Environmental Compliance and Remediation

Babb & Associates, P.A.

December 9, 2015

Ms. Mary Siedlecki, Hydrogeologist
Ms. Jackie Drummond, Hydrogeologist
NC Division of Waste Management
1646 Mail Service Center
Raleigh, North Carolina 27699

Re: 2015 Annual Groundwater Monitoring Report
Former Seaboard Chemical/Riverdale Drive Landfill Site
Jamestown, North Carolina

Dear Mary and Jackie:

Please find attached the 2015 Annual Groundwater and Surface Water Monitoring Report for the former Seaboard Chemical/Riverdale Drive Landfill Site in Jamestown, North Carolina.

If there are any questions regarding this report, please contact the undersigned at (919) 325-0696.

Respectfully,

Babb & Associates, P.A.

Gary D. Babb

Gary D. Babb, P.G.
President

NORTH CAROLINA LICENSED SEAL 488 GEOLOGIST GARY D. BABB

Enclosure

Cc: Mr. James C. LaRue
Mr. Robby Stone
Mr. Mike Spencer
Mr. Randy Smith

P.O. Box 37697
Raleigh, NC 27627
(919) 325-0696

Water Quality Monitoring Report

Former Seaboard Chemical/Riverdale Drive Landfill
5899 Riverdale Drive
Jamestown, North Carolina
Permit No. 41-01
NCD 071 574 164

Prepared for:

Seaboard Group II and City of High Point
High Point, NC

Prepared by:

Babb & Associates, P.A.
P.O. Box 37697
Raleigh, North Carolina 27627

December 2015

Gary D. Babb, Licensed Geologist

NORTH CAROLINA LICENSED SEAL 488 GEOLOGIST GARY D. BABB

Babb & Associates, P.A.

DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

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):

Babb & Associates, P.A.

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

Name: Gary D. Babb Phone: (919) 325-0696

E-mail: gdbabb@gmail.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Closed Riverdale Drive Landfill	SR 1145 High Point, NC	41-01	.0500	Oct. 26-Nov.3, 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) _____
☐ 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.

Gary D. Babb — Licensed Geologist — (919) 325-0696

Facility Representative Name (Print) — Title — (Area Code) Telephone Number

Gary D. Babb — December 10, 2015 — Affix NC Licensed/ Professional Geologist Seal

Signature — Date

Babb & Associates. P.A., PO Box 37697, Raleigh, NC 27627

Facility Representative Address

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

NORTH CAROLINA LICENSED SEAL 488 GEOLOGIST GARY D. BABB

Revised 6/2009

Environmental Compliance and Remediation

Babb & Associates, P.A.

December 9, 2015

Ms. Mary Siedlecki, Hydrogeologist
Ms. Jackie Drummond, Hydrogeologist
NC Division of Waste Management
1646 Mail Service Center
Raleigh, North Carolina 27699

Re: 2015 Annual Groundwater Monitoring Report
Former Seaboard Chemical/Riverdale Drive Landfill Site
Jamestown, North Carolina

Dear Mary and Jackie:

Babb & Associates, P.A. has completed the 2015 annual groundwater and surface water monitoring event at the former Seaboard Chemical/Riverdale Drive Landfill site (the Site). During the period of October 26 – November 3, 2015, a total of 25 groundwater monitoring wells and 11 surface water samples were collected for laboratory analysis (Figure 2). All water samples were analyzed for volatile organic compounds by EPA Method 8260. The samples were also analyzed for the compound 1,4-dioxane by EPA Method 8260C SIM in order to obtain a laboratory reporting limit of 2.0 ug/l. Field parameters for the water samples included pH, temperature, specific conductivity, and dissolved oxygen. The sample collection activities were conducted in general accordance with the approved scope of work outlined in the *Annual Monitoring Plan – 2010*, dated March 17, 2010.

Prior to the collection of the water samples, groundwater elevations were obtained from the groundwater monitoring wells to be monitored at the Site. A summary of the water level information obtained during this monitoring event is provided in Table 1. A potentiometric map with the general direction of groundwater flow across the Site is provided as Figure 2.

Site History

The general Site location is shown on Figure 1. The Site consists of two properties as shown on Figure 2. The former Seaboard Chemical facility property (Seaboard) is located at 5899 Riverdale Drive, Jamestown, NC and consists of approximately 13 acres. Between 1974 and 1989, Seaboard

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operated solvent recovery and fuel blending processes at the facility. The corporation declared bankruptcy in 1989 and was not able to fund the cost of performing the necessary site closure and remediation. Removal activities were conducted during 1990 and 1992 to remove all remaining waste materials and certain tanks and equipment from the Seaboard facility. The removal was conducted by the Seaboard Group I which was formed by parties that may have used the services of Seaboard in the past.

The adjacent Riverdale Drive Landfill (Landfill), a closed municipal solid waste landfill, consists of approximately 150 acres and bounds the Seaboard facility on two sides. The Landfill was operated from the 1950's until October 1993. The Landfill was permitted by the North Carolina DENR Solid Waste Section in 1979. During Landfill operations, sections of the two tributary streams that cross the landfill property were piped and solid waste was used to fill the drainage valleys. The two streams are referred to as the Southern Intermittent Stream and the Northern Intermittent Stream. During filling of the Southern Intermittent Stream valley, a leachate collection system was installed adjacent to the stream channel to collect leachate migrating from the overlying solid waste. In 1989, a leachate collection system was added to control surface seeps (leachate leakage) along the slopes of the landfill. The leachate is presently collected in concrete storage tanks and subsequently pumped into tank trucks and treated off-site. From approximately 1966 to 1970, Landfill operations included the disposal and open burning of spent solvents in shallow pits located just north of the former Landfill scale house. Periodically, these burn pits were cleaned of residue that was accumulated in a mound to the south of the burn pits. Presently, this mound consists of approximately 600 cubic yards of contaminated residue capped by a synthetic liner and is referred to as the "soil residue mound". The Landfill is now capped and maintained under an approved post-closure plan.

Seaboard Group II was formed to perform a remedial investigation and to prepare a baseline risk assessment and feasibility study for the Site. The Group entered into an agreement with the City of High Point to perform a remedial investigation since the close proximity of the Landfill and Seaboard facilities made a joint investigation of the two sites advantageous for both the City and the Group. The Parties then entered into an Administrative Order on Consent (AOC) dated January 30, 1996 with NC DENR to perform the remedial investigation. The feasibility study was conducted under a separate AOC dated July 22, 1997.

Remedial investigations conducted at the Site have documented the presence of chlorinated and non-chlorinated volatile organic compounds (VOCs) in soils, landfill leachate, groundwater, and surface

water. The remedial investigation results indicate that the VOC-affected groundwater is migrating to Randleman Lake, which adjoins the Site along the northern and eastern property boundary of the Landfill. The Randleman Lake was created by the impoundment of the Deep River in 2006 by Randleman Lake Dam, which is located approximately 11.5 miles downstream of the Site.

The *Remedial Recommendation Document* (February 2005) presented a remedial strategy for the impacted media at the Site based on the results of the remedial investigation, baseline risk assessment, and feasibility study. The proposed remedial design consists of groundwater extraction and treatment in combination with institutional controls including site access control, recorded land use restrictions, and restriction of water supply well construction. The proposed remedy is designed to prevent movement of contaminants into the Southern Intermittent Stream and adjacent Randleman Lake and prevent exposure to impacted soils and groundwater at the Site. Groundwater and surface water sampling is designed to evaluate the effectiveness of the remedy and ensure that there is no unacceptable migration of contaminants to Randleman Lake. The *Remedial Recommendation Document* was conditionally approved by the NC DENR in September 2005.

The Seaboard Group II and the City of High Point entered into a Remedial Action Settlement Agreement (RASA) with NC DENR on December 29, 2008. The RASA provides for the design and implementation of the approved remedial action program for the Site as well as completion and reporting of annual groundwater and surface water monitoring activities.

2015 Annual Monitoring Activities

The primary objectives of the annual groundwater and surface water monitoring program are:

- Monitor VOC concentrations and migration of the VOC-affected groundwater;
- Monitor groundwater elevations, hydraulic gradients and flow directions;
- Monitor surface water quality in Randleman Lake, Northern Intermittent Stream, and Southern Intermittent Stream to assess impacts from groundwater discharge.

The 2015 annual groundwater and surface water monitoring activities were conducted at the Site during the period of October 26 – November 3, 2015. Groundwater level gauging was conducted at the monitoring wells to be sampled to evaluate groundwater flow patterns at the Site (Figure 2). The water level measurements were collected manually using electronic water level meters. Groundwater

and surface water sampling for VOC analysis and 1,4-dioxane was conducted at 25 monitoring wells and seven surface water monitoring stations. Field parameters (pH, specific conductivity, temperature, and dissolved oxygen) were also measured for each groundwater and surface water sample using calibrated meters.

The surface water sampling conducted at the seven surface water stations included; four stations along Randleman Lake upgradient, adjacent to, and downgradient of the Site (SW-6, SW-7, SW-DRP-2, and SW-DRP-11), and three stations on the Southern Intermittent Stream (SW-3, SW-4, and SW-5). The two monitoring stations on the Northern Intermittent Stream (SW-1 and SW-2) were dry at the time of this monitoring event. The surface water samples collected from the four stations along the Randleman Lake were collected at two discrete intervals; a shallow sample collected 1' below the surface, and a deeper sample collected 1' off of the bottom of the Randleman Lake. The Randleman Lake water samples were collected using a stainless steel discrete-interval Kemmerer water sampler. The actual depths of the shallow and deeper Randleman Lake surface water samples are provided in Table 4.

The groundwater and surface water samples were analyzed by Environmental Conservation Laboratories, Inc. (ENCO) of Cary, NC for volatile organic compounds (VOCs) by EPA Method 8260 and 1,4-dioxane by EPA Method 8260C SIM. The complete laboratory report is provided in Appendix A.

Groundwater Results

Groundwater Elevations

A groundwater potentiometric map is provided as Figure 2. This potentiometric map primarily represents groundwater flow in the bedrock aquifer. Groundwater elevation data for the Northern Intermittent Stream area is limited because the entire stream valley is piped and filled by solid waste which prevents the installation of monitoring wells and the collection of water level data. The groundwater elevation data for the Site are summarized in Table 1.

In the bedrock aquifer, the general groundwater flow direction from the former Seaboard property is northeastward toward the Randleman Lake. The vertical hydraulic gradient in the

shallow bedrock aquifer, as measured between monitoring wells MW-3C and OW-DR2 in October 2015, was 0.056 feet/feet upward. In the area across (north and east of) Randleman Lake, groundwater elevation data for well PW-18 and other monitoring wells indicate that the horizontal hydraulic gradient is to the south/southeastward, toward Randleman Lake.

Groundwater elevation data for the Northern Intermittent Stream area is limited as the entire stream valley is piped and filled with solid waste. However, the general groundwater flow pattern is presumed to follow the former Northern Intermittent Stream channel eastward towards Randleman Lake.

An *Extraction Rate/Capture Zone Test* was conducted by ERM NC, PC in August 2002. This test used well PW-DR1 as the primary extraction point to determine the potential capture zone using various pumping rates. The result of this extraction test indicated that the VOC plume can be contained at the Deep River (Randleman Lake) by pumping at a relatively low rate (10-20 gpm) at the PW-DR1 extraction well. A copy of the *Extraction Rate/Capture Zone Test* report is provided in Appendix B.

The filling of Randleman Lake began in 2006 and the lake level reached normal pool elevation (682 feet msl) in 2008. Based on the data collected through the October-November 2015 monitoring event, groundwater levels at monitoring wells located adjacent to the lake have risen 10 - 12 feet as compared to pre-lake water level conditions. Inland from the lake, groundwater levels at wells located on the western portion of the Site have risen approximately 4 feet due to the lake impoundment.

Groundwater Quality

The analytical results for selected groundwater contaminants collected during the October-November 2015 monitoring event are shown in a series of figures. Groundwater quality maps are provided for 1,2-dichloroethane (Figure 3), vinyl chloride (Figure 4), chlorobenzene (Figure 5), 1,4-dioxane (Figure 6), and total VOCs (Figure 7) in the bedrock aquifer. The historical groundwater analytical results for specific VOCs, including the 2015 data, are summarized in Table 2 and the ENCO laboratory report is provided in Appendix A. Measurements of pH, temperature, specific conductance, and dissolved oxygen as determined

in the field are provided in Table 4. Additional monitoring well information including the latitude/longitude of each well location is provided in Table 5.

The main mass of VOC-affected groundwater generally extends northeastward across the Site to the Randleman Lake basin. As shown on Figure 7, relatively high concentrations of VOCs originate in the vicinity of the northeast corner of the former Seaboard facility (near the location of three former surface impoundments) and the soil residue mound associated with the former burn pits at the Landfill. Prior to their closure and capping between 1984 and 1986, the area of the former impoundments served as a primary source area of VOC releases to the groundwater at the former Seaboard facility. Relatively high VOC concentrations in groundwater also originate in the area of the soil residue mound, a contaminant source area located on the Landfill property.

VOCs were detected in a limited area across Randleman Lake from the Site. Concentrations of VOCs and 1,4-dioxane at levels above the respective North Carolina 2L Groundwater Quality Standards were detected at off-site bedrock monitoring wells PW-14D, PW-15D, and PW-16D, which are located on the north side of the Randleman Lake basin from the Site. The extent of the VOC contaminant plume on the north side of the Randleman Lake appears to be limited primarily to property encompassed by the Lake's buffer zone, which is maintained and regulated by the Piedmont Triad Regional Water Authority.

Overall, the October-November 2015 groundwater analytical results and the general distribution of VOCs in the Site's groundwater are consistent with the historical groundwater quality monitoring results.

Surface Water Results

Surface water sampling was conducted at the Southern Intermittent Stream and at various depths in the Randleman Lake. The surface water results for VOCs and 1,4-dioxane are summarized in Table 3 and the ENCO laboratory report is provided in Appendix A.

Randleman Lake

The Randleman Lake sampling stations include SW-6, SW-7, SWDRP-2, and SWDRP-11. The compound 1,4-dioxane was reported in only one of the Randleman Lake surface water monitoring stations during the December 2014 monitoring event. The downgradient surface water station SWDRP-2 reported a detectable concentration of 1,4-dioxane of 3.02 ug/l in the shallow (1' depth) sample and 3.11 ug/l in the deeper (12.3') sample, both of which are slightly above the laboratory reporting limit of 2.0 ug/l. The North Carolina 2B Surface Water Standard for 1,4-dioxane is 3.1 ug/l. Surface water monitoring station SWDRP-2 is located adjacent to the Site near the main extraction well PW-DR1. A summary of the surface water analytical results for the Randleman Lake samples is provided in Table 3.

Based on field observations during the October-November 2015 monitoring activities, the Randleman Lake level was at or near surveyed stakes at the Site marking the normal pool elevation of 682 feet msl.

Southern Intermittent Stream

The Southern Intermittent Stream sampling stations include SW-3, SW-4, and SW-5. Site VOCs were detected at concentrations above the North Carolina 2B Surface Water Quality Standards in two of the three surface water samples collected from the Southern Intermittent Stream during the October-November 2015 monitoring event. At sampling station SW-3, located downstream of the former Seaboard property and upstream of the Landfill, the compounds 1,2-dichloroethane, 1,4-dioxane, chloroethane, methylene chloride, tetrachloroethene, trichloroethene, and vinyl chloride were detected at concentrations above the North Carolina 2B Surface Water Quality Standards. The surface water sample collected at SW-4, located downstream of the landfill at a lower segment of the Southern Intermittent Stream channel now submerged by Randleman Lake, a concentration of 1,4-dioxane only slightly above the North Carolina 2B Surface Water Standards was reported. Historically, the SW-4 sampling station was formerly located just upstream of the confluence of the Southern Intermittent Stream and the Deep River. No additional VOCs were detected above the laboratory detection limit in the surface water samples SW-3, SW-4, or SW-5 collected from the Southern Intermittent Stream. A summary of all detected VOCs and 1,4-dioxan is provided in Table 3.

Northern Intermittent Stream

The flow path of the Northern Intermittent Stream was re-routed in 2011 and no longer passes through a pipe beneath the Landfill. Due to a limited watershed area, surface water monitoring station SW-1 is typically dry except during periods of heavy rainfall. Surface water sample SW-1 was dry during the October-November 2015 monitoring event and no sample was collected. The former location of surface water station SW-2 was formerly located at the end of the pipe beneath the Landfill which has now been converted into a collection sump for leachate accumulation. Surface water station SW-2 has been relocated to the outfall of the re-routed Northern Intermittent Stream as shown on Figure 2. Surface water station SW-2 was also dry during the October-November 2015 monitoring event and no sample was collected.

Conclusions

The major findings of the annual groundwater and surface water monitoring activities for October-November 2015 at the former Seaboard Chemical/Riverdale Drive Landfill Site include the following:

- Based on the October-November 2015 monitoring data, groundwater levels at monitoring wells located adjacent to the Randleman Lake have risen approximately 10 to 12 feet compared to pre-lake water level conditions. Inland from the lake, the 2015 groundwater levels at wells located on the western portion of the Site are approximately 4 feet higher compared to pre-lake water level conditions.

- The overall groundwater flow pattern (Figure 2) at the Site is towards Randleman Lake on both sides of the Lake basin. Groundwater elevation data for the Northern Intermittent Stream area are limited due to monitoring constraints posed by the entire stream valley being piped and filled by solid waste. However, the general groundwater flow pattern is presumed to be to the east, toward Randleman Lake. Startup test pumping of the extraction well PW-DR1 over the past year indicates a significant capture zone for monitoring wells along the northern section of the Landfill adjacent to the Randleman Lake.

- During the October-November 2015 monitoring event, a minor concentration of 1,4-dioxane was reported in the downstream surface water station SWDRP-2 in the shallow sample (3.02 ug/l) and the deeper sample (3.11 ug/l). Surface water monitoring station SWDRP-2 is located adjacent to the Site near extraction well PW-DR1. The North Carolina 2B Surface Water Standard for 1,4-dioxane is 3.1 ug/l. No other concentrations of 1,4-dioxane or VOCs were identified in the surface water samples collected from the Randleman Lake.

- At the Southern Intermittent Stream, 1,4-dioxane and six other VOCs were detected at levels above the North Carolina 2B Surface Water Quality Standards in the surface water sample collected at sampling station SW-3, which is located downstream of the former Seaboard facility and upstream of the Landfill. In the surface water sample collected at the SW-4 location, which is downstream of both the Seaboard site and the Landfill, 1,4-dioxane was detected at a concentration slightly above the North Carolina 2B Surface Water Standard. A minor concentration (below the NC 2B Surface Water Standard) of 1,4-dioxane was reported in surface water sample SW-5, which is located upstream of the former Seaboard facility.

- At the Northern Intermittent Stream, both surface water monitoring stations (SW-1 and SW-2) were dry during the October-November 2015 monitoring event and no samples were collected.

- Based on the October-November 2015 monitoring results and historical data, the main VOC plume extends from the former Seaboard facility and Landfill soil residue mound through the Southern Intermittent Stream valley northeastward to the Randleman Lake. The VOCs and 1,4-dioxane detected on the north side of the Lake across from the Site in monitoring wells PW-14D, PW-15D, and PW-16D represent the northern extent of the VOC plume. The groundwater quality and elevation data on the north side of the Lake adjacent to the Site indicate that the main VOC mass from the Site is migrating to the Randleman Lake basin along a corridor of fracture zones beneath the valley floor which forms the Lake. Based on historical groundwater analytical results, the northern extent of Site-related VOCs in the groundwater in the area north of Randleman Lake is likely located between monitoring wells PW-14D, PW-15D, PW-16D and PW-18.

Overall, the October-November 2015 groundwater monitoring results are generally consistent with historical monitoring data. The geometry and migration of VOC-affected groundwater at the Site has not been substantially altered by the filling of Randleman Lake to normal pool. Startup test pumping of extraction well PW-DR1 has indicated a significant capture zone created by the drawdown. The October-November 2015 surface water monitoring results indicate that surface water quality resulting from the migration of VOCs from the Site into Randleman Lake is minor and likely attenuated by mixing and dispersion within the Lake.

If there are any questions concerning the information presented in this groundwater and surface water monitoring report for October-November 2015, please contact the undersigned at (919) 325-0696.

Respectfully,

Babb & Associates, P.A.

Gary D. Babb

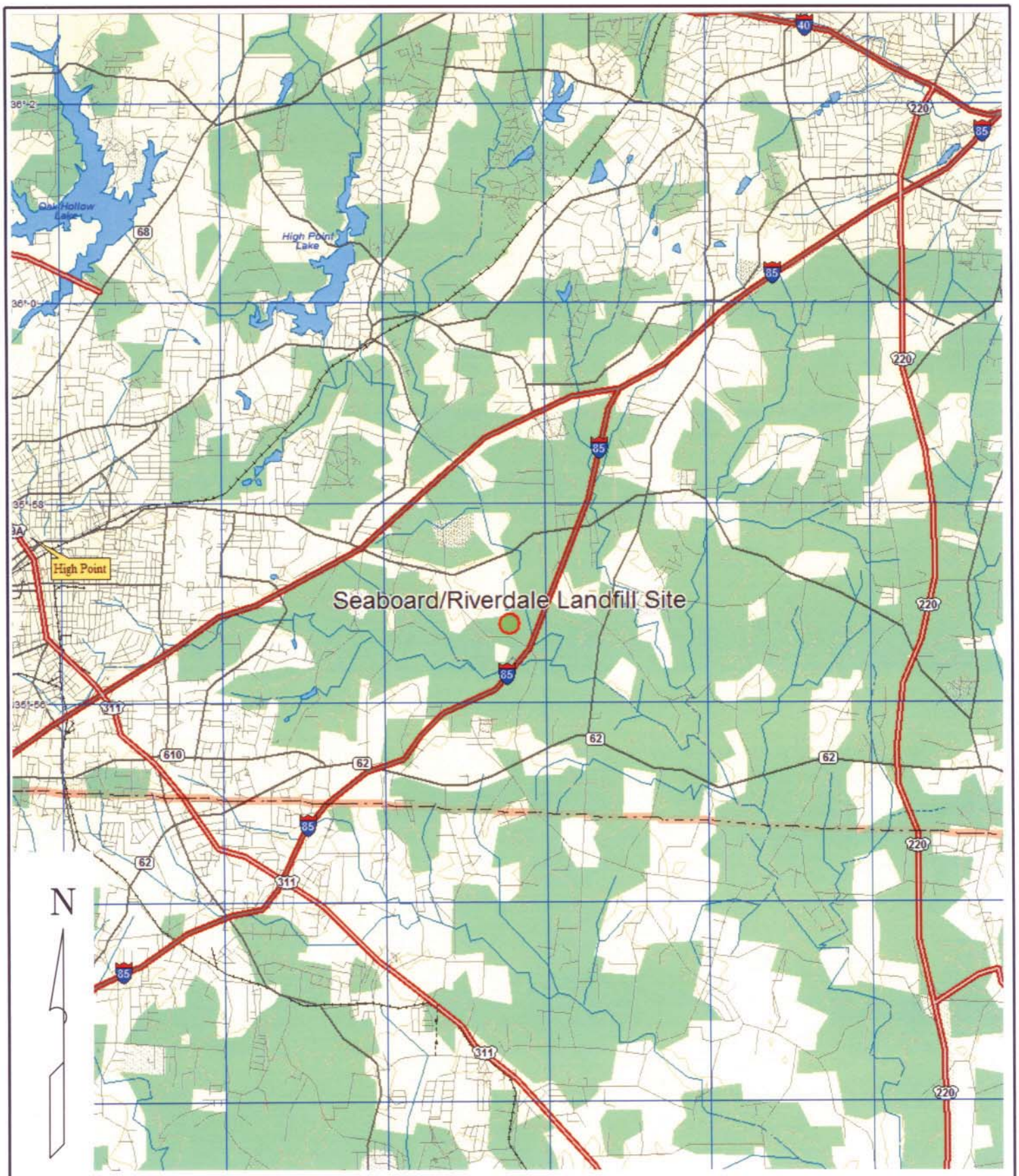
Gary D. Babb, P.G.
President

NORTH CAROLINA LICENSED SEAL 488 GEOLOGIST GARY D. BABB

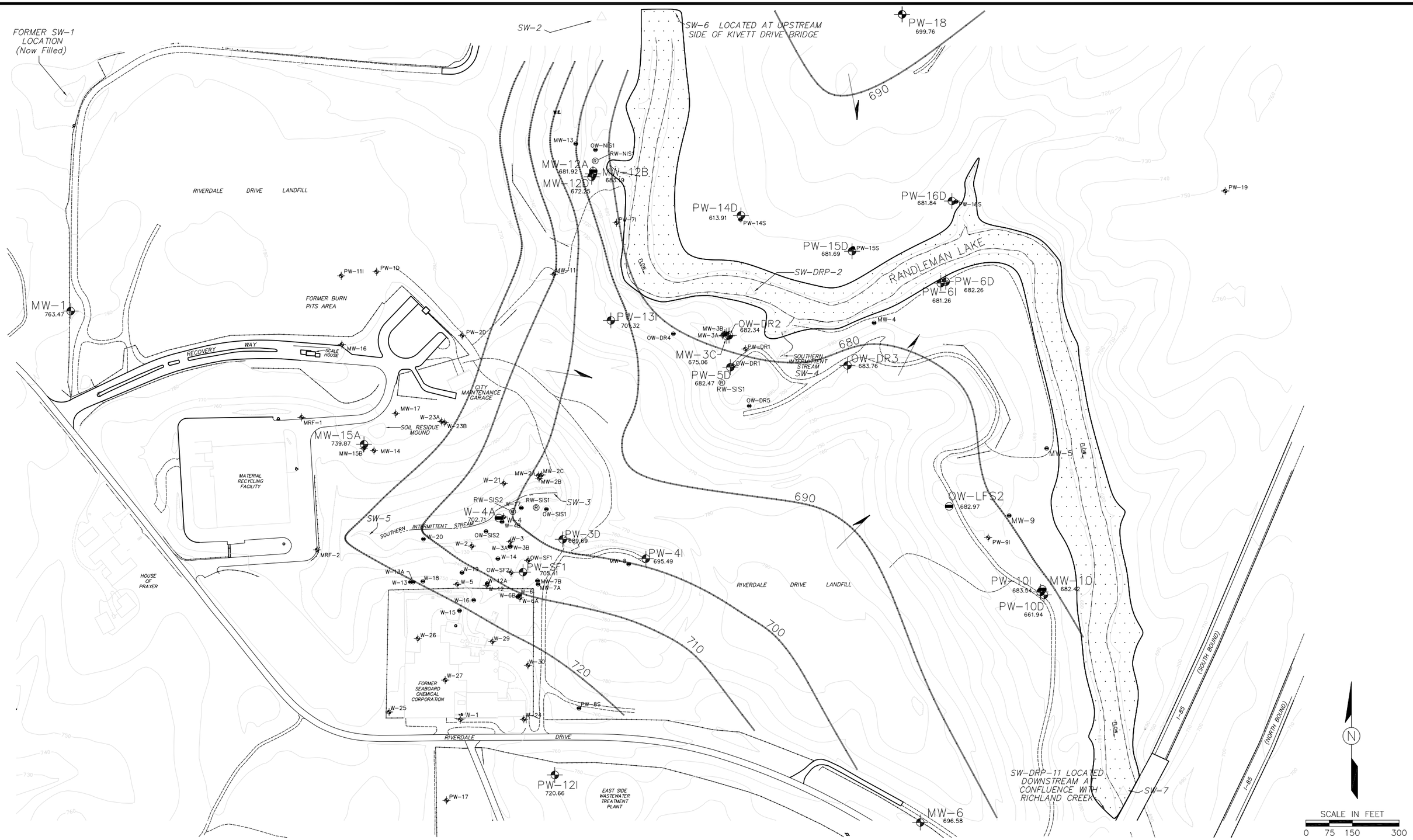
Attachments

Cc: Mr. James LaRue
Mr. Robby Stone
Mr. Mike Spencer
Mr. Randy Smith

FIGURES



Babb & Associates, P.A.	TITLE: Site Location Map Seaboard/Riverdale LF Site Jamestown, North Carolina	FIGURE NO: Figure 1	SCALE: 1"= 8000'	PROJECT NO:
		CHECKED BY:	DRAWN BY: G. Babb	DATE: 2/10/11



BASE MAP FROM BBL REMEDIAL INVESTIGATION REPORT, MARCH 1999.

