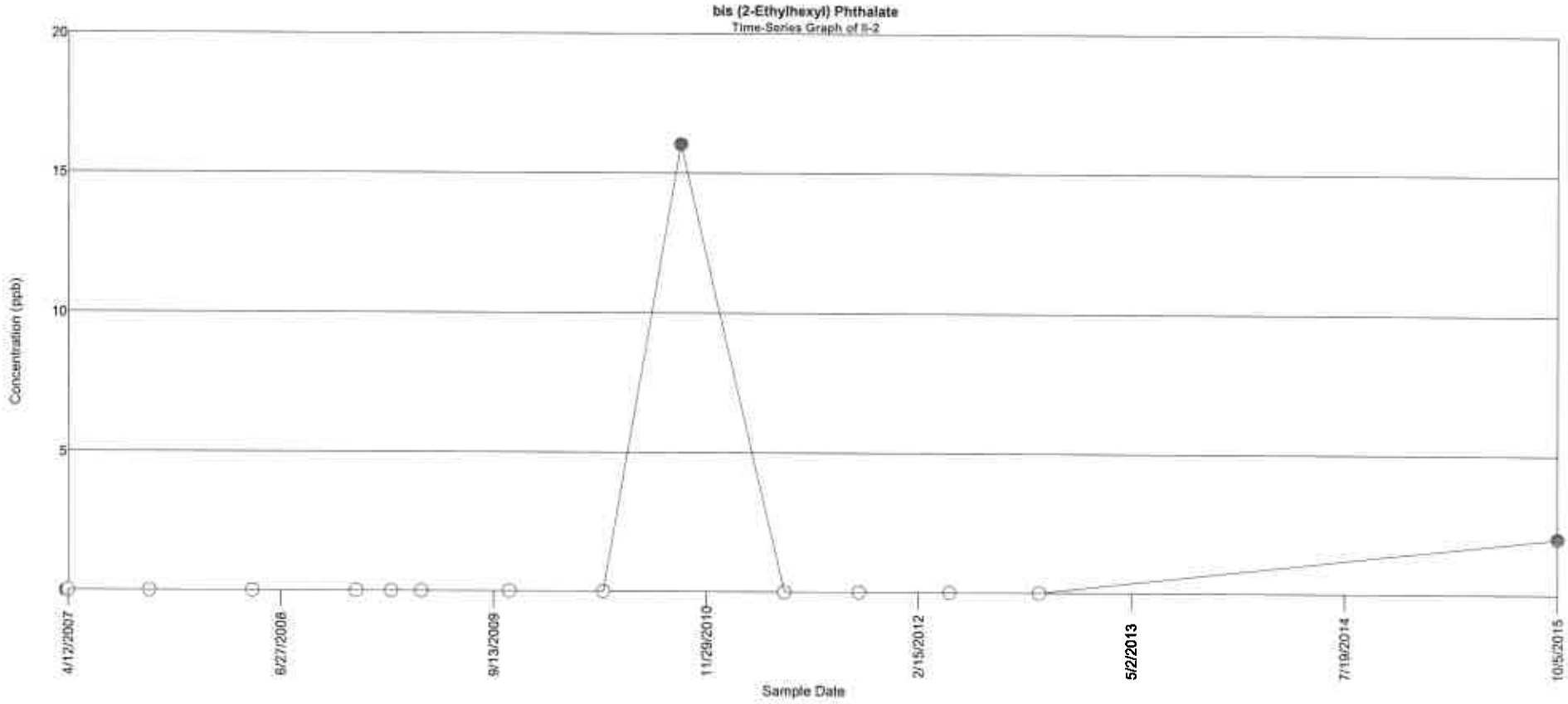

cis-1,2-Dichloroethene
Time Series Graph of 114
Concentration (ppb)
0
1
2
3
4
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

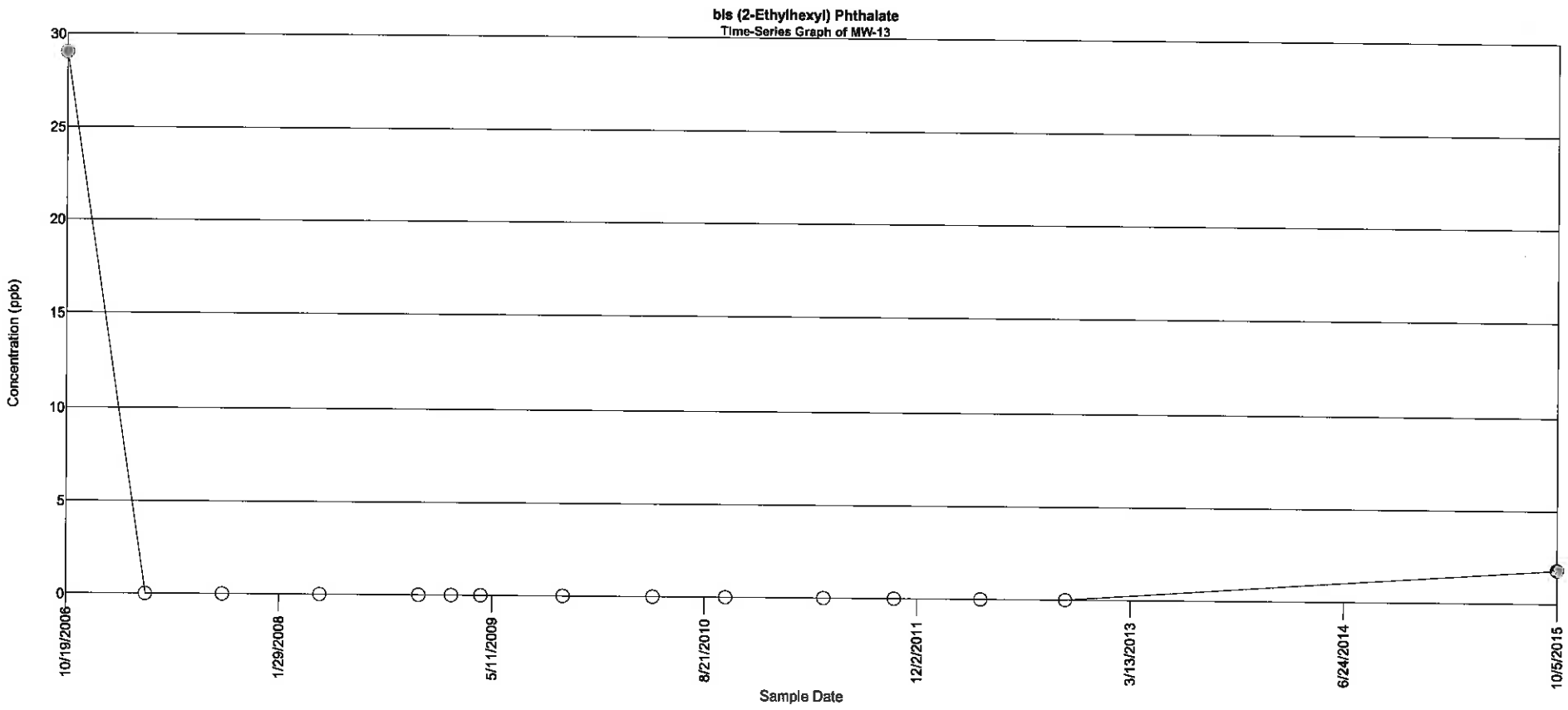

cis-1,2-Dichloroethene
Time-Series Graph of II-8
Concentration (ppb)
50
40
30
20
10
0
5/11/2005
11/4/2006
4/30/2008
10/25/2009
4/20/2011
10/14/2012
4/10/2014
10/5/2015
Sample Date

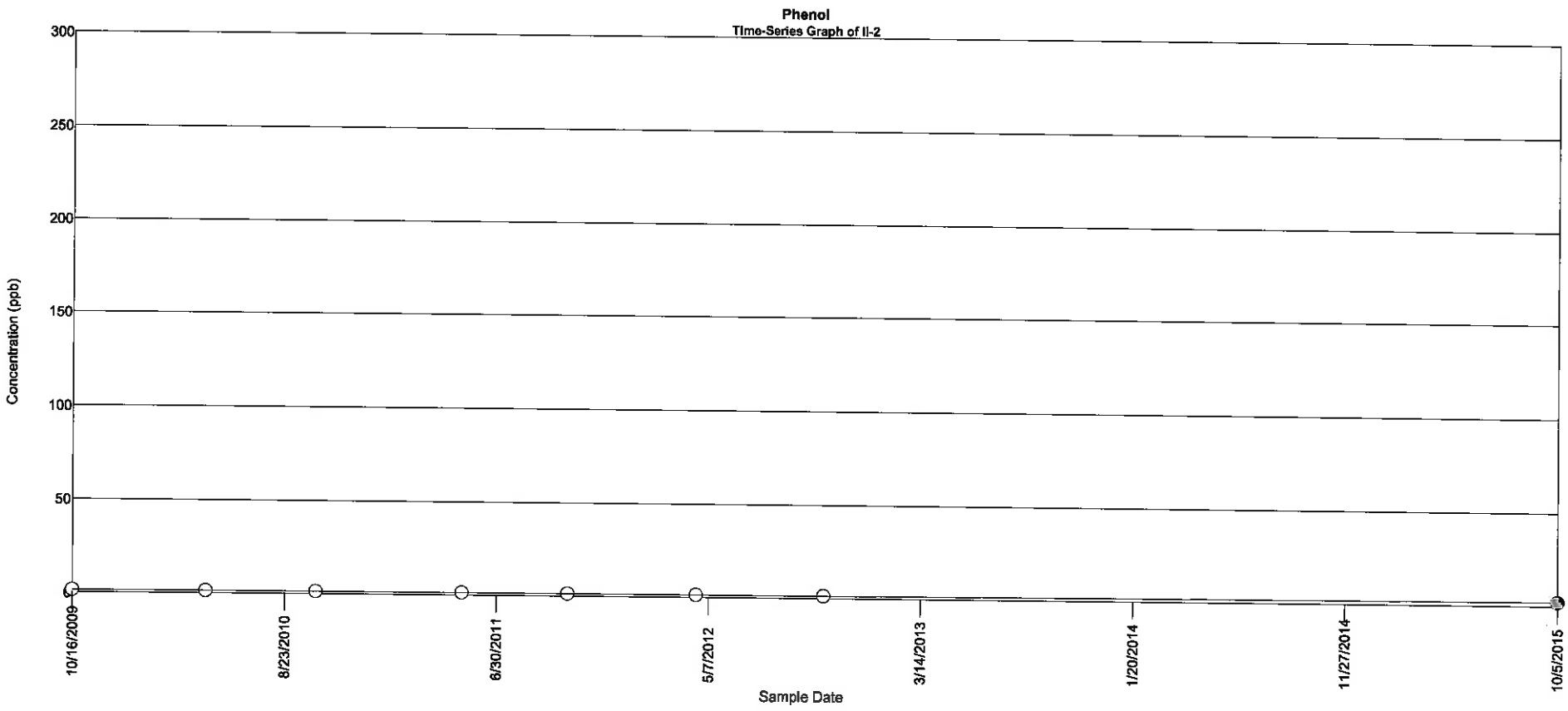

Chloromethane
Time-Series Graph of II-2
Concentration (ppb)
20
15
10
5
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

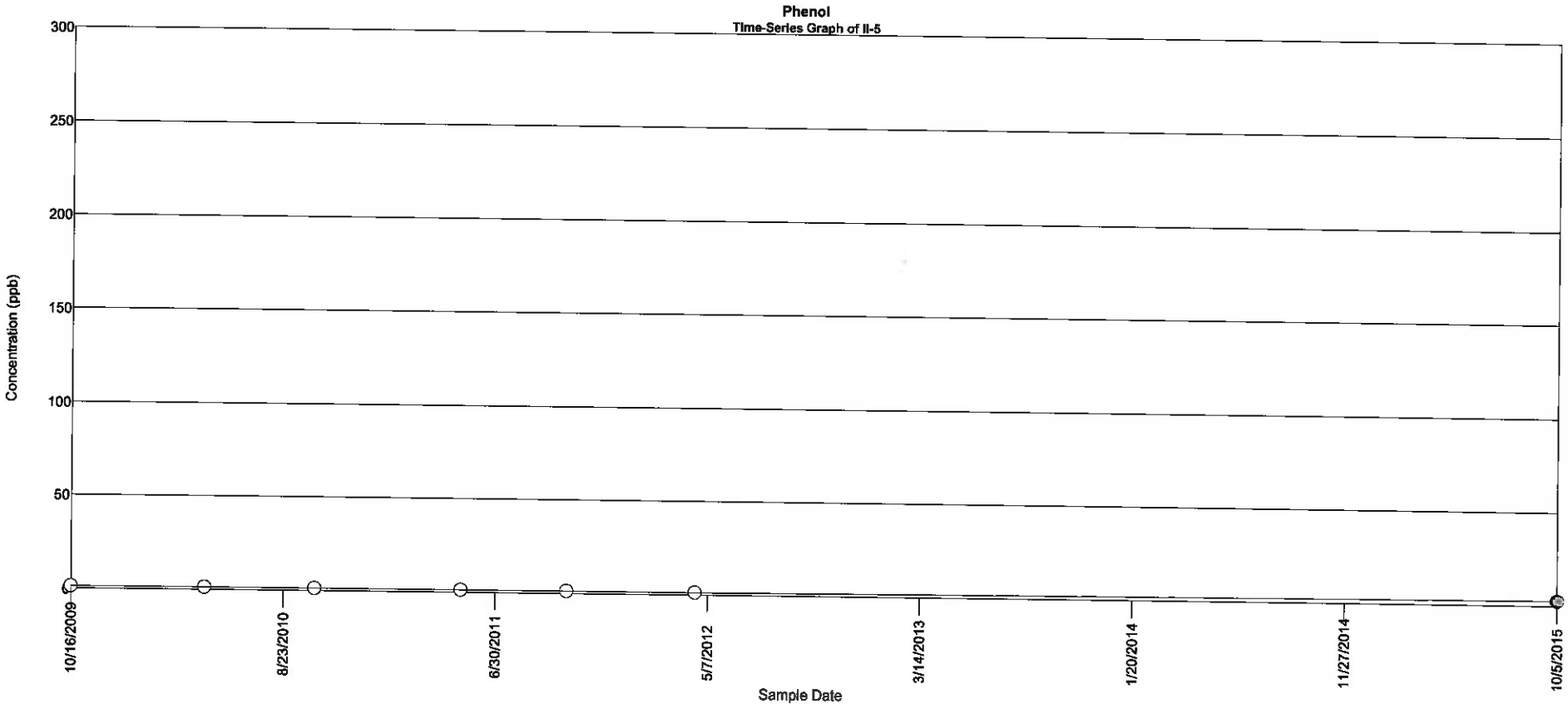

Vinyl chloride
Time-Series Graph of II-9
Concentration (ppb)
20
15
10
5
0
5/11/2005
11/4/2006
4/30/2008
10/25/2009
4/20/2011
10/14/2012
4/10/2014
10/6/2015
Sample Date

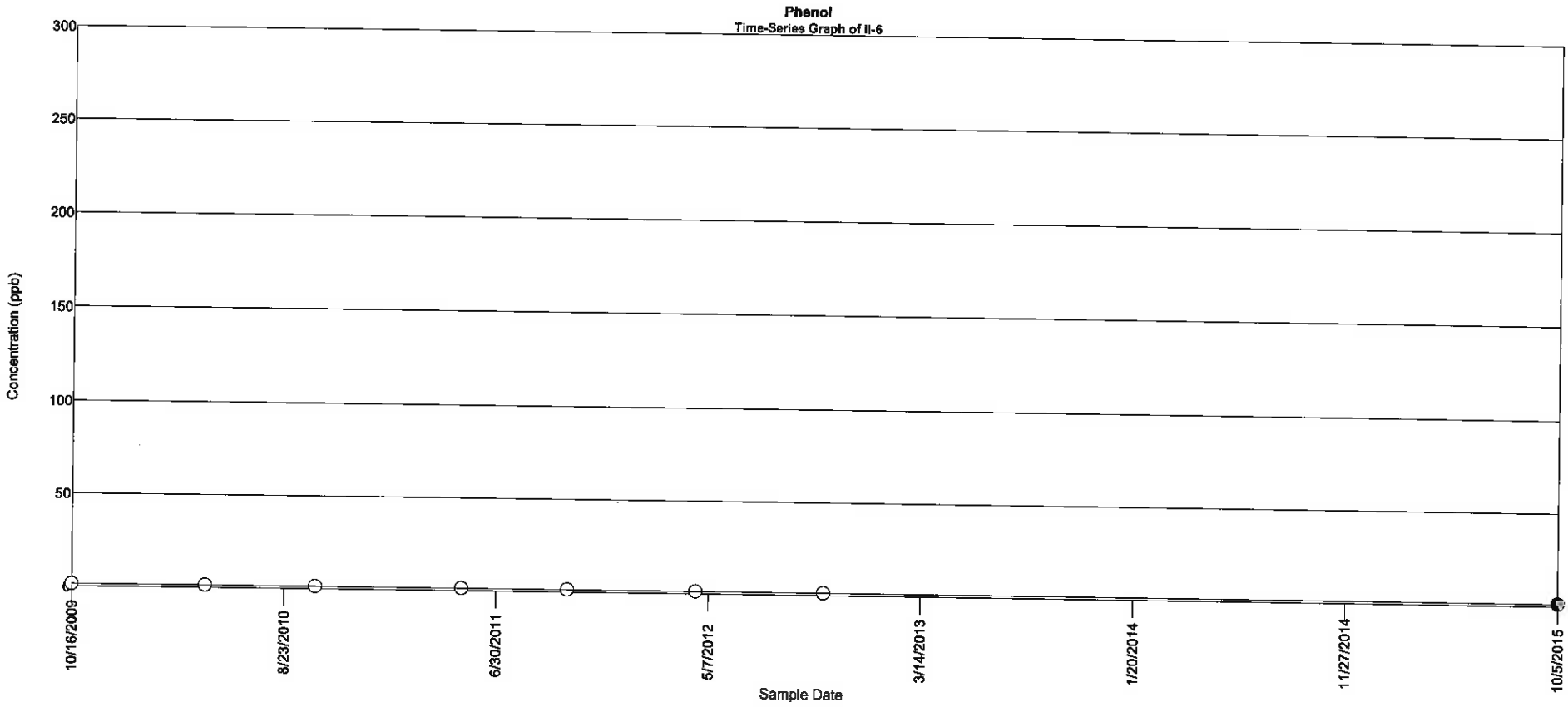

Total Xylenes
Time-Series Graph of II-6
Concentration (ppb)
0
1
2
3
4
5
6
3/17/1995
2/21/1998
1/28/2001
1/6/2004
12/13/2006
11/20/2009
10/27/2012
10/5/2015
Sample Date

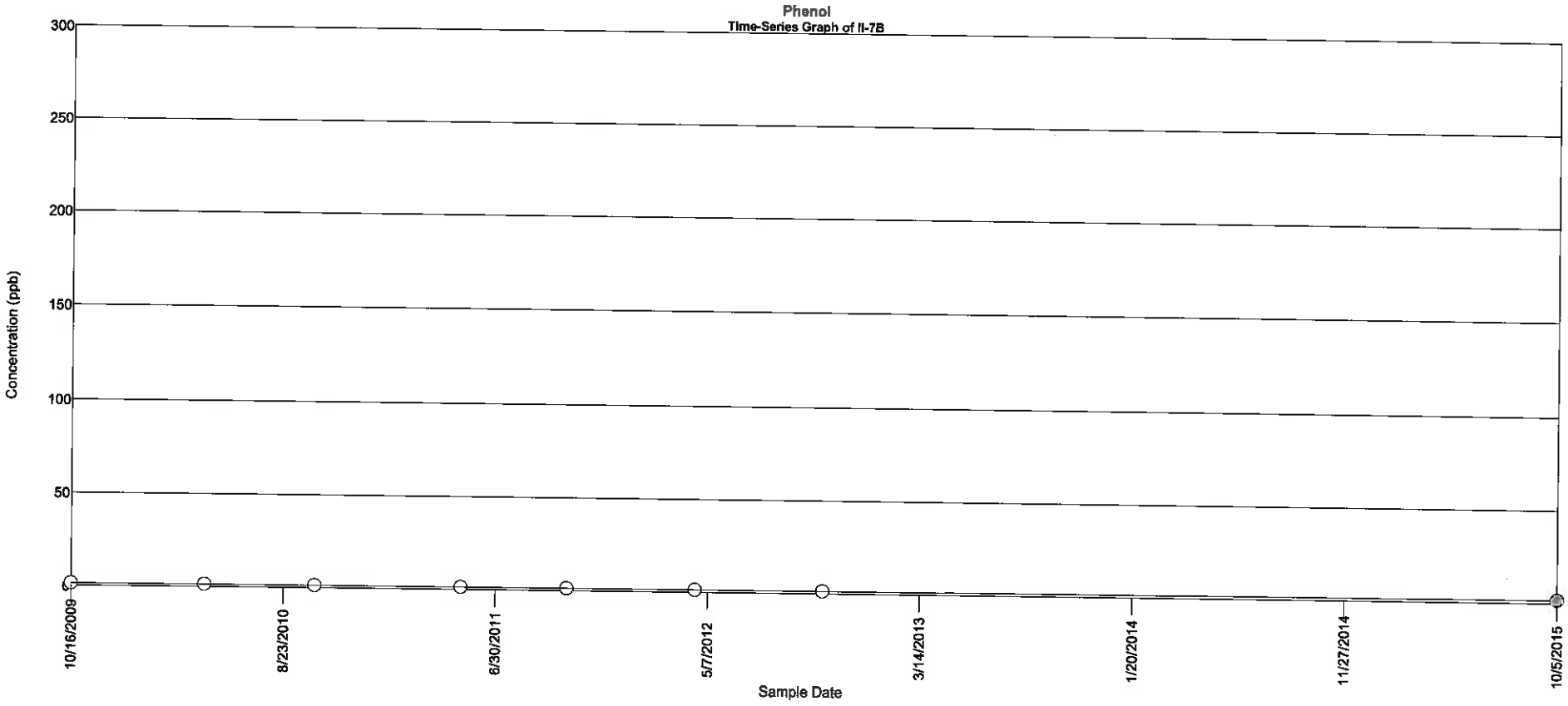

bis (2-Ethylhexyl) Phthalate
Time-Series Graph of II-2
Concentration (ppb)
20
15
10
5
0
4/12/2007
8/27/2008
9/13/2009
11/29/2010
2/15/2012
5/2/2013
7/19/2014
10/5/2015
Sample Date

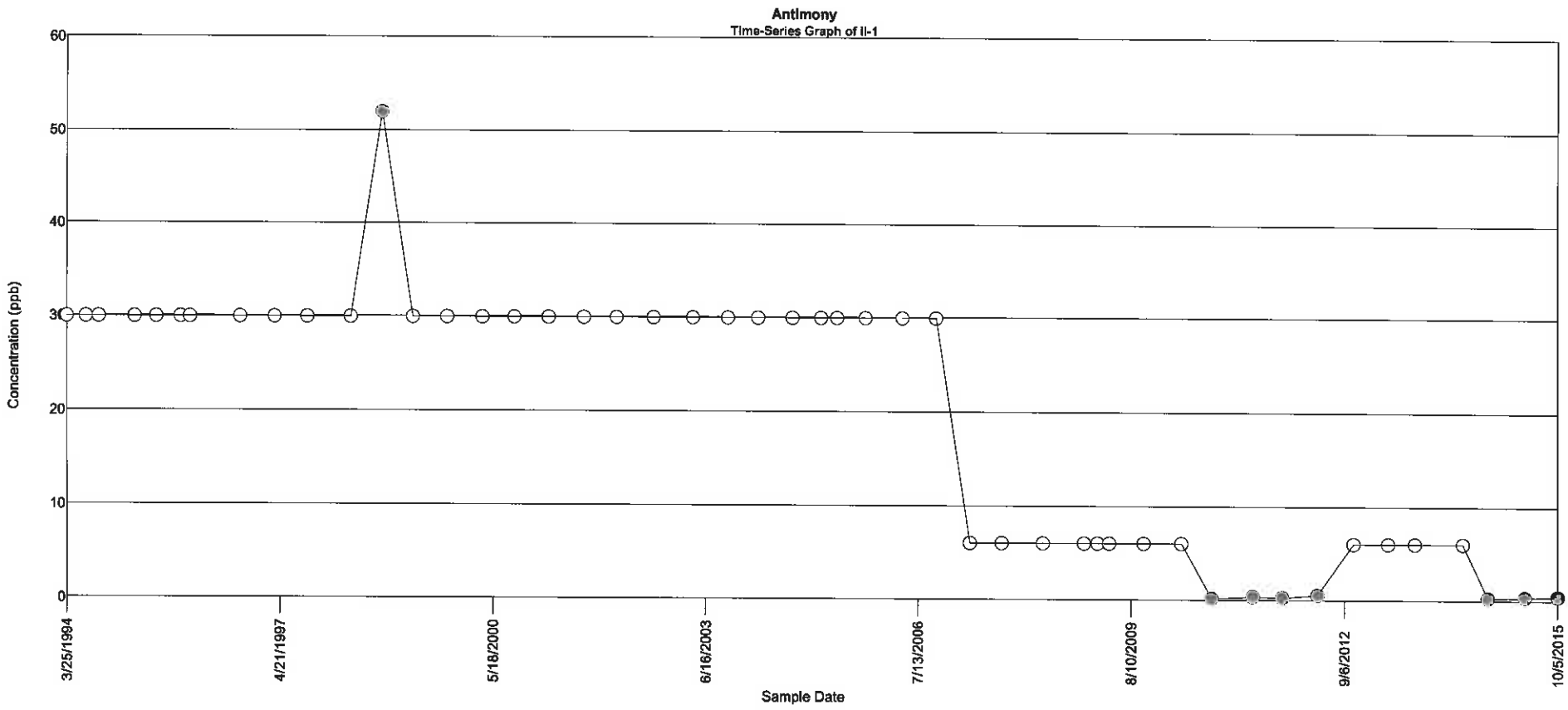

bis (2-Ethylhexyl) Phthalate
Time-Series Graph of MW-13
Concentration (ppb)
30
25
20
15
10
5
0
10/19/2006
1/29/2008
5/11/2009
8/21/2010
12/2/2011
3/13/2013
6/24/2014
10/5/2015
Sample Date

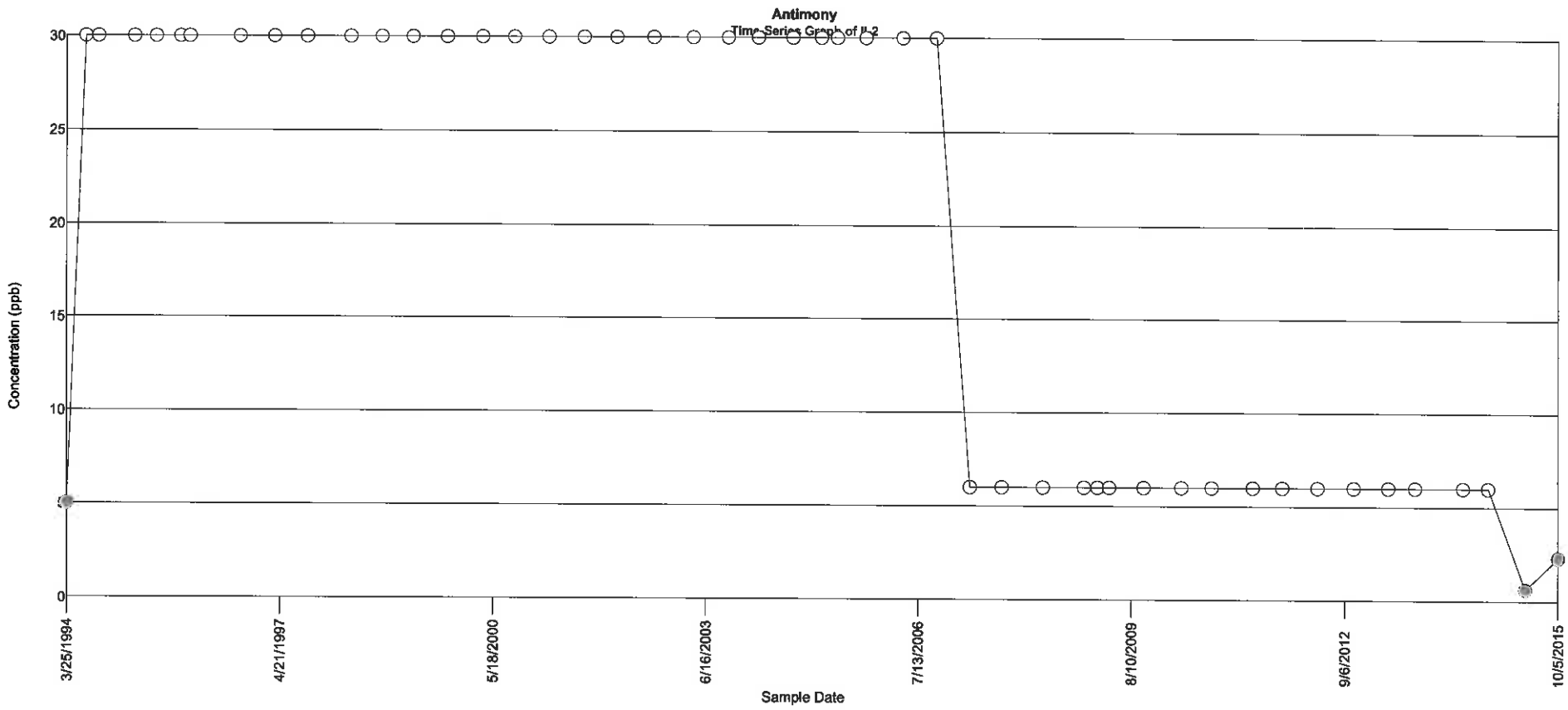

Phenol
Time-Series Graph of II-2
300
250
200
150
100
50
0
Concentration (ppb)
10/16/2009
8/23/2010
6/30/2011
5/7/2012
3/14/2013
1/20/2014
11/27/2014
10/5/2015
Sample Date

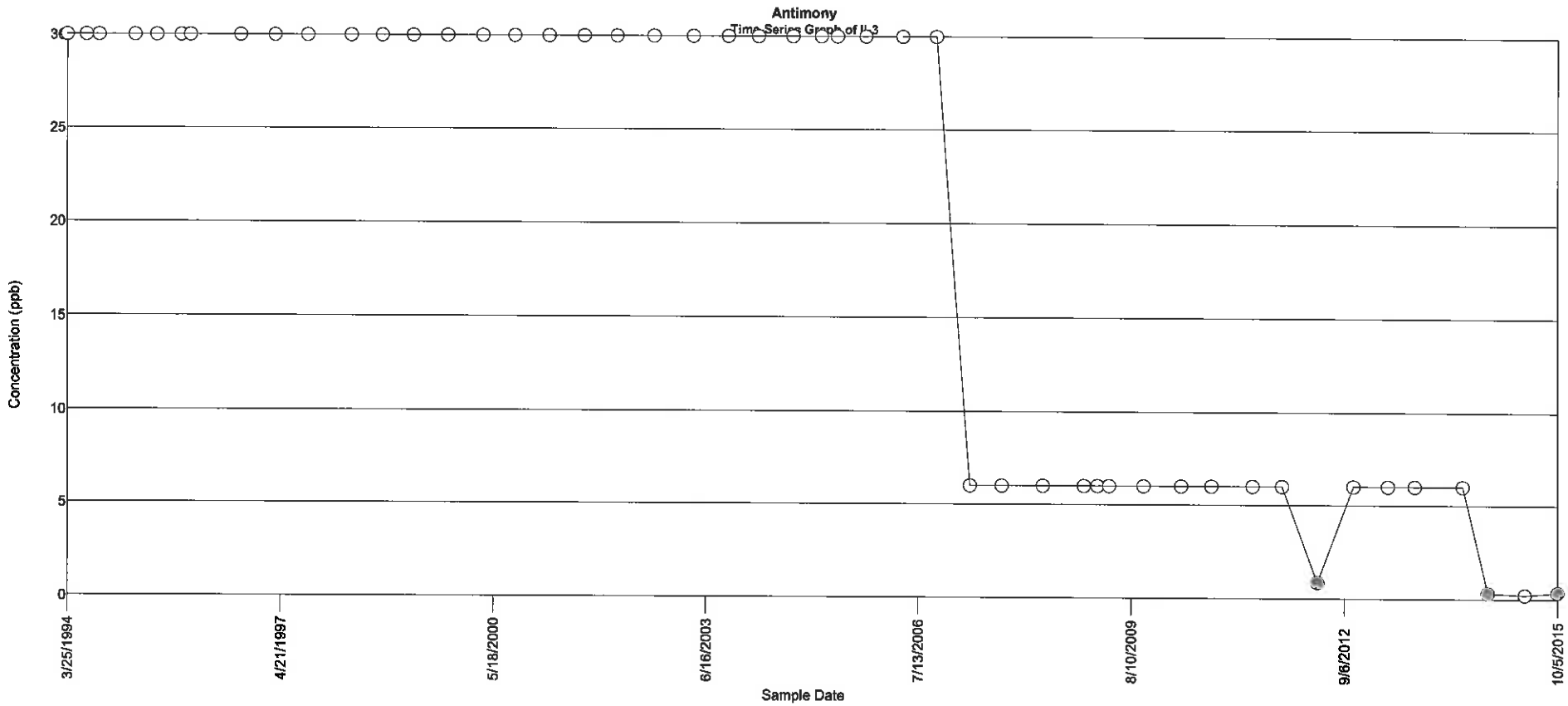

Phenol
Time-Series Graph of II-5
Concentration (ppb)
300
250
200
150
100
50
0
10/16/2009
8/23/2010
6/30/2011
5/7/2012
3/14/2013
1/20/2014
11/27/2014
10/5/2015
Sample Date

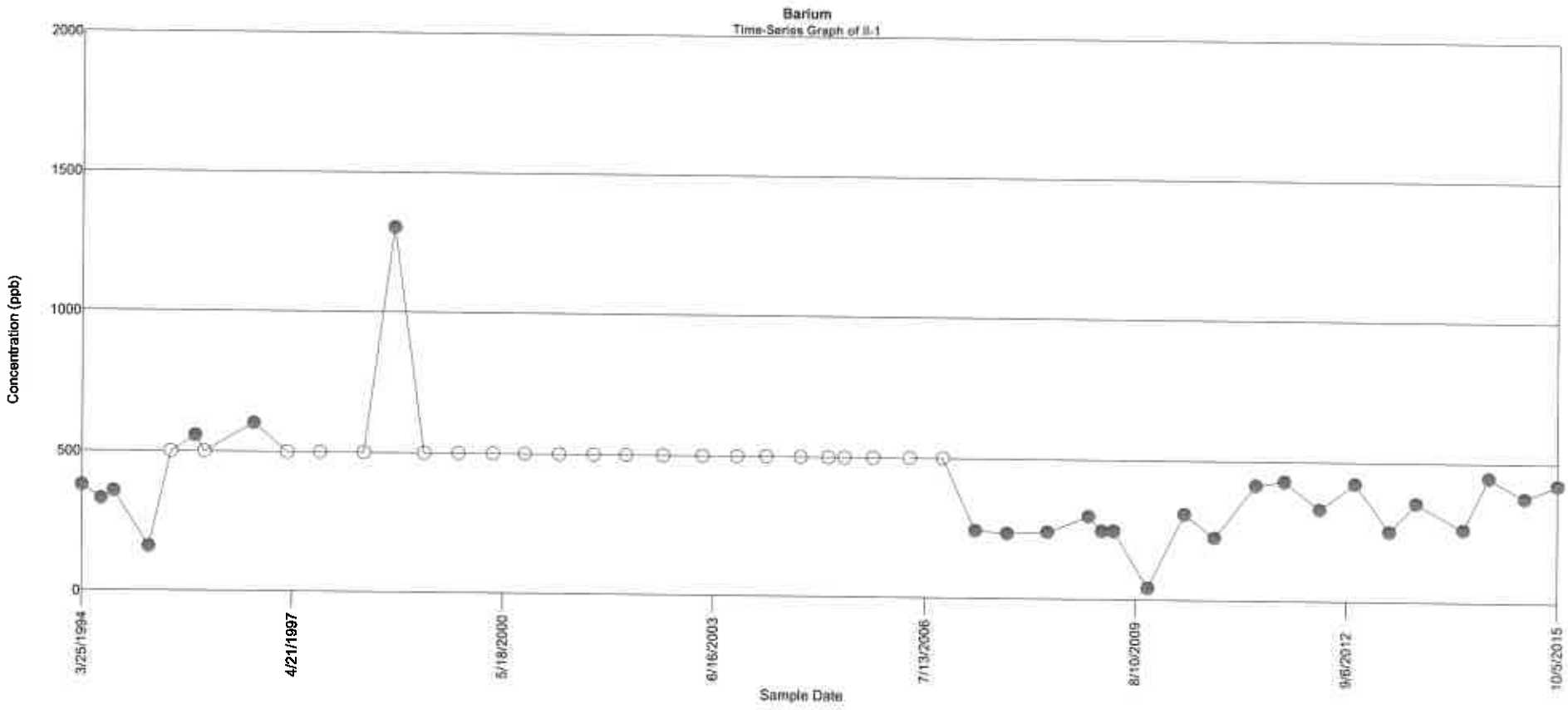

Phenol
Time-Series Graph of II-6
Concentration (ppb)
300
250
200
150
100
50
0
10/16/2009
8/23/2010
6/30/2011
5/7/2012
3/14/2013
1/20/2014
11/27/2014
10/5/2015
Sample Date

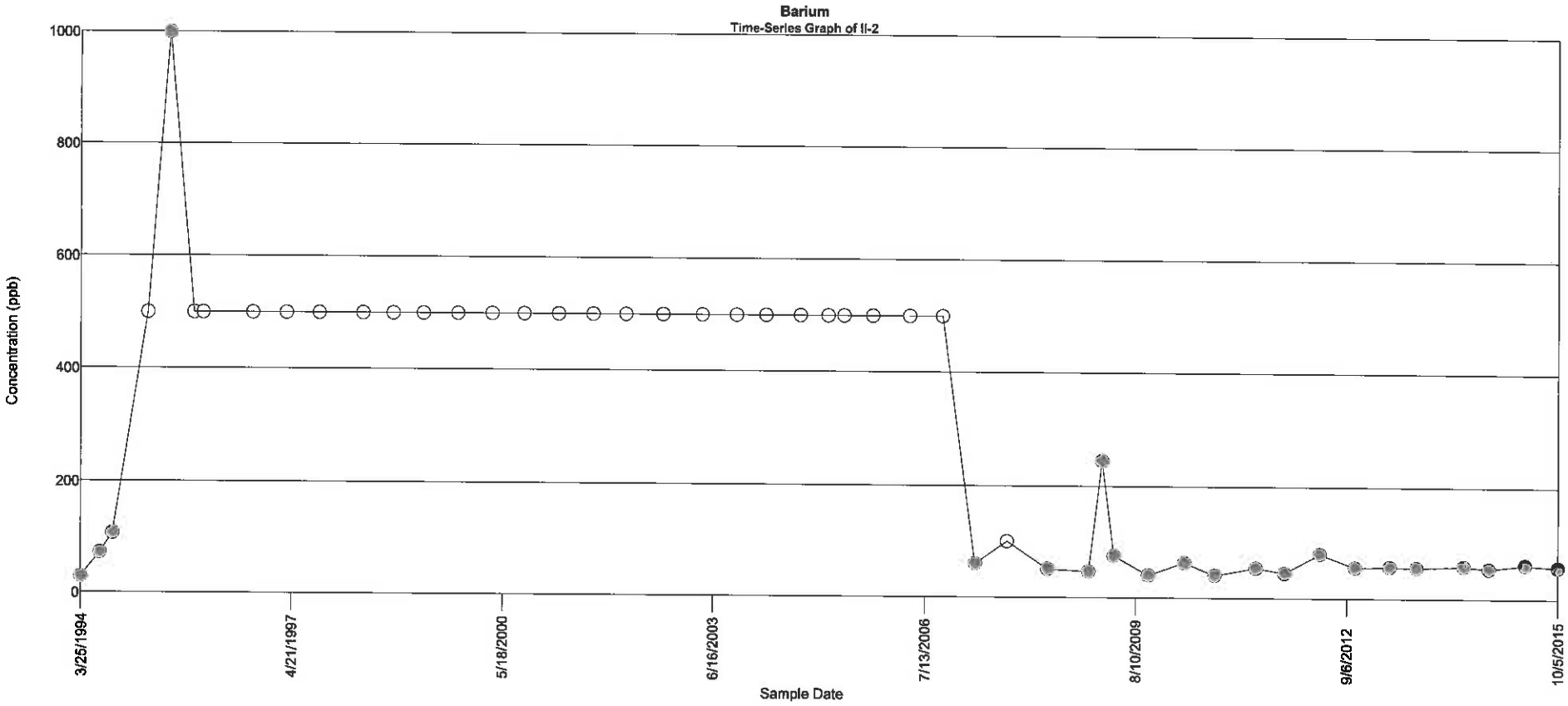

Phenol
Time-Series Graph of II-7B
Concentration (ppb)
300
250
200
150
100
50
0
10/16/2009
8/23/2010
6/30/2011
5/7/2012
3/14/2013
1/20/2014
11/27/2014
10/5/2015
Sample Date