WELLS TO BE SAMPLED SHOWN IN ENLARGED TYPE

LEGEND

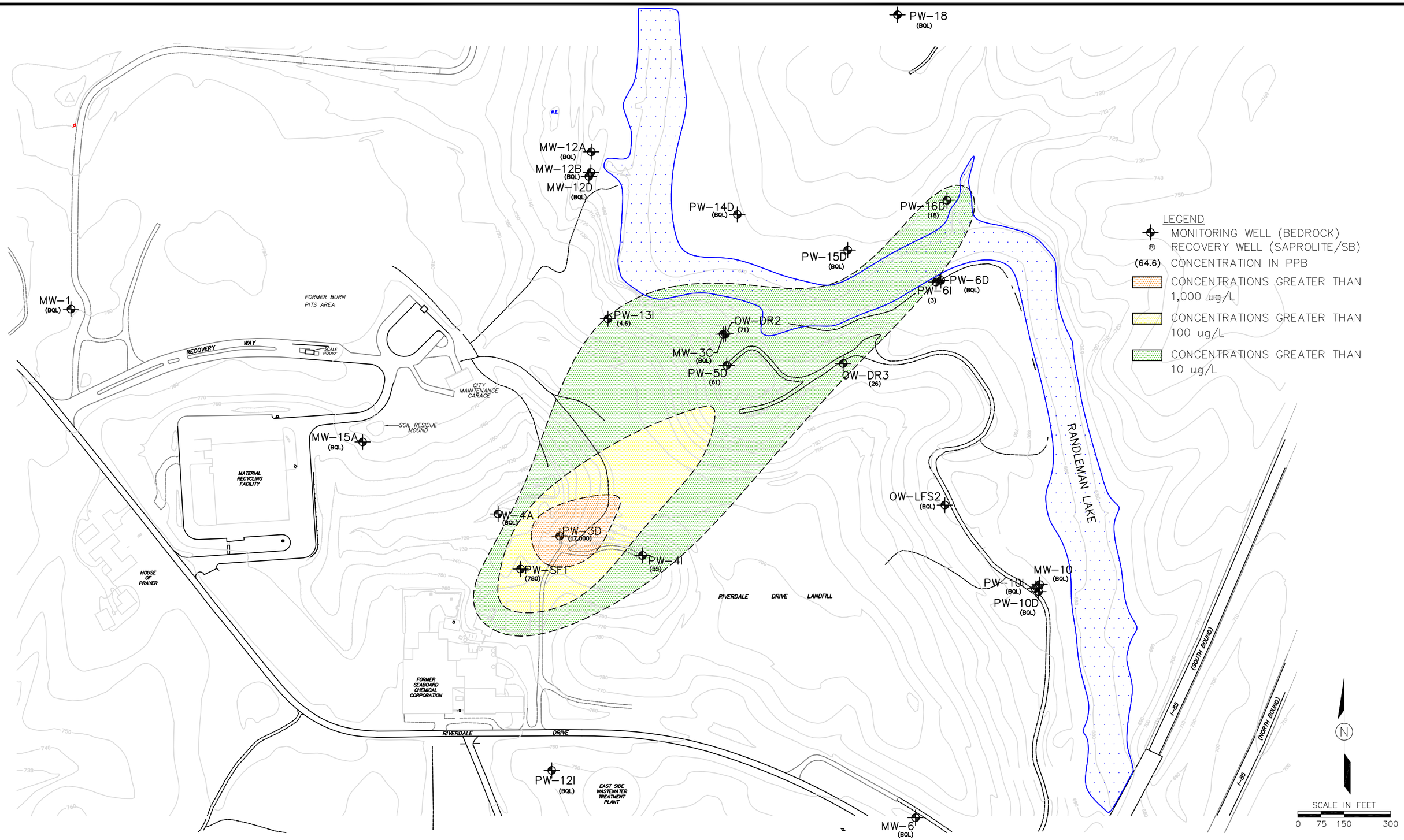
- MONITORING WELL (SAPROLITE/PWR)
- ® RECOVERY WELL (SAPROLITE/SB)

Babb & Associates, P.A.

October 2015 GROUNDWATER POTENTIOMETRIC MAP
GROUNDWATER AND SURFACE WATER SAMPLE LOCATIONS
FORMER SEABOARD CHEMICAL/RIVERDALE DRIVE LF
JAMESTOWN, NORTH CAROLINA

FIGURE 2

FIG 5A 2-09.DWG 5-1-09 1=300 JGB/AM



BASE MAP FROM BBL REMEDIAL INVESTIGATION REPORT, MARCH 1999.

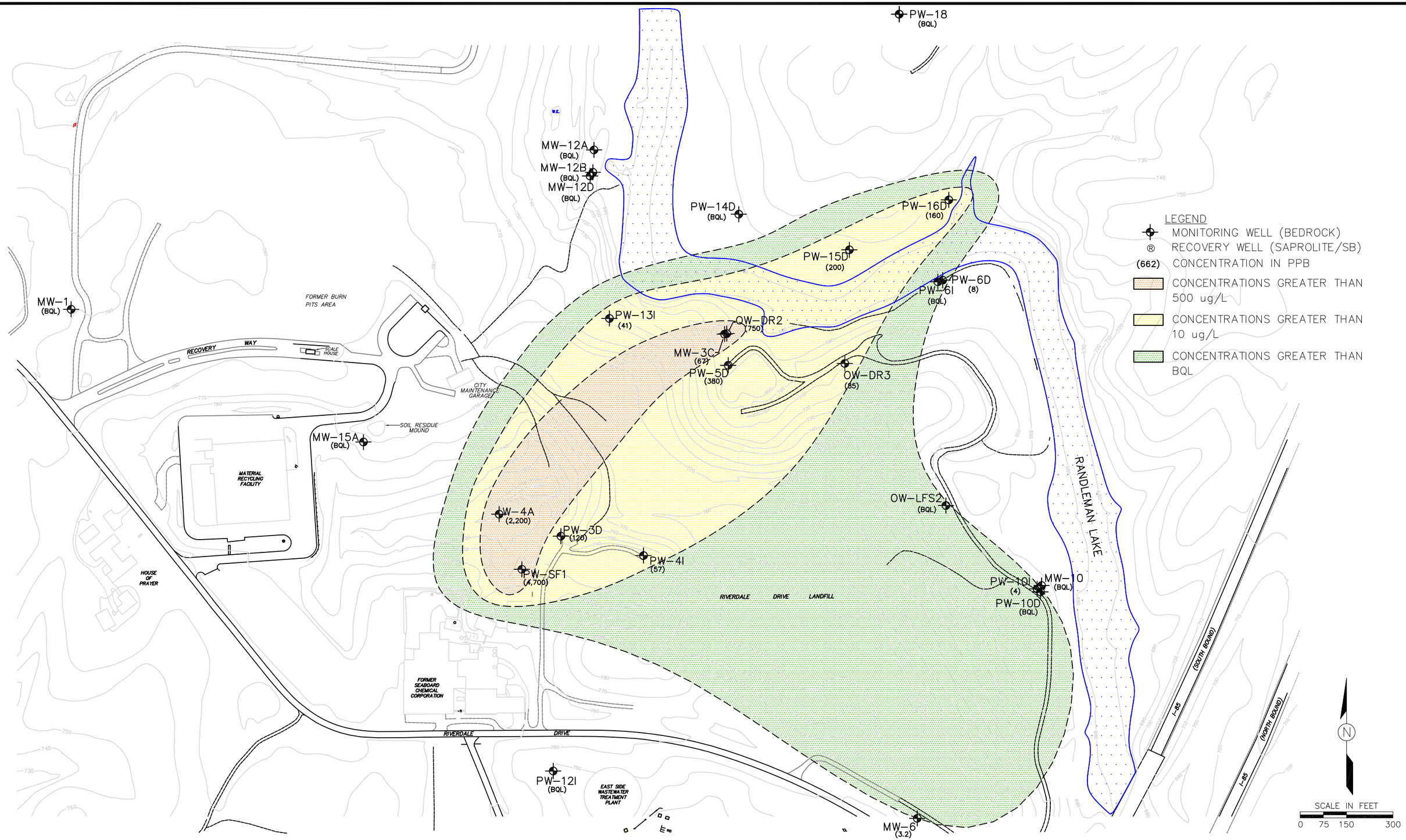
NOTE: WELLS TO BE SAMPLED SHOWN IN ENLARGED TYPE

Babb & Associates, P.A.

GROUND WATER QUALITY–BEDROCK AQUIFER
1,2–DCA – OCTOBER 2015
FORMER SEABOARD CHEMICAL/ RIVERDALE DRIVE LF
JAMESTOWN, NORTH CAROLINA

FIGURE 3

FIG 6A 2-09.DWG 5-1-09 1=300 JGB/AM



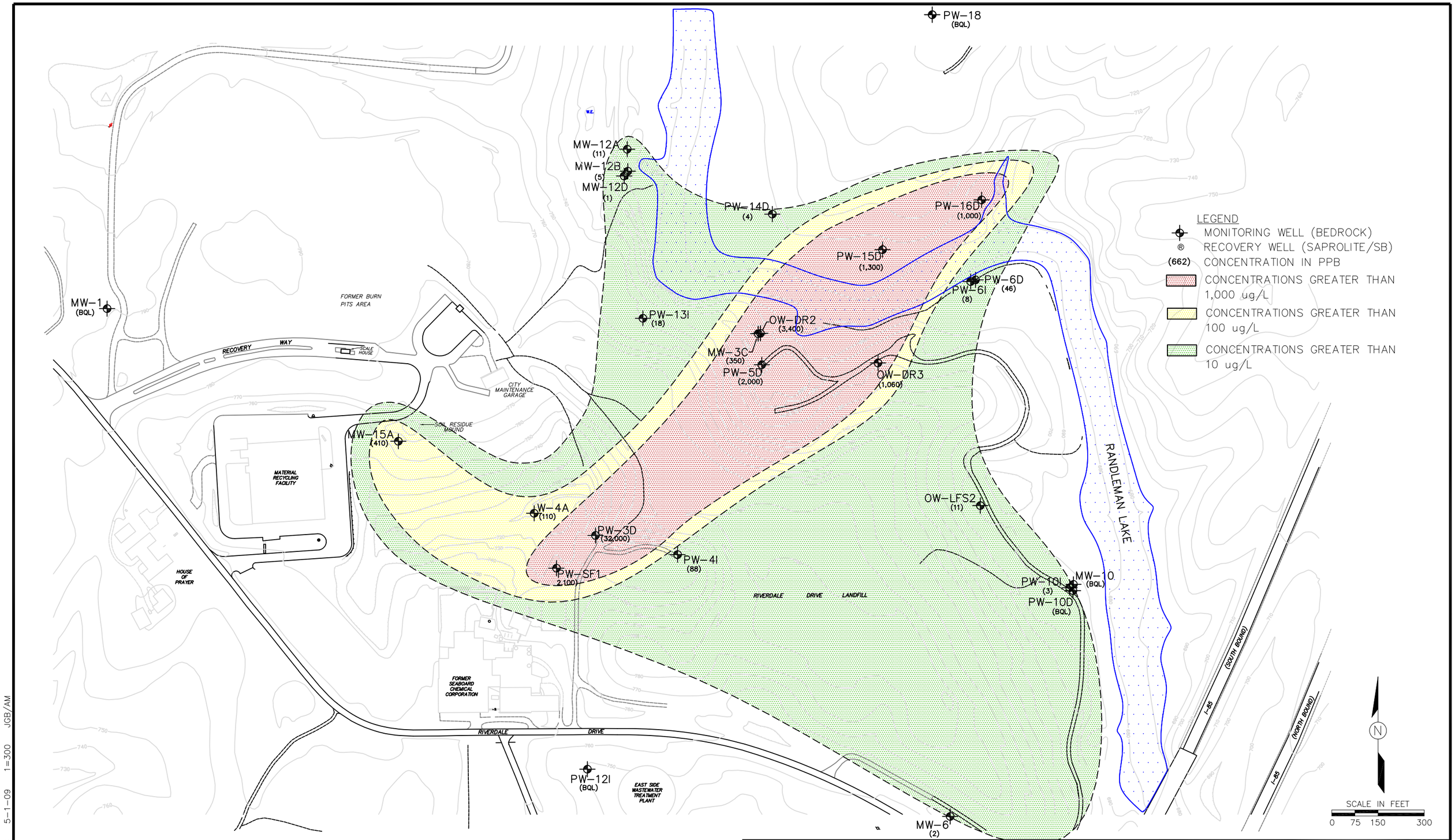
BASE MAP FROM BBL REMEDIAL INVESTIGATION REPORT, MARCH 1999.

Babb & Associates, P.A.

GROUND WATER QUALITY – BEDROCK AQUIFER
VINYL CHLORIDE–OCTOBER 2015
FORMER SEABOARD CHEMICAL/ RIVERDALE DRIVE LF
JAMESTOWN, NORTH CAROLINA

FIGURE
4

FIG 6B 2-09.DWG 5-1-09 1=300 JGB/AM



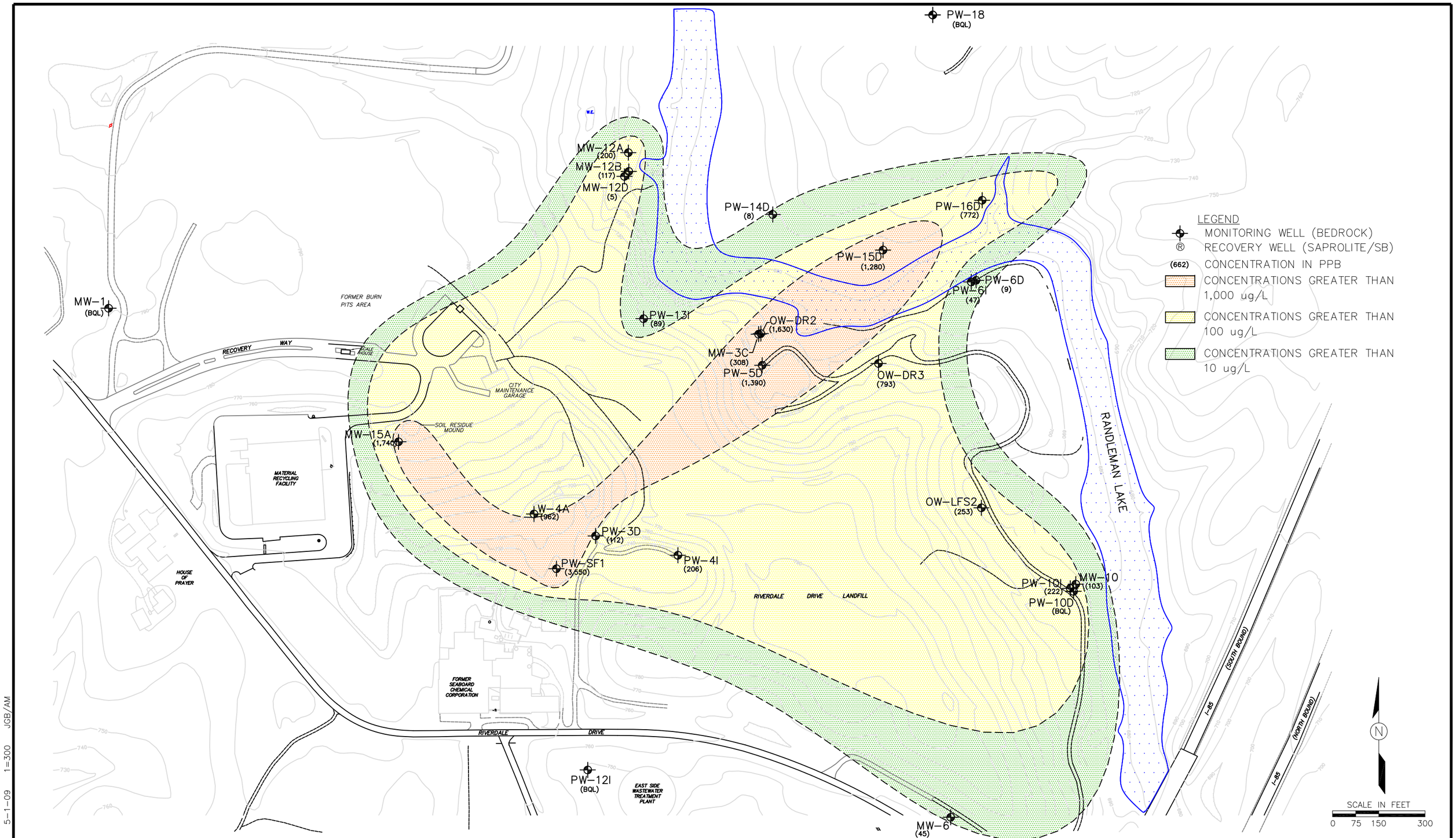
BASE MAP FROM BBL REMEDIAL INVESTIGATION REPORT, MARCH 1999.

Babb & Associates, P.A.

GROUND WATER QUALITY–BEDROCK AQUIFER
CHLOROBENZENE–OCTOBER 2015
FORMER SEABOARD CHEMICAL/ RIVERDALE DRIVE LF
JAMESTOWN, NORTH CAROLINA

FIGURE 5

FIG 6C 2-09.DWG 5-1-09 1=300 JGB/AM



BASE MAP FROM BBL REMEDIAL INVESTIGATION REPORT, MARCH 1999.

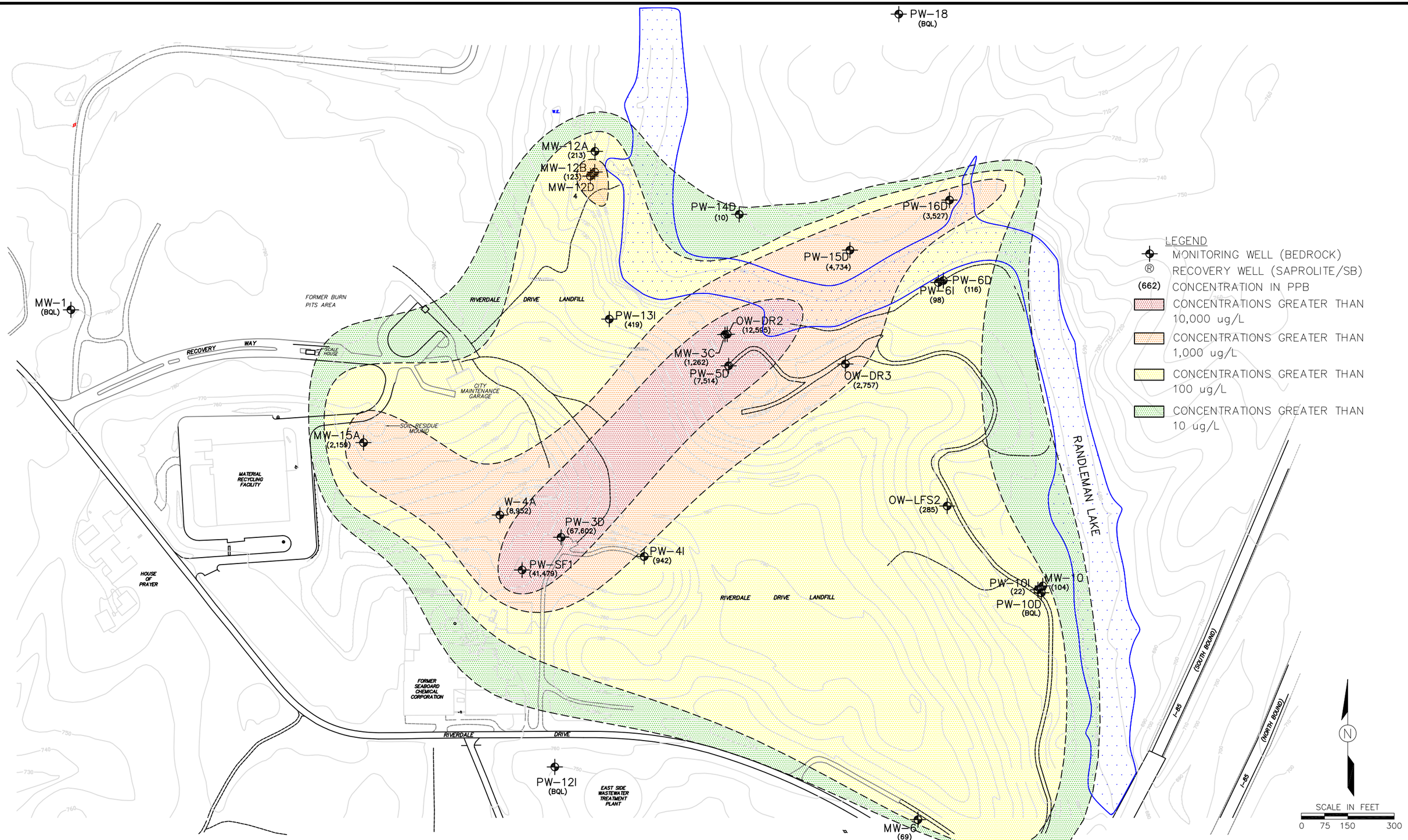
Babb & Associates, P.A.

GROUND WATER QUALITY–BEDROCK AQUIFER
1,4–DIOXANE – OCTOBER 2015

FORMER SEABOARD CHEMICAL/ RIVERDALE DRIVE LF
JAMESTOWN, NORTH CAROLINA

FIGURE
6

FIG 6D 2–09.DWG 5–1–09 1=300 JGB/AM



BASE MAP FROM BBL REMEDIAL INVESTIGATION REPORT, MARCH 1999.

Babb & Associates, P.A.

GROUND WATER QUALITY–BEDROCK AQUIFER
TOTAL VOCS–OCTOBER 2015

FORMER SEABOARD CHEMICAL/RIVERDALE DRIVE LF
JAMESTOWN, NORTH CAROLINA

FIGURE
7

FIG 6E 2-09.DWG 5-1-09 1=300 JGB/AM

TABLES

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
MW-1	57.71	47.71-57.71	743.98-733.98	789.40	791.69	11/14/2000	27.28	764.41
						9/4/2001	27.99	763.70
						9/17/2002	29.55	762.14
						9/11/2003	23.86	767.83
						8/16/2004	25.70	765.99
						12/19/2005	25.55	766.14
						8/21/2006	25.97	765.72
						9/24/2007	26.33	765.36
						2/23/2009	25.35	766.14
						3/29/2010	24.89	765.72
						11/1/2011	27.69	764.00
						11/16/2012	27.23	764.46
						12/9/2013	28.36	763.33
						12/8/2014	28.54	763.15
New Survey				788.85	790.46	10/26/2015	27.99	763.47
MW-2A	19	4-19	709.9-694.9	711.80	713.90	11/14/2000	13.46	700.44
						9/4/2001	17.43	696.47
						9/17/2002	10.25	703.65
						9/11/2003	10.60	703.30
						8/16/2004	7.83	706.07
						8/21/2006	13.04	700.86
						9/24/2007	14.17	699.73
						2/23/2009	10.67	703.23
						3/29/2010	6.11	707.79
						11/1/2011	8.18	705.72
						11/16/2012	12.90	701.00
MW-2B	30	30	681.0	711.00	712.57	11/14/2000	12.78	699.79
						9/4/2001	13.01	699.56
						9/17/2002	10.61	701.96
						9/11/2003	10.62	701.95
						8/16/2004	7.75	704.82
						8/21/2006	12.25	700.32
						9/24/2007	14.64	697.93
						2/23/2009	10.35	702.22
						3/29/2010	6.05	706.52
						11/1/2011	9.16	703.41
						1/16/2012	12.21	700.36
MW-2C	48	28-48	685.56-665.56	711.40	713.56	11/14/2000	16.12	697.44
						9/4/2001	14.02	699.54
						9/17/2002	18.41	695.15
						9/11/2003	12.78	700.78
						8/16/2004	14.80	698.76
						12/19/2005	NM	NM
						8/21/2006	17.53	696.03
						9/24/2007	16.86	696.70
						2/23/2009	14.25	699.31
						3/29/2010	10.97	702.59
						11/1/2011	14.55	699.01
						11/16/2012	15.82	697.74

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
MW-3A	27	12-27	682.4-667.4	692.74	694.40	11/14/2000	19.62	674.78
						9/4/2001	21.03	673.37
						9/17/2002	20.22	674.18
						9/11/2003	16.74	677.66
						8/16/2004	18.60	675.80
						12/19/2005	18.54	675.86
						8/21/2006	20.32	674.08
						9/24/2007	17.18	677.22
						2/23/2009	11.00	683.40
						3/29/2010	10.92	683.48
						11/1/2011	12.34	682.06
						11/16/2012	11.87	682.53
MW-3B	38.83	28.83-38.83	664.76-654.76	692.32	693.59	11/14/2000	19.46	674.13
						9/4/2001	21.00	672.59
						9/17/2002	20.00	673.59
						9/11/2003	16.32	677.27
						8/16/2004	NM	NM
						12/19/2005	18.81	674.78
						8/21/2006	20.33	673.26
						9/24/2007	16.59	677.00
						2/23/2009	8.48	685.11
						3/29/2010	8.04	685.55
						11/1/2011	11.27	682.32
						11/16/2012	11.00	682.59
MW-3C	57	47-57	647.22-637.22	691.90	694.22	11/14/2000	19.51	674.71
						9/4/2001	21.12	673.10
						8/19/2002	20.57	673.65
						9/16/2002	20.00	674.22
						9/11/2003	16.47	677.75
						8/16/2004	18.46	675.13
						12/19/2005	18.96	674.63
						8/21/2006	20.56	673.03
						9/24/2007	16.50	677.72
						2/23/2009	10.15	683.44
						3/29/2010	7.86	685.73
						11/1/2011	10.33	683.89
						11/16/2012	10.88	683.34
						12/11/2013	10.54	683.68
						12/11/2014	20.74	673.48
New Survey				692.50	692.74	10/27/2015	17.68	675.06
MW-4	30	20-30	664.72-654.72	683.20	684.72	11/14/2000	12.22	672.50
						9/4/2001	14.18	670.54
						9/16/2002	12.71	672.01
						9/11/2003	10.62	674.10
						8/16/2004	11.91	672.81
						12/19/2005	17.55	667.17
						8/21/2006	NM	NM
						9/24/2007	13.22	671.50
New TOC elevation				683.87	687.29	2/23/2009	8.02	679.27
						3/29/2010	6.25	681.04
						11/1/2011	6.48	680.81
						11/16/2012	7.01	680.28

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
MW-5	30	20-30	664.4-654.4	682.00	684.40	11/14/2000	12.89	671.51
						9/4/2001	14.69	669.71
						9/16/2002	13.81	670.59
						9/11/2003	9.23	675.17
						8/16/2004	12.05	672.35
						12/19/2005	16.59	667.81
						8/21/2006	NM	NM
						9/24/2007	13.98	670.42
New TOC elevation; survey data pending						2/23/2009	5.82	NA
						3/29/2010	4.63	NA
						11/1/2011	6.18	NA
						11/16/2012	6.61	NA
MW-6	110	100-110	661.73-651.73	759.60	761.73	11/14/2000	65.92	695.81
						9/4/2001	66.49	695.24
						9/17/2002	67.21	694.52
						9/11/2003	59.32	702.41
						8/16/2004	63.47	698.26
						12/19/2005	65.83	695.90
						8/21/2006	66.46	695.27
						9/24/2007	67.11	694.62
						2/23/2009	62.58	699.15
						3/29/2010	60.55	701.18
						11/1/2011	64.36	697.37
						11/16/2012	64.60	697.13
						12/11/2013	64.88	696.85
						12/12/2014	65.80	695.93
New Survey				759.74	761.47	10/30/2015	64.89	696.58
MW-7A	35	15-35	726.64-706.64	739.42	741.64	11/14/2000	31.10	710.54
						9/4/2001	32.34	709.30
						9/17/2002	35.73	705.91
						9/11/2003	22.61	719.03
						8/16/2004	29.02	712.62
						12/19/2005	31.13	710.51
						8/21/2006	31.19	710.45
						9/24/2007	30.55	711.09
						2/23/2009	28.23	713.41
						3/29/2010	23.65	717.99
						11/1/2011	30.61	711.03
						11/16/2012	30.60	711.04
MW-7B	68	58-68	682.16-672.16	738.50	740.16	11/14/2000	33.90	706.26
						9/4/2001	33.15	707.01
						9/17/2002	38.12	702.04
						9/11/2003	24.53	715.63
						8/16/2004	31.80	708.36
						12/19/2005	33.74	706.42
						8/21/2006	33.36	706.80
						9/24/2007	33.31	706.85
						2/23/2009	30.18	709.98
						3/29/2010	25.67	714.49
						11/1/2011	27.93	712.23
						11/16/2012	30.00	710.16

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
MW-8	33	13-33	721.16-701.16	731.80	734.16	11/14/2000	>30.70	-
						9/4/2001	>30.70	-
						9/17/2002	>30.70	-
						9/11/2003	20.49	719.67
						8/16/2004	28.35	711.81
						12/19/2005	20.22	719.94
						8/21/2006	30.81	709.35
						9/24/2007	32.89	701.27
						2/23/2009	26.39	713.77
						3/29/2010	20.51	719.65
						11/1/2011	28.85	705.31
						11/16/2012	30.96	703.20
MW-9	32	12-32	676.95-656.95	685.95	688.95	11/14/2000	12.36	
						9/4/2001	13.53	675.42
						9/16/2002	13.48	675.47
						9/11/2003	8.15	680.80
						8/16/2004	10.78	678.17
						12/19/2005	11.43	677.52
						8/21/2006	21.35	667.60
						9/24/2007	NM	NM
						2/23/2009	5.37	683.58
						3/29/2010	4.22	684.73
						11/1/2011	5.97	682.98
						11/16/2012	6.26	682.69
MW-10	28	8-28	687.62-667.62	693.60	695.62	11/14/2000	16.91	678.71
						9/4/2001	18.61	677.01
						9/16/2002	17.64	677.98
						9/11/2003	13.78	681.84
						8/16/2004	15.06	680.56
						12/19/2005	14.47	681.15
						8/21/2006	16.80	678.82
						9/24/2007	17.29	678.33
						2/23/2009	11.92	683.70
						3/29/2010	10.57	685.05
						11/1/2011	12.96	682.66
						11/16/2012	13.18	682.44
						12/10/2013	12.97	682.65
						12/10/2014	13.97	681.65
New Survey				693.24	695.01	10/26/2015	12.59	682.42
MW-11	68	53-68	695.42-680.42	746.26	748.42	11/14/2000	38.24	710.18
						9/4/2001	38.50	709.92
						8/19/2002	41.06	707.36
						9/16/2002	40.65	707.77
						9/11/2003	28.97	719.45
						8/16/2004	36.81	711.61
						12/19/2005	38.51	709.91
						8/21/2006	32.91	715.51
						9/24/2007	37.29	711.13
						2/23/2009	28.91	719.51
						3/29/2010	26.02	722.40
						11/1/2011	31.13	717.29
						11/16/2012	34.87	713.55

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
MW-12A	20	5-20	688.96-673.96	691.12	693.96	11/14/2000	15.66	678.30
						9/4/2001	15.87	678.09
						9/16/2002	15.62	678.34
						9/11/2003	11.08	682.88
						8/16/2004	14.15	679.81
						12/19/2005	11.31	682.65
						8/21/2006	14.67	679.29
						9/24/2007	13.92	680.04
						2/23/2009	11.11	682.85
						3/29/2010	9.99	683.97
						11/1/2011	9.26	684.70
						11/16/2012	11.13	682.83
						12/10/2013	9.07	684.89
						12/11/2014	11.58	682.38
New Survey				690.21	693.07	10/27/2015	11.15	681.92
MW-12B	58	48-58	647-637	691.70	695.00	11/14/2000	16.49	678.51
						9/4/2001	16.92	678.08
						9/16/2002	16.65	678.35
						9/11/2003	12.72	682.28
						8/16/2004	15.03	679.97
						12/19/2005	14.12	680.88
						8/21/2006	NM	NM
						9/24/2007	NM	NM
						2/23/2009	10.95	684.05
						3/29/2010	NM	NM
						11/1/2011	10.25	684.75
						11/16/2012	10.81	684.19
						12/10/2013	11.55	683.45
						12/11/2014	11.65	683.35
New Survey				690.75	693.86	10/27/2015	10.67	683.19
MW-12D	202	187-202	507.93-492.93	691.81	694.93	11/14/2000	>101.50	<593
						9/4/2001	48.12	646.81
						9/16/2002	47.59	647.34
						9/11/2003	46.06	648.87
						8/16/2004	NM	NM
						12/19/2005	20.80	674.13
						8/21/2006	NM	NM
						9/24/2007	14.24	680.69
						2/23/2009	9.43	685.50
						3/29/2010	12.62	682.31
						11/1/2011	13.88	681.05
						11/16/2012	43.06	651.87
						12/10/2013	25.34	669.59
						12/11/2014	43.02	651.91
New Survey				691.19	694.21	10/29/2015	21.96	672.25

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
MW-14	35	20-35	746.22-731.22	763.80	766.22	11/14/2000	28.42	737.80
						9/4/2001	29.33	736.89
						9/17/2002	NM	NM
						9/11/2003	25.38	740.84
						8/16/2004	26.16	740.06
						8/21/2006	27.98	738.24
						2/23/2009	27.27	738.95
						3/29/2010	25.71	740.51
						11/1/2011	27.86	738.36
						11/16/2012	27.61	738.61
MW-15A	34	19-34	731.34-746.34	762.5	765.34	9/4/2001	26.70	738.64
						9/17/2002	21.40	743.94
						9/11/2003	NM	NM
						8/16/2004	22.72	742.62
						12/19/2005	24.31	741.03
						8/21/2006	NM	NM
						2/23/2009	15.21	750.13
						3/29/2010	22.06	743.28
						11/1/2011	25.19	740.15
						11/16/2012	24.75	740.59
						12/10/2013	24.69	740.65
						12/8/2014	25.64	739.70
New Survey				762.57	764.33	10/27/2015	24.46	739.87
MW-16	45	30-45	749.13-734.13	779.00	779.13	11/14/2000	34.18	744.95
						9/4/2001	NM	NM
						9/17/2002	NM	NM
						9/11/2003	NM	NM
						8/16/2004	NM	NM
						12/19/2005	NM	NM
						8/21/2006	NM	NM
						2/23/2009	NM	NM
						11/16/2012	NM	NM
MW-17 (WSW-1)	250	230-250	--	--	--	12/19/2005	68.09	--
						8/21/2006	NM	NM
						2/23/2009	66.04	--
						3/29/2010	64.30	--
						11/1/2011	66.88	--
						11/16/2012	67.34	NM
MRF-1	43.5	28.5-43.5	723.31-708.31	752.10	751.81	11/14/2000	8.45	743.36
						9/4/2001	8.48	743.33
						9/17/2002	8.56	743.25
						9/11/2003	7.40	744.41
						8/16/2004	7.59	744.22
						12/19/2005	7.63	744.18
						8/21/2006	8.25	743.56
						9/24/2007	8.87	742.94
						2/23/2009	7.56	744.25
						3/29/2010	7.55	744.26
						11/1/2011	8.01	743.80
						11/16/2012	7.98	743.83

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
MRF-2	41.5	26.5-41.5	724.23-709.23	751.00	750.73	11/14/2000	26.06	724.67
						9/4/2001	26.18	724.55
						9/17/2002	26.10	724.63
						9/11/2003	24.28	726.45
						8/16/2004	24.10	726.63
						12/19/2005	24.35	726.38
						8/21/2006	25.69	725.04
						9/24/2007	25.69	725.04
						2/23/2009	25.22	725.51
						3/29/2010	24.73	726.00
						11/1/2011	25.18	725.55
						11/16/2012	25.30	725.43
OW-DR1	165	49-165	648.95-532.95	695.39	697.95	11/14/2000	23.21	674.74
						9/4/2001	24.72	673.23
						9/16/2002	23.80	674.15
						9/11/2003	20.21	677.74
						8/16/2004	22.23	675.72
						12/19/2005	22.91	675.04
						8/21/2006	24.40	673.55
						9/24/2007	20.16	677.79
						2/23/2009	13.77	684.18
						3/29/2010	11.42	686.53
						11/1/2011	13.95	684.00
						11/16/2012	14.64	683.31
OW-DR2	186	176-186	518.4-508.4	692.61	694.40	11/14/2000	19.72	674.68
						9/4/2001	21.33	673.07
						8/19/2002	20.75	673.65
						9/16/2002	20.25	674.15
						9/11/2003	16.60	677.80
						8/16/2004	18.62	675.78
						12/19/2005	19.34	675.06
						8/21/2006	20.79	673.61
						9/24/2007	16.52	677.88
						2/23/2009	10.13	684.27
						3/29/2010	7.97	686.43
						11/1/2011	10.32	684.08
						11/16/2012	10.90	683.50
						12/10/2013	10.55	683.85
						12/12/2014	27.31	667.09
New Survey				692.22	695.87	10/30/2015	13.53	682.34
OW-DR3	160	77-160	626.52-543.52	703.52	704.75	8/19/2002	30.79	663.61
						9/16/2002	30.40	664.00
						9/11/2003	27.80	666.60
						8/16/2004	29.02	665.38
						12/19/2005	30.29	664.11
						8/21/2006	31.17	663.23
						9/24/2007	26.32	678.43
						2/23/2009	20.17	684.58
						3/29/2010	18.61	686.14
						11/1/2011	20.45	684.30
						11/16/2012	20.75	684.00
						12/10/2013	20.99	683.76

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
OW-DR4	165	45 - 165	667.70-547.70	712.70	713.85	8/19/2002	40.15	673.70
						9/16/2002	39.72	674.13
						9/11/2003	36.25	677.60
						8/16/2004	38.23	675.62
						12/19/2005	38.91	674.94
						8/21/2006	40.34	673.51
						9/24/2007	35.99	677.86
						2/23/2009	29.64	684.21
						3/29/2010	22.30	691.55
						11/1/2011	29.83	684.02
						11/16/2012	30.30	683.55
OW-DR5	40	20-40	--	--	--	12/19/2005	10.50	--
						2/23/2009	NM	--
						3/29/2010	NM	--
						11/1/2011	NM	--
						11/16/2012	NM	NM
OW-NIS1	40	25-40	--	--	--	12/19/2005	10.91	--
						2/23/2009	8.40	--
						3/29/2010	7.59	--
						11/1/2011	6.40	--
						11/16/2012	7.54	
OW-SIS1	39	20-39	--	--	--	12/19/2005	24.05	--
						8/21/2006	24.08	--
						9/24/2007	23.89	--
						2/23/2009	20.89	--
						3/29/2010	17.69	--
						11/1/2011	22.98	--
						11/16/2012	22.99	
OW-SIS2	40	20-40	--	--	--	12/19/2005	5.32	--
						2/23/2009	4.32	--
						3/29/2010	3.29	--
						11/1/2011	3.74	--
						11/16/2012	7.63	
OW-SIS3	45	15-45	--	--	--	12/19/2005	5.80	--
						2/23/2009	5.67	--
						3/29/2010	3.61	--
						11/1/2011	5.22	--
						11/16/2012	7.00	
OW-SF1	120	95-120	638.15-613.15	731.06	731.06	12/19/2005	26.15	704.91
						8/21/2006	26.00	705.06
						9/24/2007	25.84	705.22
						2/23/2009	23.03	708.03
						3/29/2010	18.64	712.42
						11/1/2011	25.39	705.67
						11/16/2012	25.22	705.84
OW-SF2	120	80-120	651.05-611.05	728.87	731.05	8/21/2006	NM	NM
						9/24/2007	20.44	710.61
						2/23/2009	18.47	--
						3/29/2010	14.27	716.78
						11/1/2011	20.46	710.59
						11/16/2012	20.68	710.37

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
OW-LFS1	50	30-50	--	--	698.74	12/19/2005	17.15	681.59
						2/23/2009	14.45	684.29
						3/29/2010	13.28	685.46
						11/1/2011	14.90	683.84
						11/16/2012	15.88	682.86
OW-LFS2	50	30-50	--	--	700.08	12/19/2005	21.97	678.11
						2/23/2009	15.81	684.27
						3/29/2010	14.66	685.42
						11/1/2011	16.34	683.74
						11/16/2012	16.61	683.47
						12/11/2013	16.82	683.26
						12/12/2014	17.44	682.64
New Survey				696.69	699.45	10/26/2015	16.48	682.97
PW-DR1	185	38-185	657.21-510.21	693.62	695.21	11/14/2000	20.51	674.70
						9/4/2001	21.90	673.31
						8/19/2002	21.48	673.73
						9/16/2002	21.02	674.19
						9/11/2003	17.51	677.70
						8/16/2004	19.55	675.66
						12/19/2005	NM	--
						8/21/2006	NM	--
						9/24/2007	NM	--
						2/23/2009	NM	--
						3/29/2010	NM	--
						11/1/2011	NM	--
						11/16/2012	NM	
PW-SF1	120	95-120	638.15-613.15	732.14	733.15	8/21/2006	25.98	707.17
						9/24/2007	25.60	707.55
						2/23/2009	22.96	710.19
						3/29/2010	18.62	714.53
						11/1/2011	25.31	707.84
						11/16/2012	25.50	707.64
						12/9/2013	21.00	712.15
						12/8/2014	26.65	706.50
New Survey				731.13	732.19	10/27/2015	26.78	705.41
PW-SIS1	39	19-39	--	--	695.21	8/16/2004	NM	--
						12/19/2005	12.20	683.01
						8/21/2006	13.95	681.26
						9/24/2007	15.43	679.78
						2/23/2009	12.73	682.48
						3/29/2010	11.31	683.90
						11/1/2011	13.01	682.20
						11/16/2012	13.63	681.58
PW-1D	81.5	66.5-81.5	717.18-702.18	781.90	783.68	11/14/2000	54.92	728.76
						9/4/2001	54.60	729.08
						9/17/2002	54.65	729.03
						9/11/2003	47.49	736.19
						8/16/2004	NM	--
						12/19/2005	51.82	731.86
						8/21/2006	NM	--
						2/23/2009	49.60	734.08
						3/29/2010	47.86	735.82
						11/1/2011	50.18	733.50
						11/16/2012	50.30	733.38

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
PW-2D	101	80-100	700.55-680.55	778.80	780.55	11/14/2000	45.43	735.12
						9/4/2001	45.16	735.39
						9/17/2002	NM	--
						9/11/2003	NM	--
						8/16/2004	43.45	737.10
						12/19/2005	43.94	736.61
						8/21/2006	42.75	737.80
						9/24/2007	44.20	736.35
						2/23/2009	41.43	739.12
						3/29/2010	39.30	741.25
						11/1/2011	42.62	737.93
						11/16/2012	42.20	738.35
PW-3D	209.5	179.5-209.5	578.84-548.84	756.60	758.34	11/14/2000	56.60	701.74
						9/4/2001	NM	--
						9/16/2002	58.62	699.72
						9/11/2003	NM	--
						8/16/2004	55.55	702.79
						12/19/2005	NM	--
						8/21/2006	56.75	701.59
						2/23/2009	50.02	708.32
						3/29/2010	48.12	710.22
						11/1/2011	50.52	707.82
						11/16/2012	47.90	710.44
						12/17/2013	48.81	709.53
						12/11/2014	49.51	708.83
New Survey				737.63	738.60	10/29/2015	48.91	689.69
PW-4I	122	112-122	625.67-615.67	735.17	737.67	11/14/2000	43.39	694.28
						9/4/2001	44.73	692.94
						9/17/2002	45.94	691.73
						9/11/2003	36.04	701.63
						8/16/2004	42.31	695.36
						12/19/2005	43.27	694.40
						8/21/2006	43.11	712.03
						2/23/2009	39.35	698.32
						3/29/2010	35.56	719.58
						11/1/2011	41.23	696.44
						11/16/2012	41.49	696.18
						12/17/2013	42.03	695.64
						12/8/2014	42.62	695.05
New Survey				732.04	737.59	10/29/2015	42.10	695.49

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
PW-5D	306.5	272-282	425.87-415.87	695.07	697.87	11/14/2000	23.52	674.35
						9/4/2001	24.04	673.83
						8/19/2002	24.54	673.33
						9/16/2002	23.86	674.01
						9/11/2003	20.37	677.50
						8/16/2004	22.45	675.42
						12/19/2005	23.21	674.66
						8/21/2006	24.68	673.19
						9/24/2007	20.31	677.56
						2/23/2009	13.85	684.02
						3/29/2010	10.85	687.02
						11/1/2011	13.98	683.89
						11/16/2012	12.92	684.95
						12/16/2013	10.54	687.33
						12/11/2014	21.86	676.01
New Survey				693.96	696.27	10/30/2015	13.80	682.47
PW-6I	76	65-76	619.19-608.19	682.27	684.19	11/14/2000	11.80	672.39
						9/4/2001	13.98	670.21
						8/19/2002	12.81	671.38
						9/16/2002	12.35	671.84
						9/11/2003	11.20	672.99
						8/16/2004	12.00	672.19
						12/19/2005	16.14	668.05
						8/21/2006	NM	--
						9/24/007	NM	--
New TOC elevation				693.57	696.15	2/23/2009	14.75	681.40
						3/29/2010	11.76	684.39
						11/1/2011	13.98	682.17
						11/16/2012	14.26	669.93
						12/16/2013	14.29	681.86
New well						12/10/2014	17.43	679.98
New Survey				695.12	697.41	10/27/2015	16.15	681.26
PW-6D	275	260-275	424.77-409.77	682.22	684.77	11/14/2000	11.01	673.76
						9/4/2001	12.58	672.19
						8/19/2002	12.07	672.70
						9/16/2002	11.57	673.20
						9/11/2003	7.87	676.90
						8/16/2004	9.95	674.82
						12/19/2005	13.24	671.53
						8/21/2006	NM	--
						9/24/2007	NM	--
New TOC elevation				691.53	696.33	3/12/2009	13.05	683.28
						3/29/2010	11.84	684.49
						11/1/2011	13.34	682.99
						11/16/2012	14.03	682.30
						12/16/2013	NA	NA
New well						12/10/2014	23.56	673.23
New Survey				695.02	696.79	10/30/2015	14.53	682.26

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
PW-7I	101	90-100	594.92-584.92	683.42	684.92	11/14/2000	12.90	672.02
						9/4/2001	14.58	670.34
						6/16/2002	12.81	672.11
						8/19/2002	13.28	671.64
						9/16/2002	12.81	672.11
						9/11/2003	11.69	673.23
						8/16/2004	12.92	672.00
						12/19/2005	11.41	673.51
						8/21/2006	14.38	670.54
						9/24/2007	9.11	675.81
New TOC elevation; survey data pending						2/23/2009	2.34	NA
						3/29/2010	1.89	NA
						11/1/2011	1.85	NA
						11/16/2012	2.99	NA
PW-8S	48	35-45	728.13-718.13	761.23	763.13	11/14/2000	42.30	720.83
						9/4/2001	45.10	718.03
						9/17/2002	47.33	715.80
						9/11/2003	38.95	724.18
						8/16/2004	40.70	722.43
						12/19/2005	42.80	720.33
						8/21/2006	43.39	719.74
						9/24/2007	44.57	718.56
						2/23/2009	41.66	721.47
						3/29/2010	27.22	735.91
						11/1/2011	40.58	722.55
						11/16/2012	40.96	722.17
PW-9I	100	80-100	619.07-599.07	698.07	699.07	11/14/2000	21.80	677.27
						9/4/2001	22.95	676.12
						9/16/2002	22.74	676.33
						9/11/2003	18.04	681.03
						8/16/2004	20.50	678.57
						12/19/2005	20.79	678.28
						8/21/2006	11.75	687.32
						9/24/2007	21.14	677.93
						2/23/2009	14.18	684.89
						3/29/2010	13.50	685.57
						11/1/2011	14.61	684.46
						11/16/2012	15.18	683.89
PW-10I	100	80-100	616.44-596.44	695.34	696.44	11/14/2000	17.24	679.20
						9/4/2001	19.08	677.36
						9/16/2002	18.30	678.14
						9/11/2003	14.57	681.87
						8/16/2004	16.05	680.39
						12/19/2005	15.53	680.91
						8/21/2006	17.68	678.76
						9/24/2007	17.44	679.00
						2/23/2009	12.06	684.38
						3/29/2010	10.62	685.82
						11/1/2011	12.32	684.12
						11/16/2012	13.37	683.07
						12/11/2013	13.10	683.34
						12/10/2014	14.21	682.23
New Survey				694.63	695.97	10/29/2015	12.43	683.54

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
PW-10D	200	185-200	512.75-497.75	695.48	697.96	11/14/2000	>101.50	-
						9/4/2001	39.20	658.76
						9/16/2002	46.45	651.51
						9/11/2003	NM	NM
						8/16/2004	48.04	649.92
						12/19/2005	29.01	668.95
						8/21/2006	32.60	665.36
						9/24/2007	18.42	679.54
						2/23/2009	14.51	683.45
						3/29/2010	26.38	671.58
						11/1/2011	17.01	680.95
						11/16/2012	43.21	654.75
						12/11/2013	42.25	655.71
						12/10/2014	34.50	663.46
New Survey				695.13	697.26	11/3/2015	35.32	661.94
PW-11I	90	75-90	710.45-695.45	784.38	785.45	11/14/2000	57.55	727.90
						9/4/2001	58.00	727.45
						9/17/2002	58.77	726.68
						9/11/2003	53.81	731.64
						8/16/2004	56.23	729.22
						12/19/2005	56.65	728.80
						8/21/2006	56.73	728.72
						9/24/2007	57.25	728.20
						2/23/2009	55.90	729.55
						3/29/2010	52.60	732.85
						11/1/2011	55.01	730.44
						11/16/2012	54.90	730.55
PW-12I	105	90-105	660.54-645.54	748.07	750.54	11/14/2000	29.09	721.45
						9/4/2001	32.36	718.18
						2/16/2002	36.25	714.29
						9/16/2002	36.25	714.29
						9/11/2003	26.18	724.36
						8/16/2004	27.41	723.13
						12/19/2005	29.55	720.99
						8/23/2006	30.15	720.39
						9/24/2007	28.55	721.99
						2/23/2009	28.93	721.61
						3/29/2010	24.62	725.92
						11/1/2011	28.18	722.36
						11/16/2012	27.73	722.81
						12/16/2013	28.17	722.37
						12/12/2014	28.70	721.84
New Survey				746.99	749.48	10/30/2015	28.82	720.66

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
PW-13I	250	235-250	504.9-489.9	736.58	739.90	11/14/2000	67.65	672.25
						9/4/2001	69.68	670.22
						8/19/2002	68.50	671.40
						9/17/2002	68.12	671.78
						9/11/2003	66.59	673.31
						8/16/2004	67.52	672.38
						12/19/2005	68.51	671.39
						8/21/2006	69.64	670.26
						9/24/2007	64.70	675.20
						2/23/2009	57.31	682.59
						3/29/2010	54.65	685.25
						11/1/2011	57.33	682.57
						11/16/2012	58.05	681.85
						12/16/2013	57.20	682.70
						12/12/2014	59.52	680.38
New Survey				736.23	739.01	10/26/2015	37.69	701.32
PW-14D	198.8	183.8-198.8	505.33-490.33	686.38	689.13	10/31/2000	16.24	672.89
						12/20/2000	>150	-
						9/5/2001	76.98	612.15
						9/17/2002	64.16	624.97
						9/11/2003	6.51	682.62
						8/16/2004	56.01	633.12
						12/19/2005	67.27	621.86
						8/21/2006	37.29	651.84
						9/24/2007	62.45	626.68
						3/11/2009	37.90	651.23
						3/29/2010	29.41	659.72
						11/1/2011	17.63	671.50
						11/16/2012	32.37	656.76
						12/12/2013	56.60	632.53
						12/9/2014	63.29	625.84
New Survey				685.27	686.50	11/3/2015	72.59	613.91
PW-14S	21.5	11.5-21.5	677.09-667.09	685.96	688.59	10/30/2000	13.19	675.40
						12/20/2000	13.47	675.12
						9/5/2001	14.28	674.31
						9/17/2002	14.55	674.04
						9/11/2003	14.92	673.67
						8/16/2004	10.26	678.33
						12/19/2005	11.54	677.05
						8/21/2006	13.45	675.14
						3/11/2009	4.34	684.25
						3/29/2010	2.13	686.46
						11/1/2011	4.27	684.32
						11/16/2012	5.30	683.29

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
PW-15D	163.5	153.5-163.5	533.93-523.93	684.85	687.43	10/31/2000	13.25	674.18
						12/20/2000	13.32	674.11
						9/5/2001	14.79	672.64
						9/17/2002	13.81	673.62
						9/11/2003	10.13	677.30
						8/16/2004	12.24	675.19
						12/19/2005	13.03	674.40
						8/21/2006	15.80	671.63
						9/24/2007	9.93	677.50
						3/11/2009	3.20	684.23
						3/29/2010	2.02	685.41
						11/1/2011	3.25	684.18
						11/16/2012	4.39	683.04
						12/12/2013	4.50	682.93
						12/9/2014	8.14	679.29
New Survey				684.05	685.80	10/28/2015	4.11	681.69
PW-15S	21.5	11.5-21.5	676.71-666.71	685.88	688.21	10/30/2000	14.87	673.34
						12/20/2000	14.91	673.30
						9/5/2001	16.26	671.95
						9/17/2002	15.42	672.79
						9/11/2003	11.61	676.60
						8/16/2004	13.89	674.32
						12/19/2005	14.14	674.07
						8/21/2006	14.32	673.89
						9/24/2007	9.75	678.46
						3/11/2009	4.65	683.56
						3/29/2010	3.09	685.12
						11/1/2011	4.58	683.63
						11/16/2012	5.89	682.32
PW-16D	179	169-179	515.98-505.98	681.46	684.98	10/31/2000	10.94	674.04
						12/20/2000	10.95	674.03
						9/5/2001	12.43	672.55
						9/17/2002	11.51	673.47
						9/11/2003	7.88	677.10
						8/16/2004	9.91	675.07
						12/19/2005	10.80	674.18
						8/21/2006	12.09	672.89
						9/24/2007	11.21	673.77
New TOC elevation; survey data pending						3/11/2009	4.38	NA
						3/29/2010	3.23	NA
						11/1/2011	4.45	NA
						11/16/2012	5.65	NA
						12/12/2013	5.22	NA
						12/9/2014	7.10	NA
New Survey				684.07	686.68	10/28/2015	4.84	681.84

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
PW-16S	12.5	5.5-12.5	677.67-670.67	680.97	683.17	10/30/2000	8.00	675.17
						12/20/2000	7.39	675.78
						9/5/2001	9.82	673.35
						9/17/2002	9.65	673.52
						9/11/2003	6.56	676.61
						8/16/2004	6.79	676.38
						12/19/2005	6.21	676.96
						8/21/2006	8.44	674.73
						9/24/2007	11.83	671.34
New TOC elevation; survey data pending						3/11/2009	4.93	NA
						3/29/2010	4.10	NA
						11/1/2011	4.64	NA
						11/16/2012	5.96	NA
PW-17	100	85 - 100	686.0 - 671.0	771.0	774.7	11/14/2000	43.25	731.45
						12/20/2000	43.96	730.74
						9/5/2001	45.55	729.15
						9/16/2002	49.34	725.36
						9/11/2003	37.64	737.06
						8/16/2004	39.42	735.28
						12/19/2005	21.09	753.61
						8/21/2006	43.19	731.51
						9/24/2007	42.02	732.68
						2/23/2009	42.50	732.20
						3/29/2010	38.20	736.50
						11/1/2011	43.50	731.20
						11/16/2012	42.40	732.30
PW-18	225	210 - 225	525.4 - 510.4	735.4	737.8	11/9/2000	110.06	627.74
						12/7/2000	57.23	680.57
						12/14/2000	57.28	680.52
						12/20/2000	57.27	680.53
						9/5/2001	58.50	679.30
						9/17/2002	NM	NM
						9/11/2003	86.31?	Suspect data
						8/16/2004	53.18	684.62
						12/19/2005	NM	NM
						8/21/2006	39.32	698.48
						9/24/2007	34.56	703.24
						3/11/2009	37.43	700.37
						3/29/2010	30.22	707.58
						11/1/2011	36.15	701.65
						11/16/2012	35.04	702.76
						12/12/2013	34.75	703.05
						12/9/2014	33.80	704.00
New Survey				734.02	736.44	10/26/2015	36.68	699.76