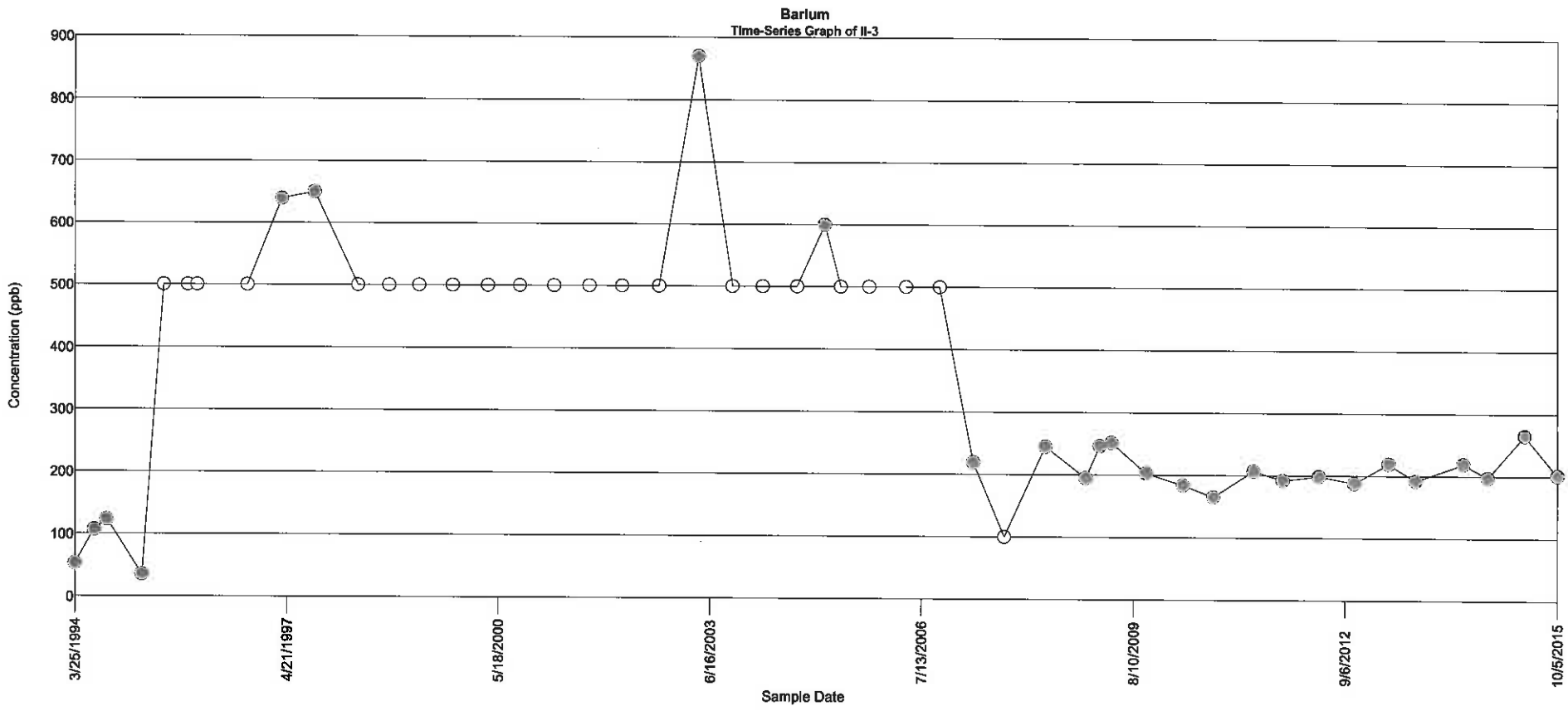

Antimony
Time-Series Graph of II-1
Concentration (ppb)
60
50
40
30
20
10
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

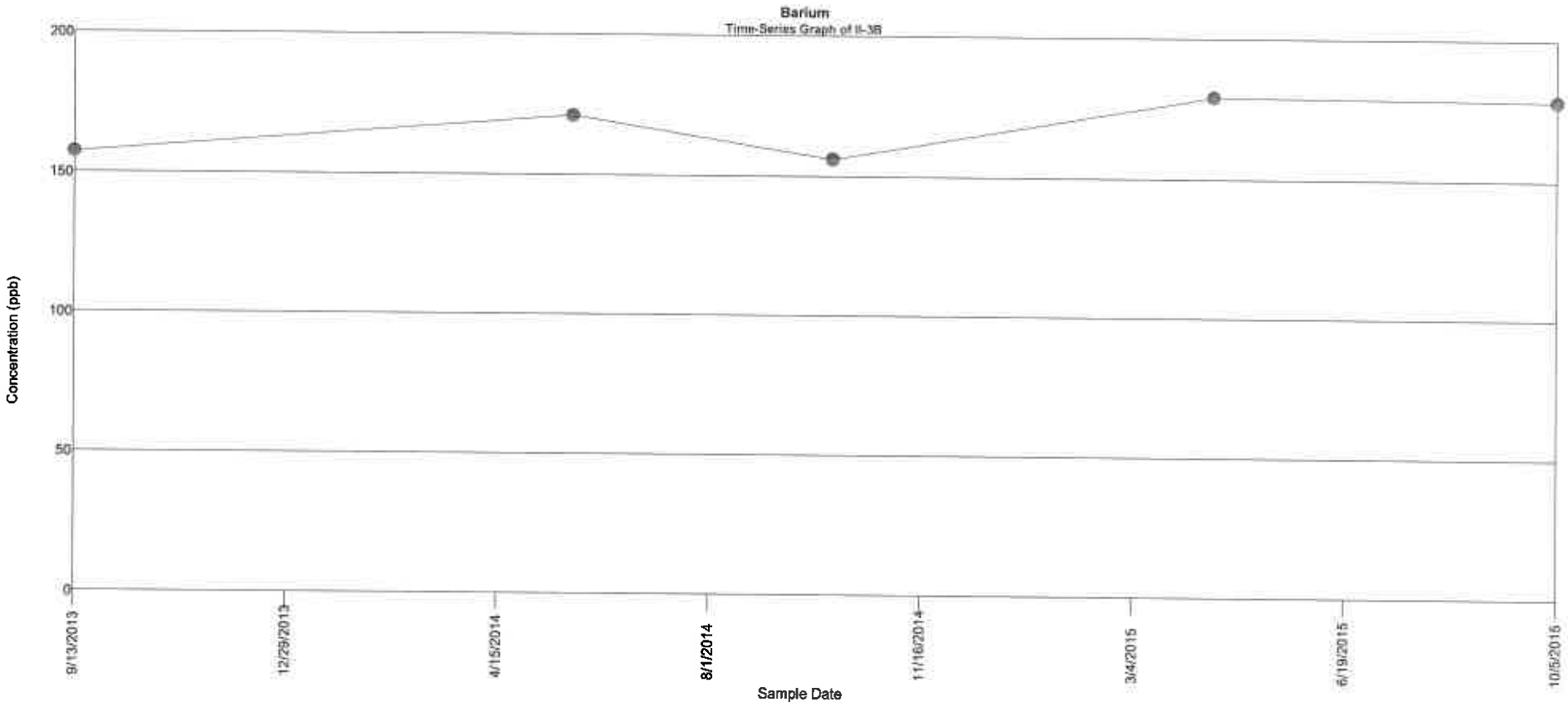

Antimony
Time Series Graph of P-2
Concentration (ppb)
30
25
20
15
10
5
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

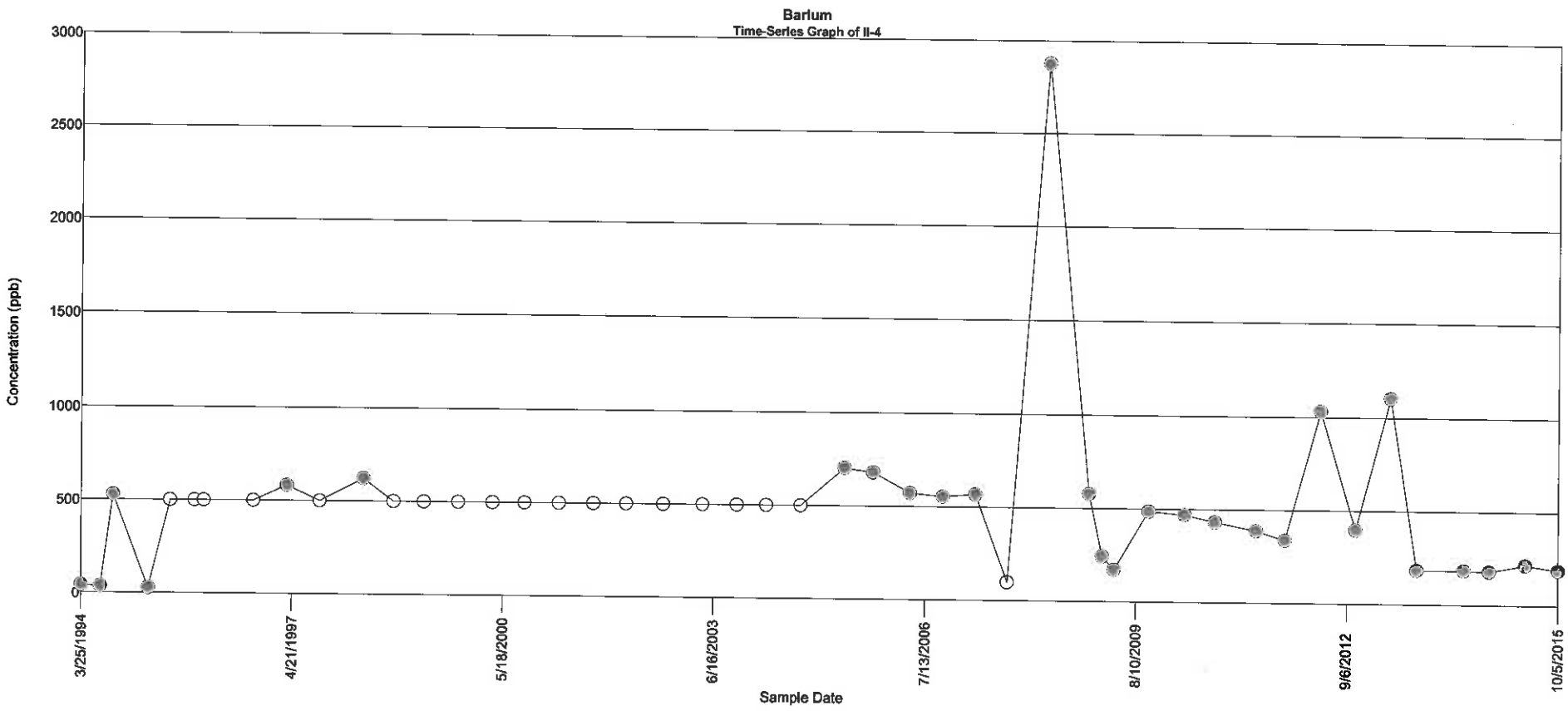

Antimony
Time Series Graph of U-3
Concentration (ppb)
30
25
20
15
10
5
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

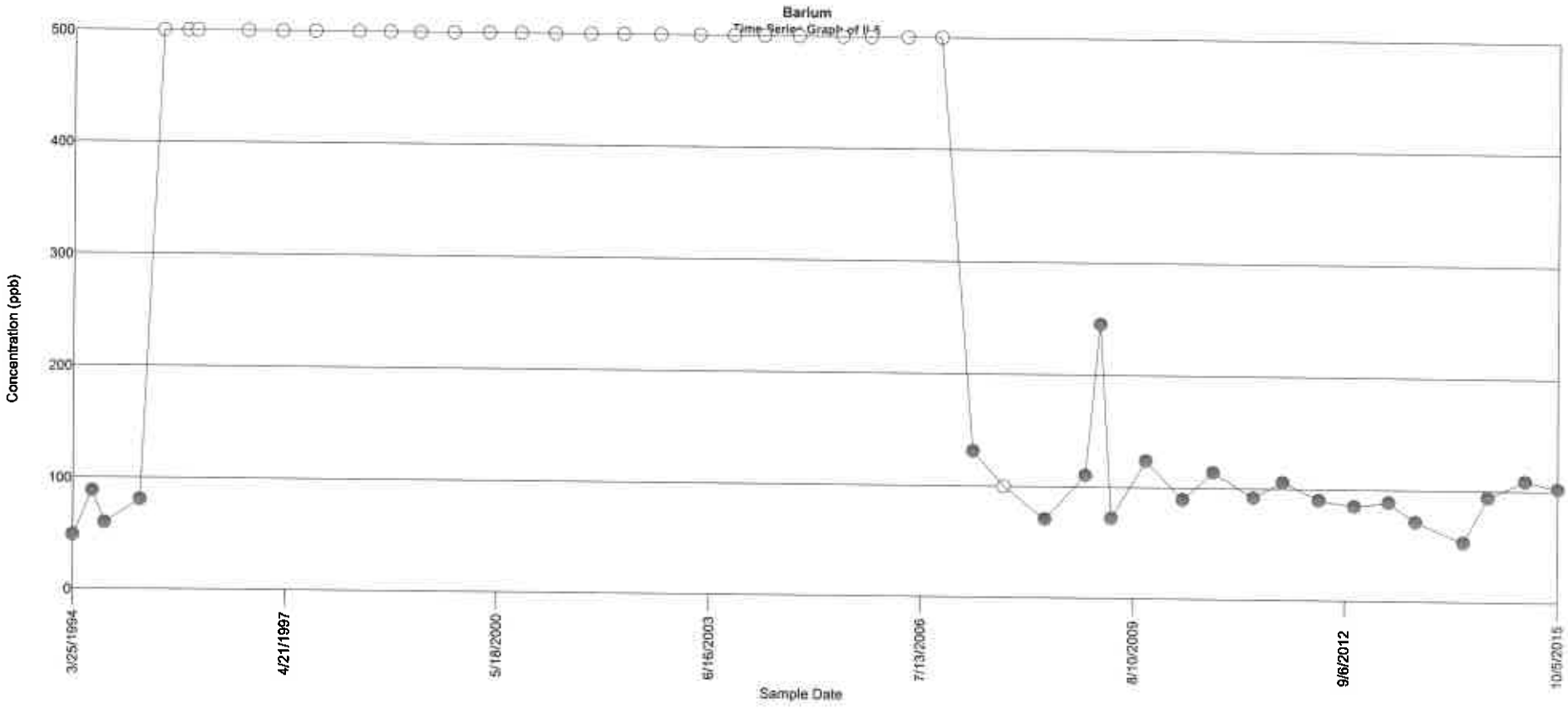

Barium
Time-Series Graph of II-1
Concentration (ppb)
2000
1500
1000
500
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/3/2015
Sample Date

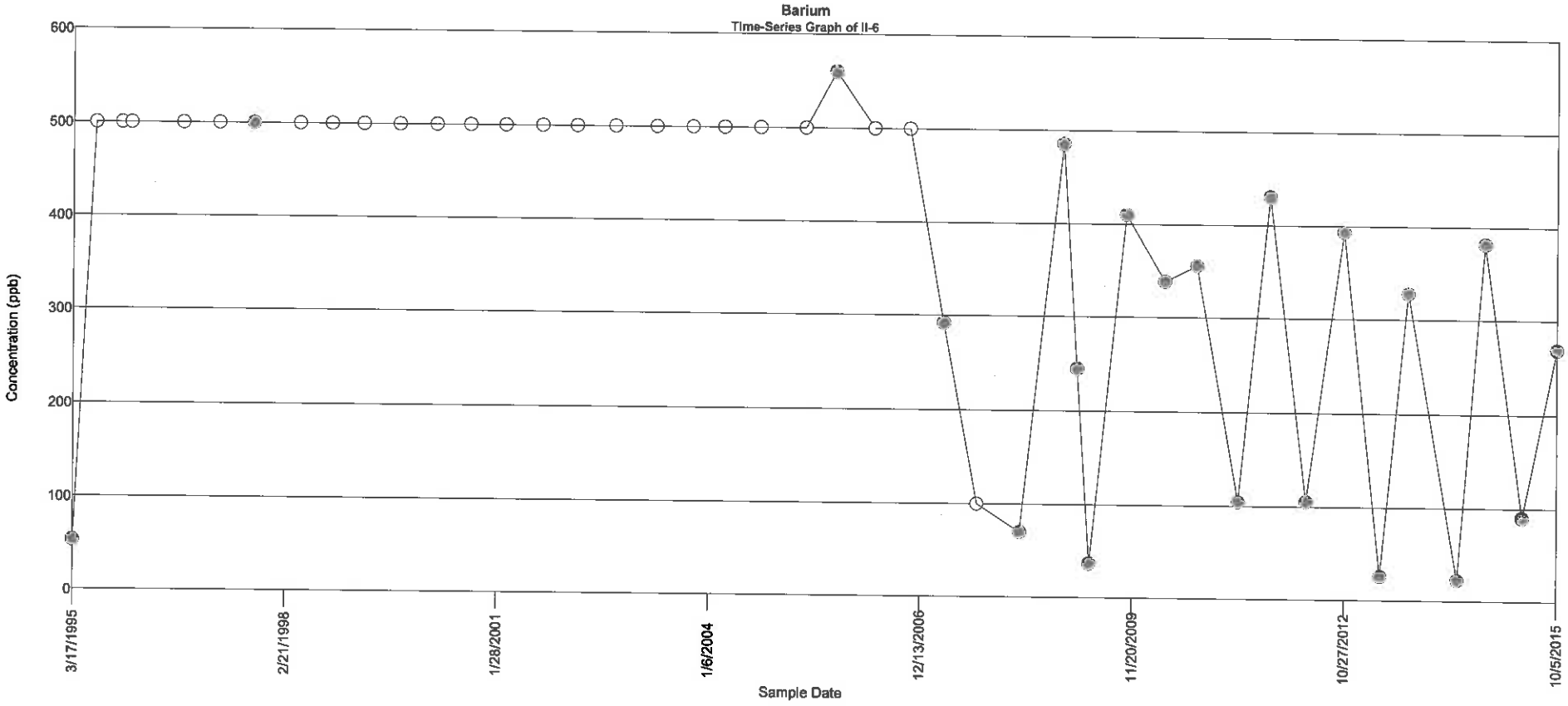

Barium
Time-Series Graph of II-2
Concentration (ppb)
1000
800
600
400
200
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

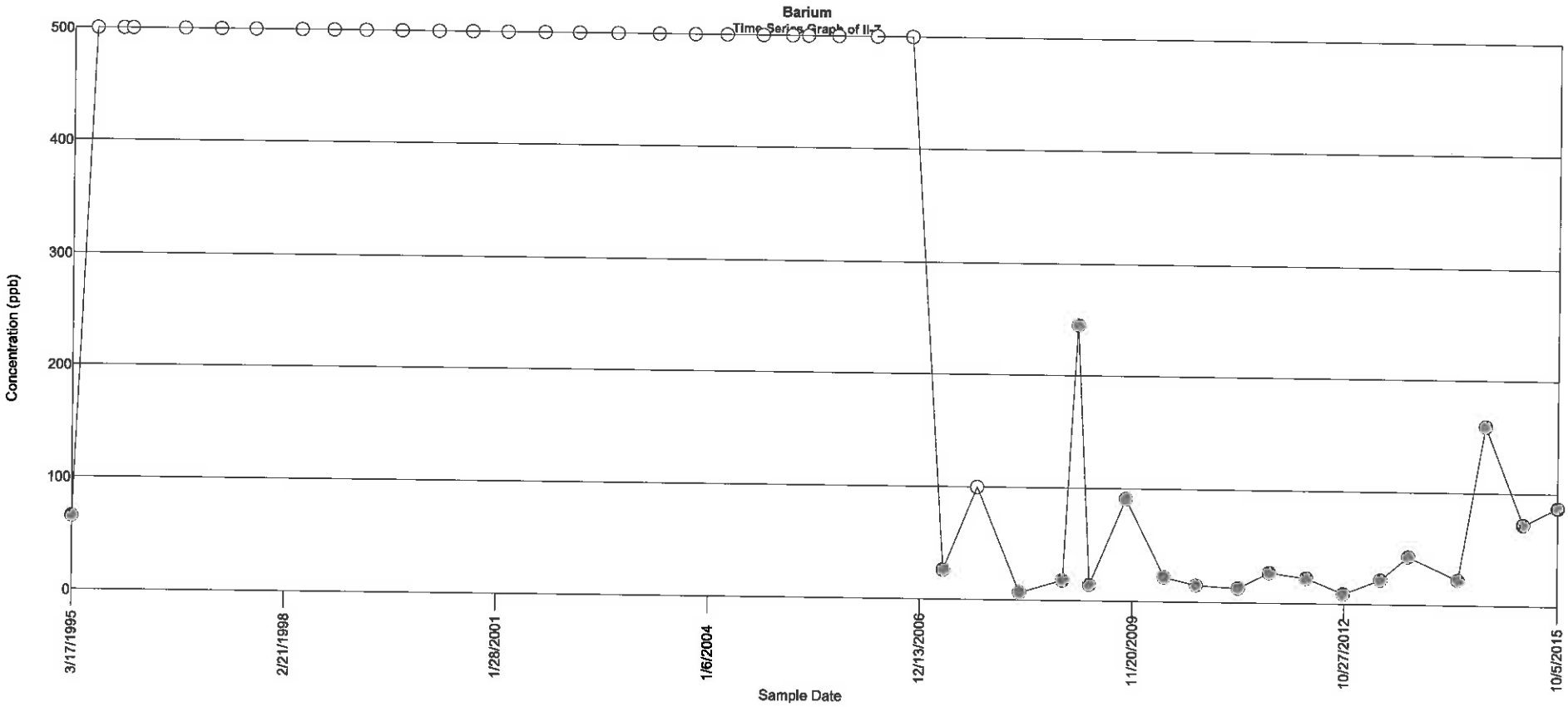

Barium
Time-Series Graph of II-3
Concentration (ppb)
900
800
700
600
500
400
300
200
100
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

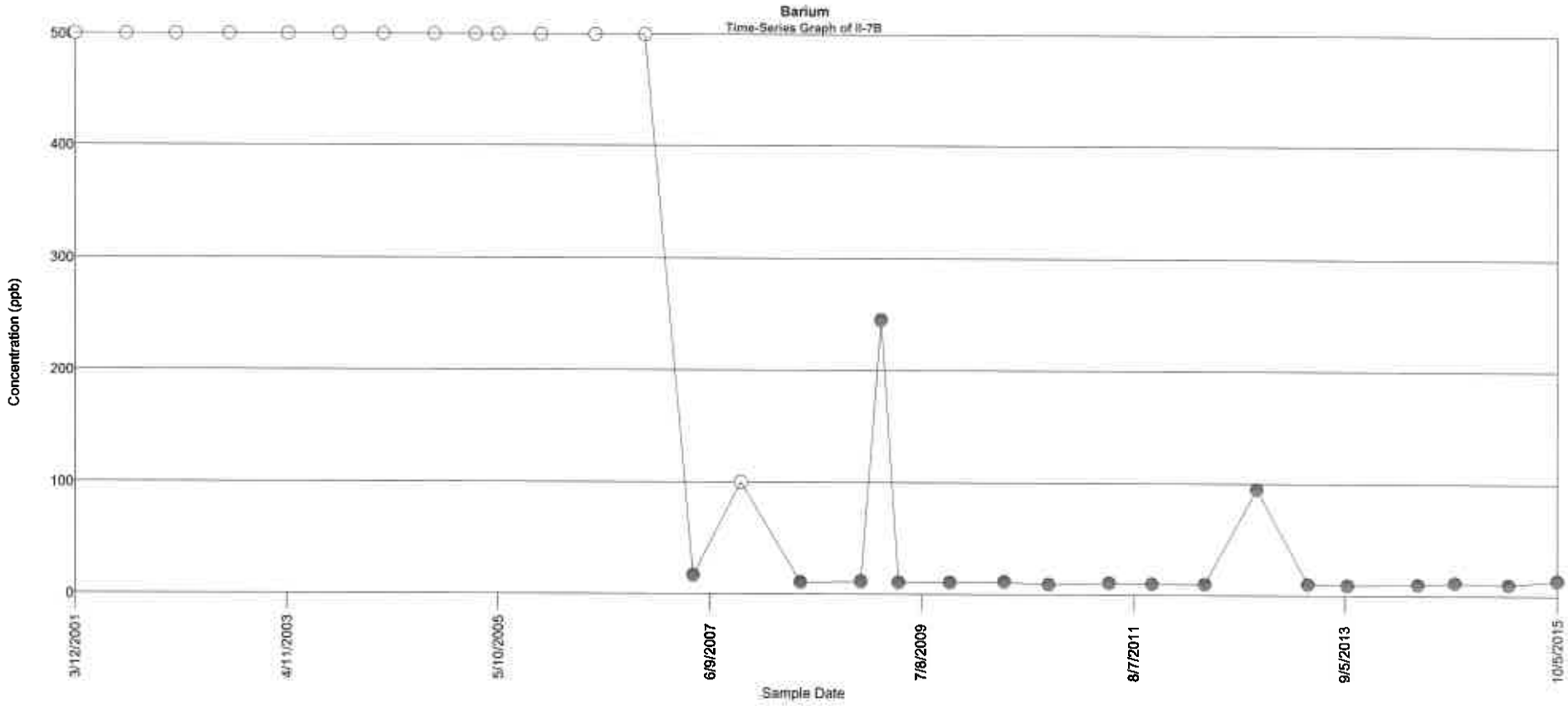

Barium
Time-Series Graph of II-3B
Concentration (ppb)
200
150
100
50
0
9/13/2013
12/29/2013
4/15/2014
8/1/2014
11/16/2014
3/4/2015
6/19/2015
10/5/2015
Sample Date

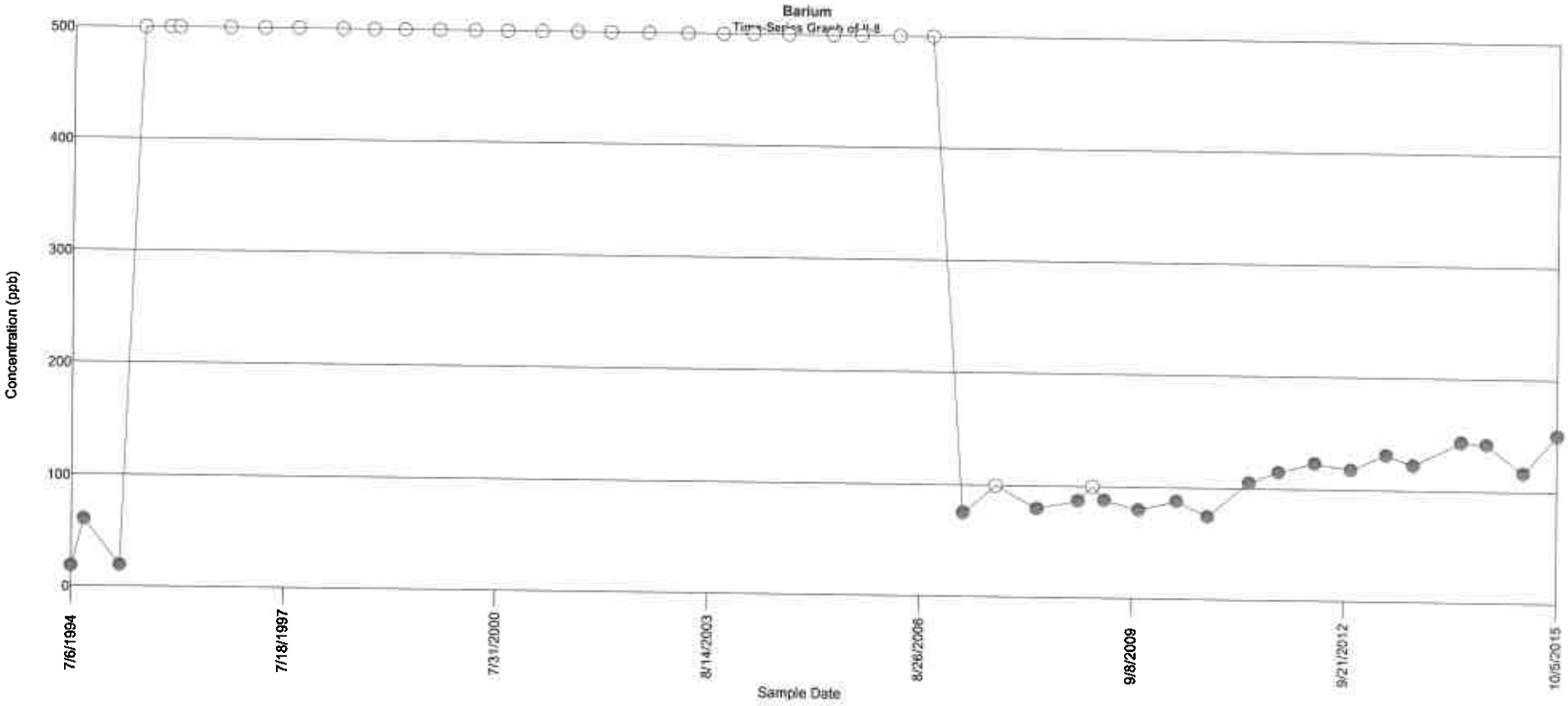

Barium
Time-Series Graph of II-4
Concentration (ppb)
3000
2500
2000
1500
1000
500
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

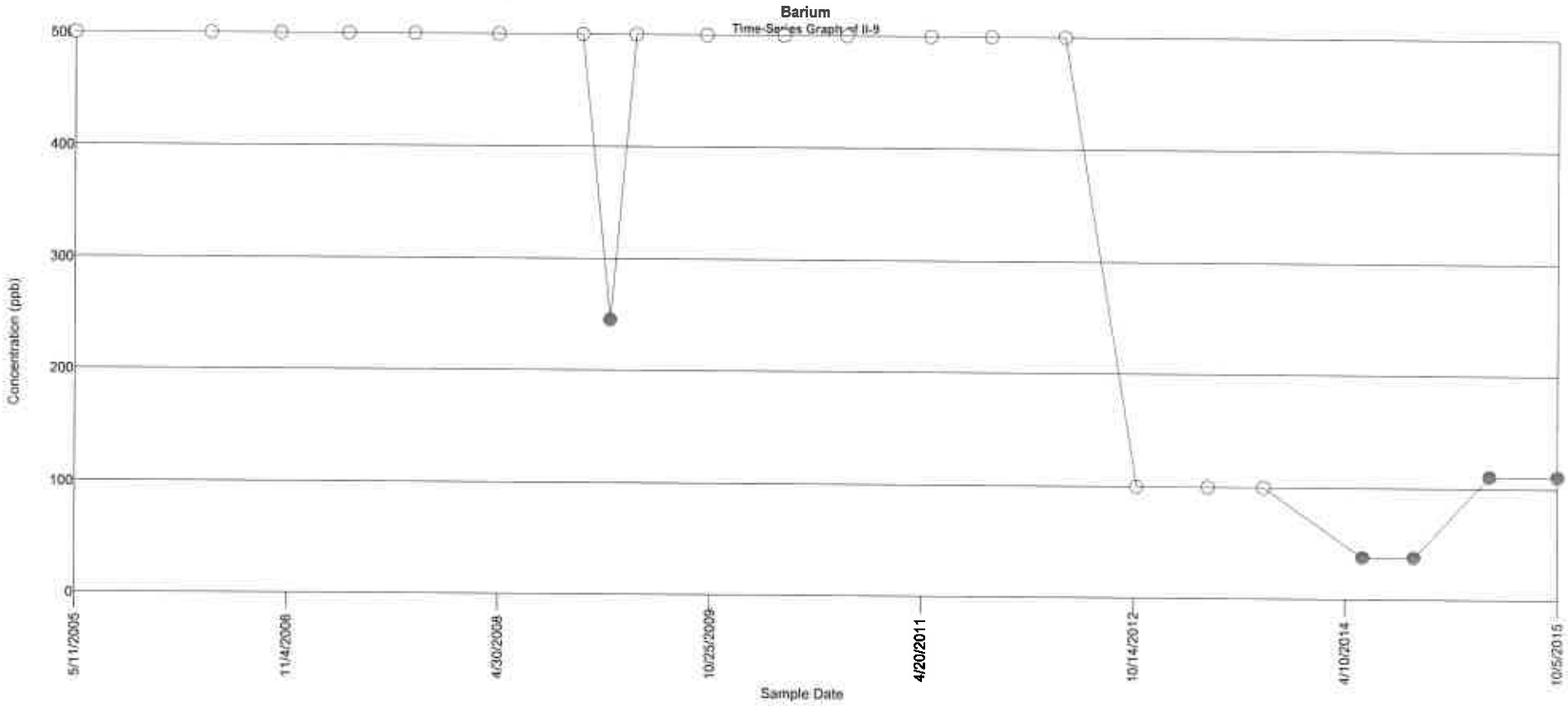

Barium
Time Series Graph of II-5
Concentration (ppb)
500
400
300
200
100
0
3/25/1994
4/21/1997
5/18/2000
6/15/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

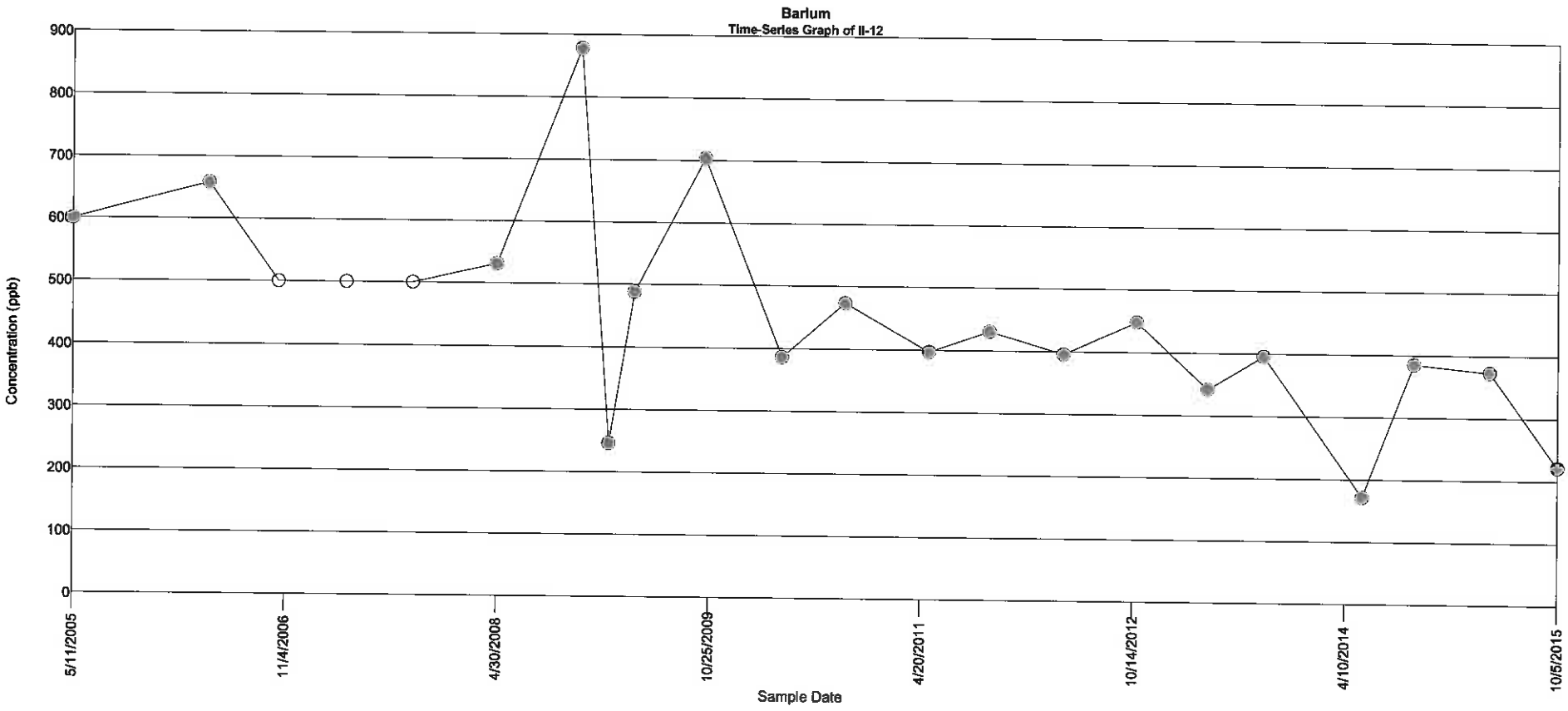

Barium
Time-Series Graph of II-6
Concentration (ppb)
600
500
400
300
200
100
0
3/17/1995
2/21/1998
1/28/2001
1/6/2004
12/13/2006
11/20/2009
10/27/2012
10/5/2015
Sample Date

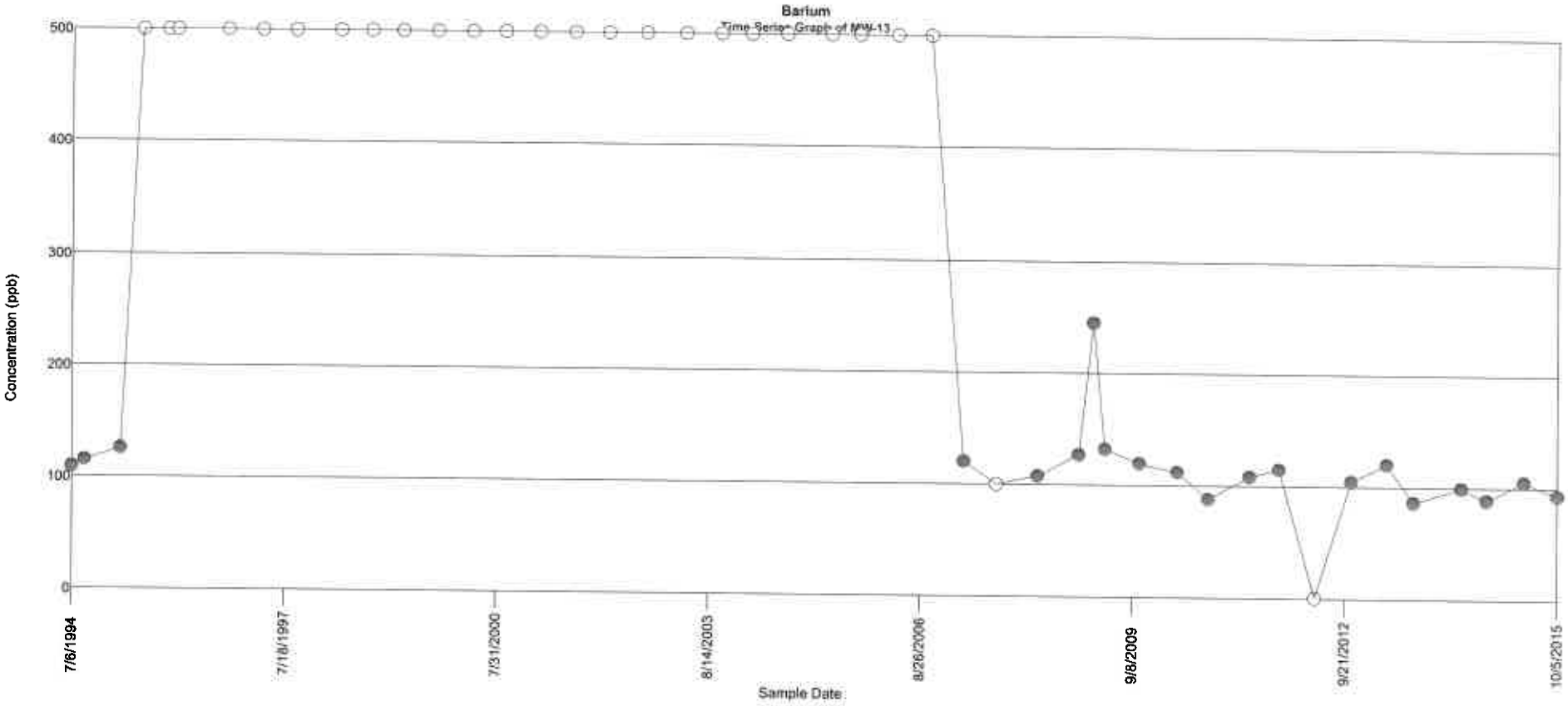

Barium
Time Series Graph of II-7
Concentration (ppb)
500
400
300
200
100
0
3/17/1995
2/21/1998
1/28/2001
1/6/2004
12/13/2006
11/20/2009
10/27/2012
10/5/2015
Sample Date

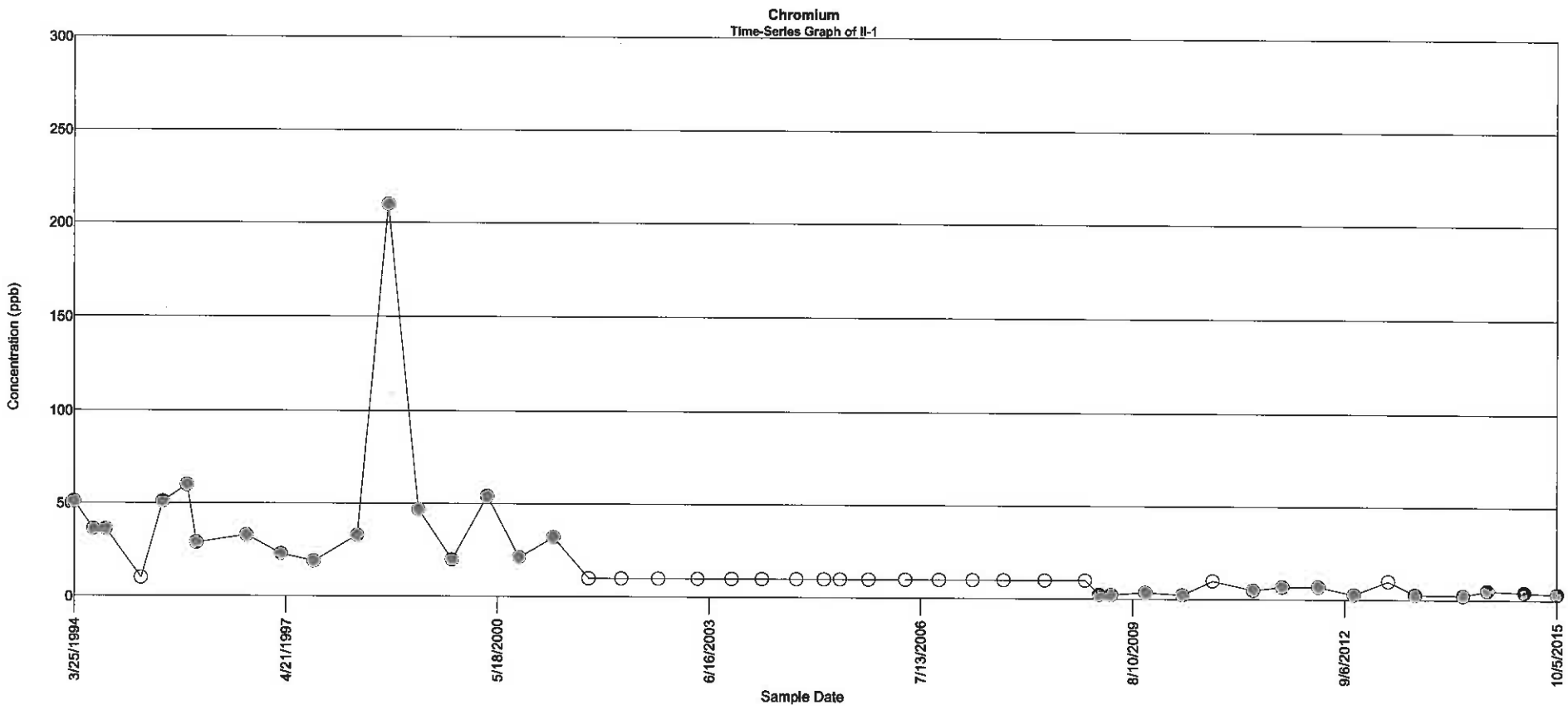

Barium
Time-Series Graph of II-7B
Concentration (ppb)
500
400
300
200
100
0
3/12/2001
4/11/2003
5/10/2005
6/9/2007
7/8/2009
8/7/2011
9/5/2013
10/5/2015
Sample Date

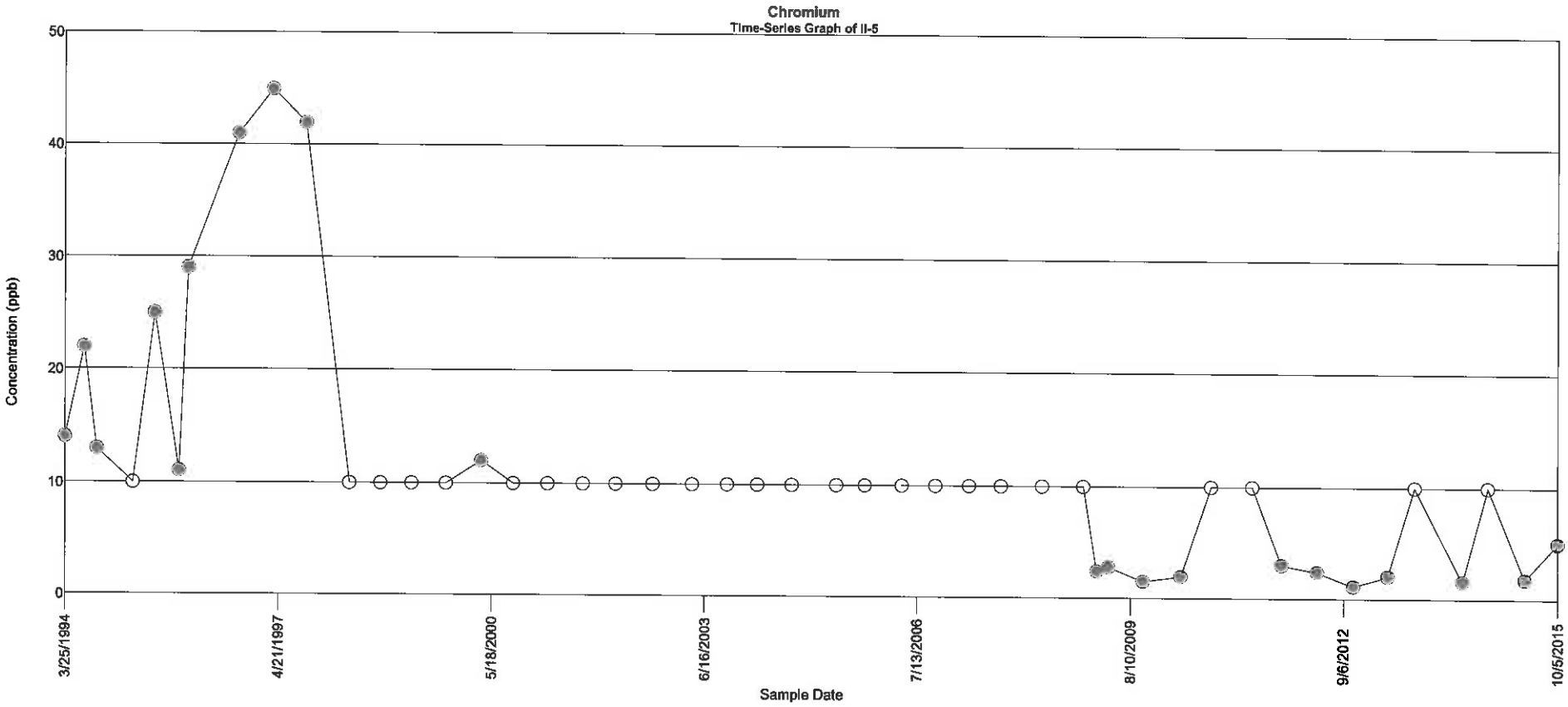

Barium
Time Series Graph of U-8
Concentration (ppb)
500
400
300
200
100
0
7/6/1994
7/18/1997
7/31/2000
8/14/2003
8/26/2006
9/8/2009
9/21/2012
10/5/2015
Sample Date

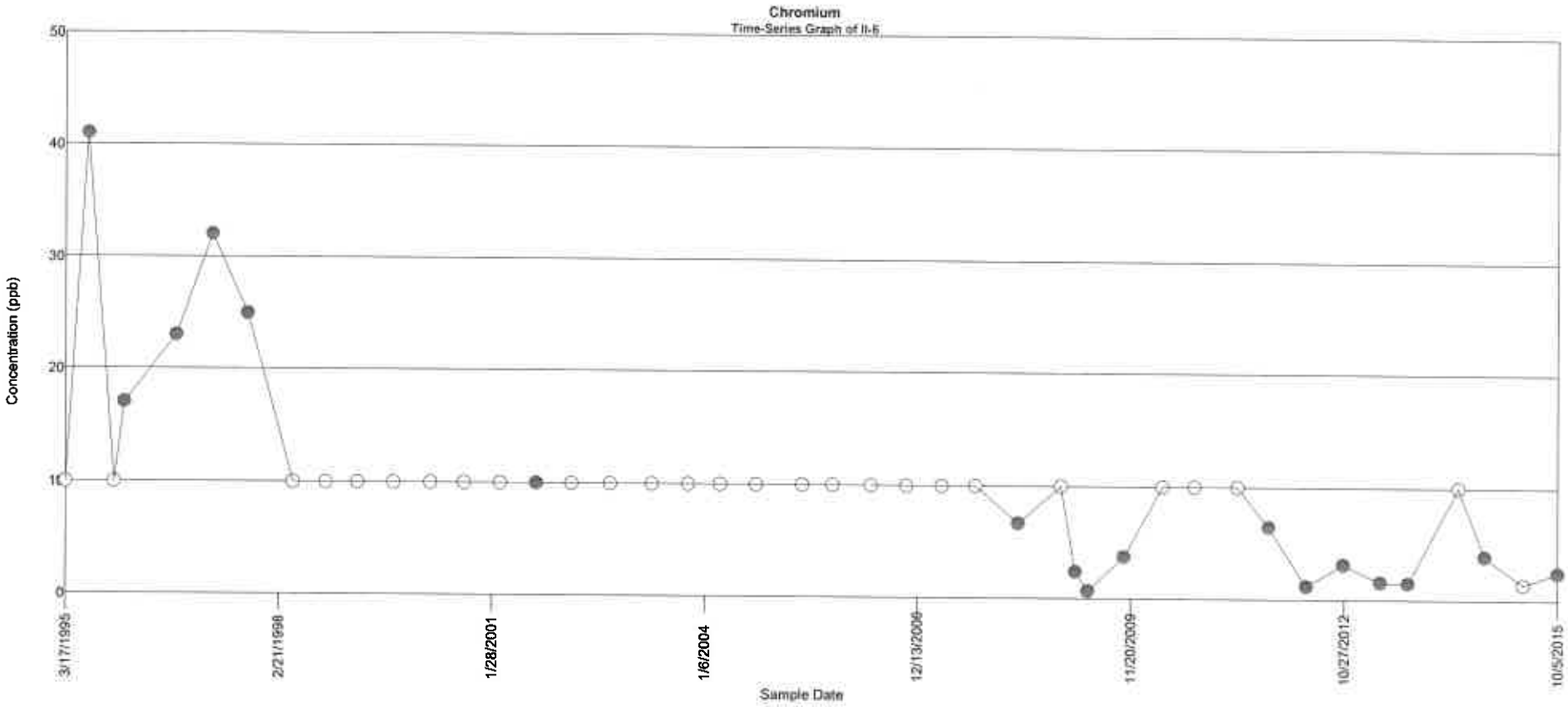

Barium
Time-Series Graph of II-9
Concentration (ppb)
500
400
300
200
100
0
5/11/2005
11/4/2006
4/30/2008
10/25/2009
4/20/2011
10/14/2012
4/10/2014
10/5/2015
Sample Date

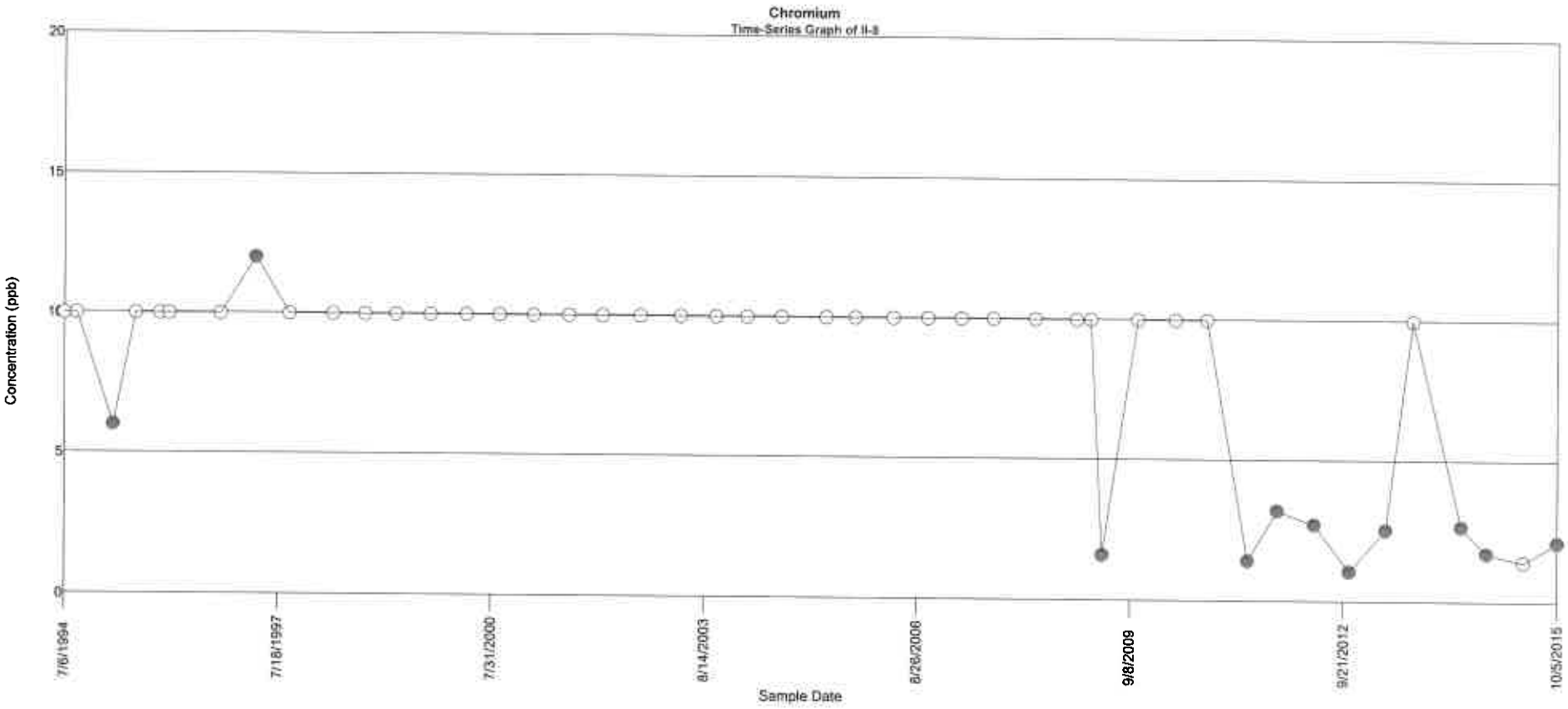

Barium
Time-Series Graph of II-12
Concentration (ppb)
900
800
700
600
500
400
300
200
100
0
5/11/2005
11/4/2006
4/30/2008
10/25/2009
4/20/2011
10/14/2012
4/10/2014
10/5/2015
Sample Date

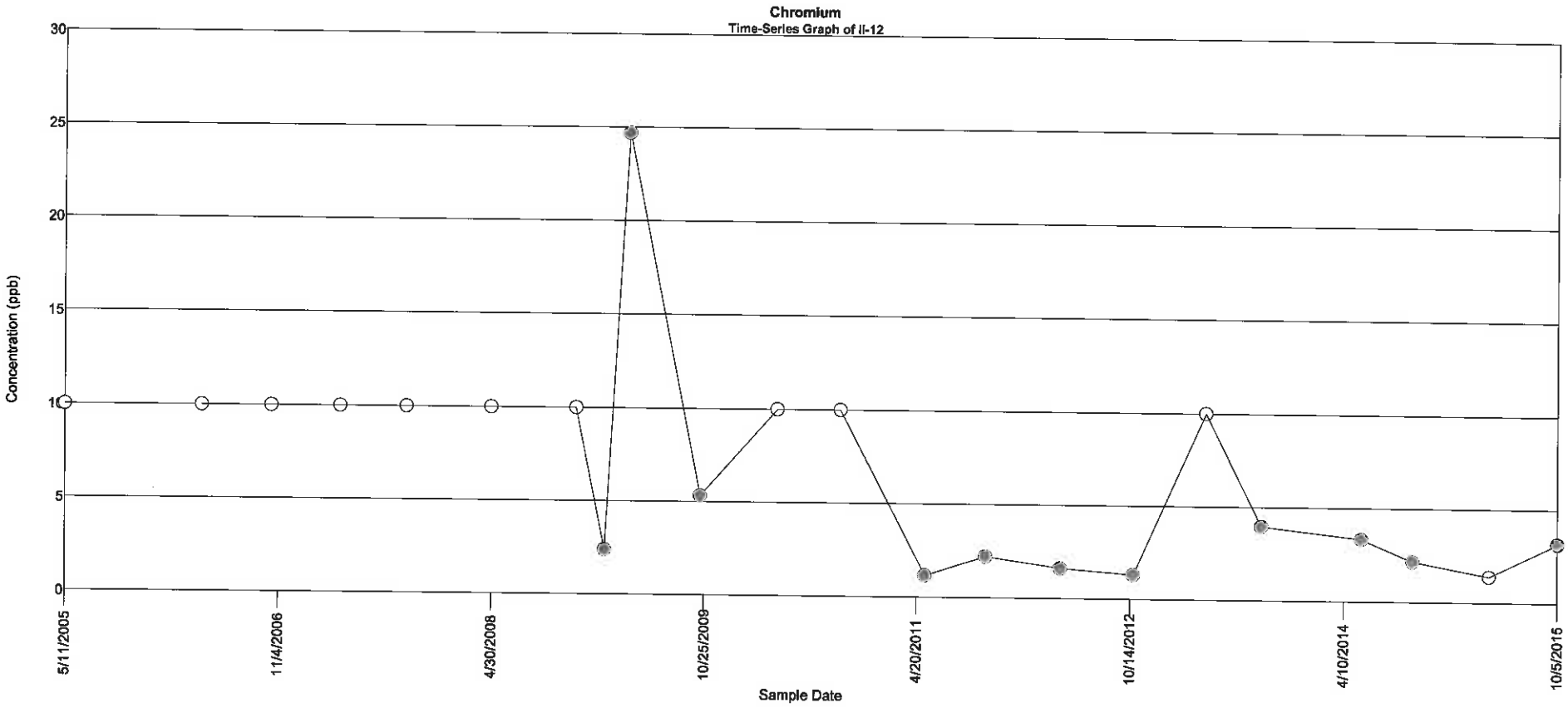

Barium
Time Series Graph of MW-13
Concentration (ppb)
500
400
300
200
100
0
7/6/1994
7/18/1997
7/31/2000
8/14/2003
8/26/2006
9/8/2009
9/21/2012
10/5/2015
Sample Date

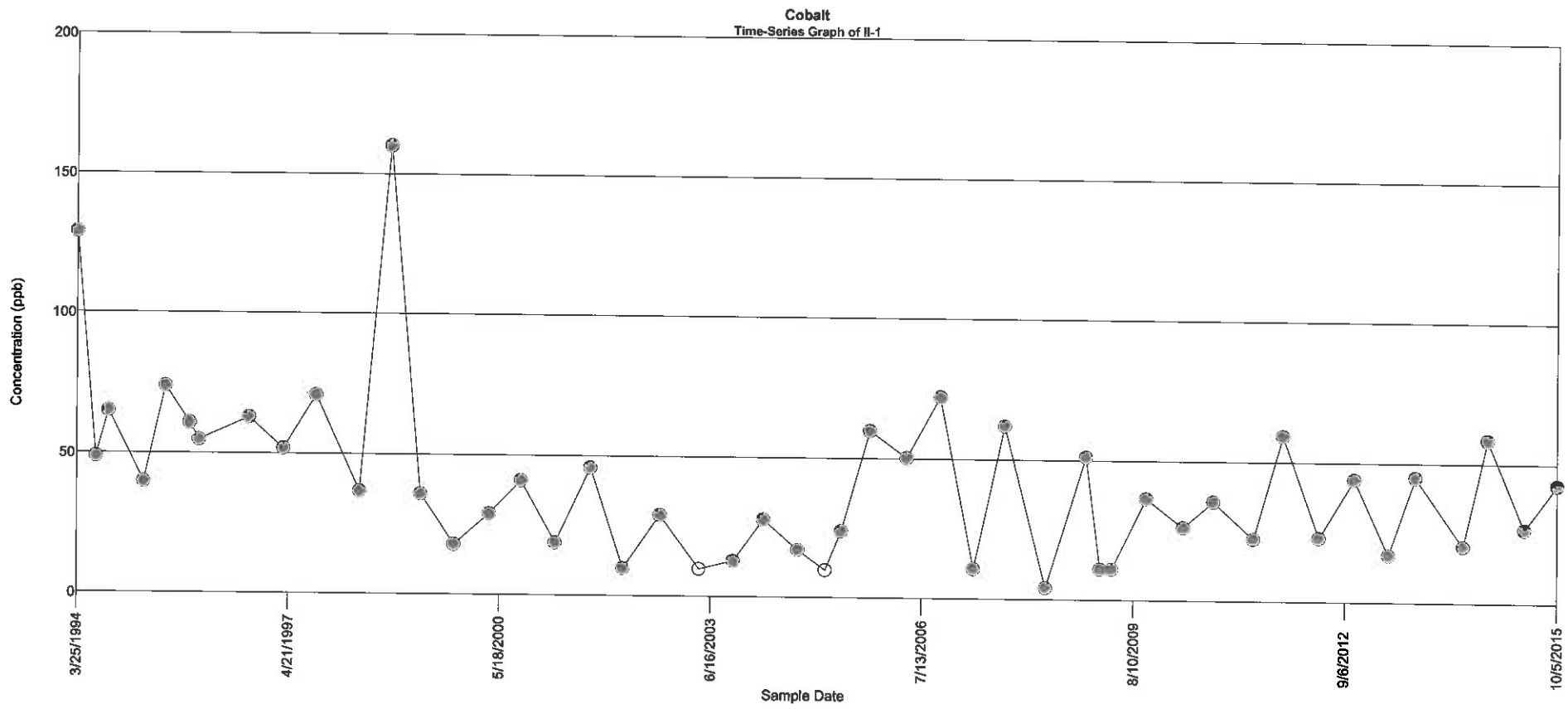

Chromium
Time-Series Graph of II-1
Concentration (ppb)
300
250
200
150
100
50
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

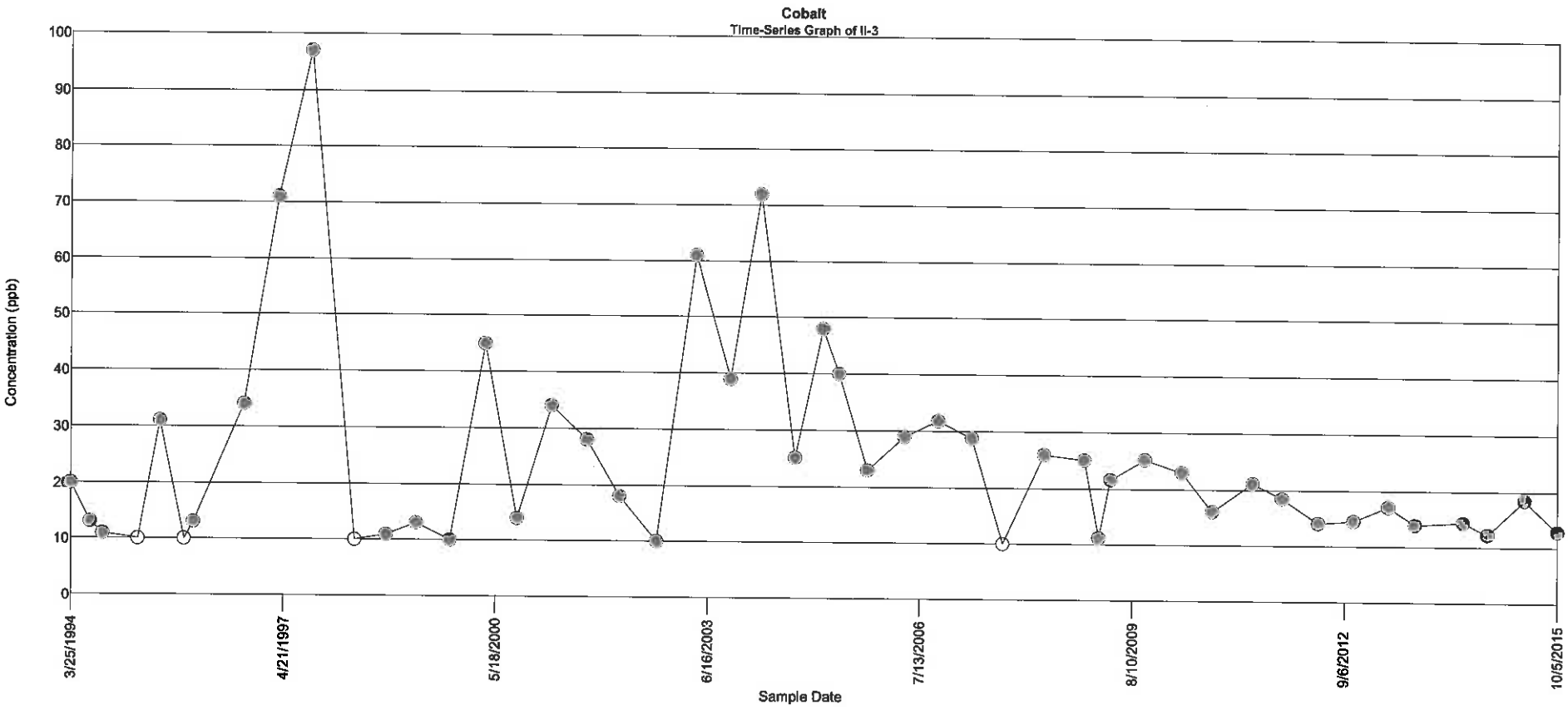

Chromium
Time-Series Graph of II-5
Concentration (ppb)
50
40
30
20
10
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

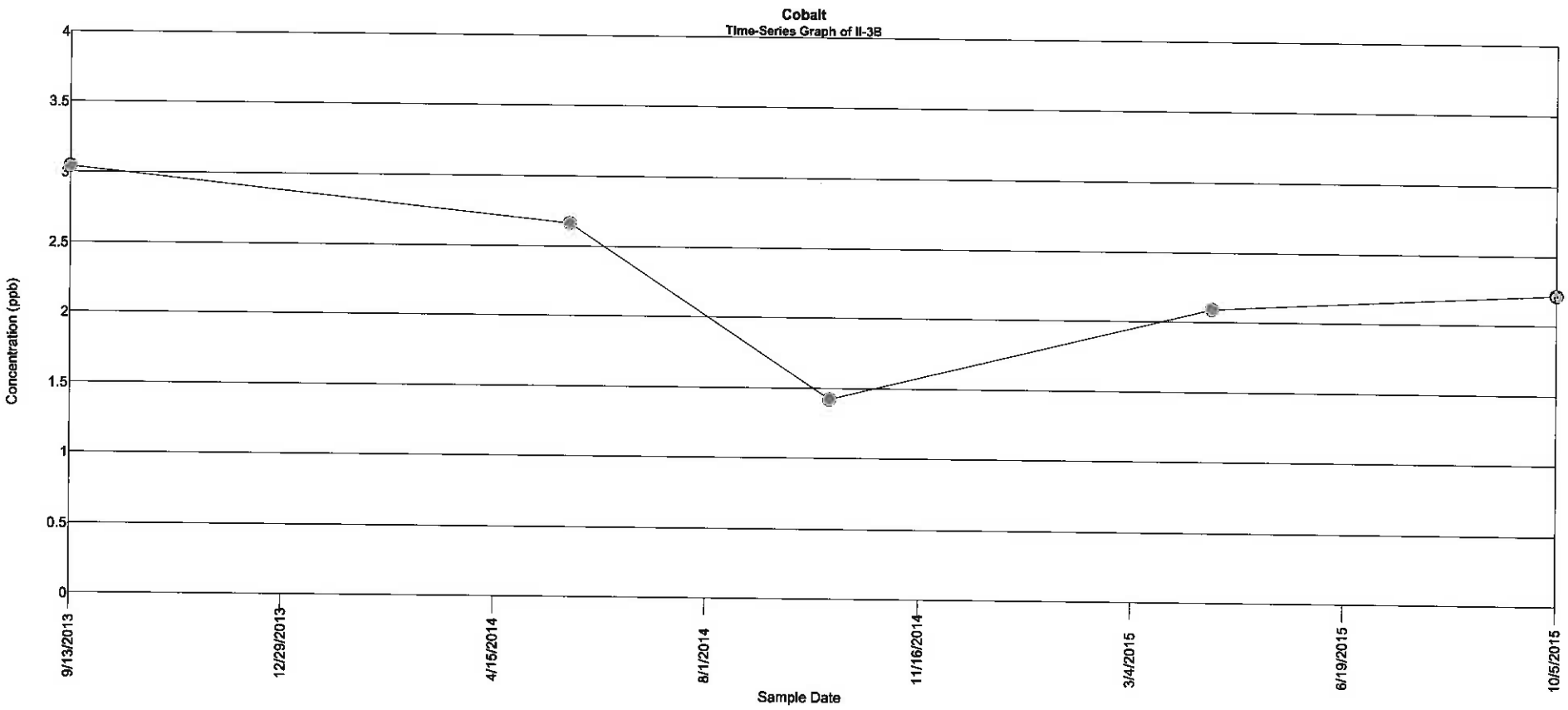

Chromium
Time-Series Graph of II-6
Concentration (ppb)
50
40
30
20
10
0
3/17/1995
2/21/1998
1/28/2001
1/6/2004
12/13/2006
11/20/2009
10/27/2012
10/5/2015
Sample Date

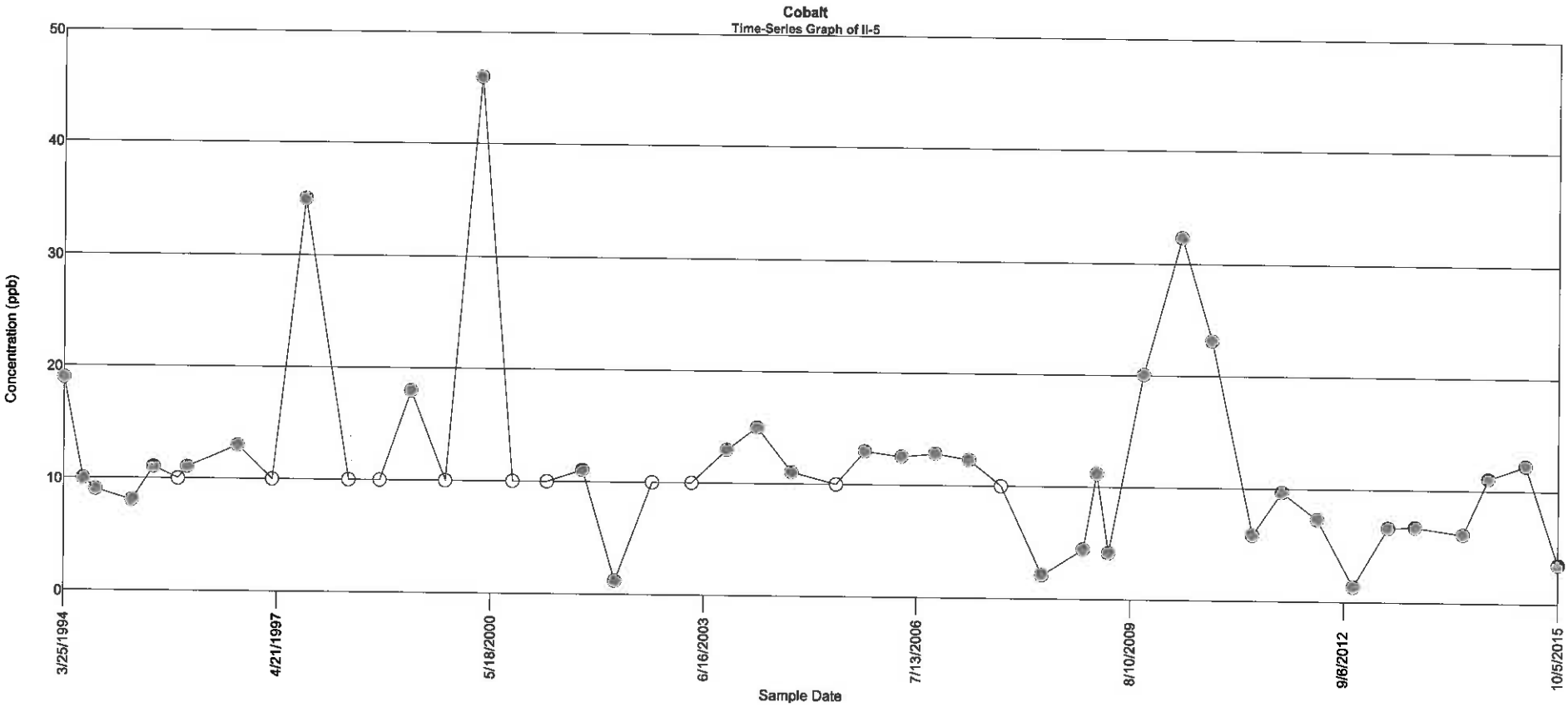

Chromium
Time-Series Graph of II-8
Concentration (ppb)
20
15
10
5
0
7/6/1994
7/18/1997
7/31/2000
8/14/2003
8/28/2006
9/8/2009
9/21/2012
10/5/2015
Sample Date

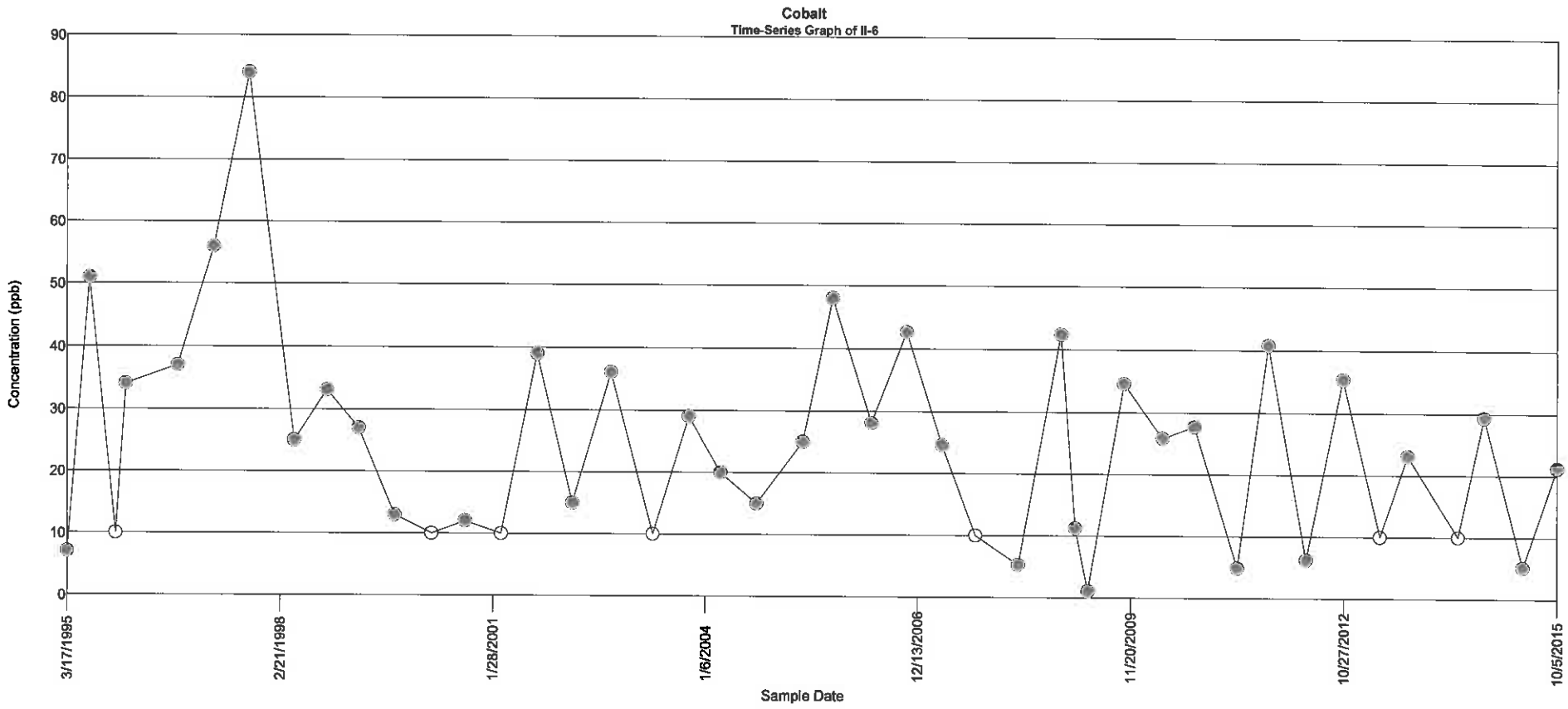

Chromium
Time-Series Graph of II-12
Concentration (ppb)
30
25
20
15
10
5
0
5/11/2005
11/4/2006
4/30/2008
10/25/2009
4/20/2011
10/14/2012
4/10/2014
10/5/2015
Sample Date