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
PW-19	260	235-250	516.6 - 501.6	751.6	754.1	11/5/2001	75.70	678.40
						9/17/2002	60.16	693.94
						9/11/2003	94.56?	Suspect data
						9/11/2003	52.75	701.35
						8/16/2004	53.18	700.92
						12/19/2005	54.11	699.99
						8/21/2006	54.50	699.60
						9/24/007	54.15	699.95
						2/25/2009	52.18	701.92
						3/29/2010	50.65	703.45
						11/1/2011	NM	
						11/16/2012	NM	
W-1	64.7	53.7-64.7	719.05-708.05	772.20	772.75	11/14/2000	42.08	730.67
						9/4/2001	24.12	748.63
						9/17/2002	48.07	724.68
						9/11/2003	36.39	736.36
						8/16/2004	38.00	734.75
						12/19/2005	40.78	731.97
						8/21/2006	41.87	730.88
						2/23/2009	41.63	731.12
						3/29/2010	37.13	735.62
						11/1/2011	41.53	731.22
						11/16/2012	41.00	731.75
W-2	35	23-35	703-691	723.30	726.00	11/14/2000	16.51	709.49
						9/4/2001	17.33	708.67
						9/17/2002	18.35	707.65
						9/11/2003	12.62	713.38
						8/16/2004	14.05	711.95
						8/21/2006	18.56	707.44
						9/224/07	16.30	709.70
						2/23/2009	15.54	710.46
						3/29/2010	14.75	711.25
						11/1/2011	16.43	709.57
						11/16/2012	18.10	707.90
W-4	19	9-19	703.64-693.64	710.30	712.64	11/14/2000	9.49	703.15
						9/4/2001	9.84	702.80
						9/17/2002	8.57	704.07
						9/11/2003	6.71	705.93
						8/16/2004	6.28	706.36
						12/19/2005	7.74	704.90
						8/21/2006	9.09	703.55
						9/24/2007	9.94	702.70
						2/23/2009	6.22	706.42
						3/29/2010	5.80	706.84
						11/1/2011	6.69	705.95
						11/16/2012	9.35	703.29

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
W-4A	38.5	28.5-38.5	684.75-674.75	712.00	713.25	11/14/2000	9.77	703.48
						9/4/2001	10.12	703.13
						9/17/2002	9.00	704.25
						9/11/2003	7.58	705.67
						8/16/2004	6.87	706.38
						12/19/2005	6.91	706.34
						8/21/2006	9.49	703.76
						9/24/2007	10.08	703.17
						2/23/2009	6.92	706.33
						3/29/2010	5.83	707.42
						11/1/2011	6.82	706.43
						11/16/2012	9.57	703.68
						12/17/2013	7.39	705.86
						12./8/2014	14.76	698.49
New Survey				709.86	712.64	10/27/2015	9.93	702.71
W-4B	50	52.7		711.70	713.93	11/14/2000	10.71	703.22
						9/4/2001	11.11	702.82
						9/17/2002	10.27	703.66
						9/11/2003	NM	NM
						8/16/2004	7.90	706.03
						12/19/2005	7.79	706.14
						8/21/2006	10.59	703.34
						9/24/2007	11.00	702.93
						2/23/2009	6.50	707.43
						3/29/2010	5.78	708.15
						11/1/2011	7.58	706.35
						11/16/2012	10.50	703.43
W-5	60	50-60	702.06-692.06	750.86	752.06	11/14/2000	32.28	719.78
						9/4/2001	33.84	718.22
						9/17/2002	38.61	713.45
						9/11/2003	26.85	725.21
						8/16/2004	29.64	722.42
						12/19/2005	32.30	719.76
						8/21/2006	33.11	718.95
						9/24/2007	32.50	719.56
						2/23/2009	31.97	720.09
						3/29/2010	27.64	724.42
						11/1/2011	32.63	719.43
						11/16/2012	32.35	719.71
W-6	57	42-57	701.8-686.8	742.17	743.80	11/14/2000	30.43	713.37
						9/4/2001	31.59	712.21
						9/17/2002	35.47	708.33
						9/11/2003	22.78	721.02
						8/16/2004	27.95	715.85
						12/19/2005	30.36	713.44
						8/21/2006	30.81	712.99
						9/24/2007	29.86	713.94
						2/23/2009	28.53	715.27
						3/29/2010	24.32	719.48
						11/1/2011	30.13	713.67
						11/16/2012	30.15	713.65

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
W-6A	90	80-90	664.9-654.9	742.91	744.90	11/14/2000	32.45	712.45
						9/4/2001	33.70	711.20
						9/17/2002	36.67	708.23
						9/11/2003	24.62	720.28
						8/16/2004	30.20	714.70
						12/19/2005	32.51	712.39
						8/21/2006	32.85	712.05
						9/24/2007	32.15	712.75
						2/23/2009	30.39	714.51
						3/29/2010	26.17	718.73
						11/1/2011	32.99	711.91
						11/16/2012	33.17	711.73
W-6B	35	20-35	724.39-709.39	743.13	744.39	11/14/2000	29.75	714.64
						9/4/2001	30.98	713.41
						9/17/2002	33.71	710.68
						9/11/2003	22.34	722.05
						8/16/2004	27.00	717.39
						12/19/2005	29.44	714.95
						8/21/2006	29.97	714.42
						9/24/2007	28.86	715.53
						2/23/2009	27.99	716.40
						3/29/2010	23.70	720.69
						11/1/2011	28.03	716.36
						11/16/2012	27.33	717.06
W-12	60	50-60	685.84-675.84	734.14	735.84	12/19/2005	21.65	714.19
						8/21/2006	NM	NM
						9/24/2007	20.96	714.88
						2/23/2009	19.83	716.01
						3/29/2010	15.45	720.39
						11/1/2011	21.26	714.58
						11/16/2012	21.30	714.54
W-12A	25	10-25	725.74-710.74	733.62	735.74	12/19/2005	21.61	714.13
						8/21/2006	NM	NM
						9/24/2007	NM	NM
						2/23/2009	20.19	715.55
						3/29/2010	15.93	719.81
						11/1/2011	21.71	714.03
						11/16/2012	21.50	714.24
W-13	20	10-20	744.4-734.7	752.40	754.70	11/14/2000	DRY	--
						9/4/2001	DRY	--
						9/17/2002	DRY	--
						9/11/2003	24.25	730.45
						8/16/2004	14.30	740.40
						8/21/2006	DRY	--
						2/23/2009	35.97	718.73
						3/29/2010	4.30	750.40
						11/1/2011	18.61	736.09
						11/16/2012	dry	

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
W-14	23	8-23	715.9-700.9	721.3	723.90	12/19/2005	16.68	707.22
						8/21/2006	NM	NM
						9/24/2007	13.32	710.58
						2/23/2009	3.52	720.38
						3/29/2010	2.56	721.34
						11/1/2011	11.72	712.18
						11/16/2012	12.52	711.38
W-15	55	35-55	727.36-707.36	760.0	762.36	8/21/2006	NM	NM
						2/23/2009	NM	NM
						3/29/2010	NM	NM
						11/1/2011	40.96	721.40
						11/16/2012	40.27	722.09
W-16	38	28-38	714.01-704.01	739.8	742.01	9/17/2002	29.73	712.28
						9/11/2003	NM	NM
						8/16/2004	NM	NM
						8/21/2006	NM	NM
						2/23/2009	22.53	719.48
						3/29/2010	18.42	723.59
						11/1/2011	23.69	718.32
						11/16/2012	23.62	718.39
W-17	20.5	23	687.44	708.4	710.44	12/19/2005	6.97	703.47
						8/21/2006	9.40	701.04
						9/24/2007	11.00	699.44
						2/23/2009	7.80	702.64
						3/29/2010	4.62	705.82
						11/1/2011	9.86	700.58
						11/16/2012	10.20	700.24
W-18	41.5	31.5-41.5	722.21-712.21	751.4	753.71	12/19/2005	35.01	718.70
						8/21/2006	36.45	717.26
						9/24/2007	37.10	716.61
						2/23/2009	36.08	717.63
						3/29/2010	33.81	719.90
						11/1/2011	36.69	717.02
						11/16/2012	37.55	716.16
W-19	40	30-40	717.33-707.33	744.3	747.33	8/21/2006	NM	NM
						9/24/2007	29.14	718.19
						2/23/2009	28.75	718.58
						3/29/2010	24.68	722.65
						11/1/2011	29.22	718.11
						11/16/2012	29.00	718.33
W-20	10	5-10	712.24-707.24	715.14	717.24	12/19/2005	5.14	712.10
						8/21/2006	6.65	710.59
						9/24/2007	7.10	710.14
						2/23/2009	4.59	712.65
						3/29/2010	4.05	713.19
						11/1/2011	7.01	710.23
						11/16/2012	7.61	709.63

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
W-21	33.4	33.4	684.78	716.00	718.18	11/14/2000	15.73	702.45
						9/4/2001	16.41	701.77
						9/17/2002	17.15	701.03
						9/11/2003	14.00	704.18
						8/16/2004	14.94	703.24
						12/19/2005	14.18	704.00
						8/21/2006	15.59	702.59
						9/24/2007	15.91	702.27
						2/23/2009	14.60	703.58
						3/29/2010	9.48	708.70
						11/1/2011	15.02	703.16
						11/16/2012	15.70	702.48
W-23A	75	65-75	707.66-697.66	770.18	772.66	11/14/2000	41.41	731.25
						9/4/2001	42.91	729.75
						9/17/2002	45.30	727.36
						9/11/2003	31.29	741.37
						8/16/2004	38.17	734.49
						12/19/2005	42.06	730.60
						8/21/2006	40.94	731.72
						9/24/2007	42.30	730.36
						2/23/2009	40.10	732.56
						3/29/2010	36.44	736.22
						11/1/2011	41.74	730.92
						11/16/2012	41.65	731.01
W-23B	55	40-55	731.89-716.89	769.60	771.89	11/14/2000	41.00	730.89
						9/4/2001	42.37	729.52
						9/17/2002	44.54	727.35
						9/11/2003	31.29	740.60
						8/16/2004	37.45	734.44
						12/19/2005	41.29	730.60
						8/21/2006	40.42	731.47
						9/24/2007	42.57	729.32
						2/23/2009	39.55	732.34
						3/29/2010	35.74	736.15
						11/1/2011	41.01	730.88
						11/16/2012	41.40	730.49
W-24	60	45-60	721.14-706.14	765.80	766.14	11/14/2000	40.45	725.69
						9/4/2001	42.61	723.53
						9/17/2002	NM	--
						9/11/2003	NM	--
						8/16/2004	NM	--
						12/19/2005	NM	--
						8/21/2006	NM	--
						2/23/2009	NM	--
						3/29/2010	NM	--
						11/1/2011	NM	--
						11/16/2012	NM	NM

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
W-25	58	43-58	727.27-712.27	770.80	770.27	11/14/2000	40.58	729.69
						9/4/2001	42.47	727.80
						9/17/2002	46.25	724.02
						9/11/2003	35.75	734.52
						8/16/2004	NM	NM
						12/19/2005	NM	NM
						8/21/2006	NM	NM
						2/23/2009	NM	NM
						3/29/2010	NM	NM
						11/1/2011	NM	NM
						11/16/2012	NM	NM
W-26	53	38-53	721.65-706.65	759.20	759.65	11/14/2000	NM	NM
						9/4/2001	NM	NM
						9/17/2002	40.62	719.03
						9/11/2003	NM	NM
						8/16/2004	NM	NM
						8/21/2006	NM	NM
						2/23/2009	NM	NM
						3/29/2010	NM	NM
						11/1/2011	NM	NM
						11/16/2012	NM	NM
W-27	58.5	43.5-58.5	721.7-706.7	765.50	765.20	11/14/2000	39.86	725.34
						9/4/2001	41.37	723.83
						9/17/02	NM	NM
						9/11/2003	NM	NM
						8/16/2004	NM	NM
						8/21/2006	NM	NM
						2/23/2009	NM	NM
						3/29/2010	NM	NM
						11/1/2011	39.05	726.15
						11/16/2012	37.61	727.59
W-29	49.5	34.5-49.5	715.69-700.69	750.74	750.19	11/14/2000	28.22	721.97
						9/4/2001	29.68	720.51
						9/17/2002	28.01	722.18
						9/11/2003	NM	NM
						8/16/2004	NM	NM
						8/21/2006	NM	NM
						2/23/2009	NM	NM
						3/29/2010	NM	NM
						11/1/2011	NM	NM
						11/16/2012	NM	NM
W-30	53	38-53	722.77-707.77	761.00	760.77	11/14/2000	34.47	726.30
						9/4/2001	36.59	724.18
						9/17/2002	40.16	720.61
						9/11/2003	30.37	730.40
						8/16/2004	NM	NM
						12/19/2005	NM	NM
						8/21/2006	34.92	725.85
						9/24/2007	33.67	727.10
						2/23/2009	32.79	727.98
						3/29/2010	28.64	732.13
						11/1/2011	33.73	727.04
						11/16/2012	33.58	727.19

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
RW-NIS1	40	20-40	--	--	--	12/19/2005	10.51	--
						2/23/2009	9.43	--
						3/29/2010	8.72	--
						11/1/2011	3.79	--
						11/16/2012	5.57	
RW-SIS1	50	30-50	--	--	--	12/19/2005	11.59	--
						2/23/2009	NM	--
						3/29/2010	NM	--
						11/1/2011	NM	--
						11/16/2012	NM	
RW-SIS2	40	20-40	--	--	--	12/19/2005	6.48	--
						2/23/2009	7.47	--
						3/29/2010	6.98	--
						11/1/2011	6.11	--
						11/16/2012	8.84	
RW-SIS3	40	20-40	--	--	713.60	12/19/2005	6.67	706.93
						2/23/2009	5.15	708.45
						3/29/2010	4.05	709.55
						11/1/2011	4.82	708.78
						11/16/2012	5.43	708.17
RW-SIS4	45	1545	--	--	713.16	12/19/2005	4.38	708.78
						2/23/2009	9.99	703.17
						3/29/2010	2.51	710.65
						11/1/2011	4.27	708.89
						11/16/2012	4.00	709.16
RW-SIS5						12/19/2005	9.22	--
						2/23/2009	9.22	--
						3/29/2010	5.50	--
						11/1/2011	9.56	--
						11/16/2012	8.50	
RW-SIS6						12/19/2005	5.28	--
						2/23/2009	6.15	--
						3/29/2010	4.70	--
						11/1/2011	5.73	--
						11/16/2012	6.70	
RW-LFS1	50	30-50	--	-	696.44	12/19/2005	14.71	681.73
						2/23/2009	12.09	684.35
						3/29/2010	10.97	685.47
						11/1/2011	11.88	684.56
						11/16/2012	11.74	684.70
RW-LFS2	50	30-50	--	--	697.48	12/19/2005	19.39	678.09
						2/23/2009	13.16	684.32
						3/29/2010	12.05	685.43
						11/1/2011	13.49	683.99
						11/16/2012	12.96	684.52

NM = Not measured
BGL = Below ground level
MSL = Mean sea level
BTOC = Below top of well casing

TABLE 2
GROUND WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample I.D.	Sample Date	VOLATILE ORGANIC COMPOUNDS (ug/L)																								
		Total VOCs	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dioxane	Acetone	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes (total)	Other VOCs
NC 2L Standard		NE	200	-	6	7	0.4	0.6	3	6000	1	0.3	50	3,000	70	3	70	600	5	0.7	600	100	3	0.03	500	-
MW-1																										
	1/28/1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/5/2009	17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	15.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND
	3/31/2010	0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND
	11/2/2011	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3.0	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND
	11/20/2012	54	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**54.4**	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND
	1/21/2013	ND							<2.0																	
	12/9/2013	ND	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	ND
	12/8/2014	ND	<1	<1	<1	<1	<1	<1	<2	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
	10/26/2015	ND	<1	<1	<1	<1	<1	<1	<2	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
MW-2A																										
	1/24/1997	4	4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-2C																										
	1/24/1997	620	160	ND	**260**	**98.0**	**30.0**	ND	ND	ND	7 J	ND	3 J	10 J	ND	ND		ND	ND	**6 J**	ND	ND	**13.0**	**31.0**	ND	2.0
	7/15/1998	600	ND	100	**290 D**	**140**	ND	ND	ND	ND	**5.0**	ND	ND	ND	ND	ND		ND	ND	**6.0**	ND	ND	**9.0**	**50.0**	ND	ND
	2/24/2009	102	<1.0	<1.0	**41.1**	<1.0	**2.8**	<1.0	**49**	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**4.9**	<2.0	ND
MW-3A																										
	8/6/1996	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND		ND	ND	ND	ND
	1/29/1997	24	ND	ND	ND	ND	ND	ND	ND	ND	**3 J**	ND	15	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	6
MW-3B																										
	7/15/1998	139	ND	ND	ND	ND	ND	ND	**120 J**	ND	**3 J**		14	2 J	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/26/2000	186	<5	<5	<5	<5	<5	<5	**160**	NA	<5		26	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<10	ND
	9/6/2001	139	<5	<5	<5	<5	<5	<5	**126**	<10	<5		12.6	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
MW-3C																										
	8/6/1996	273	11	ND	**150**	**31**	**5.0**	ND		ND	**6**		37	ND	ND		ND	ND	2 J	**4J**	ND	ND	**14**	**13**	ND	ND
	1/28/1997	197	6	ND	**92**	**21**	**3.0**	ND	ND	ND	ND		41	14	ND		NA	ND	1 J	ND	ND	ND	**9**	**10.0**	ND	ND
	9/26/2000	138	<5	<5	**41**	7.2	<5	<5	<100	NA	<5		32	<10	<5		21	<5	<5	<5	37	<5	<5	<10	<10	ND
	9/5/2001	178	<5	<5	**22.6**	<5	<5	<5	**117**	<10	<5		24.2	<10	<5		14.6	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/18/2002	152	<5	<5	**18.4**	<5	<5	<5	**94.6**	<10	<5		27.3	<10	<5		12	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/19/2003	103	<5	<5	<5	<5	<5	<5	**90**	<10	<5		13.4	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	8/17/2004	132	<5	<5	**19.4**	<5	<5	<5	**71**	<10	<5		30.0	<10	<5		12.4	<5	<5	<5	<5	<5	<5	<10	<5	ND
	2/27/2009	589	<1.0	<1.0	**104**	**20.3**	**4.4**	<1.0	**160**	<5.0	**3.0**	<1.0	**151**	32.7	<1.0	<1.0	**70.1**	<1.0	<1.0	**1.9**	<1.0	<1.0	2.5	**39.4**	<2.0	ND
	3/30/2010	863	<1.0	<1.0	**161**	**32.4**	**6.31**	<1.0	**186**	<5.0	**3.92**	<1.0	**249**	45.7	<1.0	<1.0	**108**	<1.0	4.87	**1.71**	<1.0	<1.0	2.71	**61**	ND	ND
	11/1/2011	1,861	29.1	<0.5	**396**	**144**	**14**	<0.5	**80**	<0.5	**9.94**	<0.5	**459**	192	<0.5	<0.5	**364**	<0.5	<0.5	**3.09**	<0.5	1.15	**8.74**	**157**	<0.5	3.26
	11/20/2012	1,798	28.5	<0.5	**361**	**106**	<0.5	<0.5	**268**	<0.5	**8.73**	<0.5	**386**	150	<0.5	<0.5	**314**	<0.5	4.30	**3.83**	1.26	1.40	**8.36**	**146**	0.7	10.31
	12/11/2013	2,268	18.6	<5	**383**	**107**	**15**	<5	**549**	<50	**9**	<5	**559**	137	<5	<5	**318**	<5	<5	<5	<5	<5	<5	**173**	<5	ND
	12/11/2014	2,051	100	<1	**290**	**170**	<1	<1	**311**	<5.0	**12**	**17.0**	**330**	60	<1	<1	**620**	<1	<1	<1	<1	<1	**11**	**130**	<3	ND
	10/27/2015	1,262	66	<1	**210**	**100**	<1	<1	**308**	>50	**10**	<1	**350**	40	<1	<1	**410**	<1	<1	<1	<1	<1	9.4 J	**67**	<30	ND
MW-4																										
	1/27/1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-5																										
	2/24/2009	19	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**18.6**	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND

TABLE 2
GROUND WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample I.D.	Sample Date	Total VOCs	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dioxane	Acetone	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes (total)	Other VOCs
NC 2L Standard		NE	200	-	6	7	0.4	0.6	3	6000	1	0.3	50	3,000	70	3	70	600	5	0.7	600	100	3	0.03	500	-
MW-6																										
	1/27/1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/26/2000	ND	<5	<5	<5	<5	<5	<5	<100		<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<10	ND
	9/6/2001	40	<5	<5	<5	<5	<5	<5	**40.2**	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/19/2002	24	<5	<5	<5	<5	<5	<5	**24.4**	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	10/22/2003	16	<5	<5	<5	<5	<5	<5	**15.8**	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	8/18/2004	14	<5	<5	<5	<5	<5	<5	**13.8**	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	3/3/2009	75	<1.0	<1.0	5.9	<1.0	<1.0	<1.0	**36.8**	16.2	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	6.3	<1.0	2.4	**2.9**	<1.0	<1.0	1.6	**2.0**	<2.0	ND
	3/30/2010	73	<1.0	<1.0	**7.99**	<1.0	<1.0	<1.0	**47.9**	<5.0	<1.0	<1.0	1.21	<1.0	<1.0	<1.0	7.47	<1.0	2.51	**1.86**	<1.0	<1.0	1.44	**2.13**	ND	ND
	11/1/2011	57	<0.5	<0.5	**12.9**	1.84	<0.5	<0.5	**18.0**	<0.5	<0.5	<0.5	3.86	2.58	<0.5	<0.5	11	<0.5	<0.5	0.52	<0.5	<0.5	1.92	**3.66**	<0.5	0.63
	11/19/2012	58	<0.5	<0.5	**13.2**	<0.5	<0.5	<0.5	**19.7**	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	14	<0.5	<0.5	**1.86**	<0.5	0.68	2.46	**4.87**	<0.5	0.76
	12/11/2013	48	<5	<5	**13.8**	<5	<5	<5	**12.3**	<50	<5	<5	6.50	<5	<5	<5	16	<5	<5	<5	<5	<5	<5	<5	<10	ND
	12/12/2014	101	<1	<1	**13**	0.47 J	<1	<1	**58.4**	<5	0.96 J	<1	2.2	3.8	<1	<1	14	<1	<1	**1.9**	<1	0.65 J	1.7	**4.7**	<3	1.2
	10/30/2015	69	<1	<1	**10**	<1	<1	<1	**44.8**	<5	0.63 J	<1	2.0 J	2.2 J	<1	<1	8.3	<1	<1.0	0.99 J	<1	<1	1.2	**3.2**	<3	1.5
MW-7B																										
	3/3/2009	244,324	**2,630**	<100X	**25,800**	**10,100**	**9,760**	<100X	**28,900**	**12,000**	<100X	<100X	**39,500**	**2,450**	<100X	<100X	**36,100**	181	**48,100**	**522**	**6,020**	<100X	**251**	**15,800**	**1,740**	4,470
MW-8																										
	1/28/1997	119	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	**2 J**	96	4.0
	3/5/2009	47	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**10.8**	15.2	**6.6**	<1.0	10.8	<1.0	<1.0	<1.0	<1.0	<1.0	3.3	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND
MW-9																										
	1/28/1997	1	ND	ND	ND	ND	ND	ND	ND	ND	1 J	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND
DUP-1 (MW-9)	1/28/1997	2	ND	ND	ND	ND	ND	ND	ND	ND	**2 J**	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/26/2009	182	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	**168**	6.0	<1.0	<1.0	2.7	2.0	<1.0	<1.0	2.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND
MW-10																										
	1/27/1997	126	ND	ND	6	ND	ND	ND	**120**	ND	**2 J**		ND	ND	ND			ND	ND	ND	ND	ND	1 J	ND	ND	ND
	7/14/1998	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/26/2000	258	<5	<5	**7.6**	<5	<5	<5	**250**	NA	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<10	ND
	9/6/2001	335	<5	<5	<5	<5	<5	<5	**335**	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/19/2002	234	<5	<5	<5	<5	<5	<5	**234**	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/16/2003	221	<5	<5	<5	<5	<5	<5	**221**	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	8/19/2004	198	<5	<5	<5	<5	<5	<5	**198**	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	3/6/2009	176	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**162**	6.4	1.1	<1.0	4.1	<1.0	<1.0	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND
	3/29/2010	184	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**166**	10.6	<1.0	<1.0	3.82	1.26	<1.0	<1.0	<1.0	<1.0	2.31	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND
	11/1/2011	56	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**47**	<0.5	<0.5	<0.5	3.99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.45
	11/19/2012	148	<5	74	<5	<5	<5	<5	**74.4**	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ND
	12/10/2013	33	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**28.1**	<5	<0.5	<0.5	2.27	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	2.7
	12/10/2014	137	<1	<1	<1	<1	<1	<1	**133**	<5	<1	<1	2.6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	1.2
	10/26/2015	104	<1	<1	<1	<1	<1	<1	**103**	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	1.1
MW-11																										
	1/23/1997	84	5 J	ND	4 J	3 J	ND	ND	ND	ND	**4 J**		9	ND	ND		NA	10	ND	ND	ND	ND	ND	ND	2 J	47
	9/28/2000	298	<5	<5	<5	<5	<5	<5	**270**	NA	**8.6**		12	<10	<5		<5	<5	**7.7**	<5	<5	<5	<5	<10	<10	ND
	9/10/2001	314	<5	<5	<5	<5	<5	<5	**288**	<10	**10.6**		15.3	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/18/2002	434	<5	<5	<5	<5	<5	<5	**283**	<10	**11.1**		13.7	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	126
	9/19/2003	118	<5	<5	<5	<5	<5	<5	**94.2**	<10	**7.4**		16.8	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	8/17/2004	120	<5	<5	<5	<5	<5	<5	**94.1**	<10	**11.5**		14.4	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	3/4/2009	74	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**39.8**	11.6	**5.4**	<1.0	15.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND

TABLE 2
GROUND WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample I.D.	Sample Date	Total VOCs	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dioxane	Acetone	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes (total)	Other VOCs
NC 2L Standard		NE	200	-	6	7	0.4	0.6	3	6000	1	0.3	50	3,000	70	3	70	600	5	0.7	600	100	3	0.03	500	-
MW-12A																										
	1/23/1997	11	2 J	ND	ND	3 J	ND	ND	ND	ND	**2 J**		ND	ND	ND			ND	ND	ND	2 J	ND	2 J	ND	ND	ND
	7/10/1998	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/30/2000	ND	<5	<5	<5	<5	<5	<5	<100		<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<10	ND
	9/6/2001	12	<5	<5	<5	<5	<5	<5	<10	12.3	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/20/2002	27	<5	<5	<5	<5	<5	<5	**11.7**	14.9	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/16/2003	28	<5	<5	<5	<5	<5	<5	**11.9**	15.6	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	8/18/2004	44	<5	<5	<5	<5	<5	<5	<10	43.7	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	3/6/2009	40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	38.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND
	4/1/2010	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.50	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.09	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND
	11/2/2011	38	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**29.0**	<5	<0.5	<0.5	8.04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.61
	11/19/2012	203	<5	<5	<5	<5	<5	<5	**203**	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ND
	12/10/2013	210	<5	<5	<5	<5	<5	<5	**210**	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	ND
	12/11/2014	226	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**210**	8.3	<1.0	<1.0	5.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3	1.7
	10/27/2015	213	<1	<1	<1	<1	<1	<1	**200**	<5	<1	<1	11.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	2.2
MW-12B																										
	1/23/1997	16	6	ND	2 J	ND	ND	ND	ND	ND	ND		8.0	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND
	7/10/1998	11	ND	ND	ND	ND	ND	ND	ND	ND	ND		11	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/28/2000	567	<5	<5	<5	<5	<5	<5	**510**		<5		18	<10	<5		11.0	<5	**28**	<5	<5	<5	<5	<10	<10	ND
	9/6/2001	371	<5	<5	<5	<5	<5	<5	**359**	<10	<5		12	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/20/2002	221	<5	<5	<5	<5	<5	<5	**211**	<10	<5		10.2	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/16/2003	262	<5	<5	<5	<5	<5	<5	**250**	<10	<5		12.4	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	8/18/2004	196	<5	<5	<5	<5	<5	<5	**182**	<10	<5		13.7	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	3/4/2009	224	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**199**	17.6	<1.0	<1.0	5.8	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND
	4/9/2010	191	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**176**	12.6	<1.0	<1.0	2.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND
	11/2/2011	62	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**43**	<5	<0.5	<0.5	13.0	<0.5	<0.5	<0.5	3.6	<0.5	<0.5	<0.5	<0.5	<0.5	1.5	<0.5	<0.5	1.1
	11/19/2012	69	<10	<10	<10	<10	<10	<10	**68.5**	<100	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ND
	12/10/2013	83	<5	<5	<5	<5	<5	<5	**71.4**	<50	<5	<5	11.3	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	ND
	12/11/2014	158	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**132**	6.3	0.64 J	<1.0	12.0	<1.0	<1.0	<1.0	3.4	<1.0	<1.0	<1.0	<1.0	<1.0	0.73 J	<1.0	<3	4.2
	10/27/2015	123	<1	<1	<1	<1	<1	<1	**117**	<5	<1	<1	4.7	<1	<1	<1	1.1 J	<1	<1	<1	<1	<1	<1	<1	<3	
MW-12D																										
	9/10/1998	ND	ND		ND	ND	ND		ND	ND	ND		ND	ND	ND		NA	NA	ND	ND	ND	NA	ND	ND	ND	ND
	9/29/2000	132	<5	<5	<5	<5	<5	<5	**120**	NA	<5		<5	<10	<5		<5	<5	**12**	<5	<5	<5	<5	<10	<10	ND
	9/12/2001	54	<5	<5	<5	<5	<5	<5	**14.4**	39.6	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/20/2002	31	<5	<5	<5	<5	<5	<5	<10	21.9	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	9.5
	10/22/2003	ND	<5	<5	<5	<5	<5	<5	<10	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	3/5/2009	ND	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND
	4/1/2010	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.58	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.15	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND
	11/3/2011	11	<0.5	<0.5	0.99	<0.5	<0.5	<0.5	**3.0**	<5	<0.5	<0.5	2.22	<0.5	<0.5	<0.5	1.42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND
	11/23/2012	79	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**77.6**	<5	<0.5	<0.5	1.30	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND
	12/12/2013	ND	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND
	12/11/2014	1740	41	2.2	**29**	**41**	**770**	<1.0	**5.3**	5.3	**12**	**6.3**	**480**	<1.0	<1.0	<1.0	5	<1.0	**66**	**47**	32	<1.0	**180**	**2.2**	7.1	8.6
	10/25/2015	ND	<1	<1	<1	<1	<1	<1	4.29 J	<5	<1	<1	1.1 J	<1	<1	<1	0.49 J	<1	<1	<1	<1	<1	0.56 J	<1	<3	ND
MW-14																										
	8/6/1996	147	ND	ND	ND	ND	ND	ND		ND	ND	ND	**140**	ND	ND	ND		ND	ND	ND	ND		ND	**7 J**	ND	ND
	1/29/1997	2,118	ND	ND	1 J	ND	ND	ND	**1,700 J**	ND	**2 J**	ND	**180**	ND	ND	ND		ND	ND	ND	ND	ND	**3 J**	**7 J**	1 J	46

TABLE 2
GROUND WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample I.D.	Sample Date	Total VOCs	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dioxane	Acetone	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes (total)	Other VOCs
NC 2L Standard		NE	200	-	6	7	0.4	0.6	3	6000	1	0.3	50	3,000	70	3	70	600	5	0.7	600	100	3	0.03	500	-
MW-15A																										
	1/30/1997	2,266	ND	ND	ND	ND	ND	ND	**1,700**	ND	**9 J**	ND	**520**	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	37.0
	9/5/2001	3,157	<5	<5	<5	<5	<5	<5	**2,640**	<10	<5		**517**	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/18/2002	2,140	<5	<5	<5	<5	<5	<5	**1,500**	<10	<5		**635**	<10	<5		5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/17/2003	2,424	<25	<25	<25	<25	<25	<25	**1,910**	<50	<25		**514**	<50	<25		<25	<25	<25	<25	<25	<25	<25	<50	<25	ND
	8/18/2004	3,209	<25	<25	<25	<25	<25	<25	**2,720**	<50	<25		**489**	<50	<25		<25	<25	<25	<25	<25	<25	<25	<50	<25	ND
	3/6/2009	2,238	<1.0	<1.0	<1.0	<1.0	<1.0	**1.2**	**1,900**	<5.0	<1.0	<1.0	**335**	<1.0	<1.0	<1.0	1.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND
	3/31/2010	1,211	<1.0	<1.0	<1.0	<1.0	<1.0	**1.26**	**1,170**	<5.0	<1.0	<1.0	32.7	<1.0	<1.0	<1.0	7.48	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND
	11/2/2011	940	<0.5	<0.5	<0.5	<0.5	<0.5	**1.23**	**480**	<5	**1.27**	<0.5	**430**	<0.5	<0.5	<0.5	1.64	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.92	14.96
	11/19/2012	2,324	<10	<10	<10	<10	<10	<10	**1,920**	<100	<10	<10	**404**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ND
	12/10/2013	3,308	<5	<5	<5	<5	<5	<5	**2,950**	<50	<5	<5	**350**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	8.2
	12/9/2014	2,405	<5	<5	<5	<5	<5	<5	**1,970**	<25	<5	<5	**430**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<15	4.6
	10/27/2015	2,159	<5	<5	<5	<5	<5	<5	**1,740**	<25	<5	<5	**410**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<15	9.0
MW-15B																										
	1/30/1997	330	ND	ND	ND	ND	ND	ND	**210 J**	ND	1 J	ND	**110**	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	9.0
MW-16																										
	1/21/1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-17																										
	3/5/2009	305	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**258**	30.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.8	<1.0	<1.0	1.7	<1.0	<1.0	5.9	3.2	<2.0	ND
MRF-1																										
	1/21/1997	63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	**63.0**	ND	ND	ND
	7/13/1998	53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	**53.0**	ND	ND	ND
	2/24/2009	65	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**28.3**	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.9	<1.0	<1.0	<1.0	<1.0	<1.0	**29.9**	<1.0	<2.0	ND
MRF-2																										
	1/21/1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND
OW-NIS1																										
	3/10/2009	214	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**180**	9.9	<1.0	<1.0	20.6	<1.0	<1.0	<1.0	<1.0	<1.0	3.4	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND
OW-DR1																										
	9/28/2000	26,291	**360**	<5	**4,300**	**1,000**	**150**	<5	**2,900**		**150**		**6,600**	**3,300**	<5		**4,100**	33	**310**	**18**	420	26	**14**	**2,400**	210	ND
OW-DR2																										
	7/21/1998	11,612	**400 J**		**1,500 D**	**480 J**	ND		**3,400 J**	ND	**150**		**2,900 D**	1,100 D					ND	**40 J**	460 J		**22**	ND	250 J	910
	9/26/2000	25,240	**460**	<5	**4,200**	**1,400**	**220**	<5	**4,900**	NA	**170**		**5,600**	1,300	<5		**3,500**	25	**120**	**19**	260	**77**	**28**	**2,800**	161	ND
	9/10/2001	27,394	**695**	<5	**4,950**	**1,330**	**208**	<5	**3,450**	<10	**145**		**5,980**	1,380	<5		**5,700**	27	**107**	**36**	271	11.3	**27.8**	**2,880**	196	ND
	2/27/2009	25,306	**1,230**	7.3	**3,550**	**1,580**	**141**	**1.3**	**4,180**	46.8	**113**	<1.0	**5,380**	1,030	4.3	**41.4**	**6,320**	21.1	**41.4**	**47.2**	201	17.4	**29.5**	**1,190**	120	13.6
	3/30/2010	24,982	**1,330**	<1.0	**3,330**	**1,790**	**123**	<5.0	**3,910**	<5.0	**127**	<1.0	**5,510**	1,090	<1.0	<1.0	**6,400**	<1.0	<1.0	<1.0	182	<1.0	**<1.0**	**1,190**	ND	ND
	11/1/2011	22,265	**1,910**	<25	**3,000**	**2,050**	**121**	<25	**990**	<250	**101**	<25	**4,130**	2,350	<25	<25	**6,290**	<25	<25	<25	153	<25	<25	**1,100**	38	32.0
	11/23/2012	19,775	**1,620**	<50	**2,230**	**1,430**	<50	<50	**2,180**	<500	<50	<50	**4,810**	1,760	<50	<50	**4,650**	<50	<50	<50	177	<50	<50	**918**	<50	ND
	12/11/2013	24,766	**1,920**	<50	**2,730**	**1,920**	**120**	<50	**3,130**	<500	**154**	<50	**4,800**	1,890	<50	<50	**6,600**	<50	<50	<50	172	<50	<50	**1,330**	<100	ND
	12/12/2014	6,977	**11**	<100	**19**	**15**	**3**	<100	**2,160**	<5	**1.1**	**1.8**	**4,500**	<1.0	<1.0	<1.0	45	<100	<1.0	<100	160	<1.0	<100	**13**	48	ND
	10/30/2015	12,595	**720**	<20	**1,300**	**800**	**71**	<20	**1,630**	<100	**79.0**	<20	**3,400**	480	<20	<20	**3,200**	<20	<20	**24**	95	14 J	**22**	**750**	24 J	ND
OW-DR3																										
	9/20/2002	3,989	<5	<5	**221**	<5	**15.4**	<5	**1,050**	<10	**11.3**		**1,840**	778	<5		8.9	<5	**29.5**	<5	<5	<5	<5	**35.3**	<5	ND
	9/19/2003	2,815	<5	<5	**201**	<5	**14.7**	<5	**690**	<10	**6.1**		**1,390**	455	<5		11.1	<5	**12**	<5	<5	<5	<5	**35.5**	<5	ND
	8/24/2004	4,403	<50	<50	**452**	<50	<50	<50	**1,260**	<100	<50		**1,910**	675	<50		<50	<50	<50	<50	<50	<50	<50	**106**	<50	ND
	10/12/2004	3,438	<5	<5	**353**	<5	**14.2**	<5	**916**	<10	**6.9**		**1,480**	553	<5		26.2	<5	**11.5**	<5	<5	<5	<5	**77.1**	<5	ND
	3/4/2009	2,184	<1.0	<1.0	**251**	5.3	**25.1**	<1.0	**552**	<5.0	**3.3**	<1.0	**984**	267	<1.0	**5.8**	38.7	<1.0	**5.0**	**1.3**	2.4	<1.0	2.6	**40.6**	<2.0	ND
	11/26/2012	2,352	<0.5	<0.5	**226 J**	**14.7**	**23.3**	<0.5	**471**	<5	<0.5	<0.5	**1,020**	359	<0.5	<0.5	**73.4**	<0.5	**5.5**	**2.06**	2.16	1.21	**6.55**	**92.8**	0.61	279.57
	12/10/2013	2,757	<5	<5	**374**	**43.6**	**26.4**	<5	**793**	<50	<5	<5	**1,060**	249	<5	<5	**112.0**	<5	<5	<5	<5	<5	**7.70**	**85.3**	<10	6.30

TABLE 2
GROUND WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample I.D.	Sample Date	Total VOCs	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dioxane	Acetone	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes (total)	Other VOCs
NC 2L Standard		NE	200	-	6	7	0.4	0.6	3	6000	1	0.3	50	3,000	70	3	70	600	5	0.7	600	100	3	0.03	500	-
OW-DR4																										
	9/23/2002	20,502	1,860	<5	4,320	2,010	226	<5	1,570	<10	121		323	282	<5		7,630	5.4	27.6	55.3	27.3	11.7	66.1	1,880	86.7	ND
	9/22/2003	22,030	1,350	<50	4,850	1,860	181	<50	2,200	<100	107		562	311	<50		8,960	<50	<50	<50	<50	<50	65.4	1,530	53.5	ND
	8/24/2004	20,516	1,840	<250	4,630	2,100	298	<250	1,480	<500	<250		608	<250	<250		7,880	<250	<250	<250	<250	<250	<250	1,680	<250	ND
	10/12/2004	9,067	810	<5	3,110	1,230	167	<5	2,190	<10	77		353	<10	<5		<5	<5	<5	35.3	<5	18.8	39.3	987	50.0	ND
	10/20/2004	20,733	1,700	<250	4,480	2,240	<250	<250	2,120	<500	<250		522	<500	<250		8,030	<250	<250	<250	<250	<250	<250	1,590	51.0	ND
	2/25/2009	15,223	1,490	6.2	2,570	1,510	156	<1.0	1,300	56.0	96.4	<1.0	659	127	7.1	3.9	6,350	4.3	<1.0	44.9	12.9	17.7	96.3	677	38.5	ND
OW-SIS-1																										
	8/17/2004	9,885	1,770	6.0	768	1,580	201	<5	811	<10	95		111	<10	18.3		3,150	<5	160	215	<5	<5	774	213	12.8	ND
	3/9/2009	16,834	2,820	11.6	1,280	2,950	256	<10.0X	1,360	107	180	<10.0X	179	54.1	29.6	<10.0X	5,200	<10.0X	146	412	<10.0X	<10.0X	1,540	288	20.9	ND
OW-SIS-2																										
	2/24/2009	3,111	79.8	<1.0	579	277	26	<1.0	418	17.8	38.2	<1.0	29	14.8	<1.0	<1.0	1,030	4.9	356	3.8	36.1	2.1	3.9	167	28.2	ND
OW-SIS-3																										
	3/4/2009	41,840	9,110	14.4	4,320	4,640	172	2.7	2,540	158	167	<1.0	147	23.5	34.9	<1.0	13,600	46.2	3,330	103	132	72.6	1,620	1,400	207	ND
OW-SF1																										
	3/9/2009	57,440	2,920	48.4	4,980	5,530	1,860	<10.0X	6,670	242	89.6	<10.0X	2,160	1,840	194	<10.0X	20,400	15.7	680	437	618	40.2	1,290	7,240	185	ND
OW-LFS-1																										
	2/26/2009	782	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	723	12.8	4.5	<1.0	20.8	12.0	<1.0	<1.0	4.3	2.4	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<2.0	ND
OW-LFS-2																										
	2/26/2009	363	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	329	9.0	2.4	<1.0	9.4	3.5	<1.0	<1.0	7.1	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<2.0	ND
	3/30/2010	281	<1.0	<1.0	2.33	<1.0	<1.0	<1.0	251	<5.0	2.17	<1.0	9.92	2.74	<1.0	<1.0	11.8	<1.0	<1.0	<1.0	<1.0	<1.0	1.15	<1.0	ND	ND
	11/1/2011	110	<0.5	<0.5	3.23	<0.5	<0.5	<0.5	65	<5	4.52	<0.5	10.1	1.90	<0.5	<0.5	20.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	<0.5	3.5
	11/19/2012	276	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	274	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND
	12/11/2013	421	<5	<5	<5	<5	<5	<5	391	<50	<5	<5	<5	<5	<5	<5	29.6	<5	<5	<5	<5	<5	<5	<5	<10	ND
	12/12/2014	306	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	255	8.1	6.2	<1.0	15	3.8	<1.0	<1.0	12	<1.0	<1.0	<1.0	0.48 J	<1.0	0.54 J	1.7	0.75 J	3.7
	10/26/2015	285	<1.0	<1.0	1.8 J	<1.0	<1.0	<1.0	253	<5	4.5	<1.0	11	<1.0	<1.0	<1.0	13	<1.0	<1.0	<1.0	<1.0	<1.0	0.93 J	<1.0	0.45 J	3.4
PW-1D																										
	1/24/1997	659	ND	ND	1 J	1 J	ND	ND	530 J	ND	ND	7	ND	ND	ND	ND		ND	ND	ND	ND	ND	120	ND	ND	ND
	7/15/1998	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	110	ND	ND	ND
PW-2D																										
	2/7/1997	28	ND	ND	10	ND	ND	ND	ND	10 J	ND	ND	ND	4 J	ND	ND		ND	4 J	ND	ND	ND	ND	ND	ND	ND
	7/18/1998	11	ND	ND	9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	2 J	ND	ND	ND	ND	ND	ND	ND
	2/26/2009	21	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	19.5	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND
PW-3D																										
	2/7/1997	42,680	4,100	ND	370 J	790	15,000	ND	ND	ND	260 J	ND	16,000	ND	ND	ND		ND	1,300	990	740	ND	3,600	ND	ND	160
	7/17/1998	21,462	ND	650 D	ND	520 J	8,100 D	ND	ND	ND	160	ND	8,600	3 J	2 J	ND		13	680	610 D	ND	ND	2,000 D	54.0	49.0	21.0
	4/9/2010	22,149	<1.0	<1.0	393	82.5	8,840	<1.0	39.8	18.4	5.46	<1.0	174	<1.0	<1.0	<1.0	36.1	<1.0	99.1	137.0	7.72	<1.0	419	11.6	ND	ND
	11/3/2011	damaged																								
	11/27/2012	8,532	54	<50	293	203	4,830	<50	55.0	<500	<50	<50	2,150	<50	<50	<50	54.0	<50	<50	222	82	<50	589	<50	<50	ND
	12/17/2013	27,696	993	9.0	491	1,180	12,800	<5	19.5	<50	137	<5	7,250	<5	<5	<5	59.4	<5	979	723	338	<5	2,540	58.4	12.3	106.5
	12/11/2014	73,348	1,500	<200	610	2,800	14,000	<200	67.6	<100	310	240	32,000	<200	<200	<200	100	<200	1,100	8,900	1,300	<200	9,300	150	180	790
	10/29/2015	67,602	2,300	<200	660	2,100	17,000	<200	112.0	<1000	350	<200	32,000	<200	<200	<200	380	86 J	1,000	3,300	1,400	<200	7,000	120 J	>600	160 J

TABLE 2
GROUND WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample I.D.	Sample Date	Total VOCs	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dioxane	Acetone	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes (total)	Other VOCs
NC 2L Standard		NE	200	-	6	7	0.4	0.6	3	6000	1	0.3	50	3,000	70	3	70	600	5	0.7	600	100	3	0.03	500	-
PW-4I																										
	1/29/1997	1,086	19.0	ND	440	19.0	280	ND	ND	ND	3 J		210	10 J	ND			ND	ND	4 J	4 J	ND	7 J	100	4 J	ND
	7/13/1998	1,012	ND	ND	240 D	26 J	200 D	ND	ND	ND	3 J		110 J	ND	ND		140 J	ND	ND	10 J	2 J	ND	11 J	130 DJ	ND	140
	9/26/2000	1,063	37.0	<5	290	28.0	200	<5	<100		<5		160	<10	<5		190	<5	<5	8	<5	<5	30	120	<10	ND
	9/12/2001	1,532	47.8	<5	378	49.2	256	<5	108	<10	<5		211	<10	<5		277	<5	<5	30.6	<5	<5	47.4	127	<5	ND
	9/19/2002	1,861	55.8	<15	451	64	306	<15	156	<30	<15		253	<30	<15		336	<15	<15	33.7	<15	<15	53.1	152	<15	ND
	10/22/2003	1,781	95.3	<5	340	84	247	<5	232	<10	<5		228	<10	<5		361	<5	<5	18.7	<5	<5	27.5	147	<5	ND
	8/26/2004	1,997	78.1	<20	359	78.9	409	<20	215	<40	<20		266	<40	<20		357	<20	<20	39.9	<20	<20	50.6	143	<20	ND
	3/5/2009	1,441	45.2	<2.0X	227	66.5	192	<2.0X	204	15.4	<2.0X	<2.0X	172	6.4	<2.0X	<2.0X	288	<2.0X	<2.0X	51.4	<2.0X	<2.0X	67.2	106	<4.0X	ND
	4/2/2010	1,143	<1.0	<1.0	220	38.8	178	<1.0	224	8.12	2.32	<1.0	132	3.78	<1.0	<1.0	195	<1.0	3.19	21.3	<1.0	<1.0	28.5	87.6	ND	ND
	11/2/2011	1,077	456	<5	8.84	48.7	101	<5	44	<50	<5	<5	74.2	<5	<5	<5	204	<5	<5	17.3	<5	<5	118	4.99	<5	ND
	11/20/2012	1,086	28.9	<0.5	122	65.5	135	<0.5	175	<50	<5	<5	84.3	<5	<5	<5	276	<5	<5	30	<5	<5	87.8	81.3	<5	ND
	12/17/2013	1,276	62.2	<5	134	67.1	139	<5	143	<50	<5	<5	82.4	<5	<5	<5	406	<5	<5	9.4	<5	<5	110	123	<10	ND
	12/8/2014	864	35	<5	73	48	87	<5	196	<25	<5	<5	63	3.1 J	<5	<5	210	<5	<5	28	<5	<5	74	50	<15	ND
	10/29/2015	942	33	<2	75	43	55	<2	206	<10	2.0	<2	88	<2	<2	<2	240	<2	<2	44	<2	1.3 J	95	57	<6	3.9
PW-5D																										
	1/30/1997	426	ND	ND	20.0	ND	2.0	ND	ND	76.0	2 J		140	33.0	8.0		NA	ND	26	ND	10	ND	ND	18	ND	91
	7/14/1998	6,293	96 J	ND	550 D	ND	38.0	ND	1,300	ND	61 J		3,800	ND	ND		22.0	19 J	ND	9 J	260 D	3 J	5 J	ND	99 J	31
	9/26/2000	13,327	360	<5	2,400	500	150	<5	2,300		110		4,300	220	<5		1,600	21	6.3	17	180	31	28	1,000	104	ND
	9/10/2001	13,445	437	<5	2,310	534	168	<5	1,680	<10	90.6		4,110	156	<5		2,280	19.3	11.1	31.7	205	6.6	30.8	1,270	105	ND
	9/23/2002	14,201	552	<5	2,500	694	211	<5	1,920	<10	90.1		3,460	190	<5		2,900	16.9	6	27.6	169	7.5	26.2	1,330	101	ND
	9/19/2003	753	<5	<5	57.6	<5	<5	<5	412	110.0	<5		164	<10	<5		9	<5	<5	<5	<5	<5	<5	<10	<5	ND
	8/18/2004	12,945	534	<5	2,360	757	177	<5	1,260	<10	78.0		3,240	<10	<5		2,980	15.6	<5	32.1	131	<5	15.7	1,280	85	ND
	10/12/2004	6,457	166	<5	842	235	57.4	<5	2,420	33.4	31.6		1,240	<10	<5		921	5.7	<5	9.5	44.0	<5	5.8	417	28.4	ND
	2/27/2009	14,465	638	5.7	1,900	885	178	<1.0	2,390	36.4	83.4	<1.0	3,110	119	3.5	22.8	4,120	14.8	<1.0	38.3	131	12.1	26.4	672	78.7	ND
	3/30/2010	12,428	481	<20.0	1,760	771	102	<20.0	2,170	<100	71.4	<20	3,070	210	<20.0	<20.0	3,040	<20.0	<20.0	<20.0	109	<20.0	<20.0	644	ND	ND
	11/3/2011	11,290	895	<50	1,760	925	103	<50	580	<500	<50	<50	2,440	488	<50	<50	3,450	<50	<50	<50	<50	<50	<50	649	<50	ND
	11/23/2012	11,845	792	<5	1,290	896	109	<5	1,710	<50	51.9	<5	2,000	302	<5	<5	3,850	<5	<5	21.5	101	<5	22.2	602	49.8	47.6
	12/16/2013	19,821	1,550	<5	2,200	2,200	181	<5	3,760	<50	121.0	<5	2,960	509	7.2	<5	5,300	<5	<5	<5	<5	29.7	<5	920	57.6	25.5
	12/10/2014	18,168	860	<100	1,800	1,700	340	<100	1,740	<100	100.0	120	5,200	350	<100	<100	4,400	<100	<100	100	<100	160	<100	1,000	58	240
	10/30/2015	7,514	280	<20	870	490	61	<20	1,390	<100	46.0	<20	2,000	52	<20	<20	1,900	<20	<20	14 J	45	8.8 J	9.2 J	380	13 J	ND
PW-6D																										
	7/21/1998	ND	ND		ND	ND	ND		ND	ND	ND		ND	ND					ND	ND	ND		ND	ND	ND	ND
	10/2/2000	ND	<5	<5	<5	<5	<5	<5	<100	NA	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<10	ND
	9/12/2001	ND	<5	<5	<5	<5	<5	<5	<10	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/19/2002	ND	<5	<5	<5	<5	<5	<5	<10	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	10/20/2003	ND	<5	<5	<5	<5	<5	<5	<10	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	8/25/2004	ND	<5	<5	<5	<5	<5	<5	<10	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	3/18/2009	3.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.8	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND
	3/31/2010	31.3	<1.0	<1.0	4.9	<1.0	<1.0	<1.0	5.70	<5.0	<1.0	<1.0	15.5	<1.0	<1.0	<1.0	3.24	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.0	ND	ND
	11/3/2011	damaged																								
	11/21/2012	damaged																								
	12/10/2013	damaged																								
new well	12/10/2014	266	3.2	<1	41	16	<1	<1	43.2	<5	1.7	<1	90	<1	<1	<1	48	<1	<1	0.53 J	1.1	<1	<1	20.0	1.5	ND
	10/30/2015	116	2.7	<1	20	8.6	<1	<1	8.85 J	<5	0.9 J	<1	46	3.0 J	<1	<1	31	<1	<1	<1	<1	<1	<1	7.9	<3	ND

TABLE 2
GROUND WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample I.D.	Sample Date	Total VOCs	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dioxane	Acetone	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes (total)	Other VOCs
NC 2L Standard		NE	200	-	6	7	0.4	0.6	3	6000	1	0.3	50	3,000	70	3	70	600	5	0.7	600	100	3	0.03	500	-
PW-6I																										
	1/28/1997	33	ND	ND	**11**	ND	**1 J**	ND	ND	ND	ND		14	4 J	ND			ND	1 J	ND	ND	ND	2 J	ND	ND	ND
	7/14/1998	46	ND	ND	**10**	ND	ND	ND	ND	ND	ND		14	4 J	ND		5	ND	ND	**5**	ND	ND	**3 J**	ND	ND	5
	9/26/2000	29	<5	<5	**12**	<5	<5	<5	<100		<5		8.4	<10	<5		8.3	<5	<5	<5	<5	<5	<5	<10	<10	ND
	9/12/2001	28	<5	<5	**10.7**	<5	<5	<5	<10	<10	<5		7.2	<10	<5		9.9	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/19/2002	31	<5	<5	**12.2**	<5	<5	<5	<10	<10	<5		9.0	<10	<5		9.8	<5	<5	<5	<5	<5	<5	<10	<5	ND
	10/20/2003	47	<5	<5	**12.1**	<5	<5	<5	**11.6**	<10	<5		9.9	<10	<5		13	<5	<5	<5	<5	<5	<5	<10	<5	ND
	8/25/2004	42	<5	<5	**10.6**	<5	<5	<5	**11.7**	<10	<5		6.2	<10	<5		13.0	<5	<5	<5	<5	<5	<5	<10	<5	ND
	3/4/2009	8.2	<1.0	<1.0	**<1.0**	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.0	<1.0	2.4	<1.0	3.8	<1.0	<1.0	<1.0	<2.0	ND
	3/31/2010	143.1	<1.0	<1.0	**32**	1.63	**3.47**	<1.0	**22.5**	<5.0	<1.0	<1.0	35.7	10.3	<1.0	<1.0	**25.2**	<1.0	<1.0	1.56	<1.0	<1.0	2.81	7.88	ND	ND
	11/3/2011	damaged																								
	11/21/2012	damaged																								
	12/10/2013	damaged																								
new well	12/10/2014	115	0.41 J	<1	**26**	2.2	<1	<1	**47.9**	<5	<1	<1	2.2	<1	<1	<1	24	<1	1.1	0.7 J	0.7 J	<1	1.1	**3.3**	4.8	1.9
	10/27/2015	98	<1	<1	**20**	1.1 J	**3**	<1	**46.7**	<5	<1	<1	7.6	<1	<1	<1	18	<1	<1	0.74 J	<1	<1	1.4	<1	<3	1.1
PW-7I																										
	2/6/1997	11	ND	ND	2 J	ND	ND	ND	ND	7 J	ND		1 J	ND	ND			ND	ND	ND	ND	ND	1 J	ND	ND	ND
	7/17/1998	443	86	ND	**16**	**37**	**23**	ND	ND	ND	**2 J**		**77**	ND	ND		50	ND	ND	**65**	9	ND	**21**	**4 J**	3 J	50
	9/28/2000	99	<5	<5	**9.2**	**15**	**7.2**	<5	<100	NA	<5		18	<10	<5		36	<5	**14**	<5	<5	<5	<5	<10	<10	ND
	9/12/2001	158	<5	<5	<5	<5	<5	<5	**150**	<10	<5		8.1	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/20/2002	139	<5	<5	<5	<5	<5	<5	**126**	<10	<5		7.7	<10	<5		5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	10/22/2003	161	<5	<5	<5	<5	<5	<5	**144**	<10	<5		9.8	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	6.8
	8/25/2004	199	<5	<5	<5	<5	<5	<5	**191**	<10	<5		8.4	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	3/4/2009	75	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**50.5**	6.8	<1.0	<1.0	11.8	<1.0	<1.0	<1.0	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	1.8	ND
PW-8S																										
	1/28/1997	670	ND	ND	ND	ND	ND	ND	ND	670 J	ND		ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND
	7/13/1998	17	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		7	ND	ND	ND	ND	ND	ND	ND	ND	10
	9/27/2000	7.7	<5	<5	<5	<5	<5	<5	<100		<5		<5	<10	<5		7.7	<5	<5	<5	<5	<5	<5	<10	<10	ND
	9/6/2001	37	<5	<5	<5	<5	<5	<5	**14.5**	<10	<5		6.1	<10	<5		8.1	<5	<5	<5	<5	<5	<5	<10	<5	8.7
	9/17/2003	180	<5	<5	<5	<5	<5	<5	<10	163	<5		11.3	<10	<5		6.0	<5	<5	<5	<5	<5	<5	<10	<5	ND
	8/17/2004	7.7	<5	<5	<5	<5	<5	<5	<10	<10	<5		7.7	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	3/3/2009	53	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	41.3	<1.0	<1.0	9.2	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND
PW-9I																										
	1/30/1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND
	7/17/1998	50	ND	ND	ND	ND	ND	ND	ND	50 J	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/12/2009	97	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**95.2**	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND
PW-10D																										
	9/10/1998	15.0	ND	ND	6.0	ND	ND	ND	ND	ND	ND		ND	9 J	NA		NA	NA	ND	ND	ND		ND	ND	ND	ND
	9/26/2000	ND	<5	<5	<5	<5	<5	<5	<100	NA	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<10	ND
	9/12/2001	11	<5	<5	<5	<5	<5	<5	**10.8**	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/19/2002	10.4	<5	<5	<5	<5	<5	<5	<10	10.4	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/19/2003	ND	<5	<5	<5	<5	<5	<5	<10	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	8/17/2004	ND	<5	<5	<5	<5	<5	<5	<10	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	2/26/2009	31	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	<2.0	29.0
	3/29/2010	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.37	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND
	11/1/2011	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3.0	<5	<0.5	<0.5	1.56	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.72	<0.5	<0.5	<0.5	<0.5	ND
	11/21/2012	ND	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND
	12/11/2013	ND	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	ND
	12/10/2014	ND	<1	<1	<1	<1	<1	<1	1.7 J	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.8 J	ND
	11/3/2015	ND	<1	<1	<1	<1	<1	<1	<2	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND