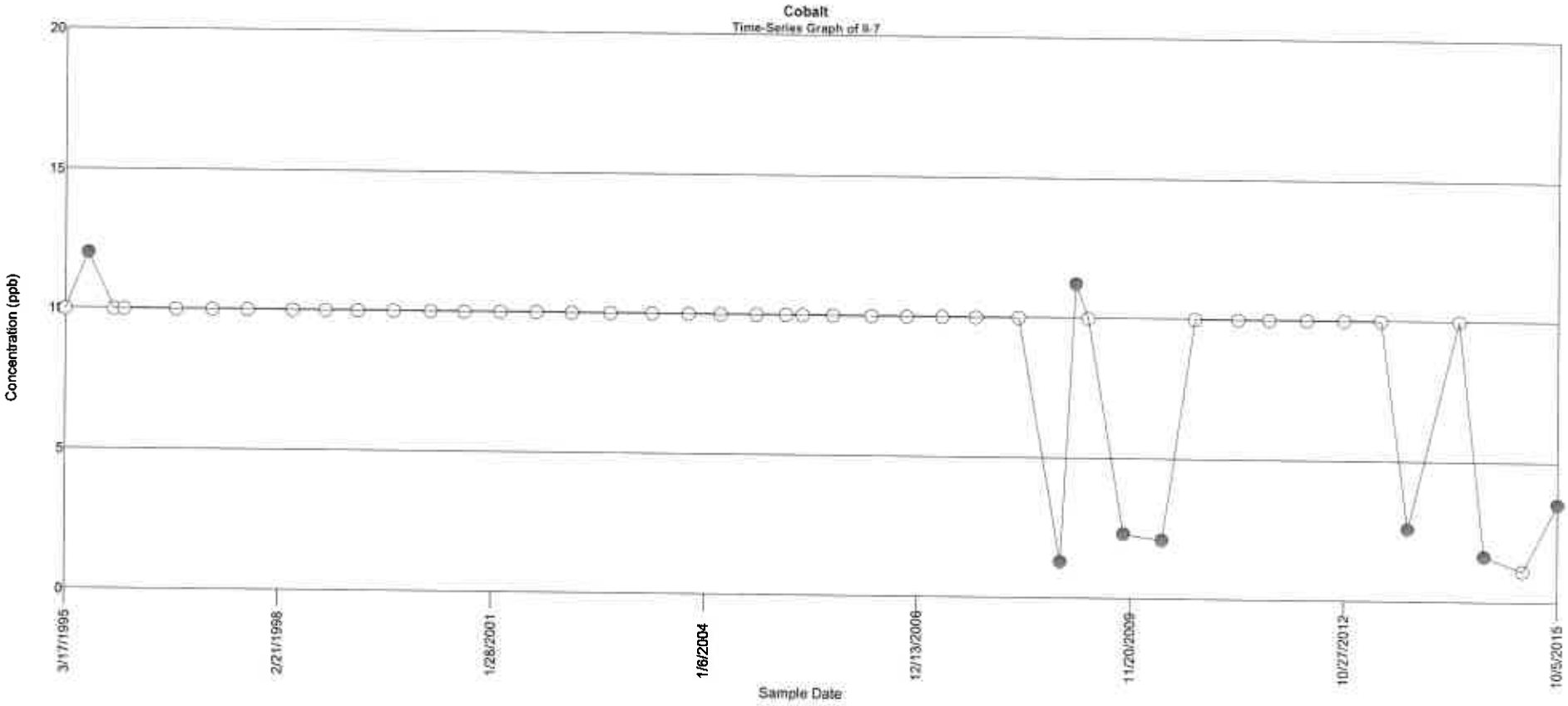

Cobalt
Time-Series Graph of II-1
Concentration (ppb)
200
150
100
50
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

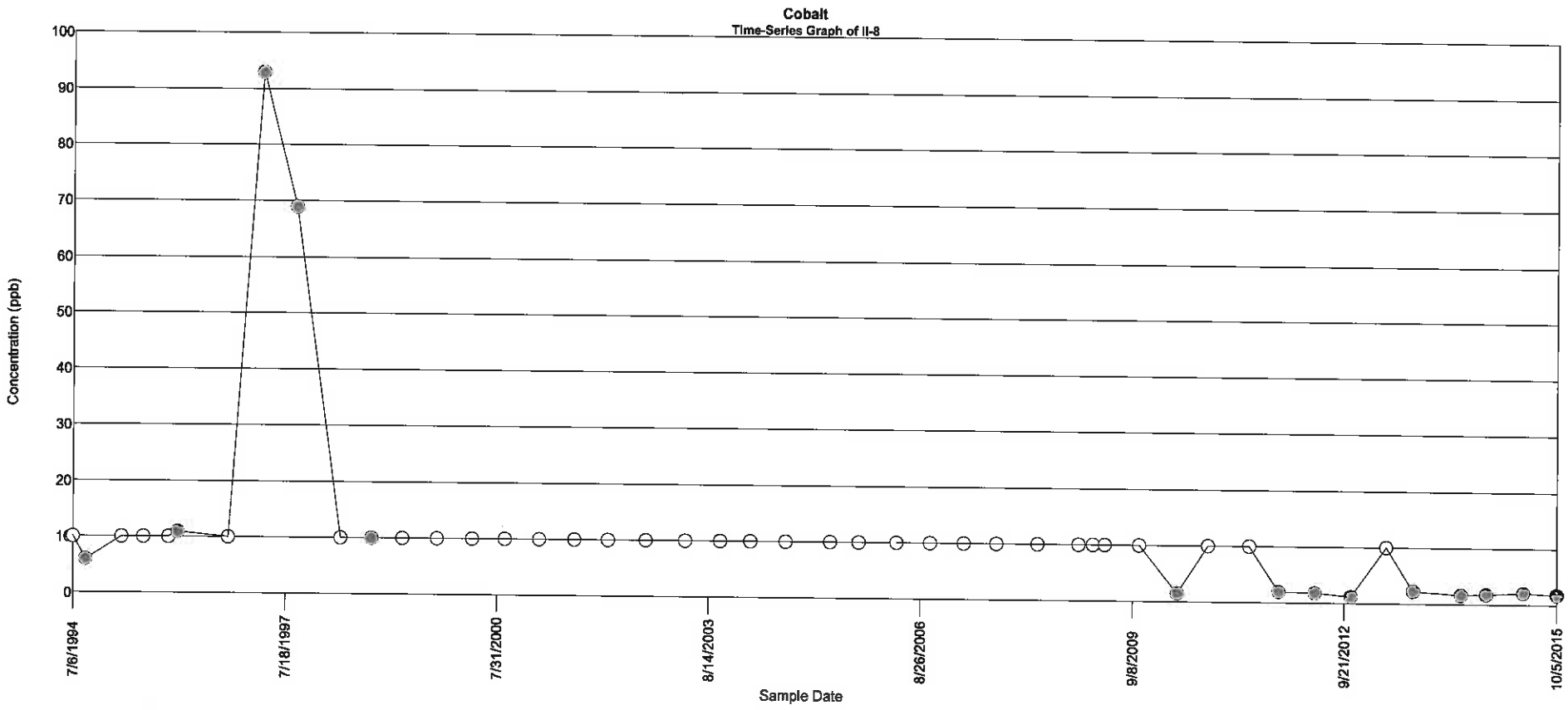

Cobalt
Time-Series Graph of II-3
Concentration (ppb)
100
90
80
70
60
50
40
30
20
10
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

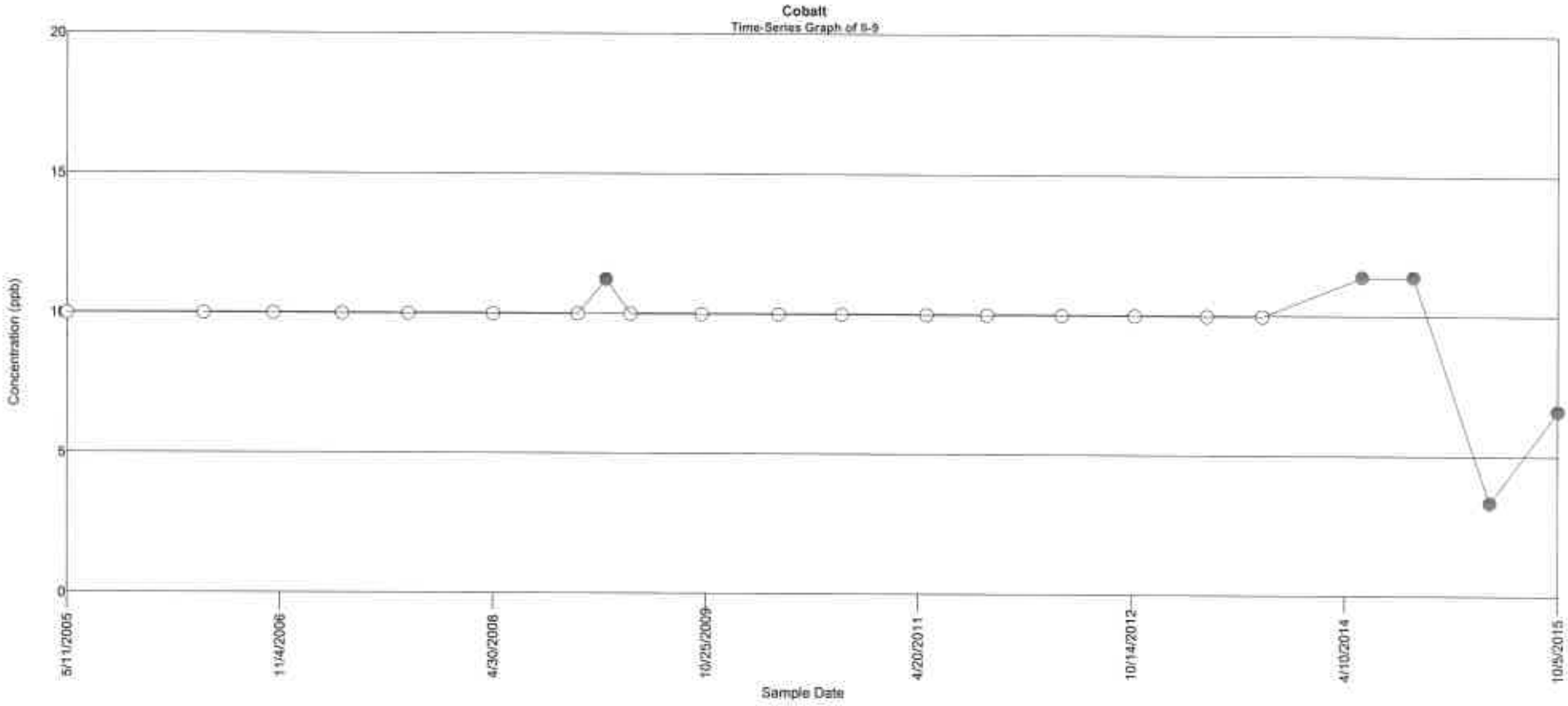

Cobalt
Time-Series Graph of II-3B
Concentration (ppb)
4
3.5
3
2.5
2
1.5
1
0.5
0
9/13/2013
12/29/2013
4/15/2014
8/1/2014
11/16/2014
3/4/2015
6/19/2015
10/5/2015
Sample Date

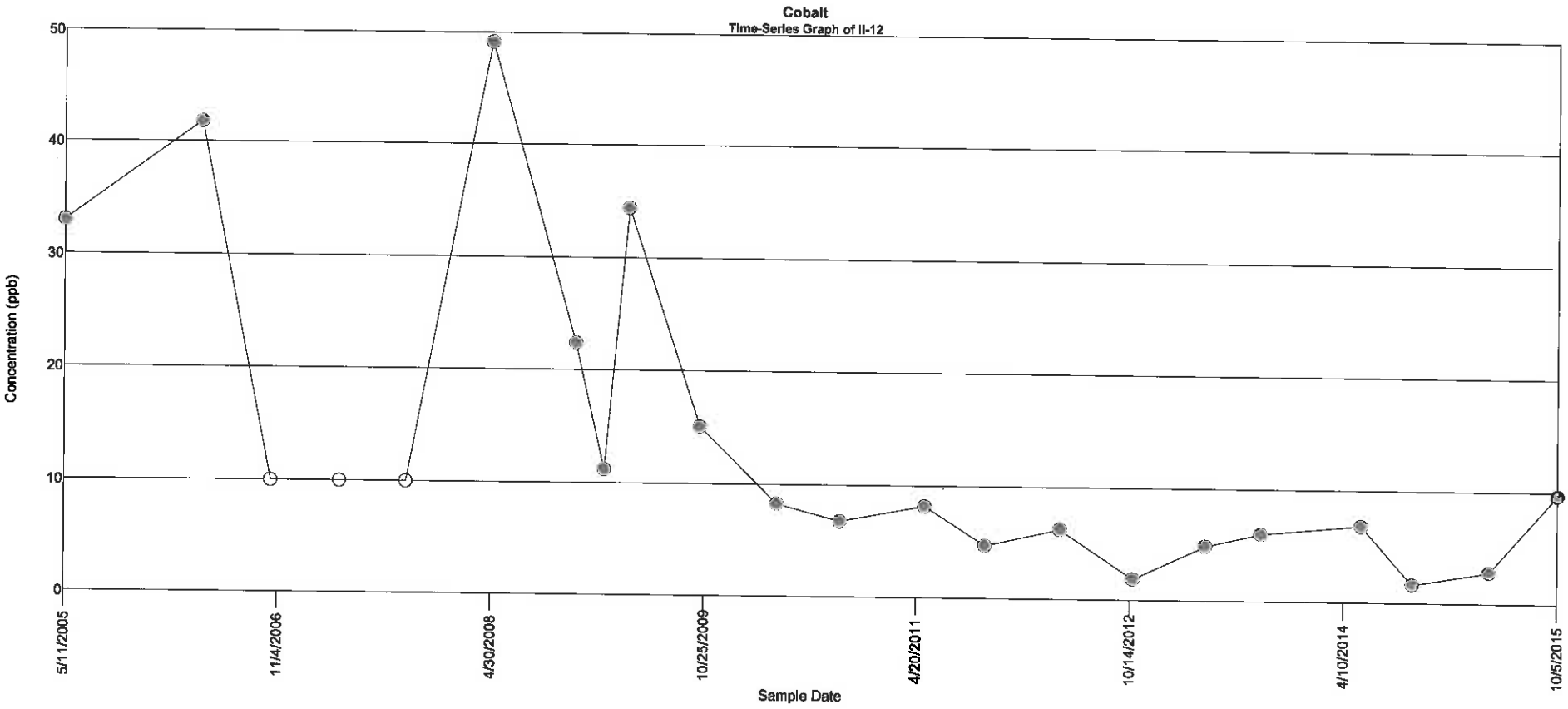

Cobalt
Time-Series Graph of II-5
Concentration (ppb)
50
40
30
20
10
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/8/2012
10/5/2015
Sample Date

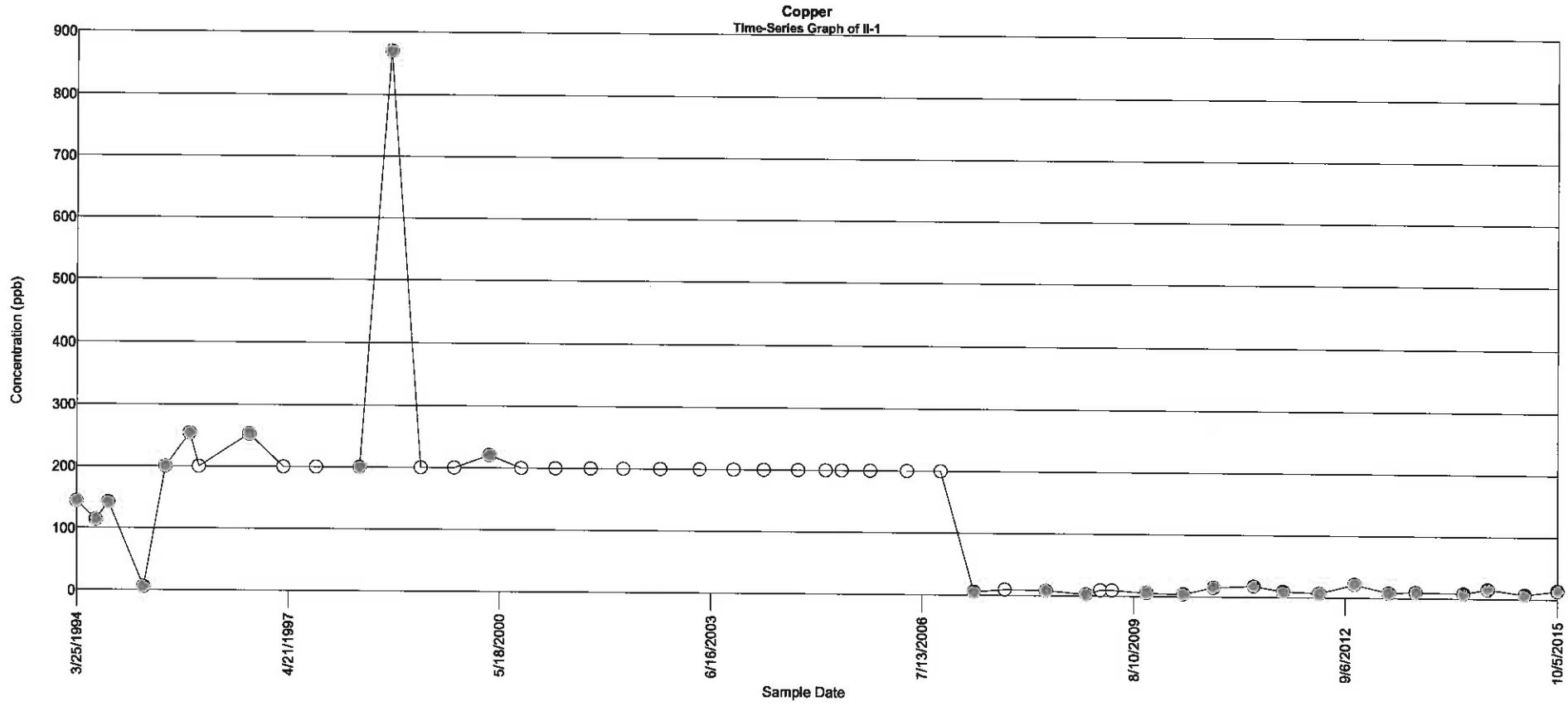

Cobalt
Time-Series Graph of II-6
Concentration (ppb)
90
80
70
60
50
40
30
20
10
0
3/17/1995
2/21/1998
1/28/2001
1/6/2004
12/13/2006
11/20/2009
10/27/2012
10/5/2015
Sample Date

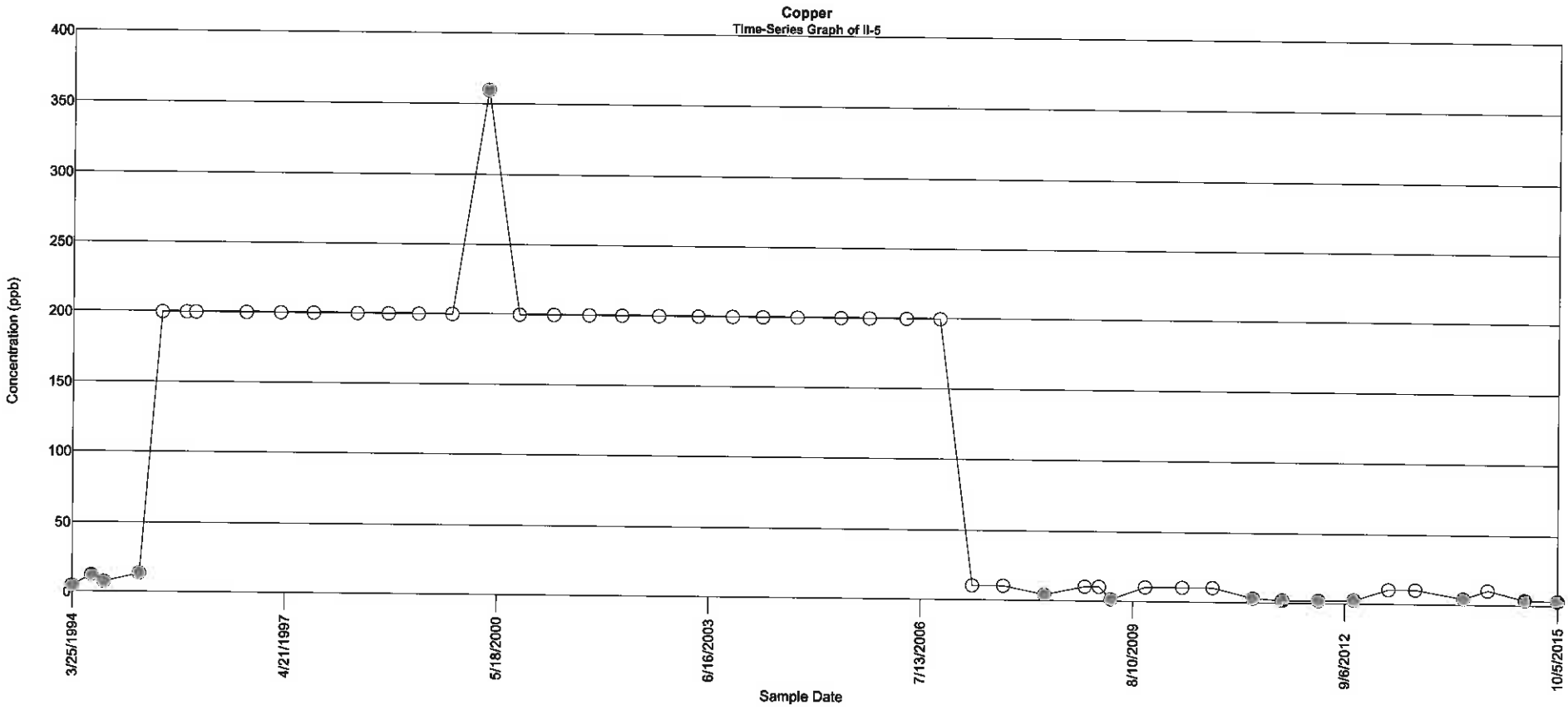

Cobalt
Time-Series Graph of II-7
Concentration (ppb)
20
15
10
5
0
3/17/1995
2/21/1998
1/26/2001
1/6/2004
12/13/2006
11/20/2009
10/27/2012
10/5/2015
Sample Date

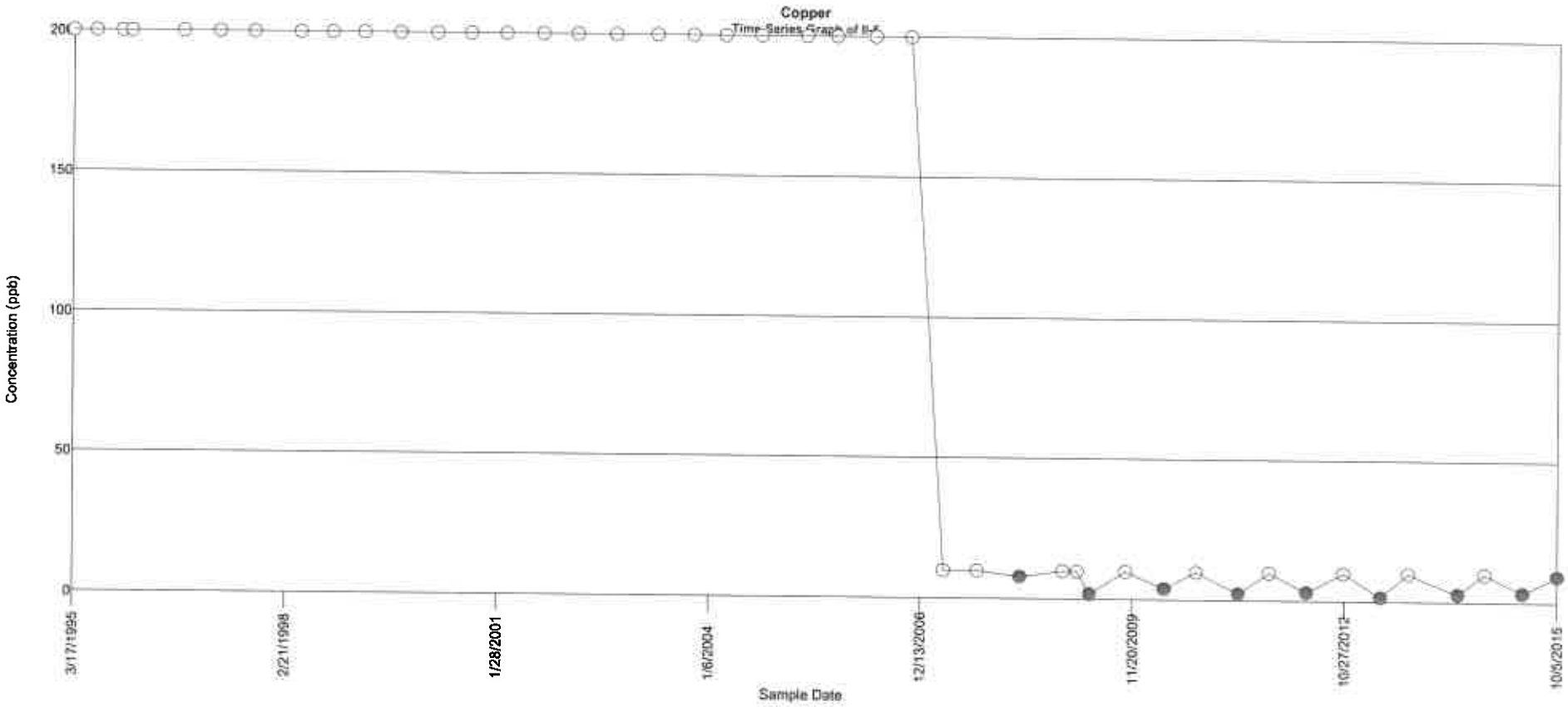

Cobalt
Time-Series Graph of II-8
Concentration (ppb)
100
90
80
70
60
50
40
30
20
10
0
7/6/1994
7/18/1997
7/31/2000
8/14/2003
8/26/2006
9/8/2009
9/21/2012
10/5/2015
Sample Date

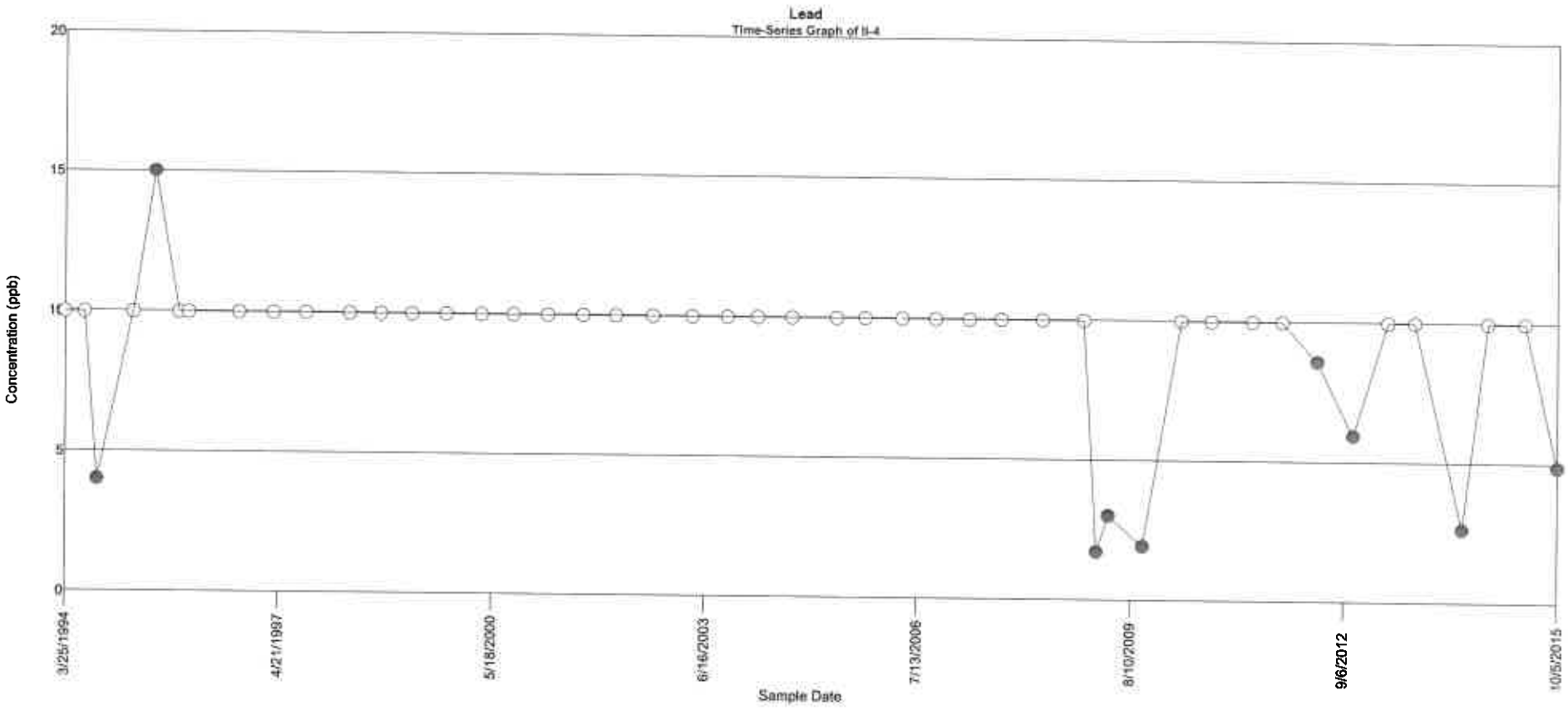

Cobalt
Time-Series Graph of S-9
Concentration (ppb)
20
15
10
5
0
5/11/2005
11/4/2006
4/30/2008
10/25/2009
4/20/2011
10/14/2012
4/10/2014
10/5/2015
Sample Date

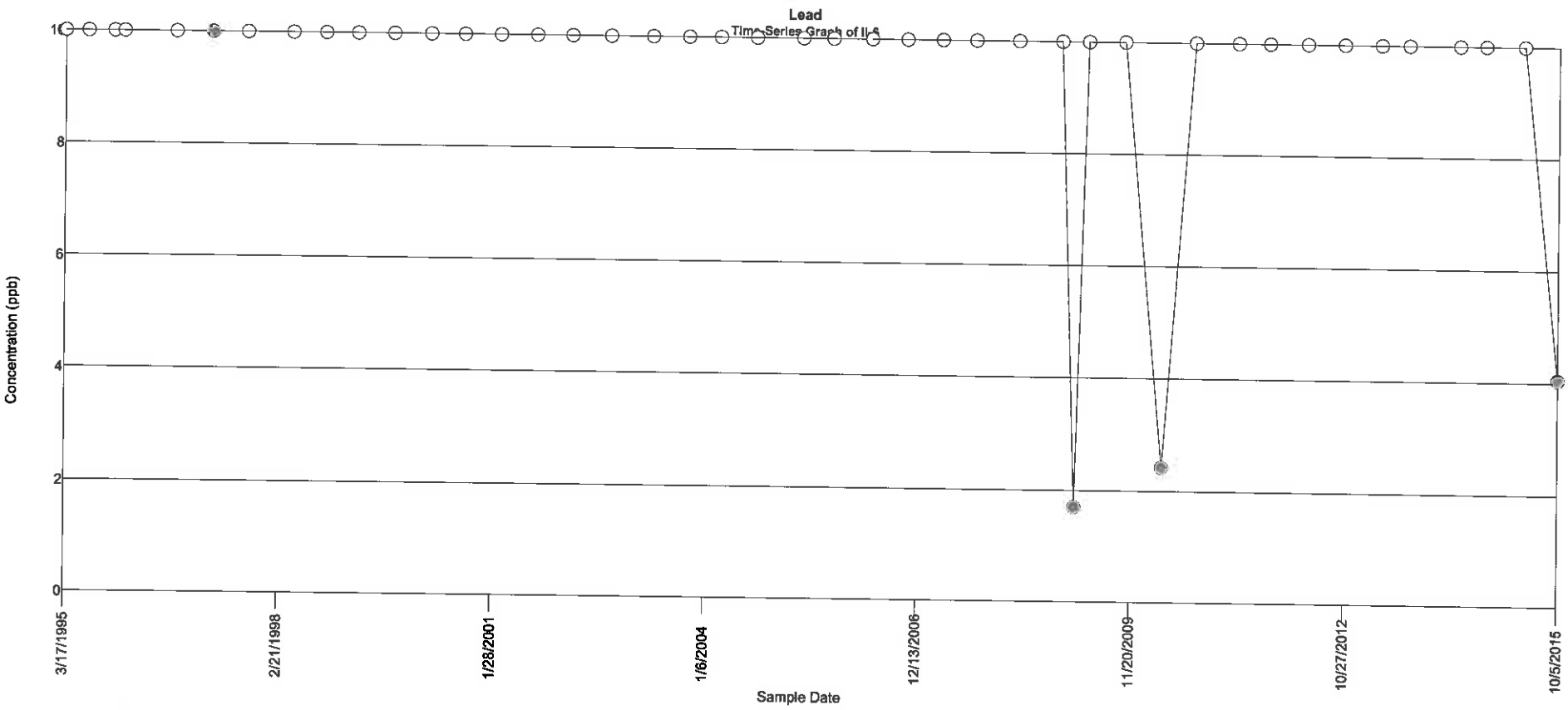

Cobalt
Time-Series Graph of II-12
Concentration (ppb)
50
40
30
20
10
0
5/11/2005
11/4/2006
4/30/2008
10/25/2009
4/20/2011
10/14/2012
4/10/2014
10/5/2015
Sample Date

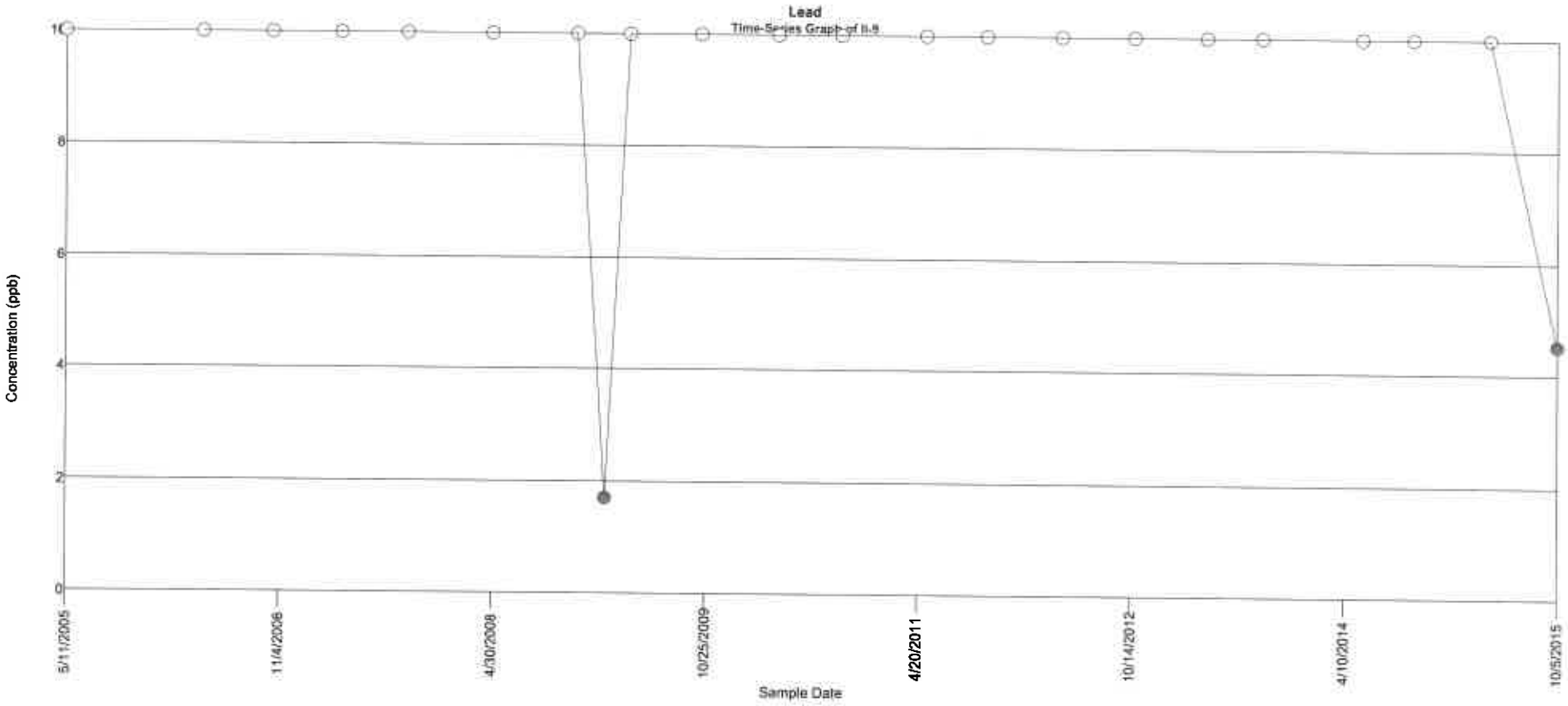

Copper
Time-Series Graph of II-1
Concentration (ppb)
900
800
700
600
500
400
300
200
100
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

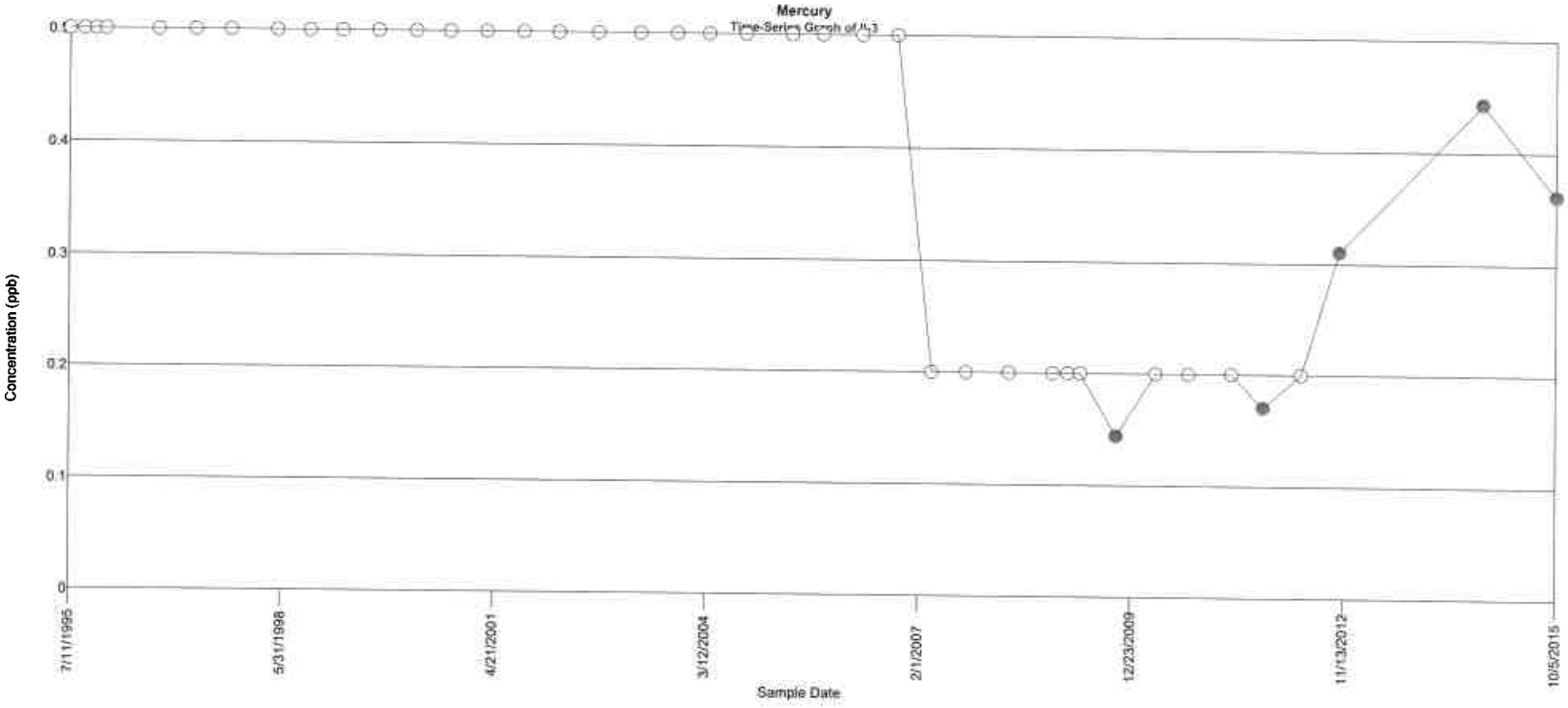

Copper
Time-Series Graph of II-5
Concentration (ppb)
400
350
300
250
200
150
100
50
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