TABLE 2
GROUND WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample I.D.	Sample Date	Total VOCs	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dioxane	Acetone	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes (total)	Other VOCs
NC 2L Standard		NE	200	-	6	7	0.4	0.6	3	6000	1	0.3	50	3,000	70	3	70	600	5	0.7	600	100	3	0.03	500	-
PW-10I																										
	1/27/1997	7.0	ND	ND	6	ND	ND	ND	ND	ND	ND		ND	ND	ND			ND	1 J	ND	ND	ND	ND	ND	ND	ND
	7/10/1998	8.0	ND	ND	**8**	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/26/2000	14	<5	<5	**14**	<5	<5	<5	<100	NA	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<10	ND
	9/11/2001	44	<5	<5	**12.9**	<5	<5	<5	**31.4**	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/19/2002	39	<5	<5	<5	<5	<5	<5	**14.7**	24.6	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/18/2003	126	<5	<5	17	<5	<5	<5	**109**	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	8/17/2004	83	<5	<5	**16.7**	<5	<5	<5	**61.3**	<10	<5		<5	<10	<5		5.0	<5	<5	<5	<5	<5	<5	<10	<5	ND
	3/12/2009	150	<1.0	<1.0	**12.7**	<1.0	<1.0	<1.0	**115**	13.8	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	5.2	<1.0	1.1	<1.0	<1.0	<1.0	1.1	<1.0	<2.0	ND
	3/29/2010	229	<1.0	<1.0	**12.6**	<1.0	<1.0	<1.0	**206**	<5.0	<1.0	<1.0	1.38	1.96	<1.0	<1.0	4.86	<1.0	1.49	<1.0	<1.0	<1.0	<1.0	**1.14**	ND	ND
	11/1/2011	78	<0.5	<0.5	**21.7**	1.65	<0.5	<0.5	**36**	<5	<0.5	<0.5	1.95	3.73	<0.5	<0.5	8.64	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**3.18**	<0.5	1.45
	11/19/2012	440	220	<5	**25.9**	<5	<5	<5	**183**	<50	<5	<5	<5	<5	<5	<5	11.4	<5	<5	<5	<5	<5	<5	<5	<5	ND
	12/11/2013	276	<5	<5	**19.5**	<5	<5	<5	**249**	<50	<5	<5	<5	<5	<5	<5	7.7	<5	<5	<5	<5	<5	<5	<5	<10	ND
	12/10/2014	243	<1	<1	**18**	0.55 J	<1	<1	**205**	<5	0.45 J	<1	2.3	5.1	<1	<1	6.2	<1	<1	<1	<1	<1	<1	**4.4**	<3	1.6
	10/29/2015	22	<1	<1	**16**	<1	<1	<1	**222**	<5	0.57 J	<1	2.7 J	3.3 J	<1	<1	4.2 J	<1	<1	<1	<1	<1	<1	**3.9**	<3	2.3
PW-11I																										
	7/22/1997	458	ND	ND	ND	ND	ND	**8 J**	ND	ND	ND		ND	ND	ND			ND	ND	ND	ND	ND	**450**	ND	ND	ND
	7/16/1998	354	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		47	ND	ND	ND	ND	ND	**260 D**	ND	ND	47
	9/29/2000	156	<5	<5	<5	<5	<5	<5	<100	NA	<5		<5	<10	<5		26	<5	<5	<5	<5	<5	**130**	<10	<10	ND
	9/11/2001	254	<5	<5	<5	<5	<5	<5	**14.3**	<10	<5		<5	<10	<5		34.8	<5	<5	<5	<5	<5	**205**	<10	<5	ND
	9/18/2002	274	<5	<5	<5	<5	<5	<5	**22.3**	<10	<5		<5	<10	<5		38.1	<5	<5	<5	<5	<5	**214**	<10	<5	ND
	9/23/2003	516	<10	<10	<10	<10	<10	<10	**50.3**	<20	<10		<10	<20	<10		**87.3**	<10	<10	<10	<10	<10	**378**	<20	<10	ND
	8/25/2004	365	<10	<10	**21.5**	<10	<10	<10	**31.3**	<20	<10		<10	<20	<10		**82.7**	<10	<10	<10	<10	<10	**229**	<20	<10	ND
	3/5/2009	224	<1.0	<1.0	<1.0	<1.0	<1.0	**1.7**	**13.2**	8.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	36.2	<1.0	2.5	<1.0	<1.0	<1.0	**162**	<1.0	<5.0	ND
PW-12I																										
	7/22/1997	8.0	ND	ND	ND	ND	ND	ND	ND	6 J	ND		ND	ND	ND			ND	2 J	ND	ND	ND	ND	ND	ND	ND
	7/16/1998	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/2/2000	ND	<5	<5	<5	<5	<5	<5	<100	NA	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<10	ND
	9/12/2001	1.0	<5	<5	<5	<5	<5	<5	1.0	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/19/2002	ND	<5	<5	<5	<5	<5	<5	<10	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	10/22/2003	ND	<5	<5	<5	<5	<5	<5	<10	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/17/2004	ND	<5	<5	<5	<5	<5	<5	<10	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	8/29/2006	ND	<1	<1	<1	<1	<1	<1	<2	<5	<1		<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<2	ND
	9/27/2007	ND	<1	<1	<1	<1	<1	<1	<2	<5	<1		<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<2	ND
	3/3/2009	6.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	6.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND
	3/31/2010	ND	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND
	11/2/2011	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3.0	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.69	<0.5	<0.5	<0.5	<0.5	ND
	11/20/2012	9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**8.55**	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.22	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND
	1/21/2013	ND							<2.0																	
	12/17/2013	ND	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	ND
	12/12/2014	ND	<1	<1	<1	<1	<1	<1	<2	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
	10/30/2015	ND	<1	<1	<1	<1	<1	<1	<2	<5	<1	<1	1.3 J	<1	<1	<1	0.70 J	<1	<1	<1	<1	<1	<1	<1	<3	ND
PW-13I																										
	7/22/1998	295	16/14	NA	**77/76**	**35/26**	ND/ND	NA	ND/ND	ND/ND	**2 J/2 J**		6/6	ND/4 J	NA				ND/ND	**3 J / 2 J**	8/8	NA	**4 J / 4 J**	**34/36**	ND/ND	110/110
	9/29/2000	754	27	<5	**240**	**120**	**12**	<5	<100	NA	**8.2**		11.0	11.0	<5		**220**	<5	<5	<5	<5	5.4	**6.2**	**93**	<10	ND
	9/12/2001	892	16.4	<5	**275**	**89.0**	**14.1**	<5	**70.9**	<10	**7.8**		10.4	10.9	<5		**305**	<5	<5	<5	<5	<5	**5.2**	**87.6**	<5	ND
	9/20/2002	799	<15	<15	**243**	**67.4**	<15	<15	**128**	<30	<15		<15	<30	<15		**270**	<15	<15	<15	<15	<15	<15	**91**	<15	ND
	9/23/2003	1,027	11.7	<10	**321**	**92.2**	**14.3**	<10	**118**	<20	<10		21.7	<20	<10		**358**	<10	<10	<10	<10	<10	<10	**90.4**	<10	ND
	8/25/2004	1,285	<5	<5	**353**	**116**	**22.2**	<5	**166**	<10	**10.7**		47.0	13.4	<5		**405**	<5	<5	**5.6**	<5	<5	**8.4**	**138**	<5	ND
	3/4/2009	520	<1.0	<1.0	**175**	**39.3**	**8.9**	<1.0	**78.0**	<5.0	**5.6**	<1.0	18.1	4.1	<1.0	<1.0	**133**	<1.0	<1.0	**1.8**	<1.0	<1.0	2.6	**53.9**	<2.0	ND
	3/31/2010	581	<1.0	<1.0	**192**	**41.6**	**8.8**	<1.0	**92.4**	<5.0	**4.96**	<1.0	14.5	3.66	<1.0	<1.0	**158**	<1.0	<1.0	**1.07**	<1.0	<1.0	2.08	**62**	ND	ND
	11/3/2011	784	6.18	<0.5	**214**	**121.0**	**11.8**	<0.5	**27.0**	<5	**8.05**	<0.5	31.4	7.27	<0.5	<0.5	**243**	<0.5	<0.5	<0.5	<0.5	<0.5	**6.26**	**107**	<0.5	0.87
	11/23/2012	779	2.10	<0.5	**137**	**58.5**	<0.5	<0.5	**332**	<5	**2.21**	<0.5	23.1	4.98	<0.5	<0.5	**147**	<0.5	<0.5	**1.64**	<0.5	<0.5	**3.26**	**62.1**	<0.5	5.21
	12/16/2013	743	<5	<5	**197**	**56.3**	**11.0**	<5	**139**	<50	<5	<5	<5	<5	<5	<5	**236**	<5	<5	<5	<5	<5	<5	**104**	<10	ND
	12/12/2014	564	<2	<2	**150**	**53.0**	**11.0**	<2	**91.6**	<10	**4.0**	<2	22	<2	<2	<2	**160**	<2	<2	**1.5**	<2	<2	2.8	**69**	<6	2.1
	10/26/2015	419	<1	<1	**120**	**28.0**	**4.6**	<1	**88.6**	<5	**3.2**	<1	18	2.0 J	<1	<1	**110**	<1	<1	**1.2**	<1	<1	2.1	**41**	<3	2.2

TABLE 2
GROUND WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample I.D.	Sample Date	Total VOCs	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dioxane	Acetone	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes (total)	Other VOCs
NC 2L Standard		NE	200	-	6	7	0.4	0.6	3	6000	1	0.3	50	3,000	70	3	70	600	5	0.7	600	100	3	0.03	500	-
PW-14D																										
	7/22/1998	ND	ND		ND	ND	ND		ND	ND	ND		ND	ND					ND	ND	ND		ND	ND	ND	ND
	10/31/2000	ND	<5	<5	<5	<5	<5	<5	<100	NA	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<10	ND
	9/10/2001	81	<5	<5	<5	<5	<5	<5	<10	73.1	<5		<5	<10	<5		<5	<5	**7.6**	<5	<5	<5	<5	<10	<5	ND
	9/17/2003	71	<5	<5	<5	<5	<5	<5	<10	70.7	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/17/2004	25	<5	<5	<5	<5	<5	<5	<10	25.2	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	8/29/2006	16	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1	<2/<2	16.3/18.1	<1/<1		<1/<1	<1/<1	<1/<1		<1/<1	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1	<2/<2	ND
	7/26/2007	13	<1	<1	<1	<1	<1	<1	<2	12.6	<1		<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<2	ND
	3/11/2009	14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	13.4	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND
	3/31/2010	21	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	21.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND
	11/7/2011	23	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3.0	13.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	9.2
	11/27/2012	40	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	**35.4**	<5	<0.5	<0.5	1.72	<0.5	<0.5	<0.5	2.18	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND
	12/12/2013	690	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**690**	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	ND
	12/9/2014	236	8.9	<1	**25**	**17**	<1	<1	**28.7**	16.0	**1.9**	**1.2**	**75.0**	6.9	<1	<1	44	<1	<1	0.41 J	1.1	<1	<1	**10**	2.9 J	ND
	11/3/2015	10	0.53 J	<1	4.2 J	1.0 J	<1	<1	8.33 J	8.5 J	<1	<1	4.0	<1	<1	<1	5.9	<1	<1	<1	<1	<1	<1	<1	<3	ND
PW-14S																										
	7/23/1998	ND	ND		ND	ND	ND		ND	ND	ND		ND	ND					ND	ND	ND		ND	ND	ND	ND
	10/30/2000	ND	<5	<5	<5	<5	<5	<5	<100		<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<10	ND
	9/6/2001	ND	<5	<5	<5	<5	<5	<5	<10	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/16/2003	ND	<5	<5	<5	<5	<5	<5	<10	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	8/19/2004	ND	<5	<5	<5	<5	<5	<5	<10	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	8/29/2006	ND	<1	<1	<1	<1	<1	<1	<2	<5	<1		<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<2	ND
	7/28/2007	ND	<1	<1	<1	<1	<1	<1	<2	<5	<1		<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<2	ND
	3/10/2009	28	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	28.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND
PW-15D																										
	7/21/1998	841	ND		150	ND	**8**		**320 J**	ND	ND		14.0	220 D					**75.0**	**3 J**	ND		**3 J**	**38.0**	ND	10.0
	10/31/2000	9,042	46.0	<5	**710**	**57**	**19**	<5	**1,800**	NA	**73.0**		**5,100**	690	<5		220	<5	**68.0**	<5	25.0	5.4	**6.5**	**200**	22.0	ND
	9/6/2001	12,582	<5	<5	**1,150**	<5	<5	<5	**3,650**	<10	<5		**5,930**	813	<5		653	<5	<5	<5	<5	<5	<5	**386**	<5	ND
	9/16/2003	2,467	24.0	<5	**349**	**78.2**	**14.1**	<5	**622**	<10	<10		**728**	162	<5		352	<5	**20.1**	<5	<5	<5	<5	**118**	<5	ND
	8/19/2004	507	<5	<5	**105**	**19.7**	<5	<5	**126**	<10	<10		**107**	27.0	<5		104	<5	<5	<5	<5	<5	<5	**17.8**	<5	ND
	8/29/2006	8,571	**234**	<10	**1,450**	**507**	**65.2**	<10	**1,650**	<50	**57.3**		**1,910**	200	<10		1,920	<10	**16.9**	**10.1**	<10	<10	<10	**550**	<20	ND
	9/26/2007	1.8	<1	<1	1.8	<1	<1	<1	<2	<5	<1		<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<2	ND
	3/11/2009	11,715	**426**	3.6	**1,840**	**740**	**83.6**	<1.0	**1,990**	37.1	**69.3**	<1.0	**2,890**	254	1.7	<1.0	2,530	1.9	**7.4**	**20.2**	31.6	8.4	**7.1**	**713**	52.2	7.4
	3/30/2010	14,028	**466**	3.37	**2,120**	**876**	**83.0**	<1.0	**2,230**	40.1	**82.1**	<1.0	**3,660**	273	1.65	<1.0	3,360	<1.0	**8.21**	**15.9**	19.1	9.47	**8.0**	**772**	ND	ND
	11/7/2011	196	10.1	<5	**39.4**	<5	<5	<5	**8**	<50	<5	<5	**61.9**	<5	<5	<5	58.4	<5	<5	<5	<5	<5	<5	**18.5**	<5	ND
	11/26/2012	6,608	**424**	1.89	**1,160**	**612**	**64.6**	0.59	**1,180**	<5	**73.9**	<0.5	**812 J**	351	<0.5	<0.5	**2,070**	6.56	**7.23**	**12.0**	53.2	12.0	**7.48**	**483**	37.5	50.63
	12/12/2013	11,775	**591**	<5	**1,440**	**593**	**70.5**	<5	**1,770**	<50	**67.3**	88.4	**2,920**	536	<5	<5	**2,920**	<5	<5	<5	51.8	<5	<5	**676**	32.7	18.2
	12/9/2014	12,358	**520**	<50	**1,400**	**920**	**82.0**	<50	**1,930**	<250	**66.0**	<50	**3,600**	470	<50	<50	**2,700**	<50	<50	<50	23.0	<50	<50	**670**	<150	ND
	10/28/2015	4,734	68	<50	**570**	**220**	<50	<50	**1,280**	<250	**28.0**	<50	**1,300**	<50	<50	**96**	**1,000**	<50	<50	<50	<50	<50	<50	**200**	<150	ND
PW-15S																										
	7/21/1998	ND	ND		ND	ND	ND		ND	ND	ND		ND	ND					ND	ND	ND		ND	ND	ND	ND
	10/30/2000	ND	<5	<5	<5	<5	<5	<5	<100	NA	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<10	ND
	9/6/2001	11	<5	<5	<5	<5	<5	<5	**11.0**	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/16/2003	25	<5	<5	<5	<5	<5	<5	**24.6**	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	8/19/2004	ND	<5	<5	<5	<5	<5	<5	<10	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	8/29/2006	ND	<1	<1	<1	<1	<1	<1	<2	<5	<1		<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<2	ND
	9/25/2007	1.5	<1	<1	<1	<1	<1	<1	<2	<5	<1		<1	<1	<1		1.5	<1	<1	<1	<1	<1	<1	<1	<2	ND
	3/11/2009	78	<1.0	<1.0	**18.6**	4.8	<1.0	<1.0	**6.6**	13.4	<1.0	<1.0	<1.0	4.5	<1.0	<1.0	26.5	<1.0	3.9	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND

TABLE 2
GROUND WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample I.D.	Sample Date	Total VOCs	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dioxane	Acetone	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes (total)	Other VOCs
NC 2L Standard		NE	200	-	6	7	0.4	0.6	3	6000	1	0.3	50	3,000	70	3	70	600	5	0.7	600	100	3	0.03	500	-
PW-16D																										
	7/22/1998	786	ND		**130**	ND	**6.0**		**87.0**	ND	**7.0**		**380**	140					ND	**3 J**	ND		**6.0**	**16.0**	ND	11.0
	11/2/2000	1,610	<120	<120	**210**	<120	<120	<120	<2,500		<120		**1,400**	<250	<120		<120	<120	<120	<120	<120	<120	<120	<250	<250	ND
	9/6/2001	4,184	10.6	<5	**355**	**12.3**	**8.9**	<5	**788**	<10	**29.3**		**2,580**	250	<5		**71.5**	<5	**22.7**	<5	<5	<5	<5	**55.2**	<5	ND
	9/17/2003	4,324	<100	<100	**501**	<100	<100	<100	**858**	<200	<100		**2,680**	<200	<100		**285**	<100	<100	<100	<100	<100	<100	<200	<100	ND
	8/19/2004	2,722	<50	<50	**353**	<50	<50	<50	**729**	<100	<50		**1,200**	119	<50		**215**	<50	<50	<50	<50	<50	<50	**106**	<50	ND
	8/29/2006	4,357	71.8	<10	**732**	**178**	**31.5**	<10	**889**	<50	**31.1**		**1,370**	78	<10		**709**	<10	<10	<10	<10	<10	<10	**266**	<20	ND
	9/25/2007	5,130	<20	<20	**844**	**247**	**36.5**	<20	**882**	<100	**36.8**		**1,700**	75.5	<20		**957**	<20	<20	<20	<20	<20	<20	**351**	<40	ND
	3/11/2009	6,570	110	1.5	**1,160**	**372**	**50.5**	<1.0	**890**	15.9	**42.6**	<1.0	**1,950**	93.5	<1.0	<1.0	**1,400**	<1.0	4.9	**11.1**	3.4	4.2	**4.5**	**442**	10.5	3.3
	3/30/2010	6,295	88.2	<1.0	**1,180**	**329**	**48.2**	<1.0	**1,080**	27.2	**39.9**	<1.0	**1,780**	80.8	<1.0	<1.0	**1,240**	<1.0	4.85	**4.97**	1.50	3.03	**3.59**	**384**	ND	ND
	11/7/2011	7,345	**232.0**	<5	**1,380**	**732**	**62.5**	<5	**260**	<50	**55.9**	<5	**1,770**	405	<5	<5	**1,740**	<5	<5	<5	<5	<5	**11.7**	**655**	7.9	8.0
	11/26/2012	7,820	165	1.01	**1,090**	**543**	**50.4**	0.52	**1,260**	<5	**48.7**	<0.5	**2,100**	229	<0.5	<0.5	**1,680**	<0.5	4.57	**8.59**	3.30	6.72	**5.5**	**601**	<0.5	23.1
	12/12/2013	7,988	**251**	<5	**1,360**	**688**	**65.9**	<5	**1,330**	<50	**55.2**	**37**	**1,870**	245	<5	<5	**1,700**	<5	<5	<5	<5	<5	<5	**368**	5.7	12.0
	12/9/2014	6,745	180	<20	**920**	**490**	**60**	<20	**1,150**	<100	**36**	<20	**1,900**	150	<20	<20	**1,500**	<20	<20	**9.2**	<20	<20	<20	**350**	<60	ND
	10/28/2015	3,527	51	<20	**480**	**190**	**18**	<20	**772**	<100	**22**	<20	**1,000**	44	<20	<20	**790**	<20	<20	<20	<20	<20	<20	**160**	<60	ND
PW-16S																										
	7/22/1998	ND	ND	NA	ND	ND	ND		ND	ND	ND		ND	ND					ND	ND	ND		ND	ND	ND	ND
	10/30/2000	ND	<5	<5	<5	<5	<5	<5	<100	NA	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<10	ND
	9/6/2001	ND	<5	<5	<5	<5	<5	<5	<10	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/17/2003	ND	<5	<5	<5	<5	<5	<5	<10	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	8/19/2004	ND	<5	<5	<5	<5	<5	<5	<10	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	8/29/2006	6.5	<1	<1	<1	<1	<1	<1	<2	6.5	<1		<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<2	ND
	9/26/2007	ND	<1	<1	<1	<1	<1	<1	<2	<5	<1		<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<2	ND
PW-17																										
	11/3/2000	160	<5	<5	<5	<5	<5	<5	**160**		<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<10	ND
	12/20/2000	ND	<5/<2	<5/<2	<5/<2	<5/<2	<5/NA	<5/<10	<100/<100	NA/<100	<5/<2		<5/<10	<10/<10	<5/<2		<5/<2	<5/<2	<5/<10	<5/<2	<5/<2	<5/<2	<5/<2	<10/<2	<10/<5	ND
	9/12/2001	ND	<5	<5	<5	<5	<5	<5	<10	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/19/2002	ND	<5	<5	<5	<5	<5	<5	<10	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/22/2003	ND	<5	<5	<5	<5	<5	<5	<10	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	8/25/2004	ND	<5	<5	<5	<5	<5	<5	<10	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	8/29/2006	8.8	<1	<1	<1	<1	<1	<1	<2	8.8	<1		<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<2	ND
	9/27/2007	6.3	<1	<1	<1	<1	<1	<1	<2	6.3	<1		<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<2	ND
	3/5/2009	ND	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND
PW-18																										
	11/7/2000	19	<5	<5	<5	<5	<5	<5	<100	NA	<5		<5	<10	<5		<5	<5	<5	<5	19.0	<5	<5	<10	<10	ND
	12/20/2000	ND	<5/<2	<5/<2	<5/<2	<5/<2	<5/NA	<5/<10	<100/<100	NA/<100	<5/<2		<5/<10	<10/<10	<5/<2		<5/<2	<5/<2	<5/<10	<5/<2	<5/<2	<5/<2	<5/<2	<10/<2	<10/<5	ND
	9/11/2001	24	<5	<5	<5	<5	<5	<5	<10	24.3	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/16/2003	204	<5	<5	<5	<5	<5	<5	<10	195	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	8.9	ND
	8/19/2004	149	<5	<5	<5	<5	<5	<5	**22.8**	119	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	6.8	ND
	10/1/2004	27	<5	<5	<5	<5	<5	<5	<10	27.4	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	8/29/2006	264	<1	<1	<1	<1	<1	<1	<2	151	<1		<1	<1	<		<1	1.7	<1	<1	1.2	<1	<1	<1	16.3	93.8
	9/26/2007	194	<1	<1	<1	<1	<1	<1	<2	108	<1		<1	<1	<		<1	1.3	<1	<1	1.2	<1	<1	<1	12.0	71.1
	3/12/2009	203	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	125	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	3.5	<1.0	<1.0	<1.0	<1.0	<1.0	9.8	63.7
	3/31/2010	86	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	85.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.26	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND
	11/7/2011	143	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3.0	92.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.94	48.43
	11/26/2012	91	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**36.0**	30.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.86	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	6.73	24.5
	1/21/2013	ND							<2.0																	
	12/12/2013	31	<5	<5	<5	<5	<5	<0.5	**5.05**	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	25.6
	2/25/2014	ND							<2																	
	12/9/2014	96	<1	<1	<1	<1	<1	<1	**9.17**	55	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	6	30.7
	1/29/2015	58	<1	<1	<1	<1	<1	<1	<2	35	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4.9	18
	10/26/2015	ND	<1	<1	<1	<1	<1	<1	<2	40 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.65 J	<1	<1	<1	1.2 J	19

TABLE 2
GROUND WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample I.D.	Sample Date	Total VOCs	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dioxane	Acetone	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes (total)	Other VOCs
NC 2L Standard		NE	200	-	6	7	0.4	0.6	3	6000	1	0.3	50	3,000	70	3	70	600	5	0.7	600	100	3	0.03	500	-
PW-19																										
	11/6/2001	ND	<5	<5	<5	<5	<5	<5	<10	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/19/2002	ND	<5	<5	<5	<5	<5	<5	<10	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/16/2003	ND	<5	<5	<5	<5	<5	<5	<10	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	8/18/2004	98	<5	<5	<5	<5	<5	<5	**97.8**	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	10/1/2004	ND	<5	<5	<5	<5	<5	<5	<10	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	8/29/2006	3.7	<1	<1	<1	<1	<1	<1	<2	<5	<1		<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<2	3.7
	9/27/2007	5.0	<1	<1	<1	<1	<1	<1	<2	5.0	<1		<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<2	ND
	3/11/2009	91	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	87.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.8	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND
	1/29/2015	<1	<1	<1	<1	<1	<1	<1	<2	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.57 J	<1	<3	ND
PW-DR-1																										
	9/8/2004	248	<5	<5	**10.7**	<5	<5	<5	**164**	<10	<5		40.2	16.6	<5		16.4	<5	<5	<5	<5	<5	<5	<5	<5	ND
	9/23/2004	268	<5	<5	5.6	<5	<5	<5	**209**	<10	<5		31.3	13.6	<5		8.3	<5	<5	<5	<5	<5	<5	<10	<5	ND
	10/8/2004	249	<5	<5	5.6	<5	<5	<5	**213**	<10	<5		30.8	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	2/25/2009	1,848	54.4	<1.0	**213**	**98.8**	**7.7**	<1.0	**579**	7.5	**11.8**	<1.0	**400**	58.3	<1.0	<1.0	**314**	2.2	<1.0	**3.5**	23.8	1.2	1.3	<1.0	71.2	ND
PW-SIS1																										
	8/25/2004	12,848	**201**	<5	**3,370**	**765**	**223**	<5	**2,500**	<10	**69.5**		39.0	<10	<5		**5,060**	<5	**110**	**49.9**	<5	<5	**69.8**	**376**	15.1	ND
	3/9/2009	9,940	**473**	3.7	**1,990**	**1,310**	**139**	**1.4**	**1,230**	37.7	**97.4**	<1.0	**68.1**	38.8	3.7	<1.0	**3,510**	<1.0	**6.0**	**121**	3.2	49.0	**263**	**555**	39.9	ND
W-1																										
	1/29/1997	3	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	3 J		NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/27/2000	ND	<5	<5	<5	<5	<5	<5	<100	NA	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<10	ND
	9/10/2001	21	<5	<5	<5	<5	<5	<5	**12.4**	<10	<5		<5	<10	<5		<5	<5	<5	**8.4**	<5	<5	<5	<10	<5	ND
	9/18/2002	20	<5	<5	<5	<5	<5	<5	**11.5**	<10	<5		<5	<10	<5		<5	<5	<5	**8.2**	<5	<5	<5	<10	<5	ND
	9/17/2003	86	<5	<5	<5	<5	<5	<5	<10	<10	<5		<5	<10	<5		<5	<5	<5	**76.4**	<5	<5	**9.7**	<10	<5	ND
	8/17/2004	43	<5	<5	<5	<5	<5	<5	<10	<10	<5		<5	<10	<5		<5	<5	<5	**33.7**	<5	<5	**9.3**	<10	<5	ND
	3/3/2009	25	<1.0	<1.0	<1.0	3.3	<1.0	<1.0	<2.0	7.7	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	**11.1**	<1.0	<1.0	1.9	<1.0	<2.0	ND
W-2																										
	1/30/1997	87,240	30,000	ND	**12,000**	11,000	960 J	ND	ND	2,200 J	410 J	ND	ND	1,500 J	ND	ND		ND	20,000	970 J	**1,200**	ND	1,200	5,300	500 J	ND
DUP-3 (W-2)	1/28/1997	79,260	27,000	ND	**11,000**	9,500	930 J	ND	ND	2,300 J	410 J	ND	ND	1,400 J	ND	ND		ND	19,000	910 J	**1,200**	ND	1,100	4,300	210 J	ND
W-4																										
	2/6/1997	1,624	47.0	ND	**640**	**86.0**	**23 J**	ND	ND	6 J	**30.0**		8 J	35 J	ND		NA	7 J	ND	ND	7 J	ND	ND	**280**	5 J	450
	9/27/2000	525	14.0	<5	**200**	**57.0**	**8.4**	<5	<100	NA	**8.7**		<5	<10	<5		**170**	<5	<5	<5	<5	6.7	<5	**60.0**	<10	ND
	9/10/2001	49	<5	32.7	<5	<5	<5	<5	**16.5**	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/17/2002	18	<5	<5	<5	<5	<5	<5	**18.2**	<10	<5		<5	<10	<5		<5	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/17/2003	694	27.9	<5	**135**	**56.9**	**10.9**	<5	**162**	<10	<5		<5	<10	<5		**248**	<5	<5	<5	<5	<5	**8.1**	**45.2**	<5	ND
	8/17/2004	3,157	136	<10	**432**	**331**	**35.2**	<10	**547**	<20	**17.0**		14.5	<20	<10		**1,010**	<10	<10	**13.0**	<10	<10	**10.4**	**91.2**	<10	ND
W-4A																										
	1/28/1997	75,370	**13,000**	ND	**11,000**	**5,700**	**540**	ND	ND	ND	**890 J**		ND	ND	ND		NA	ND	**39,000**	ND	**1,300**	ND	ND	**2,600**	280 J	1,060
	9/27/2000	15,940	**380**	<5	**4,300**	**1,500**	**160**	<5	**2,100**	NA	**230**		**67**	50	<5		**4,500**	12.0	**1,300**	**38.0**	57	**260**	**42.0**	**870**	66.0	8.3
	9/10/2001	37,215	**619**	<5	**10,400**	**3,560**	**316**	<5	**2,770**	<10	<5		**125**	111	<5		**12,400**	40.4	**4,350**	**52.6**	126	19.3	**43.8**	**2,100**	169	13.1
	9/17/2002	31,439	**515**	<5	**9,120**	**2,490**	**207**	<5	**1,950**	<10	**273**		**105**	95.7	<5		**10,500**	24.4	**3,570**	**38.5**	59.4	10.9	**28.5**	**2,330**	122	ND
	9/17/2003	5,351	83	<5	**1,350**	**544**	**68.1**	<5	**1,090**	<10	**73**		29.1	18.5	<5		**1,740**	<5	<5	**16.8**	15.1	<5	**16**	**286**	22.4	ND
	8/17/2004	19,357	<100	<100	**5,390**	**2,070**	**182**	<100	**1,870**	<200	**225**		**111**	<100	<100		**7,330**	<100	**831**	<100	<100	<100	<100	**1,230**	118	ND
	2/27/2009	6,307	73.4	<1.0	**1,240**	**541**	**57.9**	<1.0	**942**	13.4	**98.4**	<1.0	**67.4**	163	<1.0	**3.3**	**2,260**	7.3	**78.8**	**8.3**	11.3	6.5	**12**	**686**	36.8	ND
	3/31/2010	10,920	**401**	<1.0	**1,880**	**995**	**73.6**	**1.19**	**1,010**	32.7	**129**	<1.0	**91.9**	238	<1.0	1.98	**3,590**	16.1	**918**	**43.5**	72.5	6.26	**89**	**1,330**	ND	ND
	11/2/2011	41,390	**216**	<50	**5,340**	**3,750**	**363**	<50	**520**	<500	**861**	<50	**469**	**7,290**	<50	<50	**10,300**	<50	**1,130**	<50	307	<50	**83**	**11,000**	281	ND
	11/19/2012	4,144	28.7	<0.5	**335**	**296**	**21.9**	<0.5	**1,600**	<5	**65.3**	**3.77**	30	241	<0.5	0.95	**693**	3.28	**155**	**1.48**	16	2.87	**4.27**	**622**	20.11	3.74
	12/17/2013	59,696	**513**	<50	**7,580**	**3,260**	**318**	<50	**1,270**	<500	**843**	<50	**332**	**6,790**	<50	<50	**14,400**	<50	**15,300**	<50	249	<50	<50	**8,580**	261	ND
	12/8/2014	37,661	**430**	<100	**4,700**	**2,700**	**360**	<100	**2,100**	<100	**560**	<100	**270**	**3,600**	<100	<100	**8,800**	<100	**6,300**	<100	220	41	140	**7,000**	220	220
	10/27/2015	8,952	**270**	<100	**1,400**	**640**	<100	<100	**962**	<500	**210**	<100	**110**	540	<100	<100	**2,500**	<100	<100	<100	120	<100	76 J	**2,200**	<300	ND
W-4B																										
	2/4/1997	117,470	**20,000**	ND	**13,000**	**8,700**	**810 J**	ND	ND	4,500 J	**1,200 J**	ND	ND	ND	ND	ND		ND	**61,000**	**550 J**	**2,800**	ND	ND	**4,200**	**710 J**	ND

TABLE 2
GROUND WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample I.D.	Sample Date	Total VOCs	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dioxane	Acetone	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes (total)	Other VOCs
NC 2L Standard		NE	200	-	6	7	0.4	0.6	3	6000	1	0.3	50	3,000	70	3	70	600	5	0.7	600	100	3	0.03	500	-
W-5																										
	8/7/1996	467,000	110,000	ND	27,000	21,000	ND	ND		19,000	2,100 J		1,700	9,400 J	ND		ND	ND	140,000	6,900	13,000	ND	ND	36,000	3,900 J	77,000
	2/24/1997	415,300	98,000	ND	26,000	19,000	2,000	ND	ND	34,000	2,200 J		1,800	9,100 J	ND		ND	1,100 J	130,000	5,600	15,000	ND	24,000	33,000	5,200	9,300
	10/30/2000	402,208	95,000	91.0	22,000	31,000	1,100	17.0	24,000	NA	1,000		1,200	2,200	190		72,000	760	100,000	3,500	8,900	340	11,000	25,000	2,540	370
	9/10/2001	378,680	144,000	<5	14,000	33,300	<5	<5	13,800	<10	<5		<5	<10	<5		53,900	<5	63,200	7,710	9,270	<5	27,000	12,500	<5	ND
	9/19/2002	672,790	121,000	<5,000	45,400	122,000	<5,000	<5,000	14,300	<10,000	7,780		11,100	<10,000	<5,000		74,300	5,880	93,100	28,900	35,300	<5,000	38,300	39,500	28,400	7,530
	9/17/2003	367,940	135,000	<5,000	9,220	31,800	<5,000	<5,000	11,300	<10,000	<5,000		<5,000	<10,000	<5,000		56,400	<5,000	81,900	6,340	7,580	<5,000	28,400	<10,000	<5,000	ND
	8/18/2004	375,700	177,000	<5000	5,290	36,600	<5000	<5,000	4,110	<10,000	<5,000		<5,000	<10,000	<5,000		41,400	<5,000	48,900	10,800	10,400	<5,000	41,200	<10,000	<5,000	ND
	3/3/2009	170,238	66,700	75.8	3,720	15,500	289	<50.0X	1,860	1,380	1,420	<50.0X	1,000	111	121	<50.0X	30,800	<50.0X	10,900	3,700	3,400	70.0	25,900	1,040	1,940	311.0
W-6																										
	2/5/1997	123,360	23,000	ND	14,000	8,500	20,000	ND	ND	3,400 J	ND	ND	15,000	ND	ND	ND	ND	260 J	19,000	2,700	3,000	ND	2,400	5,100	1,400	2,800
DUP-1 (W-6)	8/7/1996	143,900	27,000	ND	16,000	10,000	23,000	ND		2,800	ND	ND	18,000	ND	ND	ND	ND	ND	21,000	6,200	3,300	ND	4,000	6,500	1,600	4,500
W-6A																										
	2/5/1997	739,000	10,000	ND	65,000	16,000	48,000	ND	ND	150,000	ND		21,000	ND	ND		ND	ND	310,000	3,200 J	12,000	ND	ND	6,800 J	ND	97,000
	9/28/2000	838,040	31,000	280	69,000	24,000	71,000	<5	81,000		<5		17,000	940	160		100,000	550	410,000	3,200	14,000	660	3,100	9,900	1,950	300
W-6B																										
	2/5/1997	238,400	59,000	ND	23,000	14,000	19,000	ND	ND	14,000	ND	ND	18,000	ND	ND	ND		ND	55,000	4,700	5,700	ND	11,000	1,000 J	1,000 J	13,000
W-13A																										
	1/31/1997	1,688	66.0	ND	230	110	6 J	ND	990	120	ND	ND	ND	5 J	ND	ND		ND	27.0	90	ND	ND	30	14 J	ND	ND
W-18																										
	2/3/1997	6,781	500	ND	820	930	960	ND	ND	ND	ND	ND	ND	ND	71 J	ND		ND	610	1,500	ND	ND	930	460	ND	ND
	3/5/2009	9,932	60.0	3	741	396	17.4	<1.0	1,350	19.5	9.9	7.2	4.4	11.7	77.9	<1.0	4,050	<1.0	7.2	490	<1.0	13.5	1,850	819	3.8	ND
W-20																										
	1/31/1997	19.0	4 J	ND	4 J	4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	5	ND	ND	2 J	ND	ND	ND
W-21																										
	1/31/1997	1,232	340	ND	130	210	110	ND	240 J	ND	ND		ND	18 J	3 J		ND	ND	3 J	47.0	ND	ND	54.0	77.0	ND	ND
	9/28/2000	1,494	190	<5	120	140	74.0	<5	520	NA	<5		<5	<10	<5		220	<5	<5	97.0	<5	<5	73.0	60.0	<10	ND
	9/10/2001	1,336	129	<5	101	140	57.8	<5	407	<10	<5		<5	<10	<5		271	<5	<5	116	<5	<5	72.7	41.4	<5	ND
	9/17/2002	1,775	127	<5	188	163	36.2	<5	458	<10	5.2		<5	<10	<5		498	<5	<5	102	<5	<5	98.0	100	<5	ND
	9/17/2003	1,890	106	<5	140	151	44.6	<5	743	<10	<5		<5	<10	<5		384	<5	<5	140	<5	<5	105	76.7	<5	ND
	8/17/2004	1,761	71.2	<10	114	124	47.4	<10	821	<20	<10		<10	<20	<10		333	<10	<10	95.2	<10	<10	81.5	73.5	<10	ND
	9/24/2009	3,701	313	1.2	518	390	38.9	<1.0	678	16.0	12.6	<1.0	9.8	4.9	5.3	<1.0	1,210	<1.0	<1.0	108	<1.0	3.3	170	222	<2.0	ND
W-23A																										
	1/30/1997	4,600	ND	ND	ND	ND	ND	ND	ND	4,600	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND
	7/17/1998	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/4/2009	115	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	106	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.4	<1.0	<1.0	3.1	<1.0	<1.0	2.6	<1.0	<2.0	ND
W-23B																										
	1/22/1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND
W-24																										
	1/31/1997	2,109	200	ND	190	330	ND	ND	ND	ND	ND	ND	ND	ND	11 J	ND		ND	54	440	ND	ND	710	160	14 J	ND
DUP-2 (W-24	1/31/1997	1,921	180	ND	180	310	ND	ND	ND	ND	ND	ND	ND	ND	10 J	ND		ND	49	400	ND	ND	630	150	12 J	ND
	7/16/1998	1,943	ND	100 J	160	240 D	ND	ND	ND	ND	3 J	ND	ND	ND	8	ND		ND	12	520 D	ND	ND	690 D	190	20.0	ND
W-25																										
	8/7/1996	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND		ND	ND	ND	ND
	1/27/1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND
W-29																										
	2/5/1997	1,688,000	120,000	ND	7,400 J	29,000	580,000	ND	ND	240,000	ND	ND	49,000	ND	ND	ND		ND	290,000	13,000 J	10,000 J	ND	150,000	ND	ND	230,000

TABLE 2
GROUND WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample I.D.	Sample Date	Total VOCs	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dioxane	Acetone	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes (total)	Other VOCs
NC 2L Standard		NE	200	-	6	7	0.4	0.6	3	6000	1	0.3	50	3,000	70	3	70	600	5	0.7	600	100	3	0.03	500	-
BD-1	3/29/2010	235	<1.0	<1.0	**14.7**	<1.0	<1.0	<5.0	**208**	<5.0	<1.0	<1.0	**1.74**	2.28	<1.0	<1.0	**5.72**	<1.0	1.48	<1.0	<1.0	<1.0	<1.0	**1.34**	ND	ND
DUP-02	3/31/2010	148	<1.0	<1.0	**31.0**	**1.60**	**3.45**	<1.0	**28.6**	<5.0	<1.0	<1.0	**35.4**	9.90	<1.0	<1.0	**24.1**	<1.0	2.00	**1.55**	**<1.0**	<1.0	2.87	**7.67**	ND	ND
LCHT-COMP	3/30/2010	904	<2.0	<2.0	**82.2**	**34.4**	**8.87**	<2.0	**416**	**32.4**	8.00	<2.0	**136**	24.7	<2.0	<2.0	**95.8**	2.60	**5.09**	<2.0	**6.24**	<2.0	**6.69**	**44.9**	ND	ND
PW-SF1																										
	4/2/2010	11,985	<2.0	<2.0	**114**	<2.0	<2.0	<2.0	**8,410**	247	**20**	<2.0	**1,190**	1,340	<2.0	<2.0	2.4	11	**175**	<2.0	447	4	<2.0	**25**	ND	ND
	11/3/2011	34,627	**1,840**	32.6	**2,990**	**3,670**	**1,240**	<5	**1,300**	57.2	**32.5**	<5	**1,450**	1,580	**250**	<5	**13,100**	<5	**251**	**211**	**1,070**	23.3	**1,410**	**3,920**	54.0	145.7
	11/20/2012	8,577	136	<50	**480**	5.7	**135**	<50	**4,310**	<500	<50	<50	**298**	<50	<50	<50	**2,230**	<50	<50	<50	110	<50	**123**	**749**	<50	ND
	12/9/2013	46,400	**1,250**	<50	**3,700**	**6,190**	**1,060**	<50	**3,940**	<500	<50	<50	**1,710**	1,130	**276**		**19,900**	<50	<50	<50	**700**	<50	**1,470**	**4,920**	<100	154
	12/8/2014	43,302	**1,100**	<200	**3,500**	**4,200**	**1,300**	<200	**3,510**	<1000	<200	<200	**2,000**	1,200	**200**	<200	**19,000**	<200	<200	**320**	**680**	<200	**1,700**	**4,500**	<600	92
	10/27/2015	41,479	**1,100**	<100	**3,200**	**3,600**	**780**	<100	**3,550**	<500	<100	<100	**2,100**	790	**160**	<100	**18,000**	<100	<100	**420**	**800**	<100	**2,200**	**4,700**	<300	79 J
EB-1	4/2/2010	19	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	**15.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.15	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND
FB-1	4/2/2010	25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	**21.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.55	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND
Crutchfield (potable well)	12/1/1998[1]	ND	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<2.0	<0.5	<0.5	<0.5	<2.0	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<0.5	ND
	3/11/2009	2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND

ug/l = micrograms per liter
J = Estimated value
B = Analyte detected in associated method blank as well as sample
ND = Not detected NA = Not Analyzed
1 - Sample collected and analyzed by North Carolina Division of Waste Management

Bold type indicates value exceeds NC 2L ground water standard
Values separated by slash (/) indicate split sample results
NC 2L Standard = North Carolina 2L ground water quality standard

TABLE 3
SURFACE WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample Description	Sample Date	1,1,1-Trichloroethane (ug/l)	1,1-Dichloroethane (ug/l)	1,1-Dichloroethene (ug/l)	1,2-Dichloroethane (ug/l)	1,4-Dioxane (ug/l)	Acetone (ug/l)	Benzene (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	Chloromethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Methylene Chloride (ug/l)	Tetrachloroethene (ug/l)	Toluene (ug/l)	trans-1,2-Dichloroethe (ug/l)	Trichloroethene (ug/l)	Vinyl Chloride (ug/l)	Xylenes (Total) (ug/l)	2-Butanone (ug/l)
NC 2B Std. (WS-IV)		**2500**	**6700**	**330**	**0.38**	**3.1**	**2000**	**1.19**	**130**	**12**	**NE**	**330**	**2.6**	**0.7**	**11**	**140**	**2.5**	**0.025**	**670**	**20,000**
Northern Intermittent Stream																				
SW-1	4/30/1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/2/2000	<5	<5	<5	<5	<100	NA	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<10	ND
	9/14/2001	<5	<5	<5	<5	<10	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/02	Dry	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--	--
	9/16/2003	<5	<5	<5	<5	<10	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	8/23/2004	<5	<5	<5	<5	<10	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	12/20/2005	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/29/2006	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/27/2007	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/13/2009	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/2013	Dry																		
	12/8/2014	Dry																		
	10/22/2015	Dry																		
SW-2	4/30/1997	ND	ND	ND	ND	ND	ND	**3J**	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	7/15/1998	ND	ND	ND	ND	ND	ND	**6**	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/2/2000	<5	<5	<5	<5	**420**	NA	<5	10	<10	ND	<5	<5	<5	<5	<5	<5	<10	<10	ND
	9/14/2001	<5	<5	<5	<5	**353**	<10	<5	7.6	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/24/2002	<5	<5	<5	<5	**258**	<10	<5	7.7	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	11/26/2002	NA	NA	NA	NA	**293**	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/15/2003	<5	<5	<5	<5	**305**	<10	<5	9.6	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	11/16/2004	<5	<5	<5	<5	**233**	<10	<5	8.7	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	12/20/2005	<5	<5	<5	<5	**64**	14.7	<5	6.2	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	8/29/2006	<1	<1	<1	<1	**218**	<5	<1	9.1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<2	ND
Split (8270)	8/29/2006	NA	NA	NA	NA	**390**	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/27/2007	<1	<1	<1	<1	**176**	<5	<1	9.4	<1	ND	<1	<1	<1	<1	<1	<1	<1	<2	ND
	5/13/2009	<1	<1	<1	,1	**17.1**	7.1	<1	3.8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5
	4/1/2010	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	<5.0
	11/3/2011	<0.5	<0.5	<0.5	<0.5	**6.2**	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5
	11/20/2012	Dry																		
	12/13/2013	Dry																		
	12/8/2014	Dry																		
	10/22/2015	Dry																		
Southern Intermittent Stream																				
SW-3	4/30/1997	66	73	33	**6**	ND	ND	**3J**	ND	5J	ND	ND	**110**	**4J**	4J	ND	2J	**19**	ND	ND
	7/15/1998	ND	5	ND	ND	NA	ND	ND	ND	ND	ND	4J	ND	ND	ND	ND	ND	ND	ND	ND
	11/2/2000	24	38	14	<5	**600 B**	NA	<5	<5	<10	ND	45	**10**	<5	<5	<5	<5	<10	<10	ND
	9/14/2001	<5	<5	<5	<5	**281**	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/24/2002	<5	14.6	5.1	<5	**69.7**	<10	<5	<5	<10	ND	17.0	<5	<5	<5	<5	<5	<10	<5	<10
	11/26/2002	NA	NA	NA	NA	**151**	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/16/2003	13	42.4	16.8	<5	**202**	<10	<5	<5	<10	ND	50.4	**7.2**	<5	<5	<5	<5	<10	<5	<10
	8/23/2004	<5	13.3	<5	<5	**546**	<10	<5	8.7	**16.4**	ND	6.9	<5	<5	<5	<5	<5	<10	<5	<10
	8/25/2004	<5	31.7	9	<5	**115**	<10	<5	<5	<10	ND	33.6	<5	<5	<5	<5	<5	<10	<5	<10
	12/20/2005	39.1	96.3	50	<5	**26.3**	<10	<5	<5	<10	ND	182	**111**	<5	<5	<5	<5	**20.7**	<5	<10
	8/29/2006	11.8	59.3	24	**3.5**	**327**	<5	<1	<1	3.2	ND	88.6	**5.2**	**1.1**	<1	<1	1.7	**7.4**	<2	ND
	9/27/2007	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/13/2009	32.3	84.1	52.4	**4.1**	**144**	10.2	**2.5**	1.4	10.5	<1	178	**7.6**	**2.1**	<1.0	<1.0	**7.8**	**28.5**	<1	<5
	4/1/2010	21.7	52.6	36.6	<1.0	**66.9**	8.01	**1.69**	1.01	11.2	<1.0	127	**51**	**1.32**	<1.0	<1.0	**5.58**	**23.7**	ND	<5.0
	11/3/2011	20.6	37.3	24	**1.58**	**38**	<5	<0.5	<0.5	**19.9**	<0.5	76.5	**4.79**	<0.5	<0.5	<0.5	**10.6**	**25**	<0.5	<5
	11/20/2012	27.1	50.7	29.3	<0.5	**115**	<5	<0.5	0.62	**19**	<0.5	105	**1.31**	2.62	<0.5	0.58	**14**	**23.2**	<0.5	<5
	12/11/2013	28.7	26.6	33.2	**0.74**	**10**	<5	**1.83**	0.73	**10.4**	<0.5	85.1	<0.5	**1.4**	<0.5	0.75	**14.6**	**18.8**	<0.5	<5
	12/8/2014	8.2	22	10	<1	**96.8**	<5	<1	<1	8.8	<1	42	**15**	**1.2**	<1	<1	**4.8**	**11**	<3	<5
	10/22/2015	27	81	37	**2.7**	**104**	<5	0.88 J	<1	**24**	<1	140	**81**	**4.8**	<1	0.87 J	**19**	**28**	<3	<5
SW-4	4/30/1997	4J/5J	30/34	**3J/3J**	**3J/4J**	ND/ND	12J/23J	1J/1J	62/69	15J/16J	ND	ND/ND	**10/11**	ND/ND	ND/ND	ND/ND	ND/ND	**8J/9J**	ND/ND	ND/ND
	7/20/1998	ND	16	ND	**4J**	NA	ND	ND	77	36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/2/2000	<5	<5	<5	<5	**1100 B**	NA	<5	48	34	ND	<5	<5	<5	<5	<5	<5	<10	<10	ND
	9/14/2001	<5	<5	<5	<5	**806**	<10	<5	16.5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/24/2002	<5	<5	<5	<5	**480**	<10	<5	19.3	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	11/26/2002	NA	NA	NA	NA	**448**	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/15/2003	<5	7.7	<5	<5	**118**	11	<5	12.2	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	8/25/2004	<5	<5	<5	<5	**592**	<10	<5	38.0	**18.2**	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	12/20/2005	6.4	24.9	7.3	<5	**172**	17.3	<5	22.4	<10	ND	36.5	**5.8**	<5	<5	<5	<5	<10	<5	<10
	8/29/2006	<1	1.2	<1	<1	**1040**	<5	<1	9.5	8.1	ND	<1	<1	<1	<1	<1	<1	<1	<2	ND
Split (8270)	8/29/2006	NA	NA	NA	NA	**1200**	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/27/2007	<1	<1	<1	<1	**24.1**	<5	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<2	ND
	5/13/2009	<1	<1	<1	<1	**8.4**	8.4	<1	<1	<1	1.7	<1	<1	<1	<1	<1	<1	<1	<1	<5
	4/1/2010	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	<5.0
	11/3/2011	72	443	126	**32.6**	**110**	10.6	**14.2**	**358**	**141**	<0.5	**440**	1.21	**3.24**	0.74	<0.5	**13.5**	**371**	4.93	<5
	11/20/2012	<0.5	2.1	<0.5	<0.5	**22.7**	<5	<0.5	**5.9**	<0.5	<0.5	**1.56**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5
	12/13/2013	<0.5	<0.5	<0.5	<0.5	<2.0	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5
	12/8/2014	<1	<1	<1	<1	**3.3**	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
	10/22/2015	<1	<1	<1	<1	**4.1 J**	<5	<1	0.82 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5