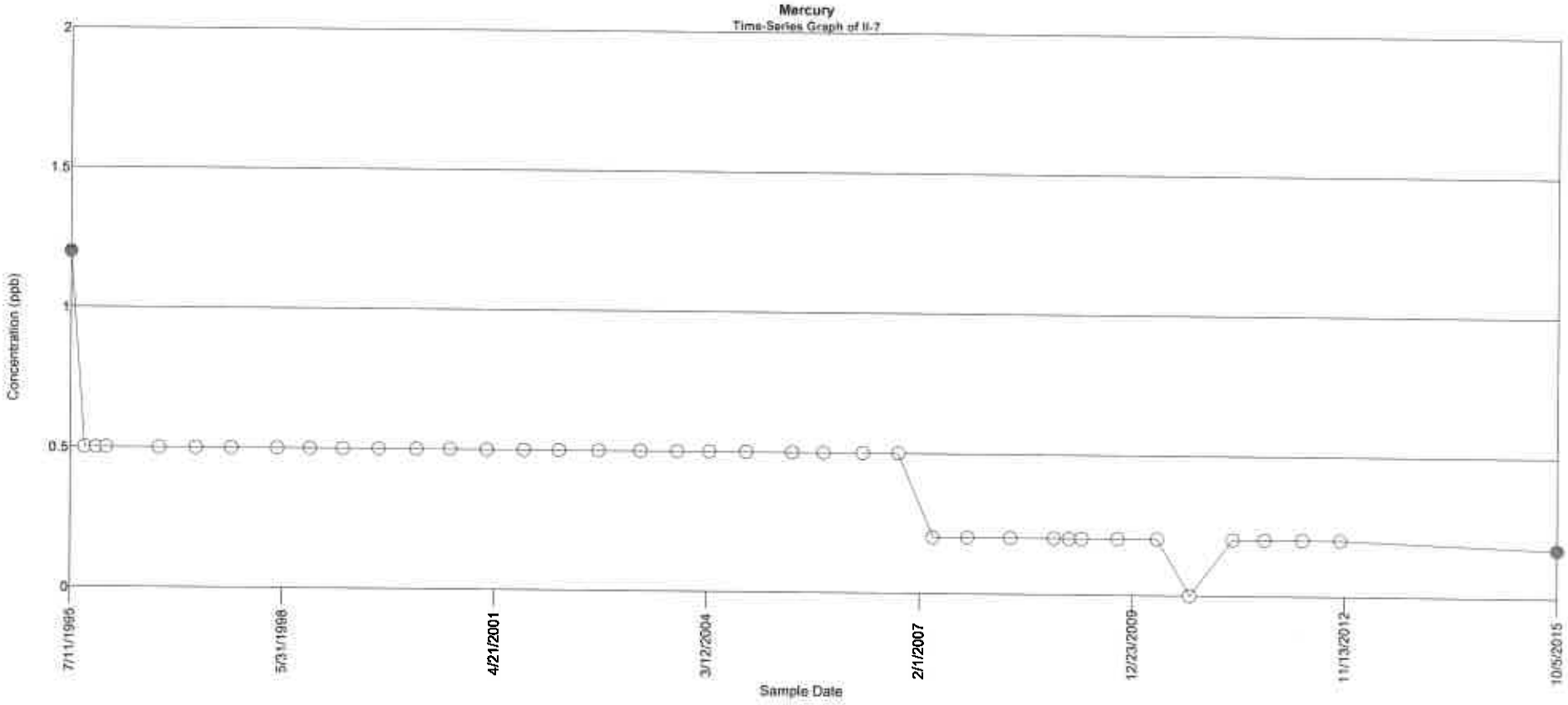

Copper
Time Series Graph of B-5
Concentration (ppb)
200
150
100
50
0
3/17/1995
2/21/1998
1/28/2001
1/6/2004
12/13/2006
11/20/2009
10/27/2012
10/5/2015
Sample Date

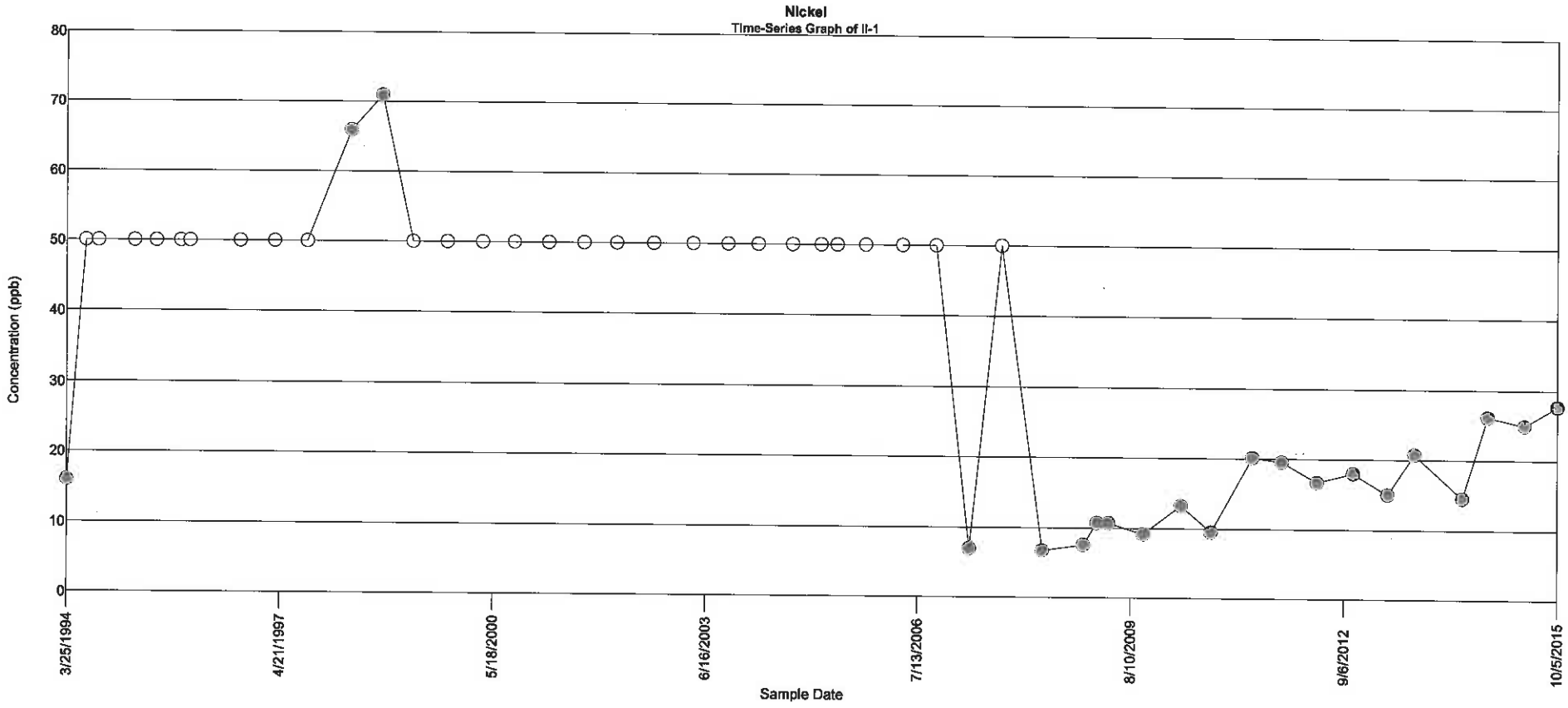

Lead
Time-Series Graph of II-4
Concentration (ppb)
20
15
10
5
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

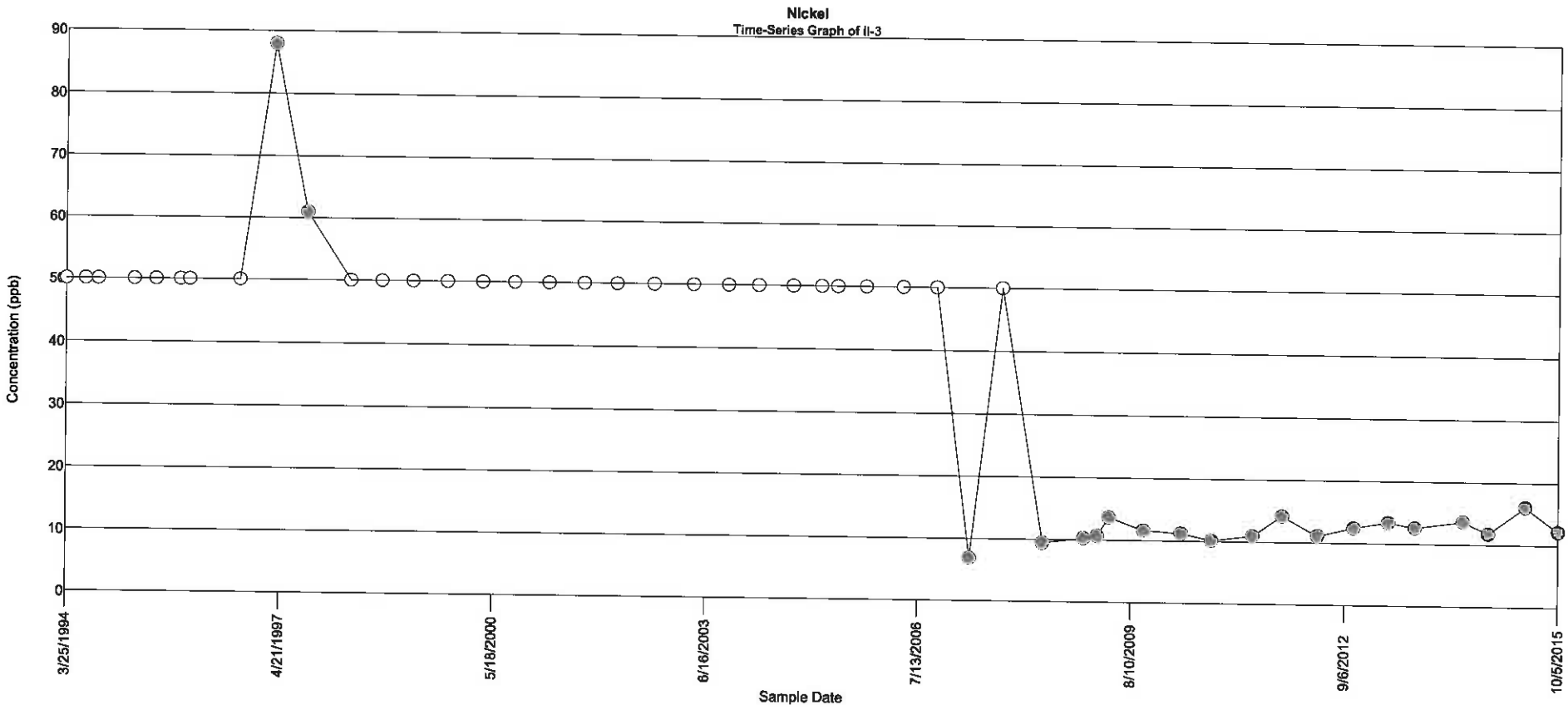

Lead
Time Series Graph of II-6
Concentration (ppb)
10
8
6
4
2
0
3/17/1995
2/21/1998
1/26/2001
1/6/2004
12/13/2006
11/20/2009
10/27/2012
10/5/2015
Sample Date

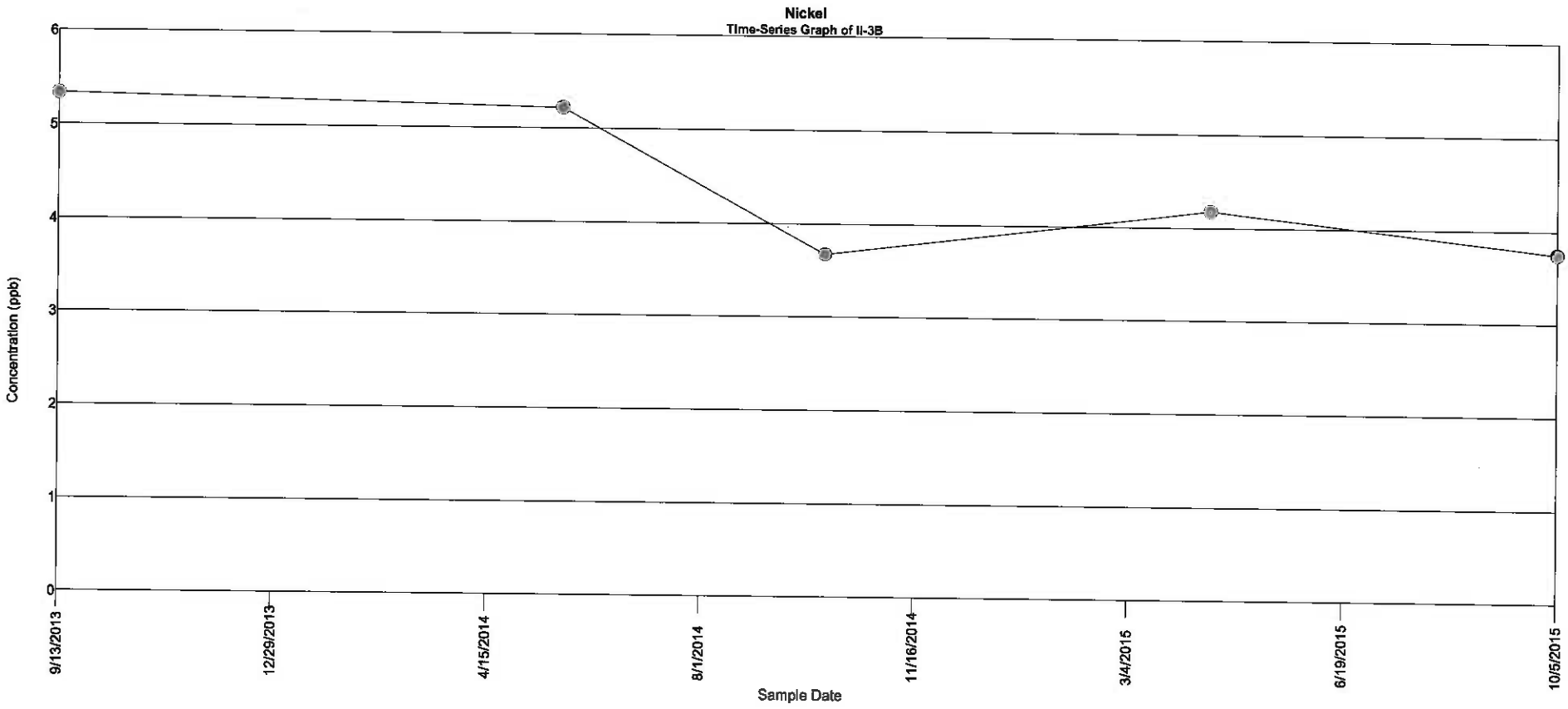

Lead
Time-Series Graph of II-8
Concentration (ppb)
10
8
6
4
2
0
5/11/2005
11/4/2006
4/30/2008
10/25/2009
4/20/2011
10/14/2012
4/10/2014
10/5/2015
Sample Date

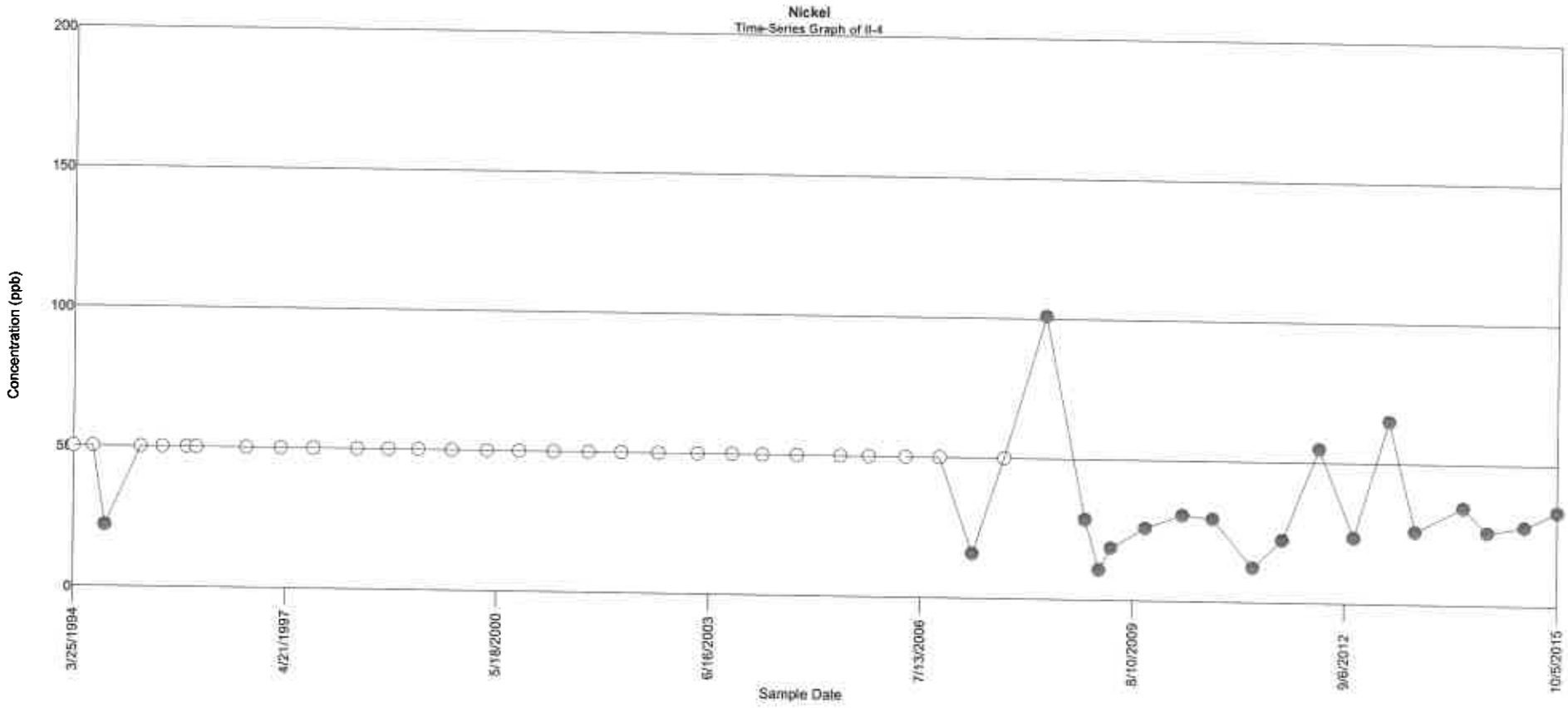

Mercury
Time-Series Graph of M3
Concentration (ppb)
0.5
0.4
0.3
0.2
0.1
0
7/11/1995
5/31/1998
4/21/2001
3/12/2004
2/1/2007
12/23/2009
11/13/2012
10/5/2015
Sample Date

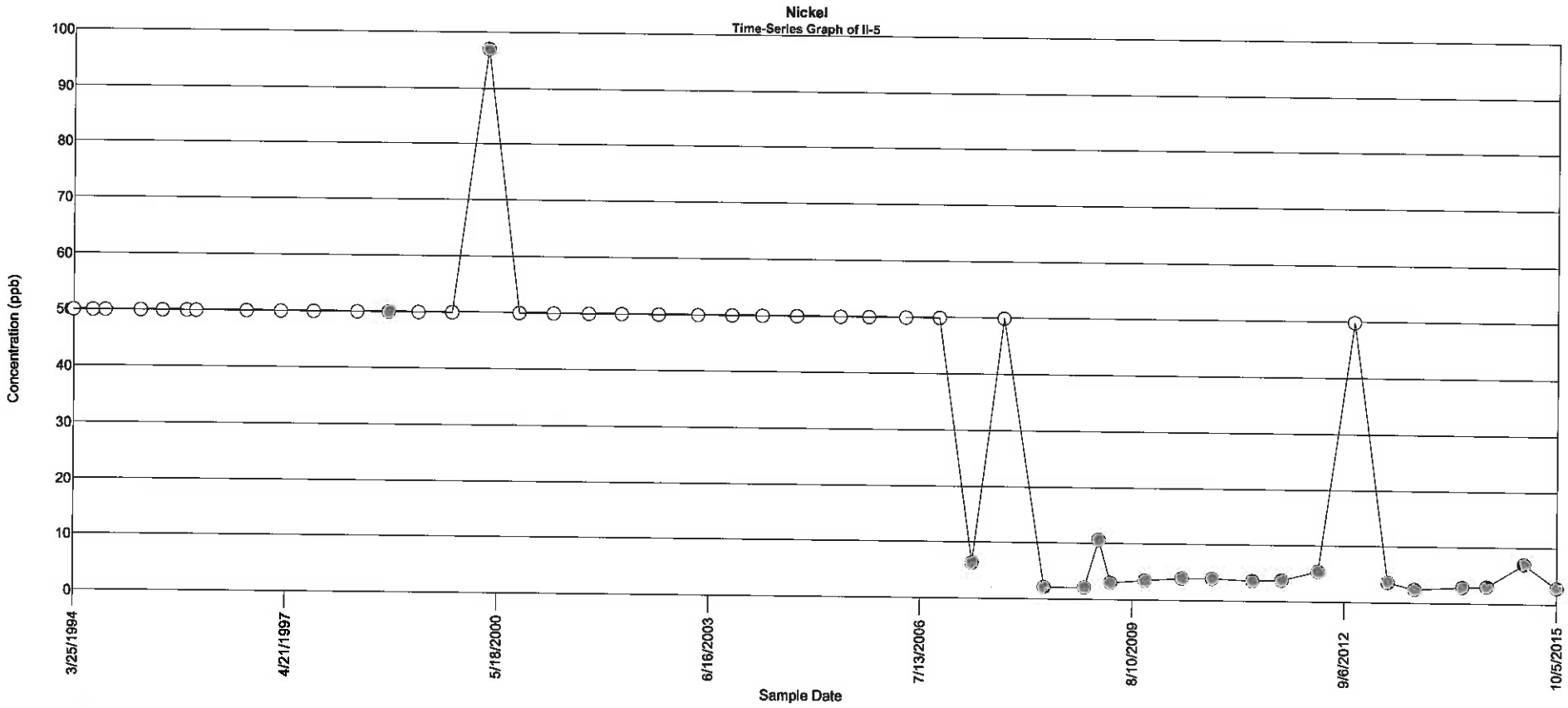

Mercury
Time-Series Graph of II-7
Concentration (ppb)
2
1.5
1
0.5
0
7/11/1996
5/31/1998
4/21/2001
3/12/2004
2/1/2007
12/23/2009
11/13/2012
10/0/2015
Sample Date

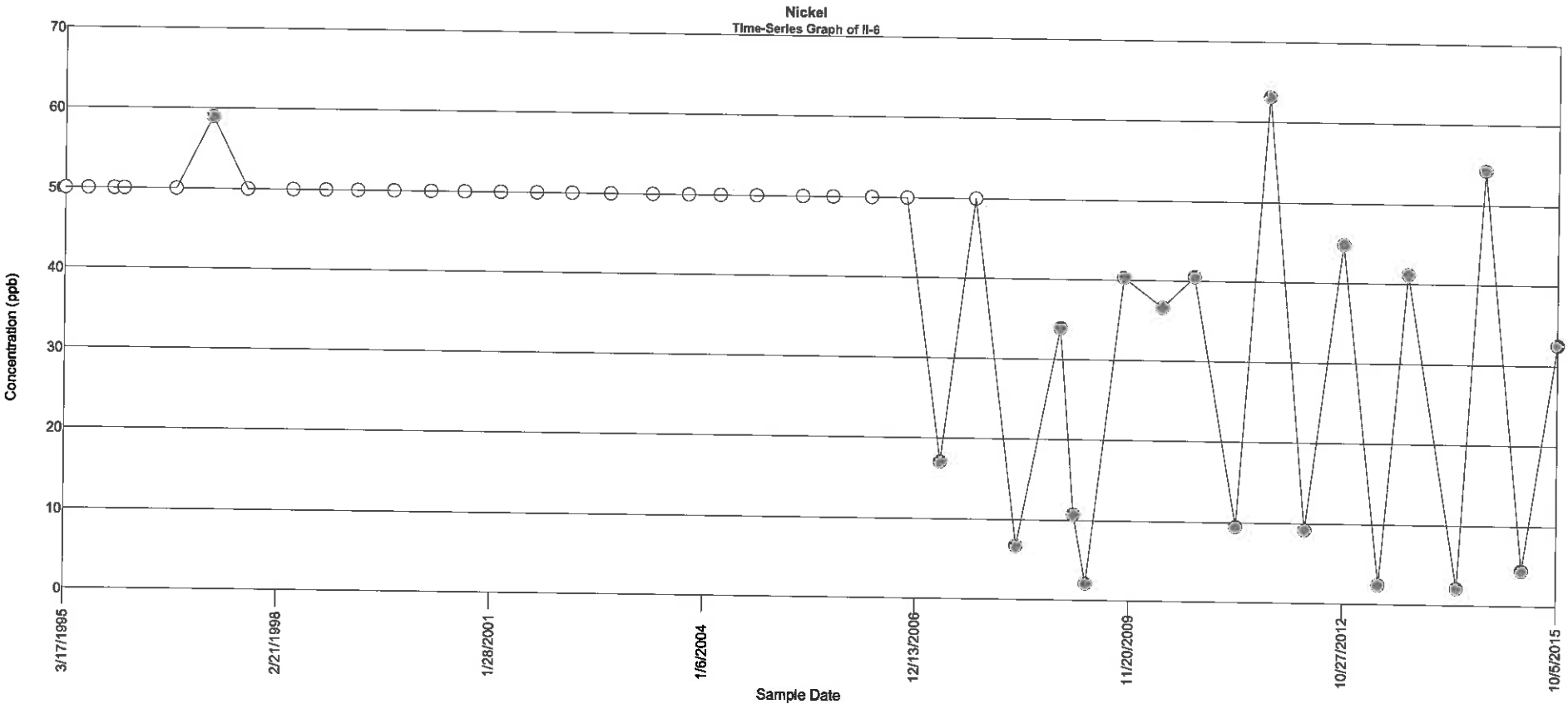

Nickel
Time-Series Graph of II-1
Concentration (ppb)
80
70
60
50
40
30
20
10
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

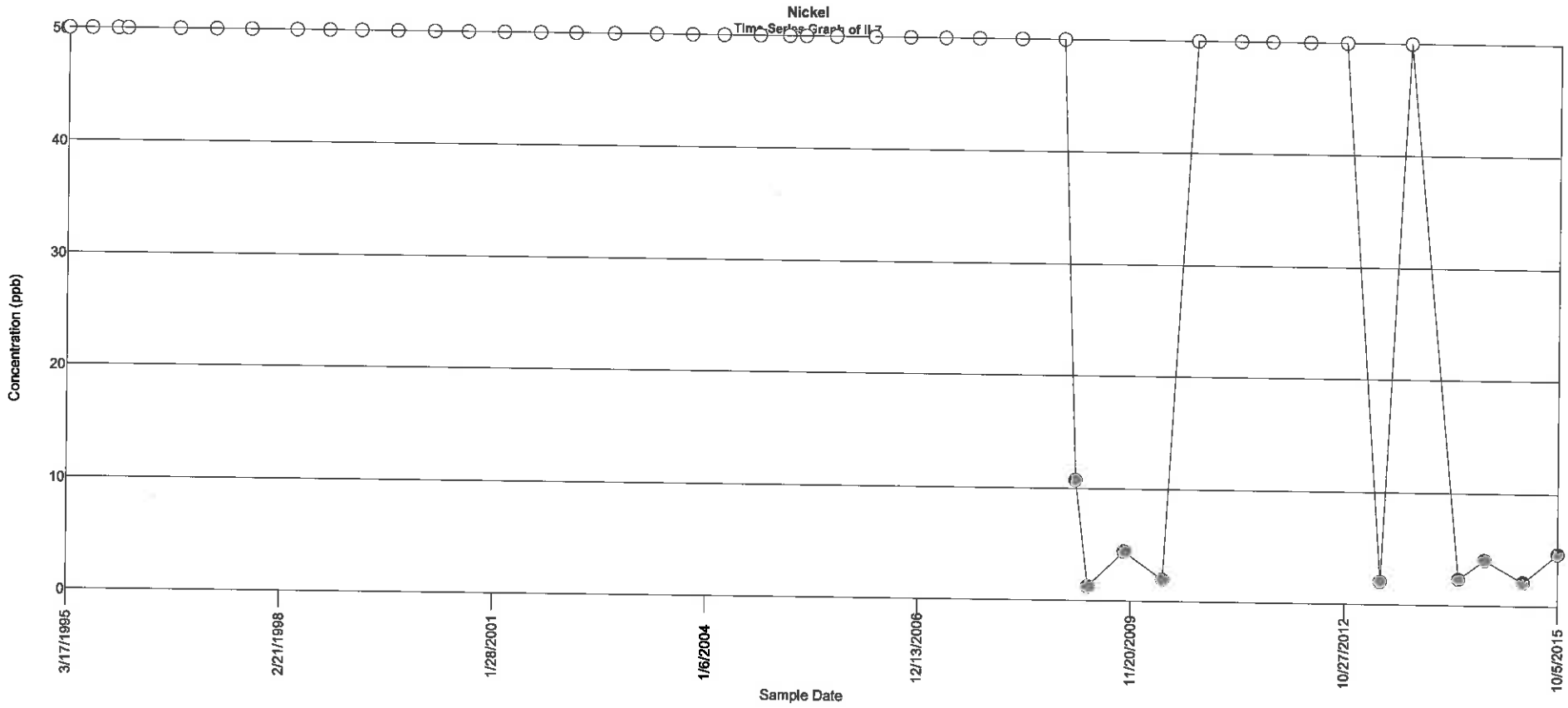

Nickel
Time-Series Graph of II-3
Concentration (ppb)
90
80
70
60
50
40
30
20
10
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

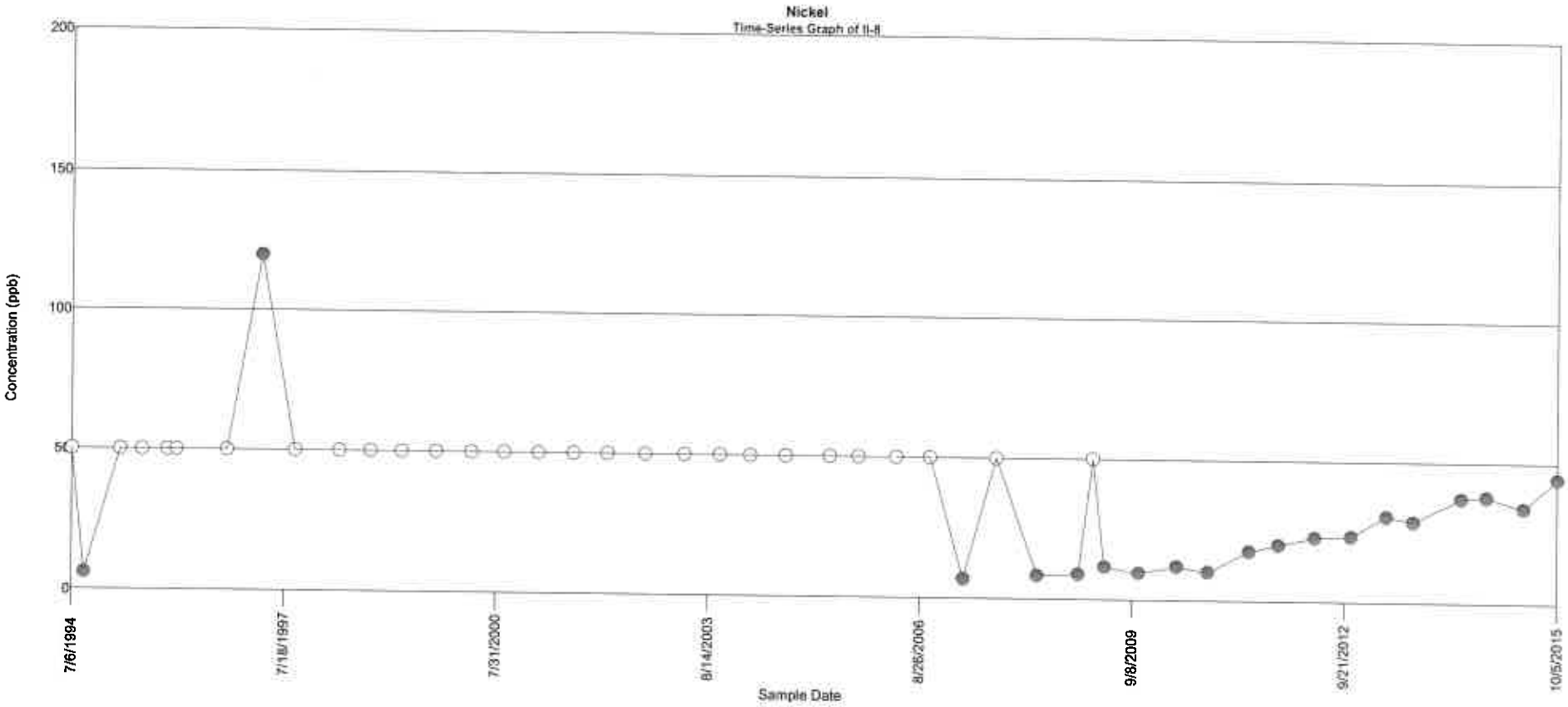

Nickel
Time-Series Graph of II-3B
Concentration (ppb)
0
1
2
3
4
5
6
9/13/2013
12/29/2013
4/15/2014
8/1/2014
11/16/2014
3/4/2015
6/19/2015
10/5/2015
Sample Date

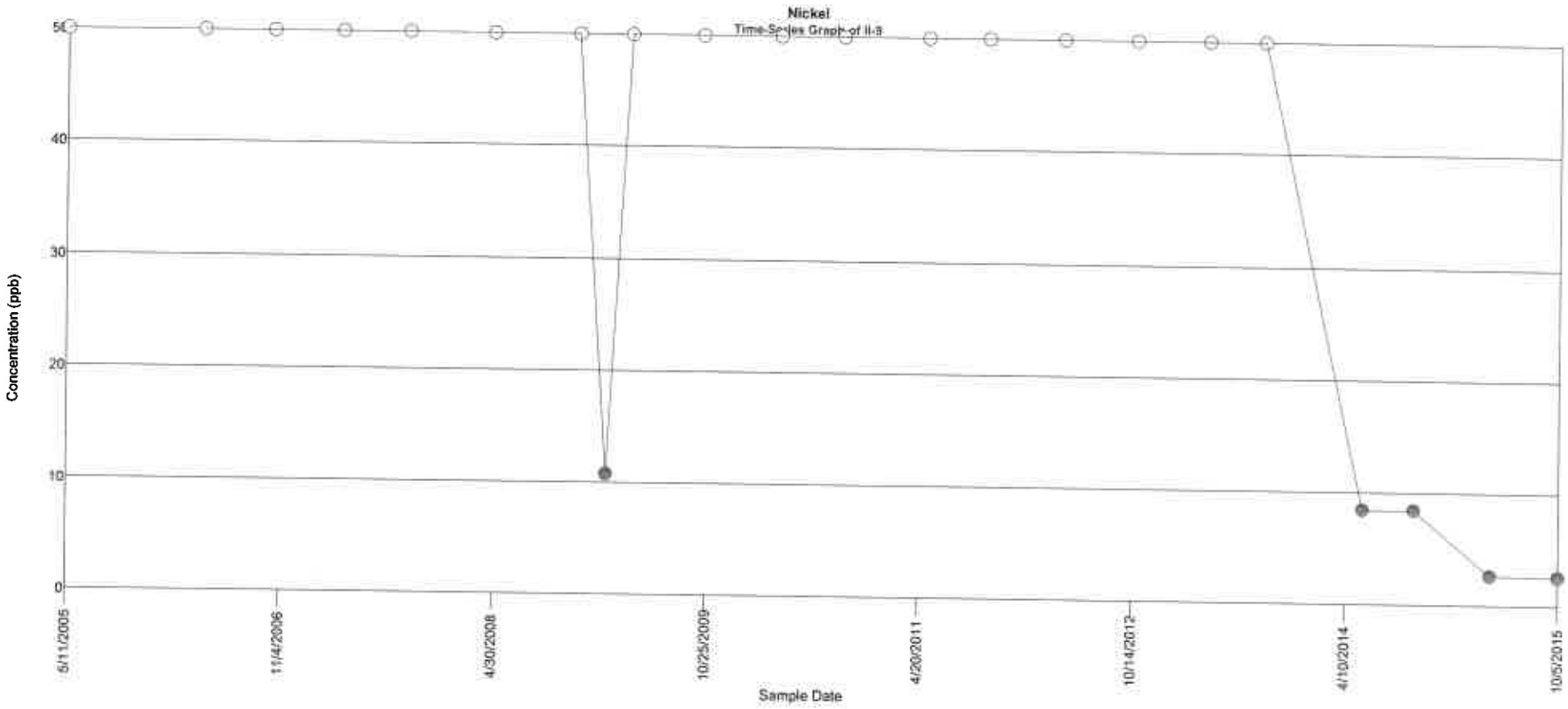

Nickel
Time-Series Graph of II-4
Concentration (ppb)
200
150
100
50
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

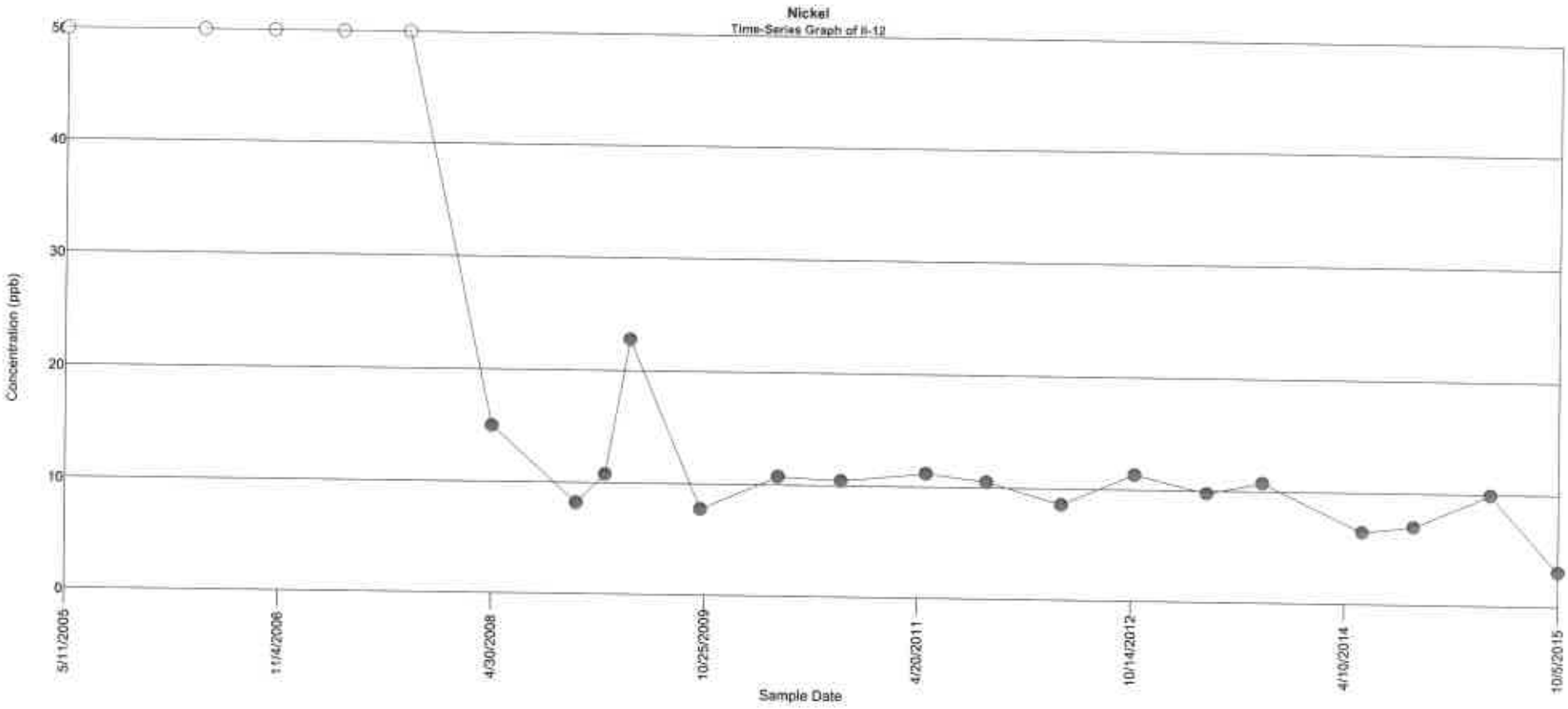

Nickel
Time-Series Graph of II-5
Concentration (ppb)
100
90
80
70
60
50
40
30
20
10
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

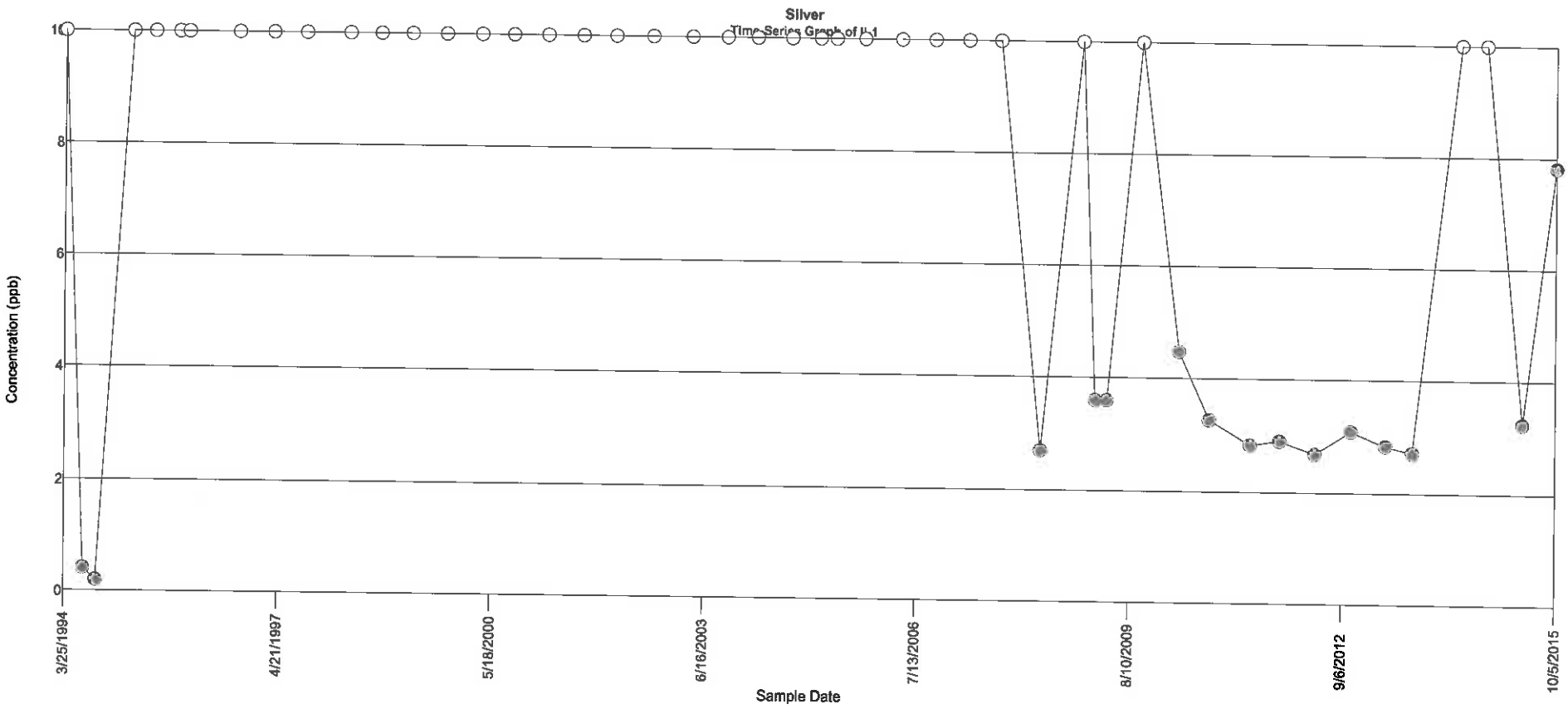

Nickel
Time-Series Graph of II-6
Concentration (ppb)
70
60
50
40
30
20
10
0
3/17/1995
2/21/1998
1/28/2001
1/6/2004
12/13/2006
11/20/2009
10/27/2012
10/5/2015
Sample Date

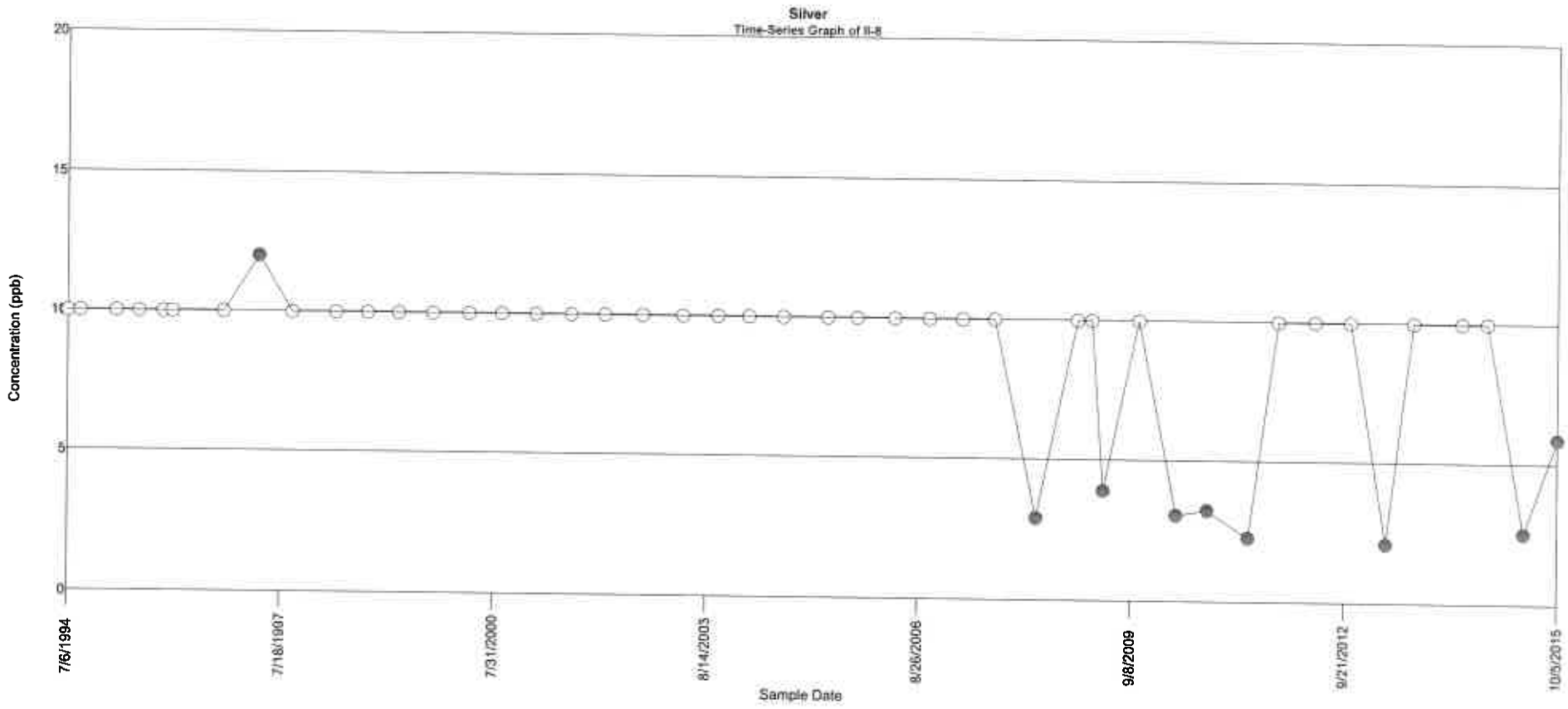

Nickel
Time Series Graph of II-7
Concentration (ppb)
50
40
30
20
10
0
3/17/1995
2/21/1998
1/28/2001
1/6/2004
12/13/2006
11/20/2009
10/27/2012
10/5/2015
Sample Date

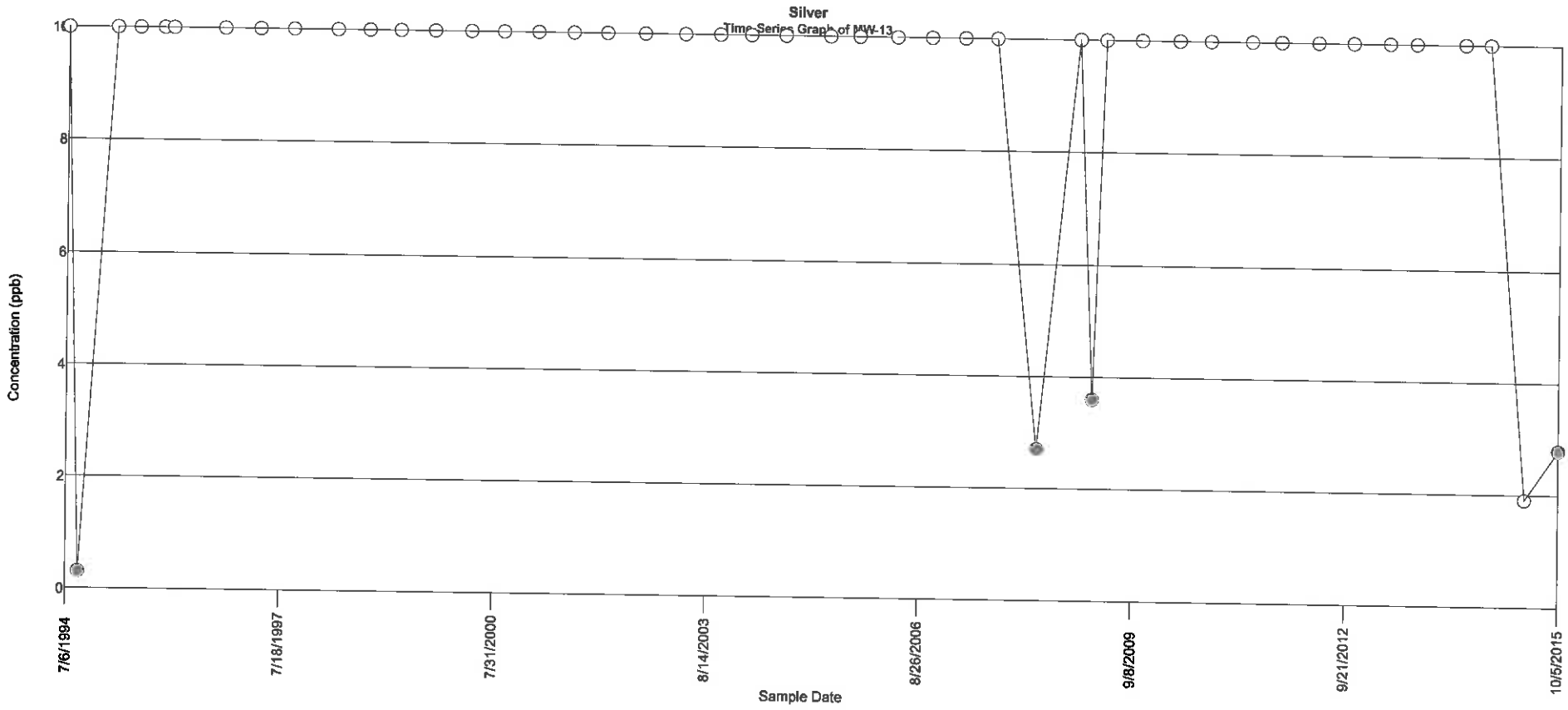

Nickel
Time-Series Graph of II-8
Concentration (ppb)
200
150
100
50
0
7/6/1994
7/18/1997
7/31/2000
8/14/2003
8/26/2006
9/8/2009
9/21/2012
10/5/2015
Sample Date

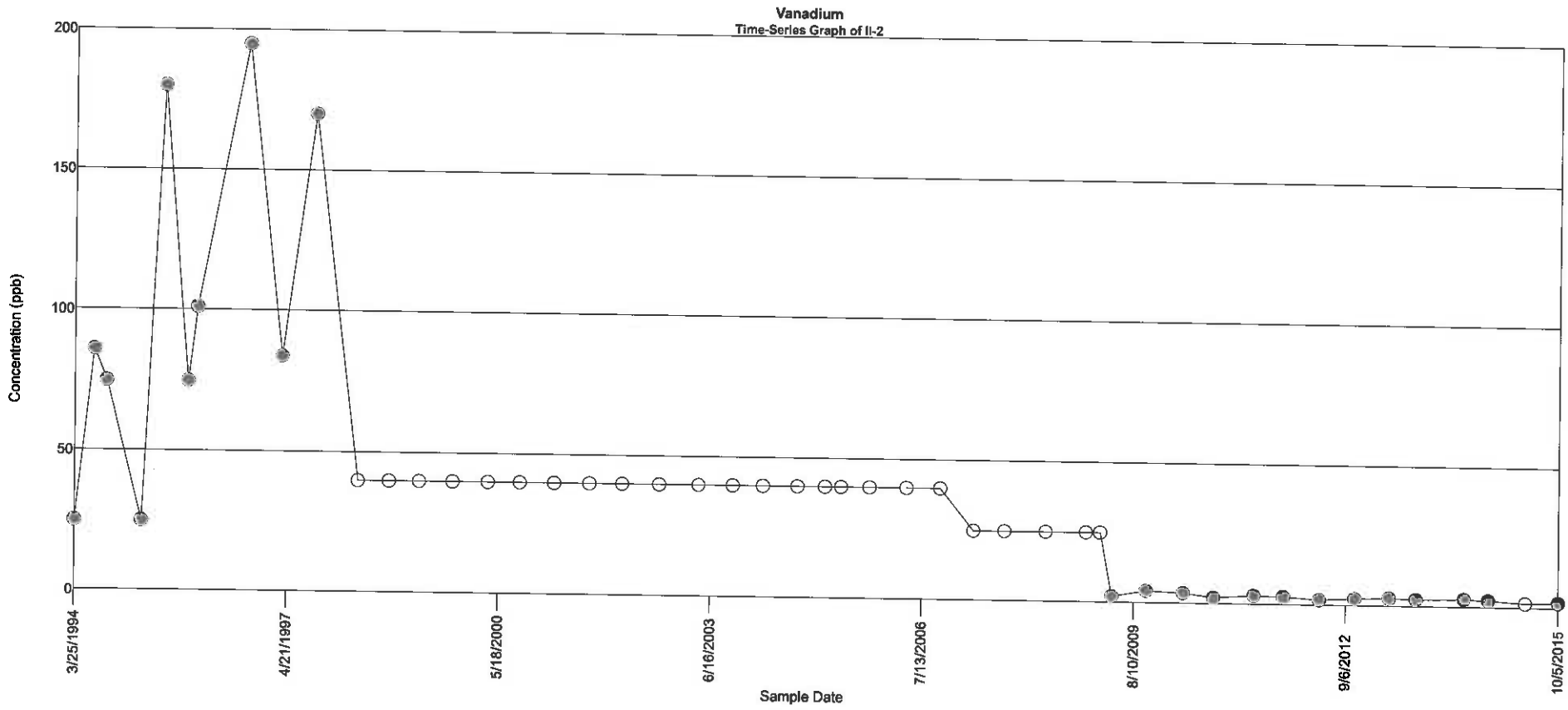

Nickel
Time Series Graph of II-8
Concentration (ppb)
50
40
30
20
10
0
5/11/2005
11/4/2006
4/30/2008
10/25/2009
4/20/2011
10/14/2012
4/10/2014
10/5/2015
Sample Date

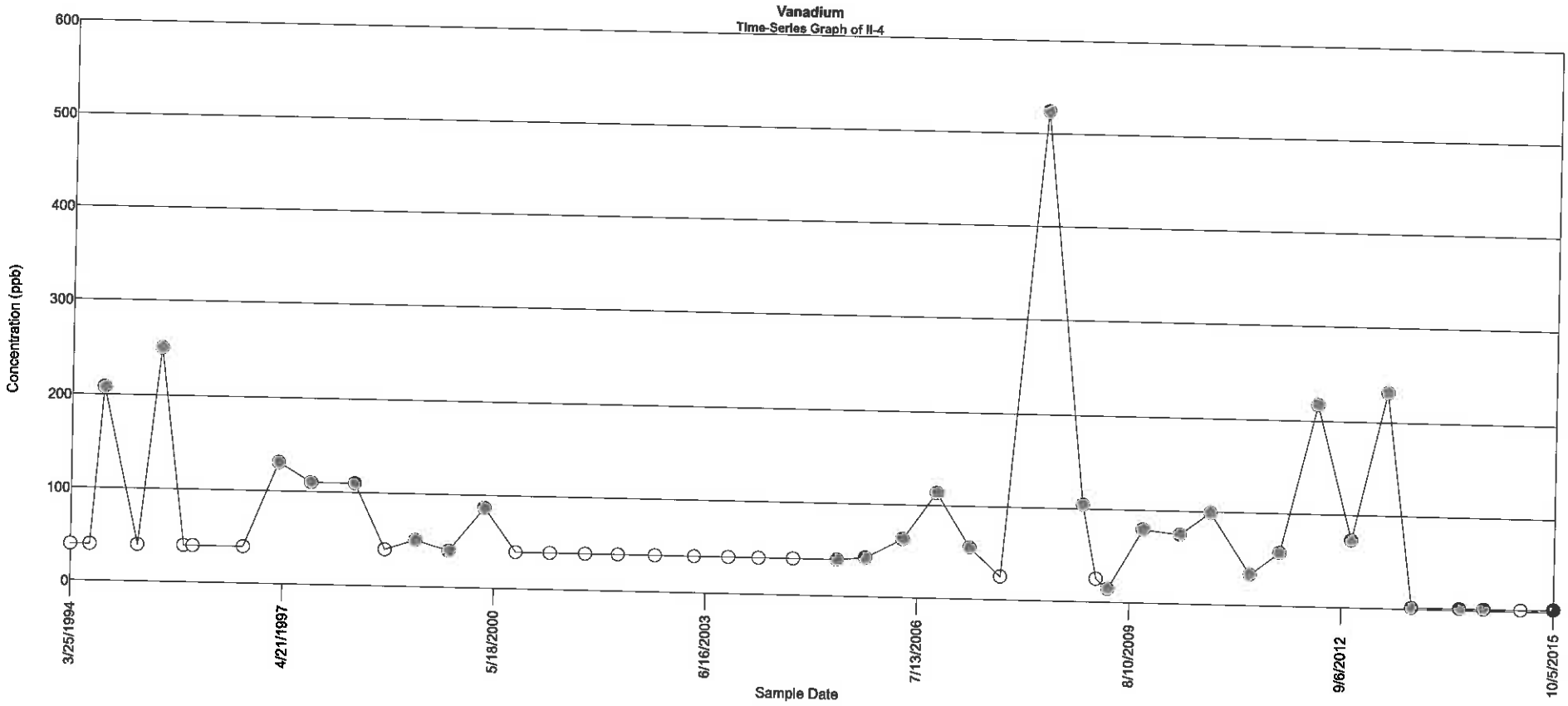

Nickel
Time-Series Graph of II-12
Concentration (ppb)
50
40
30
20
10
0
5/11/2005
11/4/2006
4/30/2008
10/25/2009
4/20/2011
10/14/2012
4/10/2014
10/5/2015
Sample Date

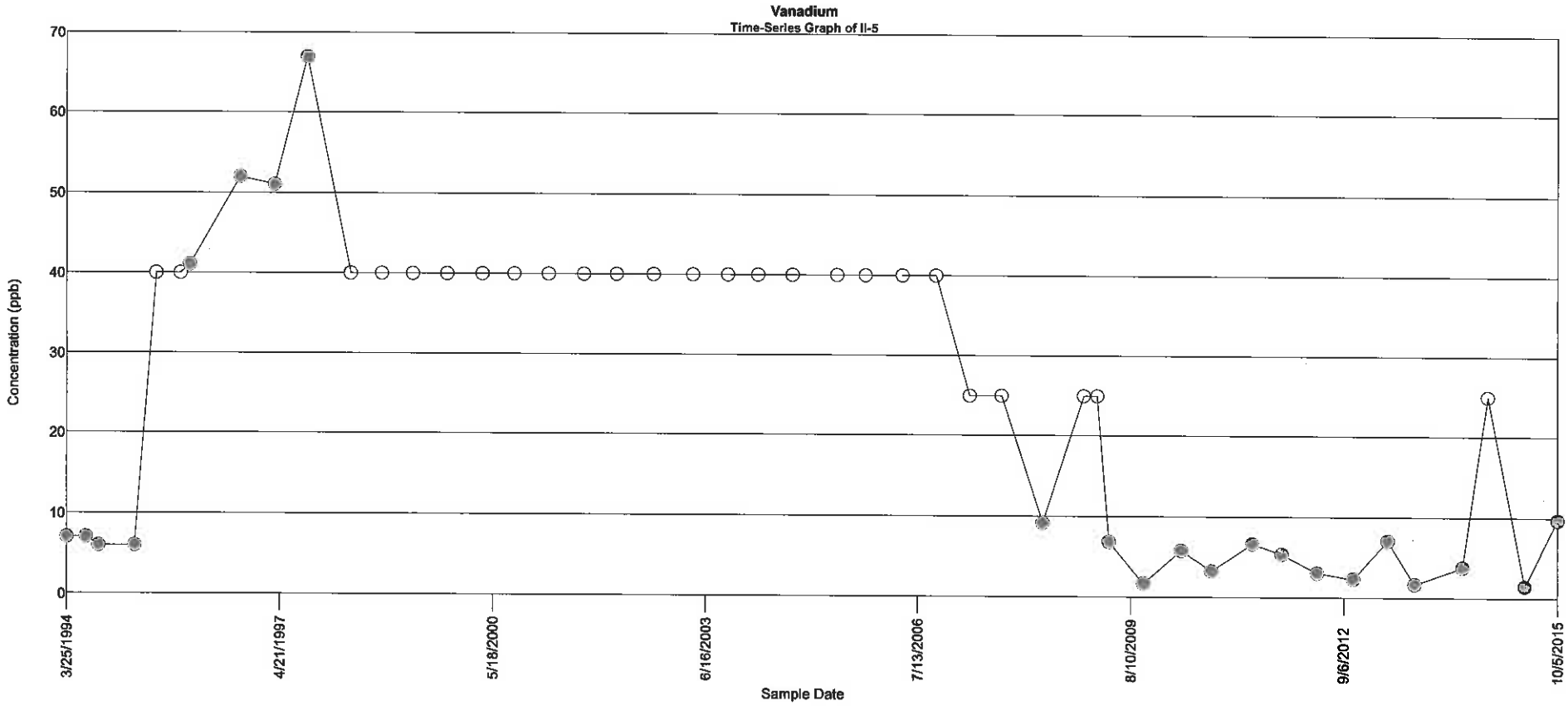

Silver
Time Series Graph of U-1
Concentration (ppb)
0
2
4
6
8
10
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

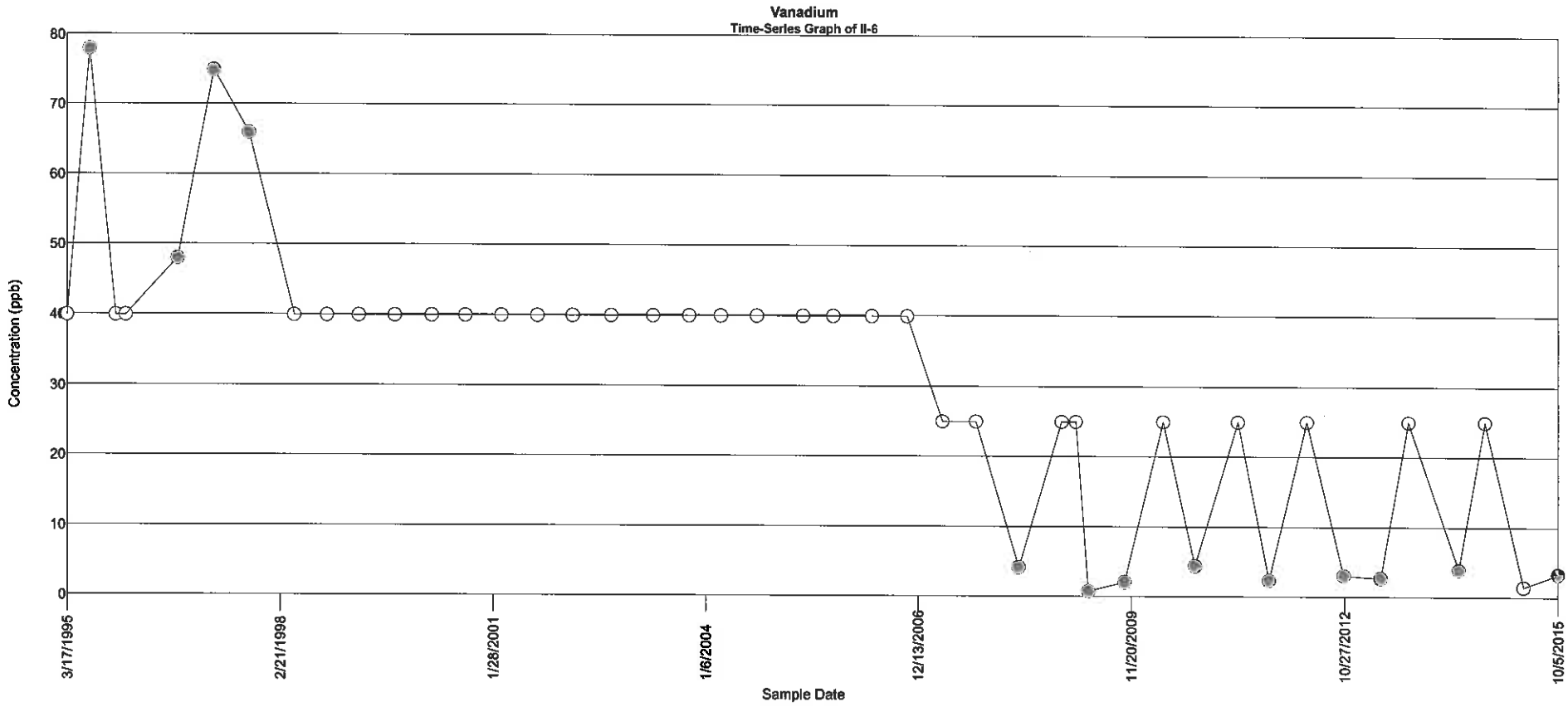

Silver
Time-Series Graph of II-8
Concentration (ppb)
20
15
10
5
0
7/6/1994
7/18/1997
7/31/2000
8/14/2003
8/26/2006
9/8/2009
9/21/2012
10/5/2015
Sample Date

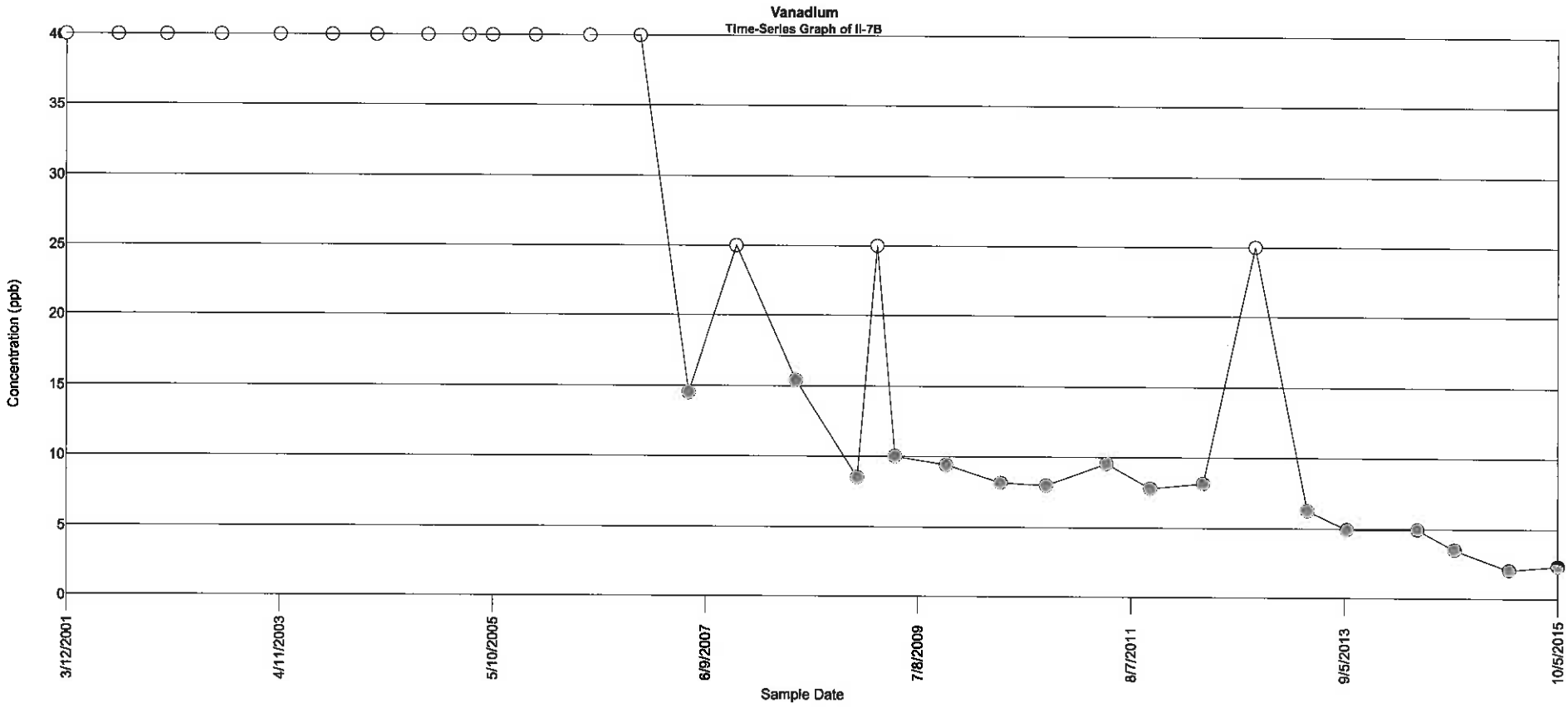

Silver
Time Series Graph of MW-13
Concentration (ppb)
10
8
6
4
2
0
7/6/1994
7/18/1997
7/31/2000
8/14/2003
8/26/2006
9/8/2009
9/21/2012
10/5/2015
Sample Date

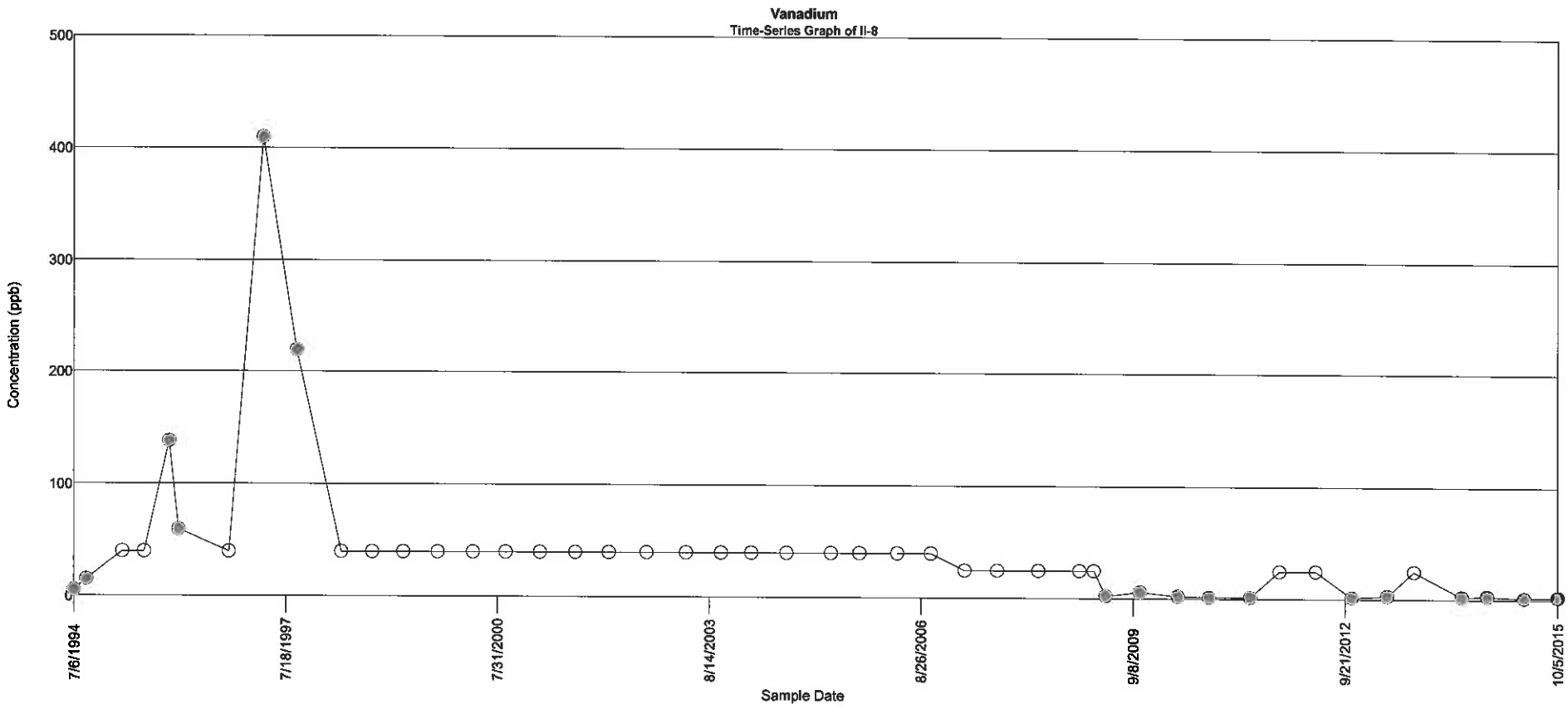

Vanadium
Time-Series Graph of II-2
Concentration (ppb)
200
150
100
50
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

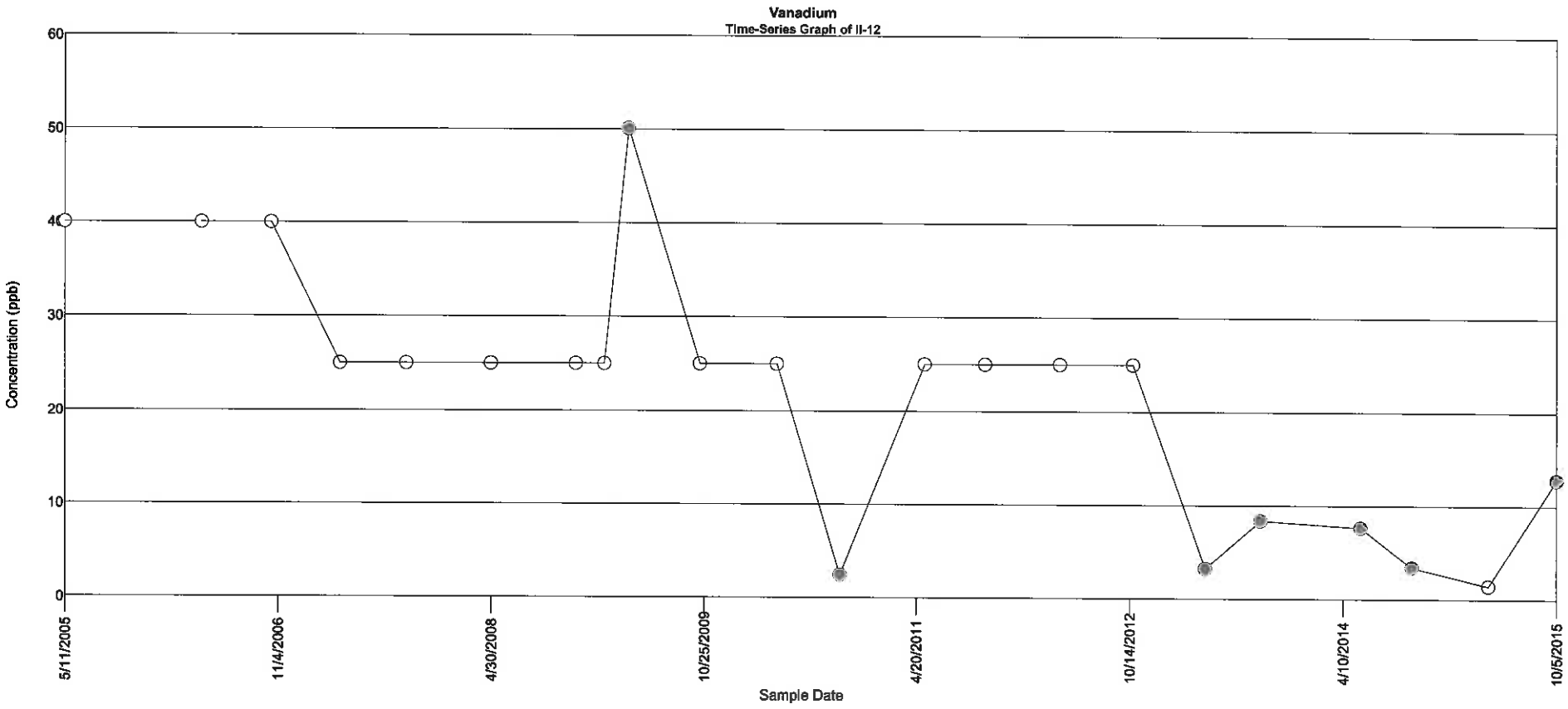

Vanadium
Time-Series Graph of II-4
Concentration (ppb)
600
500
400
300
200
100
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

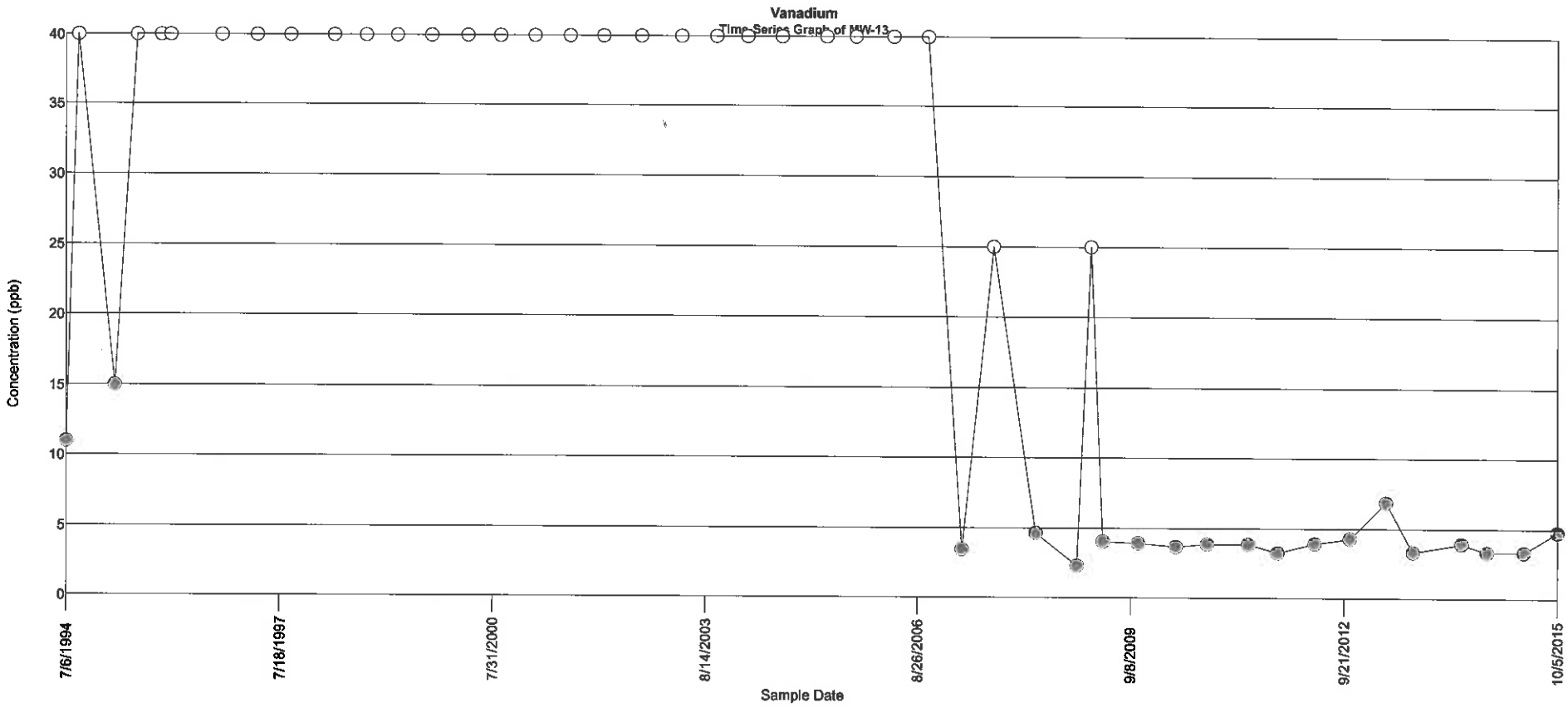

Vanadium
Time-Series Graph of II-5
Concentration (ppb)
70
60
50
40
30
20
10
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date

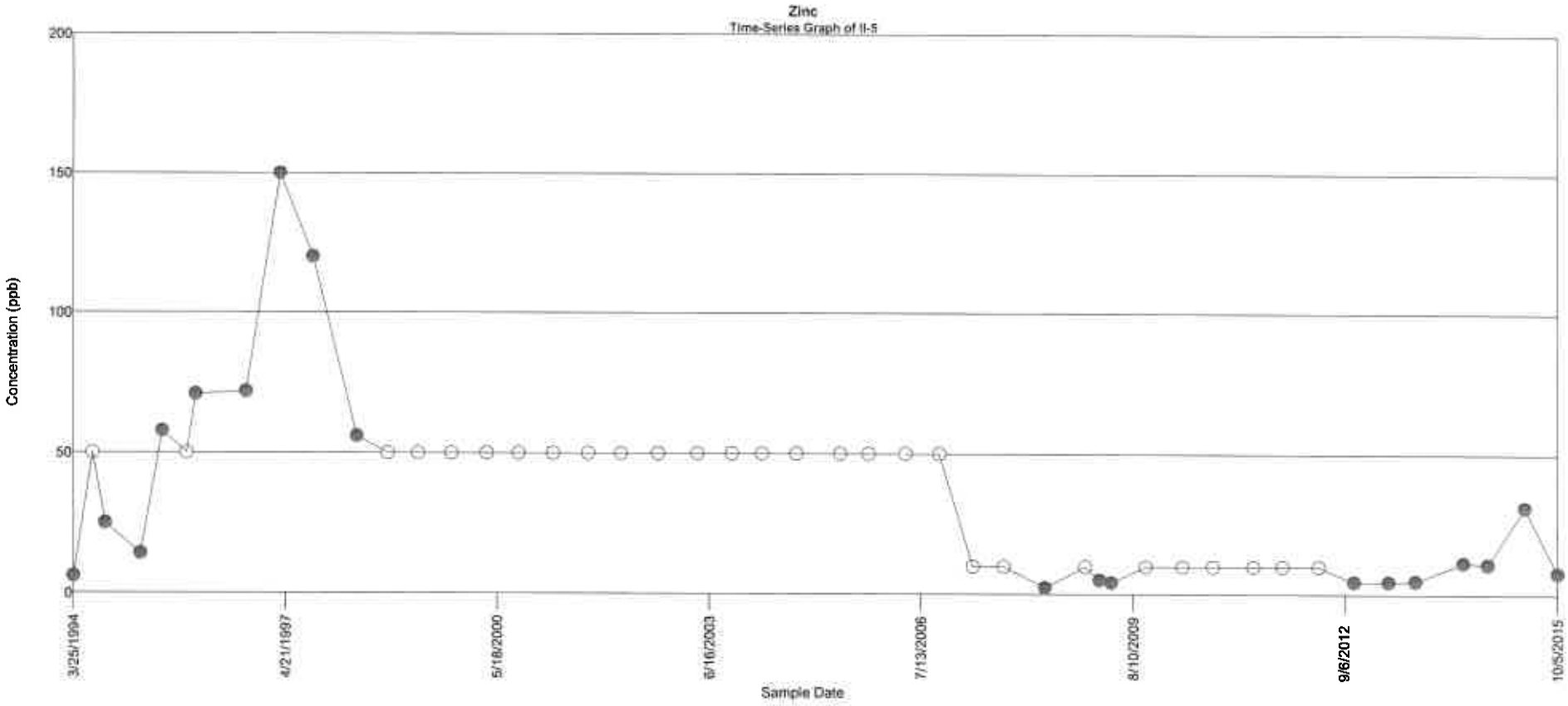

Vanadium
Time-Series Graph of II-6
Concentration (ppb)
80
70
60
50
40
30
20
10
0
3/17/1995
2/21/1998
1/28/2001
1/6/2004
12/13/2006
11/20/2009
10/27/2012
10/5/2015
Sample Date

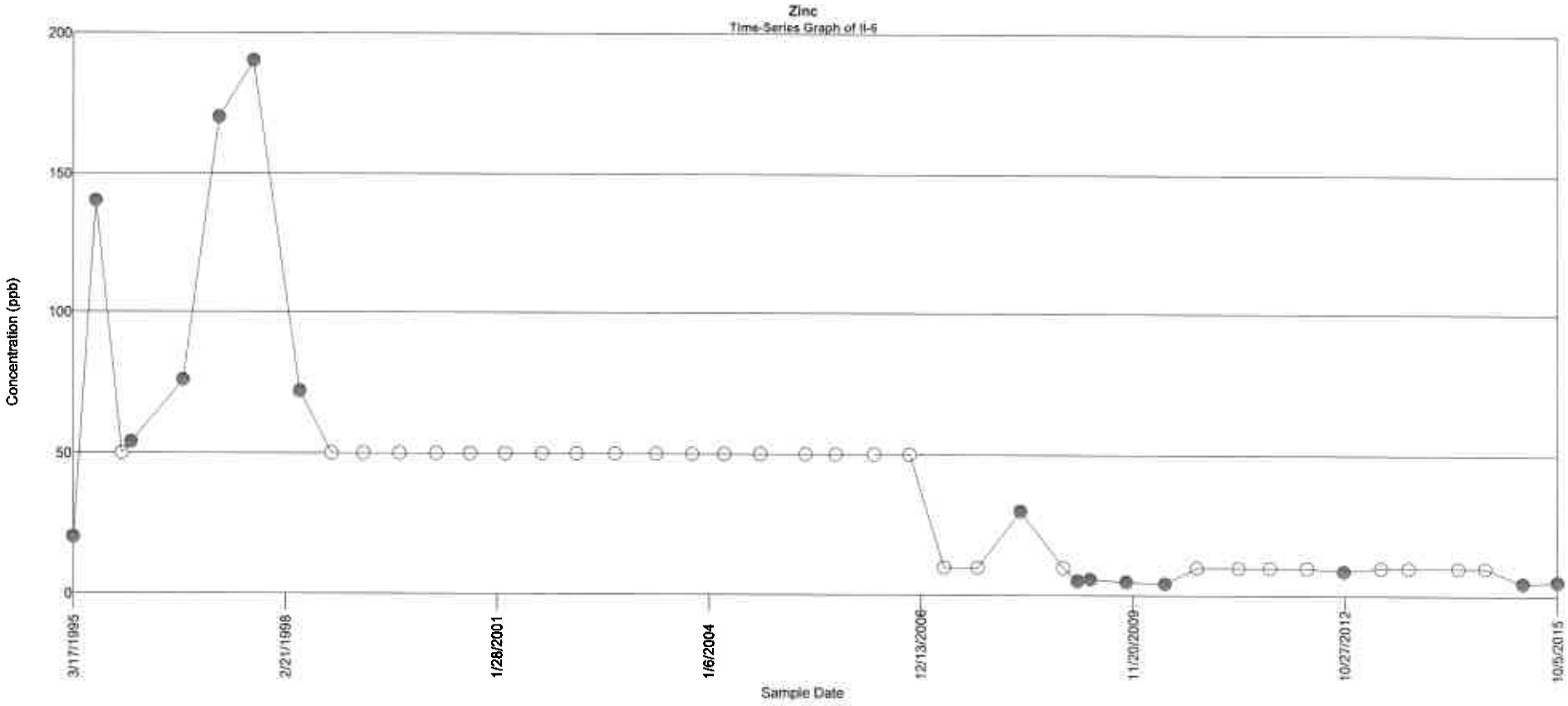

Vanadium
Time-Series Graph of II-7B
Concentration (ppb)
40
35
30
25
20
15
10
5
0
3/12/2001
4/11/2003
5/10/2005
6/9/2007
7/8/2009
8/7/2011
9/5/2013
10/5/2015
Sample Date

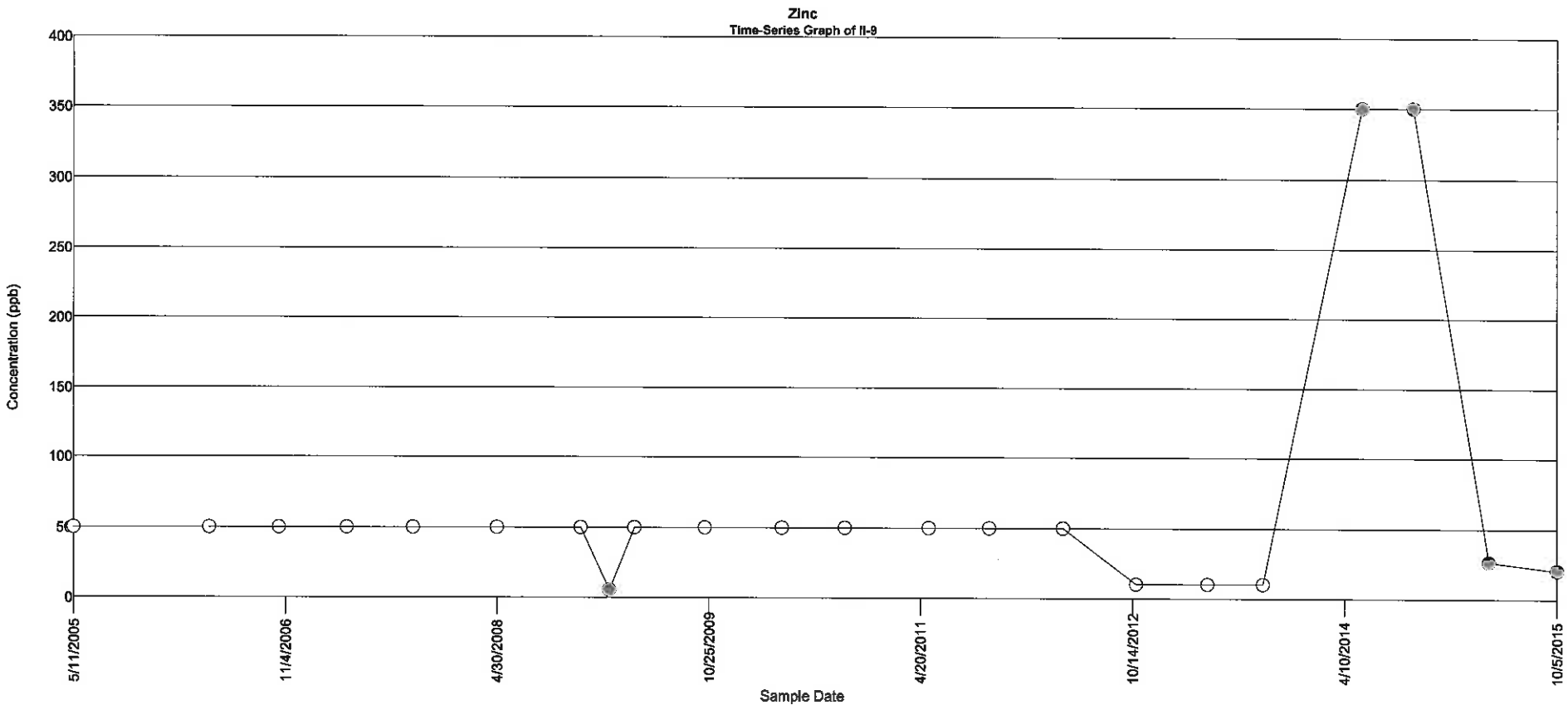

Vanadium
Time-Series Graph of II-8
Concentration (ppb)
500
400
300
200
100
0
7/6/1994
7/18/1997
7/31/2000
8/14/2003
8/26/2006
9/8/2009
9/21/2012
10/5/2015
Sample Date

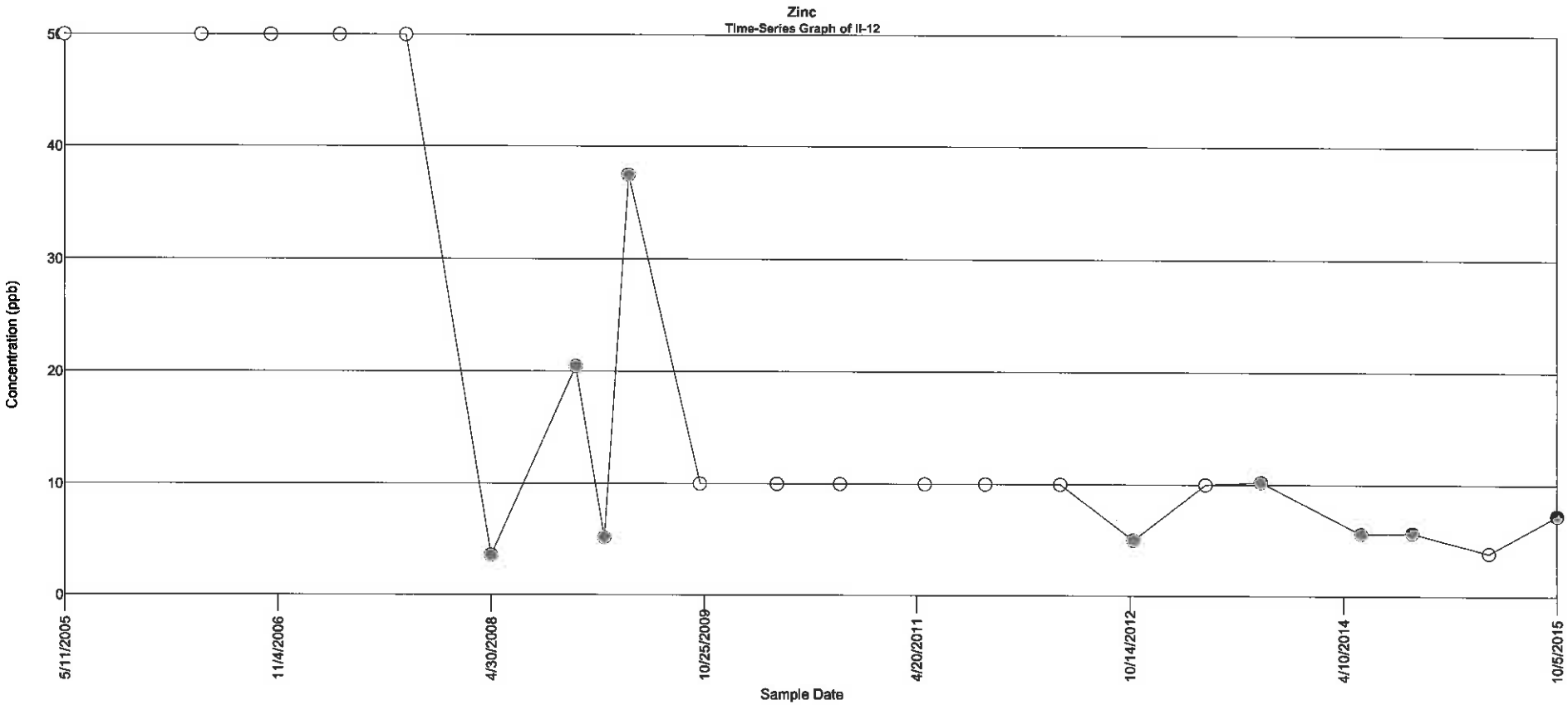

Vanadium
Time-Series Graph of II-12
Concentration (ppb)
60
50
40
30
20
10
0
5/11/2005
11/4/2006
4/30/2008
10/25/2009
4/20/2011
10/14/2012
4/10/2014
10/5/2015
Sample Date

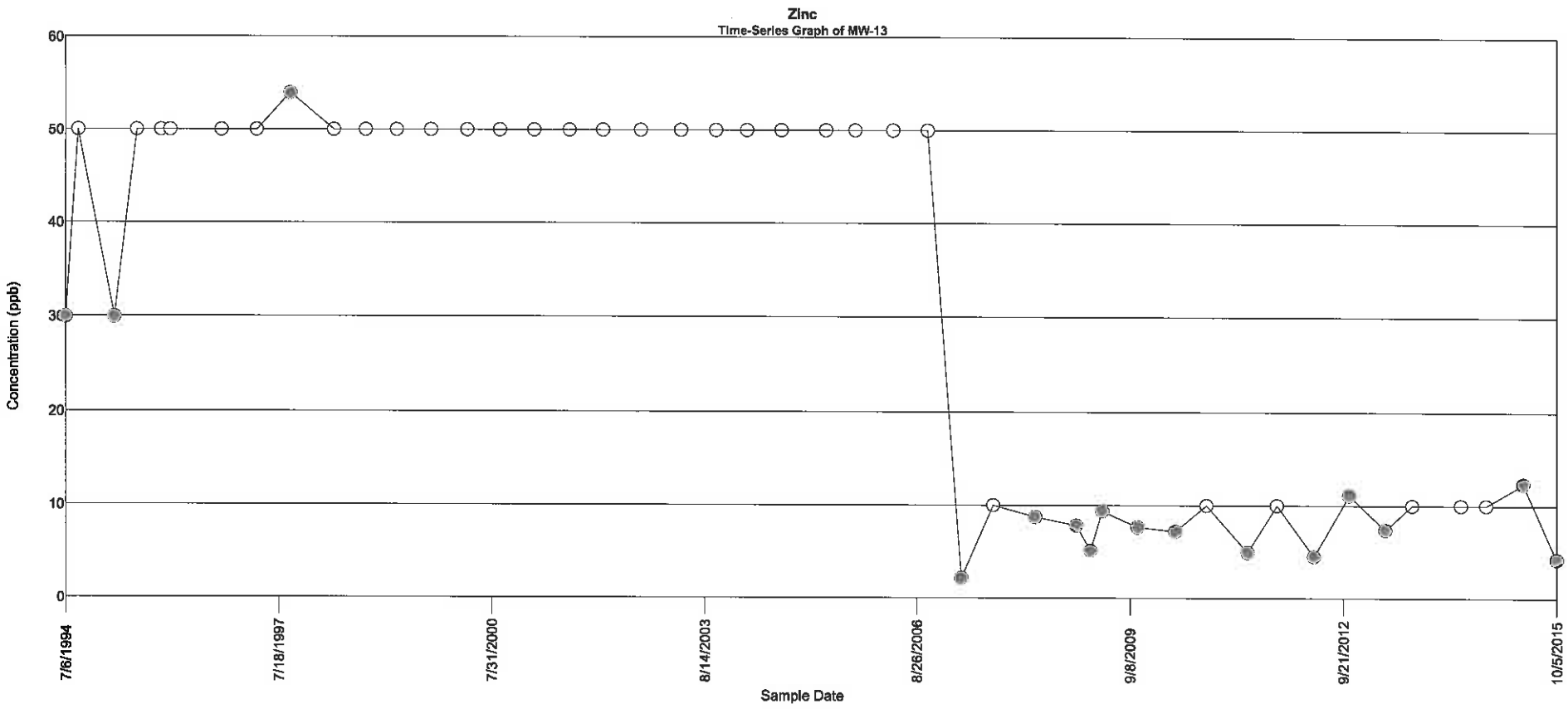

Vanadium
Time Series Graph of MW-13
Concentration (ppb)
40
35
30
25
20
15
10
5
0
7/6/1994
7/18/1997
7/31/2000
8/14/2003
8/26/2006
9/8/2009
9/21/2012
10/5/2015
Sample Date


Zinc
Time-Series Graph of II-5
Concentration (ppb)
200
150
100
50
0
3/25/1994
4/21/1997
5/18/2000
6/16/2003
7/13/2006
8/10/2009
9/6/2012
10/5/2015
Sample Date


Zinc
Time-Series Graph of II-6
Concentration (ppb)
200
150
100
50
0
3/17/1995
2/21/1998
1/28/2001
1/6/2004
12/13/2006
11/20/2009
10/27/2012
10/5/2015
Sample Date


Zinc
Time-Series Graph of II-9
Concentration (ppb)
400
350
300
250
200
150
100
50
0
5/11/2005
11/4/2006
4/30/2008
10/25/2009
4/20/2011
10/14/2012
4/10/2014
10/5/2015
Sample Date


Zinc
Time-Series Graph of II-12
Concentration (ppb)
50
40
30
20
10
0
5/11/2005
11/4/2006
4/30/2008
10/25/2009
4/20/2011
10/14/2012
4/10/2014
10/5/2015
Sample Date


Zinc
Time-Series Graph of MW-13
Concentration (ppb)
60
50
40
30
20
10
0
7/6/1994
7/18/1997
7/31/2000
8/14/2003
8/26/2006
9/8/2009
9/21/2012
10/5/2015
Sample Date

Mann-Kendall Trend Analysis
Parameter: Cobalt
Location: II-2
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
7	3	4	1	0
11	3	8	2	0
ND<10	3	7	3	0
33	3	30	4	0
ND<10	3	7	5	0
ND<10	3	7	6	0
11	3	8	7	0
ND<10	3	7	8	0
34	3	31	9	0
ND<10	3	7	10	0
ND<10	3	7	11	0
ND<10	3	7	12	0
ND<10	3	7	13	0
ND<10	3	7	14	0
ND<10	3	7	15	0
ND<10	3	7	16	0
ND<10	3	7	17	0
ND<10	3	7	18	0
ND<10	3	7	19	0
14	3	11	20	0
ND<10	3	7	21	0
ND<10	3	7	22	0
ND<10	3	7	23	0
ND<10	3	7	24	0
ND<10	3	7	25	0
ND<10	3	7	26	0
ND<10	3	7	27	0
ND<10	3	7	28	0
ND<10	3	7	29	0
ND<10	3	7	30	0
ND<10	3	7	31	0
ND<10	3	7	32	0
ND<10	3	7	33	0
11.2	3	8.2	34	0
ND<10	3	7	35	0
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ND<10	3	7	38	0
ND<10	3	7	39	0
ND<10	3	7	40	0
ND<10	3	7	41	0
ND<10	3	7	42	0
ND<10	3	7	43	0
ND<10	3	7	44	0
ND<10	3	7	45	0
ND<10	3	7	46	0
ND<1.1	3	-1.9	46	1
ND<1.1	3	-1.9	46	2
11	7	4	47	2
ND<10	7	3	48	2
33	7	26	49	2
ND<10	7	3	50	2
ND<10	7	3	51	2
11	7	4	52	2
ND<10	7	3	53	2
34	7	27	54	2
ND<10	7	3	55	2

ND<10	7	3	56	2
ND<10	7	3	57	2
ND<10	7	3	58	2
ND<10	7	3	59	2
ND<10	7	3	60	2
ND<10	7	3	61	2
ND<10	7	3	62	2
ND<10	7	3	63	2
ND<10	7	3	64	2
14	7	7	65	2
ND<10	7	3	66	2
ND<10	7	3	67	2
ND<10	7	3	68	2
ND<10	7	3	69	2
ND<10	7	3	70	2
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ND<10	7	3	75	2
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ND<10	7	3	77	2
ND<10	7	3	78	2
11.2	7	4.2	79	2
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ND<10	7	3	81	2
ND<10	7	3	82	2
ND<10	7	3	83	2
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ND<1.1	7	-5.9	91	3
ND<1.1	7	-5.9	91	4
ND<10	11	-1	91	5
33	11	22	92	5
ND<10	11	-1	92	6
ND<10	11	-1	92	7
11	11	0	92	7
ND<10	11	-1	92	8
34	11	23	93	8
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ND<10	11	-1	94	28
ND<10	11	-1	94	29
ND<10	11	-1	94	30

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11.2	11	0.2	95	31
ND<10	11	-1	95	32
ND<10	11	-1	95	33
ND<10	11	-1	95	34
ND<10	11	-1	95	35
ND<10	11	-1	95	36
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ND<10	11	-1	95	43
ND<1.1	11	-9.9	95	44
ND<1.1	11	-9.9	95	45
33	ND<10	23	96	45
ND<10	ND<10	0	96	45
ND<10	ND<10	0	96	45
11	ND<10	1	97	45
ND<10	ND<10	0	97	45
34	ND<10	24	98	45
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ND<10	ND<10	0	98	45
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ND<10	ND<10	0	99	45
ND<10	ND<10	0	99	45
ND<10	ND<10	0	99	45
ND<10	ND<10	0	99	45
ND<10	ND<10	0	99	45
11.2	ND<10	1.2	100	45
ND<10	ND<10	0	100	45
ND<10	ND<10	0	100	45
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ND<10	33	-23	100	48
ND<10	33	-23	100	49
11	33	-22	100	50
ND<10	33	-23	100	51
34	33	1	101	51
ND<10	33	-23	101	52

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ND<10	33	-23	101	54
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ND<10	33	-23	101	58
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ND<10	33	-23	101	70
ND<10	33	-23	101	71
ND<10	33	-23	101	72
ND<10	33	-23	101	73
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ND<10	33	-23	101	75
11.2	33	-21.8	101	76
ND<10	33	-23	101	77
ND<10	33	-23	101	78
ND<10	33	-23	101	79
ND<10	33	-23	101	80
ND<10	33	-23	101	81
ND<10	33	-23	101	82
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ND<1.1	33	-31.9	101	89
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11	ND<10	1	102	90
ND<10	ND<10	0	102	90
34	ND<10	24	103	90
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11.2	ND<10	1.2	105	90
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14	11	3	111	105
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ND<1.1	11	-9.9	112	132
34	ND<10	24	113	132
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ND<10	ND<10	0	114	132
ND<10	ND<10	0	114	132
11.2	ND<10	1.2	115	132
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ND<10	ND<10	0	115	132
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ND<1.1	ND<10	-8.9	115	134
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ND<1.1	34	-32.9	115	172
ND<1.1	34	-32.9	115	173
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ND<10	ND<10	0	115	173
ND<10	ND<10	0	115	173
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ND<10	ND<10	0	115	173
ND<10	ND<10	0	115	173
ND<10	ND<10	0	115	173
ND<10	ND<10	0	115	173
14	ND<10	4	116	173
ND<10	ND<10	0	116	173
ND<10	ND<10	0	116	173
ND<10	ND<10	0	116	173
ND<10	ND<10	0	116	173
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ND<10	ND<10	0	116	173
ND<10	ND<10	0	116	173
ND<10	ND<10	0	116	173
11.2	ND<10	1.2	117	173
ND<10	ND<10	0	117	173
ND<10	ND<10	0	117	173
ND<10	ND<10	0	117	173

ND<10	ND<10	0	117	173
ND<10	ND<10	0	117	173
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ND<10	ND<10	0	145	239
ND<10	ND<10	0	145	239
ND<10	ND<10	0	145	239
ND<10	ND<10	0	145	239
ND<10	ND<10	0	145	239
ND<10	ND<10	0	145	239
ND<10	ND<10	0	145	239
ND<10	ND<10	0	145	239
ND<10	ND<10	0	145	239
ND<10	ND<10	0	145	239
ND<10	ND<10	0	145	239
ND<10	ND<10	0	145	239
ND<1.1	ND<10	-8.9	145	240
ND<1.1	ND<10	-8.9	145	241
ND<10	ND<10	0	145	241
ND<10	ND<10	0	145	241
11.2	ND<10	1.2	146	241
ND<10	ND<10	0	146	241
ND<10	ND<10	0	146	241
ND<10	ND<10	0	146	241
ND<10	ND<10	0	146	241
ND<10	ND<10	0	146	241
ND<10	ND<10	0	146	241
ND<10	ND<10	0	146	241
ND<10	ND<10	0	146	241
ND<10	ND<10	0	146	241
ND<10	ND<10	0	146	241
ND<10	ND<10	0	146	241
ND<10	ND<10	0	146	241
ND<1.1	ND<10	-8.9	146	242
ND<1.1	ND<10	-8.9	146	243
ND<10	ND<10	0	146	243
11.2	ND<10	1.2	147	243
ND<10	ND<10	0	147	243
ND<10	ND<10	0	147	243
ND<10	ND<10	0	147	243
ND<10	ND<10	0	147	243
ND<10	ND<10	0	147	243
ND<10	ND<10	0	147	243
ND<10	ND<10	0	147	243
ND<10	ND<10	0	147	243
ND<10	ND<10	0	147	243
ND<10	ND<10	0	147	243
ND<10	ND<10	0	147	243
ND<10	ND<10	0	147	243
ND<1.1	ND<10	-8.9	147	244
ND<1.1	ND<10	-8.9	147	245
11.2	ND<10	1.2	148	245
ND<10	ND<10	0	148	245
ND<10	ND<10	0	148	245
ND<10	ND<10	0	148	245

ND<10	ND<10	0	148	245
ND<10	ND<10	0	148	245
ND<10	ND<10	0	148	245
ND<10	ND<10	0	148	245
ND<10	ND<10	0	148	245
ND<10	ND<10	0	148	245
ND<10	ND<10	0	148	245
ND<10	ND<10	0	148	245
ND<10	ND<10	0	148	245
ND<1.1	ND<10	-8.9	148	246
ND<1.1	ND<10	-8.9	148	247
ND<10	11.2	-1.2	148	248
ND<10	11.2	-1.2	148	249
ND<10	11.2	-1.2	148	250
ND<10	11.2	-1.2	148	251
ND<10	11.2	-1.2	148	252
ND<10	11.2	-1.2	148	253
ND<10	11.2	-1.2	148	254
ND<10	11.2	-1.2	148	255
ND<10	11.2	-1.2	148	256
ND<10	11.2	-1.2	148	257
ND<10	11.2	-1.2	148	258
ND<10	11.2	-1.2	148	259
ND<1.1	11.2	-10.1	148	260
ND<1.1	11.2	-10.1	148	261
ND<10	ND<10	0	148	261
ND<10	ND<10	0	148	261
ND<10	ND<10	0	148	261
ND<10	ND<10	0	148	261
ND<10	ND<10	0	148	261
ND<10	ND<10	0	148	261
ND<10	ND<10	0	148	261
ND<10	ND<10	0	148	261
ND<10	ND<10	0	148	261
ND<10	ND<10	0	148	261
ND<10	ND<10	0	148	261
ND<1.1	ND<10	-8.9	148	262
ND<1.1	ND<10	-8.9	148	263
ND<10	ND<10	0	148	263
ND<10	ND<10	0	148	263
ND<10	ND<10	0	148	263
ND<10	ND<10	0	148	263
ND<10	ND<10	0	148	263
ND<10	ND<10	0	148	263
ND<10	ND<10	0	148	263
ND<10	ND<10	0	148	263
ND<10	ND<10	0	148	263
ND<10	ND<10	0	148	263
ND<1.1	ND<10	-8.9	148	264
ND<1.1	ND<10	-8.9	148	265
ND<10	ND<10	0	148	265
ND<10	ND<10	0	148	265
ND<10	ND<10	0	148	265
ND<10	ND<10	0	148	265
ND<10	ND<10	0	148	265
ND<10	ND<10	0	148	265
ND<10	ND<10	0	148	265
ND<10	ND<10	0	148	265
ND<10	ND<10	0	148	265
ND<1.1	ND<10	-8.9	148	266
ND<1.1	ND<10	-8.9	148	267
ND<10	ND<10	0	148	267
ND<10	ND<10	0	148	267
ND<10	ND<10	0	148	267

ND<10	ND<10	0	148	267
ND<10	ND<10	0	148	267
ND<10	ND<10	0	148	267
ND<10	ND<10	0	148	267
ND<10	ND<10	0	148	267
ND<1.1	ND<10	-8.9	148	268
ND<1.1	ND<10	-8.9	148	269
ND<10	ND<10	0	148	269
ND<10	ND<10	0	148	269
ND<10	ND<10	0	148	269
ND<10	ND<10	0	148	269
ND<10	ND<10	0	148	269
ND<10	ND<10	0	148	269
ND<10	ND<10	0	148	269
ND<1.1	ND<10	-8.9	148	270
ND<1.1	ND<10	-8.9	148	271
ND<10	ND<10	0	148	271
ND<10	ND<10	0	148	271
ND<10	ND<10	0	148	271
ND<10	ND<10	0	148	271
ND<10	ND<10	0	148	271
ND<10	ND<10	0	148	271
ND<10	ND<10	0	148	271
ND<1.1	ND<10	-8.9	148	272
ND<1.1	ND<10	-8.9	148	273
ND<10	ND<10	0	148	273
ND<10	ND<10	0	148	273
ND<10	ND<10	0	148	273
ND<10	ND<10	0	148	273
ND<10	ND<10	0	148	273
ND<10	ND<10	0	148	273
ND<10	ND<10	0	148	273
ND<1.1	ND<10	-8.9	148	274
ND<1.1	ND<10	-8.9	148	275
ND<10	ND<10	0	148	275
ND<10	ND<10	0	148	275
ND<10	ND<10	0	148	275
ND<10	ND<10	0	148	275
ND<10	ND<10	0	148	275
ND<10	ND<10	0	148	275
ND<10	ND<10	0	148	275
ND<1.1	ND<10	-8.9	148	276
ND<1.1	ND<10	-8.9	148	277
ND<10	ND<10	0	148	277
ND<10	ND<10	0	148	277
ND<10	ND<10	0	148	277
ND<1.1	ND<10	-8.9	148	278
ND<1.1	ND<10	-8.9	148	279
ND<10	ND<10	0	148	279
ND<10	ND<10	0	148	279
ND<1.1	ND<10	-8.9	148	280
ND<1.1	ND<10	-8.9	148	281
ND<10	ND<10	0	148	281
ND<1.1	ND<10	-8.9	148	282
ND<1.1	ND<10	-8.9	148	283
ND<1.1	ND<10	-8.9	148	284
ND<1.1	ND<10	-8.9	148	285
ND<1.1	ND<1.1	0	148	285

S Statistic = 148 - 285 = -137

Tied Group	Value	Members
1	11	2
2	10	39
3	1.1	2

Time Period	Observations
3/25/1994	1
7/6/1994	1
9/9/1994	1
3/17/1995	1
7/11/1995	1
11/17/1995	1
1/5/1996	1
9/25/1996	1
3/26/1997	1
9/17/1997	1
5/5/1998	1
10/16/1998	1
3/26/1999	1
9/22/1999	1
3/27/2000	1
9/13/2000	1
3/12/2001	1
9/13/2001	1
3/7/2002	1
9/18/2002	1
4/15/2003	1
10/16/2003	1
3/24/2004	1
9/22/2004	1
2/17/2005	1
5/11/2005	1
10/11/2005	1
4/24/2006	2
10/19/2006	1
4/12/2007	1
9/28/2007	1
4/30/2008	1
12/2/2008	1
2/13/2009	1
4/17/2009	1
10/16/2009	1
4/30/2010	1
10/8/2010	1
5/11/2011	1
10/13/2011	1
4/19/2012	1
10/23/2012	1
4/25/2013	1
9/13/2013	1
5/24/2014	1
10/3/2014	1
4/14/2015	1
10/5/2015	1

There are 1 time periods with multiple data

A = 123042
B = 18
C = 54834
D = 0
E = 1486
F = 2
a = 242256
b = 994896
c = 4704
Group Variance = 6622.63
Z-Score = -1.67118
Comparison Level at 95% confidence level = 1.65463 (upward trend)
-1.67118 <= 1.65463 indicating no evidence of an upward trend

Appendix V – Prediction Interval Tests

Non-Parametric Prediction Interval
Inter-Well Comparison
Parameter: Benzene
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 88.4679%
Number of comparisons = 15
Future Samples (k) = 8
Recent Dates = 1
Background Measurements (n) = 99
Maximum Background Value = 5
Confidence Level = 92.5%
False Positive Rate = 7.5%

Location	Date	Count	Mean	Significant
II-1	10/5/2015	1	1.2	FALSE
II-2	10/5/2015	1	0.19	FALSE
II-3	10/5/2015	1	1.3	FALSE
II-4	10/5/2015	1	0.73	FALSE
II-5	10/5/2015	1	0.15	FALSE
II-8	10/5/2015	1	0.15	FALSE
I-5	9/28/2007	1	1	FALSE
II-6	10/5/2015	1	1.4	FALSE
II-7	10/5/2015	1	0.15	FALSE
II-7B	10/5/2015	1	0.15	FALSE
II-12	10/5/2015	1	0.15	FALSE
II-9	10/5/2015	1	0.15	FALSE
II-10	9/28/2007	1	5	FALSE
II-11	9/28/2007	1	5	FALSE
II-3B	10/5/2015	1	0.15	FALSE

Non-Parametric Prediction Interval
Inter-Well Comparison
Parameter: Carbon tetrachloride
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 99.8305%
Number of comparisons = 15
Future Samples (k) = 8
Recent Dates = 1
Background Measurements (n) = 94
Maximum Background Value = 10
Confidence Level = 92.2%
False Positive Rate = 7.8%

Location	Date	Count	Mean	Significant
II-1	10/5/2015	1	0.47	FALSE
II-2	10/5/2015	1	0.17	FALSE
II-3	10/5/2015	1	0.17	FALSE
II-4	10/5/2015	1	0.17	FALSE
II-5	10/5/2015	1	0.17	FALSE
II-8	10/5/2015	1	0.17	FALSE
I-5	9/28/2007	1	10	FALSE
II-6	10/5/2015	1	0.17	FALSE
II-7	10/5/2015	1	0.17	FALSE
II-7B	10/5/2015	1	0.17	FALSE
II-12	10/5/2015	1	0.17	FALSE
II-9	10/5/2015	1	0.17	FALSE
II-10	9/28/2007	1	10	FALSE
II-11	9/28/2007	1	10	FALSE
II-3B	10/5/2015	1	0.17	FALSE

Non-Parametric Prediction Interval
Inter-Well Comparison
Parameter: Chlorobenzene
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 86.8204%
Number of comparisons = 15
Future Samples (k) = 8
Recent Dates = 1
Background Measurements (n) = 99
Maximum Background Value = 5
Confidence Level = 92.5%
False Positive Rate = 7.5%

Location	Date	Count	Mean	Significant
II-1	10/5/2015	1	3.4	FALSE
II-2	10/5/2015	1	0.17	FALSE
II-3	10/5/2015	1	0.17	FALSE
II-4	10/5/2015	1	2.8	FALSE
II-5	10/5/2015	1	0.17	FALSE
II-8	10/5/2015	1	1.9	FALSE
I-5	9/28/2007	1	3	FALSE
II-6	10/5/2015	1	3.6	FALSE
II-7	10/5/2015	1	0.17	FALSE
II-7B	10/5/2015	1	0.17	FALSE
II-12	10/5/2015	1	0.17	FALSE
II-9	10/5/2015	1	0.6	FALSE
II-10	9/28/2007	1	5	FALSE
II-11	9/28/2007	1	5	FALSE
II-3B	10/5/2015	1	0.17	FALSE

Non-Parametric Prediction Interval
Inter-Well Comparison
Parameter: Chloroethane
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 91.0169%
Number of comparisons = 15
Future Samples (k) = 8
Recent Dates = 1
Background Measurements (n) = 94
Maximum Background Value = 10
Confidence Level = 92.2%
False Positive Rate = 7.8%

Location	Date	Count	Mean	Significant
II-1	10/5/2015	1	0.94	FALSE
II-2	10/5/2015	1	0.23	FALSE
II-3	10/5/2015	1	1.5	FALSE
II-4	10/5/2015	1	1.2	FALSE
II-5	10/5/2015	1	0.23	FALSE
II-8	10/5/2015	1	0.23	FALSE
I-5	9/28/2007	1	10	FALSE
II-6	10/5/2015	1	0.23	FALSE
II-7	10/5/2015	1	0.23	FALSE
II-7B	10/5/2015	1	0.23	FALSE
II-12	10/5/2015	1	0.23	FALSE
II-9	10/5/2015	1	0.23	FALSE
II-10	9/28/2007	1	10	FALSE
II-11	9/28/2007	1	10	FALSE
II-3B	10/5/2015	1	0.23	FALSE

Non-Parametric Prediction Interval
Inter-Well Comparison
Parameter: 1,4-Dichlorobenzene
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 85.3377%
Number of comparisons = 15
Future Samples (k) = 8
Recent Dates = 1
Background Measurements (n) = 99
Maximum Background Value = 5
Confidence Level = 92.5%
False Positive Rate = 7.5%

Location	Date	Count	Mean	Significant
II-1	**10/5/2015**	**1**	**7.6**	**TRUE**
II-2	10/5/2015	1	0.19	FALSE
II-3	10/5/2015	1	0.19	FALSE
II-4	10/5/2015	1	1.2	FALSE
II-5	10/5/2015	1	0.19	FALSE
II-8	10/5/2015	1	0.19	FALSE
I-5	9/28/2007	1	1.8	FALSE
II-6	10/5/2015	1	2.8	FALSE
II-7	10/5/2015	1	0.19	FALSE
II-7B	10/5/2015	1	0.19	FALSE
II-12	10/5/2015	1	0.19	FALSE
II-9	10/5/2015	1	0.19	FALSE
II-10	9/28/2007	1	5	FALSE
II-11	9/28/2007	1	5	FALSE
II-3B	10/5/2015	1	0.19	FALSE

Non-Parametric Prediction Interval
Inter-Well Comparison
Parameter: 1,1-Dichloroethane
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 65.6766%
Number of comparisons = 15
Future Samples (k) = 8
Recent Dates = 1
Background Measurements (n) = 99
Maximum Background Value = 6.2
Confidence Level = 92.5%
False Positive Rate = 7.5%

Location	Date	Count	Mean	Significant
II-1	10/5/2015	1	0.86	FALSE
II-2	10/5/2015	1	0.13	FALSE
II-3	**10/5/2015**	**1**	**14**	**TRUE**
II-4	10/5/2015	1	0.99	FALSE
II-5	10/5/2015	1	0.13	FALSE
II-8	10/5/2015	1	0.13	FALSE
I-5	9/28/2007	1	5	FALSE
II-6	10/5/2015	1	0.13	FALSE
II-7	10/5/2015	1	0.13	FALSE
II-7B	10/5/2015	1	0.79	FALSE
II-12	10/5/2015	1	0.13	FALSE
II-9	10/5/2015	1	5.8	FALSE
II-10	9/28/2007	1	5	FALSE
II-11	9/28/2007	1	5	FALSE
II-3B	10/5/2015	1	0.13	FALSE

Non-Parametric Prediction Interval
Inter-Well Comparison
Parameter: 1,2-Dichloroethane
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 99.1525%
Number of comparisons = 15
Future Samples (k) = 8
Recent Dates = 1
Background Measurements (n) = 94
Maximum Background Value = 5
Confidence Level = 92.2%
False Positive Rate = 7.8%

Location	Date	Count	Mean	Significant
II-1	10/5/2015	1	0.46	FALSE
II-2	10/5/2015	1	0.98	FALSE
II-3	10/5/2015	1	0.21	FALSE
II-4	10/5/2015	1	0.21	FALSE
II-5	10/5/2015	1	0.21	FALSE
II-8	10/5/2015	1	0.21	FALSE
I-5	9/28/2007	1	5	FALSE
II-6	10/5/2015	1	0.21	FALSE
II-7	10/5/2015	1	0.21	FALSE
II-7B	10/5/2015	1	0.21	FALSE
II-12	10/5/2015	1	0.21	FALSE
II-9	10/5/2015	1	0.21	FALSE
II-10	9/28/2007	1	5	FALSE
II-11	9/28/2007	1	5	FALSE
II-3B	10/5/2015	1	0.21	FALSE

Non-Parametric Prediction Interval
Inter-Well Comparison
Parameter: cis-1,2-Dichloroethene
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 83.6903%
Number of comparisons = 15
Future Samples (k) = 8
Recent Dates = 1
Background Measurements (n) = 99
Maximum Background Value = 15
Confidence Level = 92.5%
False Positive Rate = 7.5%

Location	Date	Count	Mean	Significant
II-1	10/5/2015	1	0.15	FALSE
II-2	10/5/2015	1	0.15	FALSE
II-3	10/5/2015	1	0.85	FALSE
II-4	10/5/2015	1	0.6	FALSE
II-5	10/5/2015	1	0.15	FALSE
II-8	10/5/2015	1	0.15	FALSE
I-5	9/28/2007	1	5	FALSE
II-6	10/5/2015	1	0.15	FALSE
II-7	10/5/2015	1	0.15	FALSE
II-7B	10/5/2015	1	0.15	FALSE
II-12	10/5/2015	1	0.15	FALSE
II-9	10/5/2015	1	13	FALSE
II-10	9/28/2007	1	5	FALSE
II-11	9/28/2007	1	5	FALSE
II-3B	10/5/2015	1	0.15	FALSE

Non-Parametric Prediction Interval
Inter-Well Comparison
Parameter: Chloromethane
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 99.2352%
Number of comparisons = 15
Future Samples (k) = 8
Recent Dates = 1
Background Measurements (n) = 86
Maximum Background Value = 10
Confidence Level = 91.5%
False Positive Rate = 8.5%

Location	Date	Count	Mean	Significant
II-1	10/5/2015	1	0.13	FALSE
II-2	10/5/2015	1	1.3	FALSE
II-3	10/5/2015	1	0.13	FALSE
II-4	10/5/2015	1	0.13	FALSE
II-5	10/5/2015	1	0.13	FALSE
II-8	10/5/2015	1	0.13	FALSE
I-5	9/28/2007	1	1	FALSE
II-6	10/5/2015	1	0.13	FALSE
II-7	10/5/2015	1	0.13	FALSE
II-12	10/5/2015	1	0.13	FALSE
II-7B	10/5/2015	1	0.13	FALSE
II-9	10/5/2015	1	0.13	FALSE
II-10	9/28/2007	1	10	FALSE
II-11	9/28/2007	1	10	FALSE
II-3B	10/5/2015	1	0.13	FALSE

Non-Parametric Prediction Interval
Inter-Well Comparison
Parameter: Vinyl chloride
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 93.7397%
Number of comparisons = 15
Future Samples (k) = 8
Recent Dates = 1
Background Measurements (n) = 99
Maximum Background Value = 11
Confidence Level = 92.5%
False Positive Rate = 7.5%

Location	Date	Count	Mean	Significant
II-1	10/5/2015	1	0.32	FALSE
II-2	10/5/2015	1	0.32	FALSE
II-3	10/5/2015	1	0.32	FALSE
II-4	10/5/2015	1	0.32	FALSE
II-5	10/5/2015	1	0.32	FALSE
II-8	10/5/2015	1	0.32	FALSE
I-5	9/28/2007	1	1	FALSE
II-6	10/5/2015	1	0.32	FALSE
II-7	10/5/2015	1	0.32	FALSE
II-7B	10/5/2015	1	0.32	FALSE
II-12	10/5/2015	1	0.32	FALSE
II-9	10/5/2015	1	2.2	FALSE
II-10	9/28/2007	1	10	FALSE
II-11	9/28/2007	1	10	FALSE
II-3B	10/5/2015	1	0.32	FALSE

Non-Parametric Prediction Interval
Inter-Well Comparison
Parameter: Total Xylenes
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 98.1878%
Number of comparisons = 15
Future Samples (k) = 8
Recent Dates = 1
Background Measurements (n) = 99
Maximum Background Value = 5
Confidence Level = 92.5%
False Positive Rate = 7.5%

Location	Date	Count	Mean	Significant
II-1	10/5/2015	1	0.45	FALSE
II-2	10/5/2015	1	0.45	FALSE
II-3	10/5/2015	1	0.45	FALSE
II-4	10/5/2015	1	0.45	FALSE
II-5	10/5/2015	1	0.45	FALSE
II-8	10/5/2015	1	0.45	FALSE
I-5	9/28/2007	1	5	FALSE
II-6	10/5/2015	1	0.77	FALSE
II-7	10/5/2015	1	0.45	FALSE
II-7B	10/5/2015	1	0.45	FALSE
II-12	10/5/2015	1	0.45	FALSE
II-9	10/5/2015	1	0.45	FALSE
II-10	9/28/2007	1	5	FALSE
II-11	9/28/2007	1	5	FALSE
II-3B	10/5/2015	1	0.45	FALSE

Non-Parametric Prediction Interval
Inter-Well Comparison
Parameter: bis (2-Ethylhexyl) Phthalate
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 95.2128%
Number of comparisons = 15
Future Samples (k) = 8
Recent Dates = 1
Background Measurements (n) = 30
Maximum Background Value = 29
Confidence Level = 78.9%
False Positive Rate = 21.1%

Location	Date	Count	Mean	Significant
I-5	9/28/2007	1	0	FALSE
II-1	10/5/2015	1	1.7	FALSE
II-12	10/5/2015	1	1.7	FALSE
II-2	10/5/2015	1	2	FALSE
II-3	10/5/2015	1	1.7	FALSE
II-4	10/5/2015	1	1.7	FALSE
II-5	10/5/2015	1	1.7	FALSE
II-6	10/5/2015	1	1.7	FALSE
II-7	10/5/2015	1	1.7	FALSE
II-7B	10/5/2015	1	1.7	FALSE
II-8	10/5/2015	1	1.7	FALSE
II-9	10/5/2015	1	1.7	FALSE
II-10	9/28/2007	1	0	FALSE
II-11	9/28/2007	1	0	FALSE
II-3B	10/5/2015	1	1.7	FALSE

Non-Parametric Prediction Interval
Inter-Well Comparison
Parameter: Phenol
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 95.283%
Number of comparisons = 12
Future Samples (k) = 8
Recent Dates = 1
Background Measurements (n) = 18
Maximum Background Value = 1.4
Confidence Level = 69.2%
False Positive Rate = 30.8%

Location	Date	Count	Mean	Significant
II-1	10/5/2015	1	1.4	FALSE
II-12	10/5/2015	1	1.4	FALSE
II-2	**10/5/2015**	**1**	**2.4**	**TRUE**
II-3	10/5/2015	1	1.4	FALSE
II-4	10/5/2015	1	1.4	FALSE
II-5	**10/5/2015**	**1**	**2.9**	**TRUE**
II-6	**10/5/2015**	**1**	**1.5**	**TRUE**
II-7	10/5/2015	1	1.4	FALSE
II-7B	**10/5/2015**	**1**	**1.8**	**TRUE**
II-8	10/5/2015	1	1.4	FALSE
II-9	10/5/2015	1	1.4	FALSE
II-3B	10/5/2015	1	1.4	FALSE

Non-Parametric Prediction Interval
Inter-Well Comparison
Parameter: Antimony
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 95.4469%
Number of comparisons = 15
Future Samples (k) = 8
Recent Dates = 1
Background Measurements (n) = 97
Maximum Background Value = 30
Confidence Level = 92.4%
False Positive Rate = 7.6%

Location	Date	Count	Mean	Significant
II-1	10/5/2015	1	0.418	FALSE
II-2	10/5/2015	1	2.31	FALSE
II-3	10/5/2015	1	0.344	FALSE
II-4	10/5/2015	1	0.22	FALSE
II-5	10/5/2015	1	0.22	FALSE
II-8	10/5/2015	1	0.22	FALSE
I-5	9/28/2007	1	6	FALSE
II-6	10/5/2015	1	0.22	FALSE
II-7	10/5/2015	1	0.22	FALSE
II-7B	10/5/2015	1	0.22	FALSE
II-12	10/5/2015	1	0.22	FALSE
II-9	10/5/2015	1	0.22	FALSE
II-10	9/28/2007	1	30	FALSE
II-11	9/28/2007	1	30	FALSE
II-3B	10/5/2015	1	0.22	FALSE

Non-Parametric Prediction Interval
Inter-Well Comparison
Parameter: Barium
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 52.1079%
Number of comparisons = 15
Future Samples (k) = 8
Recent Dates = 1
Background Measurements (n) = 97
Maximum Background Value = 1200
Confidence Level = 92.4%
False Positive Rate = 7.6%

Location	Date	Count	Mean	Significant
II-1	10/5/2015	1	424	FALSE
II-2	10/5/2015	1	57.1	FALSE
II-3	10/5/2015	1	201	FALSE
II-4	10/5/2015	1	187	FALSE
II-5	10/5/2015	1	102	FALSE
II-8	10/5/2015	1	150	FALSE
I-5	9/28/2007	1	100	FALSE
II-6	10/5/2015	1	269	FALSE
II-7	10/5/2015	1	87	FALSE
II-7B	10/5/2015	1	13.4	FALSE
II-12	10/5/2015	1	221	FALSE
II-9	10/5/2015	1	110	FALSE
II-10	9/28/2007	1	500	FALSE
II-11	9/28/2007	1	500	FALSE
II-3B	10/5/2015	1	178	FALSE

Non-Parametric Prediction Interval
Inter-Well Comparison
Parameter: Cadmium
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 81.6189%
Number of comparisons = 15
Future Samples (k) = 8
Recent Dates = 1
Background Measurements (n) = 97
Maximum Background Value = 4.92
Confidence Level = 92.4%
False Positive Rate = 7.6%

Location	Date	Count	Mean	Significant
II-1	10/5/2015	1	0.36	FALSE
II-2	10/5/2015	1	0.36	FALSE
II-3	10/5/2015	1	0.36	FALSE
II-4	10/5/2015	1	0.36	FALSE
II-5	10/5/2015	1	0.36	FALSE
II-8	10/5/2015	1	0.36	FALSE
I-5	9/28/2007	1	2.6	FALSE
II-6	10/5/2015	1	0.36	FALSE
II-7	10/5/2015	1	0.36	FALSE
II-7B	10/5/2015	1	0.36	FALSE
II-12	10/5/2015	1	0.36	FALSE
II-9	10/5/2015	1	0.36	FALSE
II-10	9/28/2007	1	1	FALSE
II-11	9/28/2007	1	1	FALSE
II-3B	10/5/2015	1	0.36	FALSE

Non-Parametric Prediction Interval
Inter-Well Comparison
Parameter: Chromium
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 64.5868%
Number of comparisons = 15
Future Samples (k) = 8
Recent Dates = 1
Background Measurements (n) = 97
Maximum Background Value = 16
Confidence Level = 92.4%
False Positive Rate = 7.6%

Location	Date	Count	Mean	Significant
II-1	10/5/2015	1	3.16	FALSE
II-2	10/5/2015	1	1.4	FALSE
II-3	10/5/2015	1	1.4	FALSE
II-4	10/5/2015	1	1.4	FALSE
II-5	10/5/2015	1	5.02	FALSE
II-8	10/5/2015	1	2.1	FALSE
I-5	**9/28/2007**	**1**	**23.7**	**TRUE**
II-6	10/5/2015	1	2.47	FALSE
II-7	10/5/2015	1	1.4	FALSE
II-7B	10/5/2015	1	1.4	FALSE
II-12	10/5/2015	1	3.17	FALSE
II-9	10/5/2015	1	1.4	FALSE
II-10	9/28/2007	1	10	FALSE
II-11	9/28/2007	1	10	FALSE
II-3B	10/5/2015	1	1.4	FALSE

Non-Parametric Prediction Interval
Inter-Well Comparison
Parameter: Cobalt
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 50.0843%
Number of comparisons = 15
Future Samples (k) = 8
Recent Dates = 1
Background Measurements (n) = 97
Maximum Background Value = 20.8
Confidence Level = 92.4%
False Positive Rate = 7.6%

Location	Date	Count	Mean	Significant
II-1	**10/5/2015**	**1**	**42.7**	**TRUE**
II-2	10/5/2015	1	1.1	FALSE
II-3	10/5/2015	1	12.9	FALSE
II-4	10/5/2015	1	1.1	FALSE
II-5	10/5/2015	1	3.46	FALSE
II-8	10/5/2015	1	1.75	FALSE
I-5	**9/28/2007**	**1**	**30.1**	**TRUE**
II-6	**10/5/2015**	**1**	**21.2**	**TRUE**
II-7	10/5/2015	1	3.51	FALSE
II-7B	10/5/2015	1	1.1	FALSE
II-12	10/5/2015	1	9.65	FALSE
II-9	10/5/2015	1	6.64	FALSE
II-10	9/28/2007	1	10	FALSE
II-11	9/28/2007	1	10	FALSE
II-3B	10/5/2015	1	2.22	FALSE

Non-Parametric Prediction Interval
Inter-Well Comparison
Parameter: Copper
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 77.7403%
Number of comparisons = 15
Future Samples (k) = 8
Recent Dates = 1
Background Measurements (n) = 97
Maximum Background Value = 200
Confidence Level = 92.4%
False Positive Rate = 7.6%

Location	Date	Count	Mean	Significant
II-1	10/5/2015	1	13.3	FALSE
II-2	10/5/2015	1	1.6	FALSE
II-3	10/5/2015	1	1.6	FALSE
II-4	10/5/2015	1	1.6	FALSE
II-5	10/5/2015	1	3.17	FALSE
II-8	10/5/2015	1	1.6	FALSE
I-5	9/28/2007	1	25.4	FALSE
II-6	10/5/2015	1	9.18	FALSE
II-7	10/5/2015	1	1.6	FALSE
II-7B	10/5/2015	1	1.6	FALSE
II-12	10/5/2015	1	1.6	FALSE
II-9	10/5/2015	1	1.6	FALSE
II-10	9/28/2007	1	200	FALSE
II-11	9/28/2007	1	200	FALSE
II-3B	10/5/2015	1	1.6	FALSE

Non-Parametric Prediction Interval
Inter-Well Comparison
Parameter: Lead
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 89.0388%
Number of comparisons = 15
Future Samples (k) = 8
Recent Dates = 1
Background Measurements (n) = 97
Maximum Background Value = 12
Confidence Level = 92.4%
False Positive Rate = 7.6%

Location	Date	Count	Mean	Significant
II-1	10/5/2015	1	3.1	FALSE
II-2	10/5/2015	1	3.1	FALSE
II-3	10/5/2015	1	3.1	FALSE
II-4	10/5/2015	1	4.86	FALSE
II-5	10/5/2015	1	3.1	FALSE
II-8	10/5/2015	1	3.1	FALSE
I-5	9/28/2007	1	10	FALSE
II-6	10/5/2015	1	4.05	FALSE
II-7	10/5/2015	1	3.1	FALSE
II-7B	10/5/2015	1	3.1	FALSE
II-12	10/5/2015	1	3.1	FALSE
II-9	10/5/2015	1	4.51	FALSE
II-10	9/28/2007	1	10	FALSE
II-11	9/28/2007	1	10	FALSE
II-3B	10/5/2015	1	3.1	FALSE

Non-Parametric Prediction Interval
Inter-Well Comparison
Parameter: Mercury
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 97.1545%
Number of comparisons = 15
Future Samples (k) = 8
Recent Dates = 1
Background Measurements (n) = 81
Maximum Background Value = 2
Confidence Level = 91%
False Positive Rate = 9%

Location	Date	Count	Mean	Significant
I-5	9/28/2007	1	0.2	FALSE
II-1	10/5/2015	1	0.17	FALSE
II-2	10/5/2015	1	0.17	FALSE
II-3	10/5/2015	1	0.361	FALSE
II-4	10/5/2015	1	0.17	FALSE
II-5	10/5/2015	1	0.17	FALSE
II-6	10/5/2015	1	0.17	FALSE
II-7	10/5/2015	1	0.17	FALSE
II-8	10/5/2015	1	0.17	FALSE
II-7B	10/5/2015	1	0.17	FALSE
II-12	10/5/2015	1	0.17	FALSE
II-9	10/5/2015	1	0.17	FALSE
II-10	9/28/2007	1	0.5	FALSE
II-11	9/28/2007	1	0.5	FALSE
II-3B	10/5/2015	1	0.17	FALSE

Non-Parametric Prediction Interval
Inter-Well Comparison
Parameter: Nickel
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 67.9595%
Number of comparisons = 15
Future Samples (k) = 8
Recent Dates = 1
Background Measurements (n) = 97
Maximum Background Value = 50
Confidence Level = 92.4%
False Positive Rate = 7.6%

Location	Date	Count	Mean	Significant
II-1	10/5/2015	1	27.7	FALSE
II-2	10/5/2015	1	1.8	FALSE
II-3	10/5/2015	1	12.1	FALSE
II-4	10/5/2015	1	33.4	FALSE
II-5	10/5/2015	1	2.87	FALSE
II-8	10/5/2015	1	44.4	FALSE
I-5	9/28/2007	1	178	TRUE
II-6	10/5/2015	1	32.5	FALSE
II-7	10/5/2015	1	4.65	FALSE
II-7B	10/5/2015	1	1.8	FALSE
II-12	10/5/2015	1	3.06	FALSE
II-9	10/5/2015	1	2.53	FALSE
II-10	9/28/2007	1	50	FALSE
II-11	9/28/2007	1	50	FALSE
II-3B	10/5/2015	1	3.75	FALSE

Non-Parametric Prediction Interval
Inter-Well Comparison
Parameter: Silver
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 89.3761%
Number of comparisons = 15
Future Samples (k) = 8
Recent Dates = 1
Background Measurements (n) = 97
Maximum Background Value = 10
Confidence Level = 92.4%
False Positive Rate = 7.6%

Location	Date	Count	Mean	Significant
II-1	10/5/2015	1	7.83	FALSE
II-2	10/5/2015	1	1.9	FALSE
II-3	10/5/2015	1	1.9	FALSE
II-4	10/5/2015	1	1.9	FALSE
II-5	10/5/2015	1	1.9	FALSE
II-8	10/5/2015	1	5.84	FALSE
I-5	9/28/2007	1	10	FALSE
II-6	10/5/2015	1	1.9	FALSE
II-7	10/5/2015	1	1.9	FALSE
II-7B	10/5/2015	1	1.9	FALSE
II-12	10/5/2015	1	1.9	FALSE
II-9	10/5/2015	1	1.9	FALSE
II-10	9/28/2007	1	10	FALSE
II-11	9/28/2007	1	10	FALSE
II-3B	10/5/2015	1	1.9	FALSE

Non-Parametric Prediction Interval
Inter-Well Comparison
Parameter: Vanadium
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 65.2614%
Number of comparisons = 15
Future Samples (k) = 8
Recent Dates = 1
Background Measurements (n) = 97
Maximum Background Value = 160
Confidence Level = 92.4%
False Positive Rate = 7.6%

Location	Date	Count	Mean	Significant
II-1	10/5/2015	1	1.4	FALSE
II-2	10/5/2015	1	1.9	FALSE
II-3	10/5/2015	1	1.4	FALSE
II-4	10/5/2015	1	2.52	FALSE
II-5	10/5/2015	1	9.63	FALSE
II-8	10/5/2015	1	1.92	FALSE
I-5	9/28/2007	1	25	FALSE
II-6	10/5/2015	1	3.18	FALSE
II-7	10/5/2015	1	1.4	FALSE
II-7B	10/5/2015	1	2.32	FALSE
II-12	10/5/2015	1	12.8	FALSE
II-9	10/5/2015	1	1.4	FALSE
II-10	9/28/2007	1	25	FALSE
II-11	9/28/2007	1	25	FALSE
II-3B	10/5/2015	1	1.4	FALSE

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Zinc

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 66.7791%
Number of comparisons = 15
Future Samples (k) = 8
Recent Dates = 1
Background Measurements (n) = 97
Maximum Background Value = 529
Confidence Level = 92.4%
False Positive Rate = 7.6%

Location	Date	Count	Mean	Significant
II-1	10/5/2015	1	3.8	FALSE
II-2	10/5/2015	1	3.8	FALSE
II-3	10/5/2015	1	3.8	FALSE
II-4	10/5/2015	1	3.8	FALSE
II-5	10/5/2015	1	7.74	FALSE
II-8	10/5/2015	1	3.8	FALSE
I-5	9/28/2007	1	10	FALSE
II-6	10/5/2015	1	5.12	FALSE
II-7	10/5/2015	1	3.8	FALSE
II-7B	10/5/2015	1	3.8	FALSE
II-12	10/5/2015	1	7.21	FALSE
II-9	10/5/2015	1	20.2	FALSE
II-10	9/28/2007	1	50	FALSE
II-11	9/28/2007	1	50	FALSE
II-3B	10/5/2015	1	3.8	FALSE

Appendix VI – CAP Monitoring Laboratory Analytical Reports and Summary Tables

TABLE VI-1A
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
DETECTED VOLATILE ORGANIC COMPOUNDS
SELECT WELLS LOCATED WITHIN WHITE STREET LANDFILL - PHASE II
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081C

	AOC II-2 Wells																									NC SWSL	NCAC 2L
	Sample Locations																										
Well ID	II-2	II-2	II-2	II-2	II-2	II-2	II-2	II-2	II-2	II-2	II-2	II-2B	II-2B	II-2B	SMW-1	SMW-1	SMW-1	SMW-1	SMW-1	SMW-1	SMW-1	SMW-1	SMW-1	SMW-1	SMW-1		
Date Collected	4/1/10	10/6/10	5/10/11	10/12/11	10/31/12	4/30/13	4/30/13	4/24/14	10/3/14	4/15/15	10/5/15	1/14/10	4/29/10	8/3/10	8/2/10	10/11/10	10/7/11	4/19/12	10/25/12	5/3/13	9/17/13	4/24/14	10/7/14	4/15/15	10/7/15		
units	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
1,1-Dichloroethane	16	17	16	12	11	14	11	10	8.4	7.1	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	6
1,1-Dichloroethene	0.45 J	0.49J	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	7
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.40 J	ND	ND	ND	ND	0.98 J	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	70
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	20
1,4-Dichlorobenzene	0.61 J	0.54 J	0.87 J	ND	0.94 J	1.2	1.5	2.0	1.3	1.3	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	6
4-Methyl 2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100	ns
Acetone	ND	5.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	1.5 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	100	6,000
Benzene	1.2	0.67 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	1.1	0.98J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	1
Chlorobenzene	0.62 J	0.74 J	0.78 J	0.99 J	0.74 J	0.88 J	0.89 J	1.0 J	0.72 J	0.64 J	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	50
Chloroethane	ND	0.57 J	ND	ND	ND	ND	0.47 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	3,000
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	NA	NA	NA	0.40 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	3
cis 1,2-dichloroethene	20	23	21	21	23	29	26	26	21	19	ND	17	16	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	70
Tetrachloroethene	4.2	3.6	2.9	ND	2.7	2.4	2.1	2.7	1.3	0.85 J	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	0.7
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	600
Trichloroethene	4.1	3.6	3.3	ND	2.9	3.2	2.4	2.5	1.2	1.2	ND	2.5	2.5	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	3
Tetrahydrofuran			ND	ND	10	ND	ND	2.7	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NE	NS
Trichlorofluoromethane	2.7	2.3	1.2	ND	0.88 J	0.73 J	0.48 J	0.55 J	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	2,000
Vinyl Chloride	4.8	5.4	5.1	3.5	2.2	5.6	3.6	4.6	2.6	2.5	ND	4	3.5	3.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	0.03
Xylenes (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	500

ND = compound not detected
J = Parameters are estimated values between the detection limit and the NC SWSL.
ns = no corresponding NCAC 2L groundwater quality standard
NC SWSL= North Carolina Solid Waste Section Limit (minimum detection limits)
NCAC 2L std. = 15A North Carolina Administrative Code 2L .0200, Groundwater Quality Standards for Class GA groundwater
Quantities highlighted in orange were detected above the 2L standards
NA = Parameter not analyzed during the specified event

TABLE VI-1B
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
DETECTED VOLATILE ORGANIC COMPOUNDS
SELECT WELLS LOCATED WITHIN WHITE STREET LANDFILL - PHASE II
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081C

	AOC II-6 Wells																						NC SWSL	NCAC 2L Std.
	Sample Locations																							
Well ID	II-6	II-6	II-6	II-6	II-6	II-6	II-6	II-6	II-6	II-6	II-6	II-6	SMW-4	SMW-4	SMW-4	SMW-4	SMW-4	SMW-4	SMW-4	SMW-4	SMW-4	SMW-4		
Date Collected	4/1/10	10/6/10	5/9/11	10/10/11	4/19/12	10/26/12	4/30/13	4/30/13	4/23/14	10/2/14	4/14/15	10/6/15	8/2/10	10/11/10	4/19/12	10/25/12	5/3/13	9/17/13	4/24/14	10/7/14	4/15/15	10/7/15		
units	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	6
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	7
1,2-Dichlorobenzene	0.43 J	0.51 J	ND	ND	ND	0.50 J	ND	0.50 J	ND	0.46 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	20
1,4-Dichlorobenzene	3.4	4.7	ND	4.0	0.51 J	4.8	ND	3.2	ND	3.8	ND	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	6
4-Methyl 2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100	ns
Acetone	5.4 J	ND	ND	ND	ND	9.8 J	ND	7.1 J	ND	16 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100	6,000
Benzene	1.6	2.2	ND	2.4	ND	2.3	ND	1.6	ND	2.0	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	1
Chlorobenzene	4.5	7.4	ND	6.8	0.71 J	5.7	ND	4.3	ND	5.8	ND	3.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	50
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	3,000
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	3
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 J	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	10	6
cis 1,2-dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	70
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	0.7
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	600
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	3
Tetrahydrofuran	NA	NA	NA	34	4.0	23	ND	18	ND	29	1	32	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NE	NS
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	2,000
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	0.03
Xylenes (total)	1.8 J	4.0 J	ND	5.5	ND	2.6 J	ND	1.8 J	ND	1.9 J	ND	0.77 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	500

ND = compound not detected
J = Parameters are estimated values between the detection limit and the NC SWSL.
ns = no corresponding NCAC 2L groundwater quality standard
NC SWSL= North Carolina Solid Waste Section Limit (minimum detection limits)
NCAC 2L std. = 15A North Carolina Administrative Code 2L .0200, Groundwater Quality Standards for Class GA groundwater
Quantities highlighted in orange were detected above the 2L standards

TABLE VI-1C
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
DETECTED VOLATILE ORGANIC COMPOUNDS
SELECT WELLS LOCATED WITHIN WHITE STREET LANDFILL - PHASE II
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081C

	Southern E-Buffer Wells												NC SWSL	NCAC 2L Std
	Sample Locations													
Well ID	II-1	II-1	II-1	II-1	II-1	II-1	II-1	II-1	II-1	II-1	II-1	II-1		
Date Collected	4/1/10	10/8/10	5/9/11	10/10/11	4/17/12	10/26/12	4/30/13	9/11/13	4/24/14	10/6/14	4/14/15	10/7/15		
units	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
1,1-Dichloroethane	2.3 J	3.0 J	1.1 J	1.7 J	1.2 J	1.6 J	0.77 J	0.89 J	0.79 J	0.53 J	0.45 J	0.86 J	5	6
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	7
1,2-Dichlorobenzene	ND	0.43 J	ND	ND	ND	0.41 J	ND	ND	ND	0.61 J	ND	ND	5	20
1,4-Dichlorobenzene	6.5	7.5	4.0	7.6	4.6	7.7	3.4	4.3	5.6	8.2	5.4	7.6	1	6
4-Methyl 2-Pentanone	5.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100	ns
Acetone	ND	ND	ND	ND	ND	3.3 J	ND	4.0 J	ND	ND	ND	ND	100	6,000
Benzene	1.1	1.2	0.78 J	0.98 J	0.91 J	1.5	0.45 J	1.1	ND	1.1	0.73 J	1.2	1	1
Chlorobenzene	2.2 J	3.2	1.2 J	4.0	2.0	3.5	1.4 J	2.9 J	3.0	4.3	2.0	3.4	3	50
Chloroethane	0.95 J	1.6 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.94 J	10	3,000
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	3
cis 1,2-dichloroethene	3.3 J	4.2 J	0.88 J	ND	2.1 J	3.0 J	1.3 J	2.6 J	0.43 J	1.1 J	ND	ND	5	70
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	0.7
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	600
Trichloroethene	0.53 J	0.48 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	3
Tetrahydrofuran	NA	NA	NA	11	4.4	10	5.5	6.5	14	13	8.2	21	NE	NS
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	2,000
Vinyl Chloride	0.90 J	1.4	ND	ND	0.52 J	1.3	ND	0.43 J	ND	ND	ND	ND	1	0.03
Xylenes (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	500

ND = compound not detected
J = Parameters are estimated values between the detection limit and the NC SWSL.
ns = no corresponding NCAC 2L groundwater quality standard
NC SWSL= North Carolina Solid Waste Section Limit (minimum detection limits)
NCAC 2L std. = 15A North Carolina Administrative Code 2L .0200, Groundwater Quality Standards for Class GA groundwater
Quantities highlighted in orange were detected above the 2L standards

TABLE VI-1D
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
DETECTED VOLATILE ORGANIC COMPOUNDS
SELECT WELLS LOCATED WITHIN WHITE STREET LANDFILL - PHASE II
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081C

	Northern Ebuffer Wells																					NC SWSL	NCAC 2L Std.
	Sample Locations																						
Well ID	II-9	II-9	II-9	II-9	II-9	II-9	II-9	II-9	II-9	II-9	SMW-3	SMW-3	SMW-3	SMW-3	SMW-3	SMW-3	SMW-3	SMW-3	SMW-3	SMW-3	SMW-3		
Date Collected	4/29/10	10/7/11	4/19/12	10/25/12	4/30/13	9/18/13	4/24/14	10/7/14	10/7/14	10/7/15	8/2/10	10/11/10	10/7/11	4/19/12	10/23/12	5/3/13	9/18/13	4/24/14	10/7/14	4/15/15	10/8/15		
units	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
1,1-Dichloroethane	ND	5.8	6.9	9.6	7.9	9.9	ND	6.5	5.7	5.8	4.2 J	3.8 J	0.88 J	5.4	5.0	4.5 J	5.6	5.8	5.6	6.2	3.7 J	5	6
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	7
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	20
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	6
4-Methyl 2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100	ns
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100	6,000
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	1
Chlorobenzene	ND	ND	ND	ND	ND	0.52 J	ND	0.62 J	ND	0.60 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9 J	3	50
Chloroethane	ND	ND	ND	ND	ND	0.81 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	3,000
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.44 J	0.61 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	3
cis 1,2-dichloroethene	11	16	16	24	23	26	ND	17	14	13	6.9	7.8	1.2 J	12	12	14	15	14	16	15	7.6	5	70
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.44 J	ND	ND	ND	1	0.7
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	600
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.40 J	0.60 J	ND	ND	ND	1	3
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NE	NS
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	2,000
Vinyl Chloride	0.66 J	0.69 J	1.0 J	2.4	0.79 J	4.0	ND	2.6	ND	2.2	0.49 J	0.68 J	ND	ND	ND	0.74 J	1.3 J	1.7	2.0	1.6	0.72 J	1	0.03
Xylenes (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	500

ND = compound not detected
J = Parameters are estimated values between the detection limit and the NC SWSL.
ns = no corresponding NCAC 2L groundwater quality standard
NC SWSL= North Carolina Solid Waste Section Limit (minimum detection limits)
NCAC 2L std. = 15A North Carolina Administrative Code 2L .0200, Groundwater Quality Standards for Class GA groundwater
Quantities highlighted in orange were detected above the 2L standards

TABLE VI-1E
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
DETECTED VOLATILE ORGANIC COMPOUNDS
SELECT WELLS LOCATED WITHIN WHITE STREET LANDFILL - PHASE II
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081C

	AOC II-7 Wells																								
	Sample Locations																								
Well ID	II-7	II-7	II-7	II-7	II-7	II-7	II-7	II-7	II-7	II-7	II-7	II-7	II-7B	II-7B	II-7B	II-7B	II-7B	II-7B	II-7B	II-7B	II-7B	II-7B	II-7B	NC SWSL	NCAC 2L std
Date Collected	4/1/10	10/8/10	5/9/11	10/13/11	4/17/12	10/31/12	4/30/13	9/13/13	4/24/14	10/2/14	4/14/15	10/8/15	4/1/10	10/8/10	10/13/11	4/17/12	10/31/12	4/30/13	9/13/13	4/24/14	10/2/14	4/14/15	10/8/15		
units	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
1,1-Dichloroethane	**1.1 J**	**0.42 J**	ND	ND	**0.65 J**	**0.79 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.64 J**	**0.85 J**	**0.90 J**	ND	**0.54 J**	ND	**0.89 J**	**0.79 J**	5	6
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	7
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	20
1,4-Dichlorobenzene	**0.53 J**	ND	ND	ND	**0.42 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	6
4-Methyl 2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100	ns
Acetone	**2.0 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.2 J**	ND	ND	ND	ND	100	6,000
Benzene	**0.64 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	1
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	50
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	3,000
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	3
cis 1,2-dichloroethene	**3.6 J**	ND	ND	ND	**0.79 J**	**0.48 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.58 J**	**0.44 J**	ND	ND	ND	ND	ND	ND	5	70
Tetrachloroethene	**0.56 J**	ND	ND	ND	ND	**0.52 J**	ND	ND	ND	ND	ND	ND	**0.57 J**	**0.57 J**	ND	**0.41 J**	**0.52 J**	**0.48 J**	ND	**0.51 J**	ND	ND	ND	1	0.7
Toluene	**1.0**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	600
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	3
Tetrahydrofuran	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	**0.40 J**	ND	NA	NA	ND	**130**	**170**	**150**	**18**	**140**	ND	**5.6**	ND	NE	NS
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	2,000
Vinyl Chloride	**0.80 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	0.03
Xylenes (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	500

ND = compound not detected
J = Parameters are estimated values between the detection limit and the NC SWSL.
ns = no corresponding NCAC 2L groundwater quality standard
NC SWSL= North Carolina Solid Waste Section Limit (minimum detection limits)
NCAC 2L std. = 15A North Carolina Administrative Code 2L .0200, Groundwater Quality Standards for Class GA groundwater
Quantities highlighted in orange were detected above the 2L standards