TABLE 3
SURFACE WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample Description	Sample Date	1,1,1-Trichloroethane (ug/l)	1,1-Dichloroethane (ug/l)	1,1-Dichloroethene (ug/l)	1,2-Dichloroethane (ug/l)	1,4-Dioxane (ug/l)	Acetone (ug/l)	Benzene (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	Chloromethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Methylene Chloride (ug/l)	Tetrachloroethene (ug/l)	Toluene (ug/l)	trans-1,2-Dichloroethe (ug/l)	Trichloroethene (ug/l)	Vinyl Chloride (ug/l)	Xylenes (Total) (ug/l)	2-Butanone (ug/l)
NC 2B Std. (WS-IV)		**2500**	**6700**	**330**	**0.38**	**3.1**	**2000**	**1.19**	**130**	**12**	**NE**	**330**	**2.6**	**0.7**	**11**	**140**	**2.5**	**0.025**	**670**	**20,000**
SW-5	4/30/1997	ND	ND	ND	ND	ND	8J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/2/2000	<5	<5	<5	<5	<100	NA	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<10	ND
	9/14/2001	<5	<5	<5	<5	<10	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/24/2002	<5	<5	<5	<5	<10	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	11/26/2002	NA	NA	NA	NA	<10	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/16/2003	<5	<5	<5	<5	**12.4**	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	8/25/2004	<5	<5	<5	<5	<10	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	12/20/2005	<5	<5	<5	<5	<10	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	8/29/2006	<1	<1	<1	<1	<2	51.7	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<2	ND
	9/27/2007	<1	<1	<1	<1	<2	<5	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<2	ND
	5/13/2009	8.7	8.6	6.4	<1	**25.4**	5.3	<1	<1	<1	<1	39.4	<1	**3.3**	<1	<1	**9.0**	**8.2**	<1	<5
	4/1/2010	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	<5.0
	11/3/2011	<0.5	<0.5	<0.5	<0.5	<3.0	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5
	11/20/2012	<0.5	<0.5	<0.5	<0.5	**6.97**	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5
	12/16/2013	<0.5	<0.5	<0.5	<0.5	**13.0**	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/8/2014	<1	<1	<1	<1	2.26	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
	10/22/2015	`	<1	<1	<1	1.8 J	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Randleman Lake (formerly the Deep River)																				
SW-6	5/1/1997	ND	ND	ND	ND	ND	6J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/2/2000	<5	<5	<5	<5	<100	NA	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<10	ND
	9/14/2001	<5	<5	<5	<5	<10	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/24/2002	<5	<5	<5	<5	**11.5**	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	11/26/2002	NA	NA	NA	NA	<10	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/16/2003	<5	<5	<5	<5	<10	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	8/25/2004	<5	<5	<5	<5	**133**	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	12/20/2005	<5	<5	<5	<5	**11.4**	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	8/29/2006	<1	<1	<1	<1	<2	<5	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<2	ND
Split (8270)	8/29/2006	NA	NA	NA	NA	<3.3	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/27/2007	<1	<1	<1	<1	<2	<5	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<2	ND
Upper	2/25/2009	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	ND	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND
Mid	2/25/2009	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	ND	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND
Mid	5/13/2009	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5
Upper	5/13/2009	<1.0	<1.0	<1.0	<1.0	<2.0	8.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5
Surface	4/1/2010	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	<5.0
Bottom	4/1/2010	<1.0	<1.0	<1.0	<1.0	**4.02**	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	<5.0
Surface	11/3/2011	<0.5	<0.5	<0.5	<0.5	<3.0	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5
Surface	11/21/2012	<0.5	<0.5	<0.5	<0.5	**3.73**	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bottom	11/21/2012	<0.5	<0.5	<0.5	<0.5	<2.0	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Surface	12/13/2013	<0.5	<0.5	<0.5	<0.5	**9.29**	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5
Bottom	12/13/2013	<0.5	<0.5	<0.5	<0.5	<2.0	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5
Surface	12/15/2014	<1	<1	<1	<1	<2	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	12/15/2014	<1	<1	<1	<1	<2	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	10/22/2015	<1	<1	<1	<1	<2	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	10/22/2015	<1	<1	<1	<1	<2	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
SW-7	5/2/1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/3/2000	<5	<5	<5	<5	<100	NA	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<10	ND
	9/13/2001	<5	<5	<5	<5	**40.5**	<10	<5	<5	**23**	ND	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/24/2002	<5	<5	<5	<5	<10	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	11/26/2002	NA	NA	NA	NA	<10	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/15/2003	<5	<5	<5	<5	<10	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	8/23/2004	<5	<5	<5	<5	<10	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	12/20/2005	<5	<5	<5	<5	<10	10.7	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	8/29/2006	<1	<1	<1	<1	**4.3**	<5	<1	2	<1	ND	<1	<1	<1	<1	<1	<1	<1	<2	ND
	9-27-200	<1	<1	<1	<1	**23.2**	5.0	<1	2	<1	ND	<1	<1	<1	<1	<1	<1	<1	<2	ND
Upper	2/25/2009	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	ND	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND
Mid	2/25/2009	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	ND	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND
Mid	5/13/2009	<1.0	<1.0	<1.0	<1.0	<2.0	5.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5
Upper	5/13/2009	<1.0	<1.0	<1.0	<1.0	<2.0	7.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5
Surface	4/1/2010	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	<5.0
Bottom	4/1/2010	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	<5.0
Surface	11/3/2011	<0.5	<0.5	<0.5	<0.5	<3.0	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5
Surface	11/21/2012	<0.5	<0.5	0.88	<0.5	**9.10**	<5	<0.5	1.11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bottom	11/21/2012	<0.5	<0.5	<0.5	<0.5	**9.88**	<5	<0.5	0.94	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Surface	12/13/2013	<0.5	<0.5	<0.5	<0.5	<2.0	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5
Bottom	12/13/2013	<0.5	<0.5	<0.5	<0.5	<2.0	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5
Surface	12/15/2014	<1	<1	<1	<1	2.38	<5	<1	1.3	<1	<1	0.42 J	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	12/15/2014	<1	<1	<1	<1	<2	<5	<1	1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	10/22/2015	<1	<1	<1	<1	1.43 J	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	10/22/2015	<1	<1	<1	<1	1.60 J	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5

TABLE 3
SURFACE WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample Description	Sample Date	1,1,1-Trichloroethane (ug/l)	1,1-Dichloroethane (ug/l)	1,1-Dichloroethene (ug/l)	1,2-Dichloroethane (ug/l)	1,4-Dioxane (ug/l)	Acetone (ug/l)	Benzene (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	Chloromethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Methylene Chloride (ug/l)	Tetrachloroethene (ug/l)	Toluene (ug/l)	trans-1,2-Dichloroethe (ug/l)	Trichloroethene (ug/l)	Vinyl Chloride (ug/l)	Xylenes (Total) (ug/l)	2-Butanone (ug/l)
NC 2B Std. (WS-IV)		**2500**	**6700**	**330**	**0.38**	**3.1**	**2000**	**1.19**	**130**	**12**	**NE**	**330**	**2.6**	**0.7**	**11**	**140**	**2.5**	**0.025**	**670**	**20,000**
SW-DRP-2	11/3/2000	<5	<5	<5	<5	<100	NA	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<10	ND
EAST	9/14/2001	<5	6.3	<5	<5	**15.3**	<10	<5	5.8	<10	ND	5.7	<5	<5	<5	<5	<5	<10	<5	ND
WEST	9/14/2001	<5	29.5	<5	<5	**42.8**	<10	<5	61.5	**30.5**	ND	26.4	<5	<5	<5	<5	<5	**21.7**	<5	ND
	9/24/2002	6.6	47.0	11.8	<5	**39.2**	<10	<5	62.3	**20.5**	ND	60.3	<5	<5	<5	<5	<5	**28.1**	<5	<10
	11/26/2002	NA	NA	NA	NA	<10	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/15/2003	<5	<5	<5	<5	<10	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	8/23/2004	<5	<5	7.1	<5	**145**	<10	**5.4**	**189**	**48.6**	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	12/20/2005	14.2	80.3	33.8	<5	**82.1**	<10	<5	66.4	**17.7**	ND	140	<5	<5	<5	<5	<5	**36.1**	<5	<10
	8/29/2006	<1	2	<1	<1	<2	<5	<1	<1	<1	ND	3.1	<1	<1	<1	<1	<1	<1	<2	ND
Split (8270)	8/29/2006	NA	NA	NA	NA	<3	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/27/2007	<1	<1	<1	<1	**23.3**	<5	<1	2	<1	ND	<1	<1	<1	<1	<1	<1	<1	<2	ND
Upper	2/25/2009	<1.0	<1.0	3.0	**1.9**	<2.0	8.0	<1.0	1.4	<1.0	ND	7.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND
Mid	2/25/2009	<1.0	<1.0	<1.0	<1.0	<2.0	9.2	<1.0	<1.0	<1.0	ND	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	<2.0	ND
Mid	5/13/2009	<1.0	<1.0	<1.0	<1.0	<2.0	8.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5
Upper	5/13/2009	<1.0	<1.0	<1.0	<1.0	<2.0	6.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5
Surface	4/1/2010	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	<5.0
Bottom	4/1/2010	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	<5.0
Surface	11/21/2012	<0.5	<0.5	<0.5	<0.5	**7.27**	<5	<0.5	2.75	<0.5	<0.5	1.19	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bottom	11/21/2012	<0.5	1.86	1.4	<0.5	**11.4**	<5	<0.5	6.26	6.36	<0.5	2.26	<0.5	<0.5	<0.5	<0.5	<0.5	**2.54**	<0.5	<0.5
Surface	12/13/2013	<0.5	<0.5	<0.5	<0.5	<2.0	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5
Bottom	12/13/2013	<0.5	<0.5	<0.5	<0.5	<2.0	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5
Surface	12/15/2014	<1	<1	<1	<1	1.2 J	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	12/15/2014	<1	<1	<1	<1	1.62 J	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	10/22/2015	<1	<1	<1	<1	**3.02 J**	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	10/22/2015	<1	<1	<1	<1	**3.11 J**	<5	<1	0.47 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
SW-DRP-4	11/2/2000	<5	<5	<5	<5	<100	NA	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<10	ND
EAST	9/14/2001	<5	9.1	<5	<5	**44**	<10	<5	101	**51.5**	ND	8	<5	<5	<5	<5	<5	<10	<5	ND
WEST	9/14/2001	<5	8.5	<5	<5	**30.2**	<10	<5	69.4	**33.3**	ND	7.4	<5	<5	<5	<5	<5	<10	<5	ND
	9/24/2002	<5	<5	<5	<5	<10	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	11/26/2002	NA	NA	NA	NA	<10	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/15/2003	<5	<5	<5	<5	<10	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	8/24/2004	<5	<5	<5	<5	<10	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	12/20/2005	<5	<5	<5	<5	<10	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	8/29/2006	<1	<1	<1	<1	<2	<5	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<2	ND
	9/27/2007	<1	<1	<1	<1	**24.9**	<5	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<2	ND
SW-DRP-10	11/2/2000	<5	7.5	<5	<5	<100	NA	<5	14	**17**	ND	5.7	<5	<5	<5	<5	<5	<10	<10	ND
EAST	9/13/2001	<5	6	<5	<5	**43.8**	<10	<5	14.4	**27.7**	ND	<5	<5	<5	<5	<5	<5	<10	<5	ND
WEST	9/13/2001	<5	6.3	<5	<5	**43.5**	<10	<5	19.2	**30.9**	ND	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/24/2002	<5	<5	<5	<5	**12.6**	<10	<5	7.2	7.5	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	11/26/2002	NA	NA	NA	NA	<10	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/15/2003	<5	<5	<5	<5	<10	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	8/23/2004	<5	<5	<5	<5	**12**	<10	<5	9.1	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	12/20/2005	<5	<5	<5	<5	<10	<10	<5	<10	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	8/29/2006	<1	<1	<1	<1	**4.1**	<5	<1	2.9	1.1	ND	<1	<1	<1	<1	<1	<1	<1	<2	ND
	9/27/2007	<1	<1	<1	<1	**22.4**	<5	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<2	ND
SW-DRP-11	11/2/2000	<5	<5	<5	<5	<100	NA	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<10	ND
	9/13/2001	<5	<5	<5	<5	**10.2**	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/24/2002	<5	<5	<5	<5	**109**	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	11/26/2002	NA	NA	NA	NA	<10	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
50 FT UPSTREAM	11/26/2002	NA	NA	NA	NA	<10	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/15/2003	<5	<5	<5	<5	**53.5**	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	8/23/2004	<5	<5	<5	<5	**20.4**	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	12/20/2005	<5	<5	<5	<5	<10	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	8/29/2006	<1	<1	<1	<1	**3.5**	5.2	<1	1.1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<2	ND
	9/27/2007	<1	<1	<1	<1	**17.9**	<5	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<2	ND
Upper	2/25/2009	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	ND	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND
Mid	2/25/2009	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	ND	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND
Mid	5/13/2009	<1.0	<1.0	<1.0	<1.0	<2.0	10.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5
Upper	5/13/2009	<1.0	<1.0	<1.0	<1.0	<2.0	<5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5
Surface	4/1/2010	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	<5.0
Bottom	4/1/2010	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	<5.0
Surface	11/21/2012	<0.5	<0.5	<0.5	<0.5	**10.2**	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bottom	11/21/2012	<0.5	<0.5	<0.5	<0.5	**9.93**	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Surface	12/16/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bottom	12/16/2013	<0.5	<0.5	<0.5	<0.5	**14.4**	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Surface	12/15/2014	<1	<1	<1	<1	1.55 J	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	12/15/2014	<1	<1	<1	<1	1.53 J	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	10/22/2015	<1	<1	<1	<1	<2	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	10/22/2015	<1	<1	<1	<1	<2	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5

ug/l = micrograms per liter
J = Estimated value
B = Analyte detected in method blank as well as sample
Bold type indicates value exceeds NC 2B surface water quality standard (WS-IV)

ND = Not Detected
NE = Not Established
NA = Not Analyzed
NC 2B Std. (WS-IV) = North Carolina 2B surface water quality standard for Class WS-IV waters
Values separated by slash (/) indicates split sample results

TABLE 4
FIELD PARAMETER DATA - GROUND WATER AND SURFACE WATER
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

Sample Identification	Date	Temperature (degrees Celsius)	pH (Std. Units)	Dissolved Oxygen (mg/l)	Conductivity (uS/cm)
Ground Water					
MRF-1	2/24/2009	17.0	6.1		900
MW-1	3/5/2009	14.8	3.9		194
	3/31/2010	16.5	6.6		2840
	11/2/2011	14.2	8.2	9.7	228
	11/20/2012	13.6	9.4	3.5	458
	12/9/2013	13.5	12.0	3.6	3
	12/8/2014	12.1	7.8	4.6	352
	10/26/2015	13.7	8.0	3.5	0
MW-2C	2/24/2009	14.4	6.6		688
MW-3B	9/26/2000	15.7	6.2		2000
	9/5/2001	17.8	6.4		1930
MW-3C	9/26/2000	15.4	6.3		1520
	9/5/2001	17.6	6.5		1570
	9/18/2002	16.9	6.8		1820
	8/17/2004	18.2	6.6		1461
	2/27/2009	15.7	6.4		686
	3/30/2010	17.5	7.7		2370
	11/1/2011	16.4	7.8	8.3	971
	11/20/2012	14.8	7.9	2.9	648
	12/11/2013	11.1	6.9	19.5	4
	12/11/2014	15.7	6.7	4.4	1915
	10/27/2015	15.3	6.5	1.9	1284
MW-5	2/24/2009	10.5	5.2		544
MW-6	9/26/2000	15.3	6.0		559
	9/6/2001	17.5	6.2		472
	9/19/2002	18.1	6.5		538
	8/18/2004	--	--		--
	3/3/2009	14.6	7.5		900
	3/30/2010	17.4	6.9		2730
	11/1/2011	17.6	8.9	7.3	40
	11/19/2012	20.6	7.3	2.9	1036
	12/11/2013	11.3	6.5	11.7	113
	12/12/2014	14.7	6.6	3.2	1163
	10/30/2015	16.0	7.1	1.3	719
MW-7B	3/3/2009	16.2	5.9		4220
MW-8	3/5/2009	16.9	5.1		990
MW-9	9/26/2000	14.9	5.8		1.17
	2/26/2009	12.4	8.0		1840
MW-10	9/26/2000	15.4	6.3		2.51
	9/6/2001	16.0	6.3		2480
	9/19/2002	16.1	6.7		2740
	9/16/2003	17.0	6.7		1940
	8/17/2004	16.0	6.4		2200
	3/6/2009	14.9	6.2		932
	3/29/2010	16.6	8.8		4510
	11/1/2011	16.9	7.1	9.4	1058
	11/19/2012	15.8	7.4	2.0	154
	12/10/2013	12.8	6.5	7.9	302
	12/10/2014	13.1	6.5	4.1	257
	10/26/2015	15.9	7.0	1.8	1523

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SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

Sample Identification	Date	Temperature (degrees Celsius)	pH (Std. Units)	Dissolved Oxygen (mg/l)	Conductivity (uS/cm)
MW-11	9/28/2000	17.2	6.5		5950
	9/10/2001	17.3	6.7		5860
	9/18/2002	16.5	7.0		5350
	8/17/2004	--	--		--
	3/4/2009	14.0	6.8		2990
MW-12A	9/28/2000	17.9	6.2		747
	10/30/2000	17.7	6.4		899
	9/6/2001	18.7	6.5		506
	9/20/2002	18.8	6.4		766
	9/16/2003	21.3	6.6		521
	8/18/2004	23.0	7.0		425
	3/6/2009	12.1	5.0		150
	4/1/2010	17.0	7.4		6660
	11/2/2011	10.9	9.6	1.1	1601
	11/19/2012	15.8	7.7	2.8	539
	12/10/2013	12.3	6.8	7.7	317
	12/11/2014	14.1	6.8	4.6	564
	10/27/2015	14.7	6.8	1.6	1948
MW-12B	9/28/2000	16.9	6.2		2620
	9/6/2001	17.7	6.4		2570
	9/20/2002	18.1	6.3		2930
	9/16/2003	18.3	6.7		2500
	8/18/2004	--	--		--
	3/4/2009	11.9	7.8		2990
	4/9/2010	16.6	6.2		412
	11/2/2011	16.4	9.0	2.7	1418
	11/19/2012	15.0	7.4	2.8	39
	12/10/2013	14.8	6.4	18.5	295
	12/11/2014	14.3	6.5	3.5	868
	10/27/2015	14.0	6.5	1.7	1475
MW-12D	9/29/2000	15.8	6.8		1110
	9/12/2001	16.2	7.8		949
	9/20/2002	19.5	7.6		520
	3/5/2009	13.4	11.9		208
	4/1/2010	19.6	9.6		91100
	11/2/2011	11.2	8.4	11.5	293
	11/23/2012	18.0	9.1	1.9	27
	12/11/2013	12.8	7.9	18.8	379
	12/11/2014	17.3	7.7	6.0	609
	10/25/2015	19.3	6.7	1.8	1210
MW-15A	9/5/2001	17.5	6.3		942
	9/18/2002	15.8	6.7		1150
	9/17/2003	15.8	5.9		932
	8/18/2004	--	--		--
	3/6/2009	15.1	6.3		427
	3/31/2010	17.7	7.7		4940
	11/2/2011	14.7	7.8	7.8	265
	11/19/2012	14.8	7.6	2.7	237
	12/10/2013	14.9	6.1	6.9	873
	12/8/2014	11.6	6.6	4.9	768
	10/27/2015	14.7	6.6	1.8	478
MW-16					
MW-17	3/5/2009	18.7	10.0		357
OW-DR1	9/27/2000	19.0	6.3		2120

TABLE 4
FIELD PARAMETER DATA - GROUND WATER AND SURFACE WATER
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

Sample Identification	Date	Temperature (degrees Celsius)	pH (Std. Units)	Dissolved Oxygen (mg/l)	Conductivity (uS/cm)
OW-DR2	9/26/2000	16.0	6.3		1850
	9/10/2001	15.6	6.5		1900
	2/27/2009	16.2	9.9		1760
	3/30/2010	17.1	8.2		4960
	11/1/2011	17.0	8.4	6.3	1060
	11/23/2012	14.7	7.7	1.9	789
	12/11/2013	13.2	8.4	2.9	837
	12/12/2014	14.4	7.0	3.1	1918
	10/30/2015	12.7	9.7	0.9	1388
OW-DR3	9/20/2002	16.7	6.3		2520
	8/24/2004	17.6	6.7		643
	3/4/2009	12.7	3.7		2460
	11/26/2012	17.5	6.1	2.5	1713
	12/10/2013	13.7	6.3	4.1	254
OW-DR4	9/23/2002	17.9	6.6		1720
	8/24/2004	17.5	6.3		1288
	2/25/2009	17.5	6.2		762
OW-LFS1	2/26/2009	15.2	6.0		3730
OW-LFS2	2/26/2009	14.5	5.4		3100
	3/30/2010	17.3	8.2		9990
	11/1/2011	16.9	7.7	6.2	141
	11/19/2012	17.4	7.6	2.7	367
	12/11/2013	12.2	6.4	8.4	668
	12/12/2014	14.7	6.5	4.6	1722
	10/26/2015	16.2	6.6	2.2	1302
OW-NIS1	3/10/2009	20.3	4.4		2650
OW-SF1	3/9/2009	18.0	3.8		802
OW-SIS1	8/17/2004	16.2	5.8		656.4
	3/9/2009	18.0	4.2		579
OW-SIS2	2/24/2009	16.0	6.1		155
OW-SIS3	3/4/2009	13.6	6.0		392
PW-2D	3/3/2009	15.2	7.8		1930
PW-3D	11/27/2012	9.3	10.0	5.0	375
	12/17/2013	8.6	12.7	18.7	128
	12/11/2014	14.1	8.6	1.8	572
	10/25/2015	18.8	6.3	0.6	397
PW-4I	9/28/2000	21.8	6.3		2010
	9/11/2001	19.7	6.4		1710
	9/19/2002	20.8	6.5		1890
	8/23/2004	20.4	3.1		1719
	3/5/2009	17.5	4.4		2160
	4/2/2010	16.6	7.6		1860
	11/2/2011	24.4	8.0	0.2	1017
	11/20/2012	18.9	7.2	2.0	920
	12/17/2013	12.1	6.7	19.6	807
	12/8/2014	13.9	6.3	1.5	1516
	10/29/2015	20.5	6.8	0.8	1675
PW-5D	9/26/2000	15.8	6.4		1620
	9/10/2001	16.0	6.7		1590
	9/23/2002	16.3	6.8		1610
	8/18/2004	16.5	6.4		1293
	3/27/2009	16.3	6.3		797
	3/30/2010	17.2	8.4		1690
	11/3/2011	17.3	8.4	8.3	1044
	11/23/2012	15.8	8.2	1.9	790
	12/16/2013	10.4	6.8	18.3	995
	12/11/2014	14.9	7.0	2.8	1609
	10/30/2015	15.8	7.8	1.3	955

TABLE 4
FIELD PARAMETER DATA - GROUND WATER AND SURFACE WATER
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

Sample Identification	Date	Temperature (degrees Celsius)	pH (Std. Units)	Dissolved Oxygen (mg/l)	Conductivity (uS/cm)
PW-6D	10/2/2000	16.5	7.7		320
	9/12/2001	15.4	8.0		472
	9/19/2002	15.9	8.1		356
	8/25/2004	15.7	7.9		276
	3/18/2009	16.7	7.3		363
	3/31/2010	17.4	7.4		408
New Well	12/10/2014	13.1	8.2	4.6	564
	10/30/2015	20.5	8.2	1.2	263
PW-6I	10/2/2000	15.9	6.2		573
	9/12/2001	14.5	6.2		816
	9/19/2002	15.3	6.3		631
	8/25/2004	15.1	6.3		544
	3/4/2009	13.5	6.2		404
	3/31/2010	17.9	6.0		1020
New Well	12/10/2014	11.0	7.6	3.5	1521
	10/27/2015	14.7	6.7	1.5	1201
PW-7I	9/28/2000	19.3	6.9		2230
	9/12/2001	16.6	6.6		3190
	9/20/2002	16.2	6.7		3250
	8/20/2004	19.6	6.6		2666
	3/4/2009	13.8	5.2		3010
PW-8S	9/27/2000	15.5	6.3		1130
	9/6/2001	19.0	6.5		1040
	9/17/2003	17.4	6.2		2080
	8/17/2004	20.0	6.3		1628
	3/3/2009	14.1	9.7		1670
PW-9I	9/27/2000	19.2	7.0		1860
	3/12/2009	19.0	5.4		1410
PW-10D	9/26/2000	15.1	8.3		703
	9/11/2001	15.5	6.9		769
	9/18/2002	19.8	9.8		354
	8/17/2004	18.0	9.3		235
	3/29/2010	18.1	9.9		920
	11/1/2011	19.3	7.7	6.8	53
	11/21/2012	14.3	12.8	4.7	103
	12/11/2013	13.3	12.0	4.6	120
	12/10/2014	13.6	9.8	4.6	342
	11/3/2015	17.7	7.1	2.7	1225
PW-10I	9/26/2000	16.7	6.1		787
	9/11/2001	15.6	6.2		1080
	9/18/2002	16.0	6.4		1210
	8/17/2004	15.9	6.3		1192
	3/12/2009	16.5	3.7		2110
	3/29/2010	15.6	7.7		3960
	11/1/2011	17.4	7.9	6.1	1123
	11/19/2012	15.0	7.3	1.9	1693
	12/11/2013	11.9	6.5	7.2	973
	12/10/2014	14.3	6.4	2.7	214
	10/29/2015	19.7	8.1	2.5	1356
PW-11I	9/29/2000	16.3	6.9		649
	9/11/2001	17.2	7.2		722
	9/18/2002	19.1	8.1		618
	8/25/2004	19.1	7.8		294
	3/5/2009	16.1	5.2		929

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SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

Sample Identification	Date	Temperature (degrees Celsius)	pH (Std. Units)	Dissolved Oxygen (mg/l)	Conductivity (uS/cm)
PW-12I	10/2/2000	23.1	7.1		659
	9/11/2001	15.9	6.5		554
	9/19/2002	17.6	6.7		689
	8/17/2004	17.3	5.8		525
	8/22/2006	16.9	5.5		90
	3/3/2009	13.9	6.1		752
	3/31/2010	17.0	6.4		634
	11/2/2011	21.3	8.9	1.5	47
	11/20/2012	16.3	8.1	3.4	152
	12/17/2013	11.8	7.0	8.8	160
	12/12/2014	11.7	7.1	9.2	880
	10/30/2015	15.8	7.2	2.9	650
PW-13I	9/29/2000	17.5	6.7		1100
	9/12/2001	18.3	6.9		937
	9/20/2002	18.4	7.2		999
	9/23/2003	17.8	6.3		890
	8/25/2004	17.8	7.0		896
	3/4/2009	16.5	6.7		483
	3/31/2010	18.5	8.1		1640
	11/3/2011	12.1	9.5	6.3	780
	11/23/2012	19.2	8.4	1.7	1323
	12/16/2013	13.1	6.8	8.7	319
	12/12/2014	17.5	6.9	2.9	1450
	10/26/2015	16.9	6.9	1.0	1701
PW-14D	10/31/2000	23.0	12.2		6.91
	9/10/2001	19.3	12.7		6,720
	8/19/2004	19.2	12.2		4941
	8/22/2006	20.5	12.8		613
	3/11/2009	18.9	9.7		6400
	3/31/2010	16.0	12.0		6640
	11/7/2011	14.8	9.6	7.5	1253
	11/27/2012	13.3	12.7	2.8	1776
	12/12/2013	9.5	7.0	2.6	629
	12/9/2014	16.8	12.1	5.2	381
	11/3/2015	18.1	9.1	1.7	340
PW-14S	10/30/2000	17.7	6.0		130
	9/6/2001	17.8	6.3		185
	8/19/2004	16.8	5.9		95
	8/22/2006	16.8	5.1		185
	3/10/2009	15.7	4.0		68
PW-15D	10/31/2000	15.5	6.8		1.46
	9/6/2001	16.8	6.7		1.68
	9/16/2003	16.3	7.5		730
	8/19/2004	--	--		--
	8/23/2006	16.0	6.3		1.6
	3/11/2009	19.0	4.0		79
	3/30/2010	15.9	6.2		1950
	11/7/2011	11.1	6.3	8.1	95
	11/26/2012	17.3	6.3	1.1	1204
	12/12/2013	9.4	6.9	7.0	727
	12/9/2014	16.1	7.0	2.8	1628
	10/28/2015	18.7	7.1	1.0	966
PW-15S	10/30/2000	16.7	6.4		467
	9/6/2001	16.3	7.2		648
	8/19/2004	--	--		--
	8/23/2006	17.9	6.5		604
	3/11/2009	17.6	4.5		432

TABLE 4
FIELD PARAMETER DATA - GROUND WATER AND SURFACE WATER
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

Sample Identification	Date	Temperature (degrees Celsius)	pH (Std. Units)	Dissolved Oxygen (mg/l)	Conductivity (uS/cm)
PW-16D	11/2/2000	17.1	7.4		85.7
	9/6/2001	15.7	7.3		96
	8/19/2004	16.5	7.2		845
	8/23/2006	15.8	6.7		125
	3/11/2009	19.1	3.8		633
	3/30/2010	15.4	6.6		1280
	11/7/2011	16.8	8.2	6.1	460
	11/26/2012	19.8	6.8	1.6	926
	12/12/2013	8.4	7.8	9.7	365
	12/9/2014	15.2	7.7	2.9	1327
	10/28/2015	18.6	7.1	0.8	815
PW-16S	10/30/2000	17.4	6.3		347
	9/6/2001	17.6	6.3		499
	8/19/2004	17.2	6.3		291
	8/23/2006	18.6	6.8		416
PW-17	11/3/2000	18.8	6.4		44.4
	9/12/2001	18.3	6.5		364
	9/18/2002	16.8	6.6		424
	8/19/2004	17.3	6.6		447
	3/5/2009	15.9	7.4		242
PW-18	11/3/2000	15.6	10.3		44.2
	9/10/2001	17.3	11.2		853
	9/16/2003	16.8	12.9		9040
	8/19/2004	--	--		--
	8/22/2006	18.5	13.1		121
	3/11/2009	20.3	8.7		1310
	3/31/2010	17.7	12.2		12200
	11/8/2011	7.7	6.1	9.6	954
	11/26/2012	15.1	12.0	3.1	393
	12/12/2013	10.6	12.5	8.7	66
	12/9/2014	14.1	12.2	7.6	1134
	10/26/2015	15.5	12.7	4.3	1102
PW-19	11/6/2001	15.3	7.2		268
	9/18/2002	18.6	7.5		387
	9/16/2003	11.8	8.9		483
	8/17/2004	16.2	7.8		450
	3/10/2009	17.1	9.2		299
PW-DR1	2/25/2009	13.6	6.2		1950
PW-SIS1	8/19/2004	15.7	6.8		536
	3/9/2009	17.2	5.8		210
PW-SF1	4/2/2010	17.6	8.8		3960
	11/3/2011	18.6	8.7	3.4	896
	11/20/2012	14.9	7.6	1.8	147
	12/9/2013	14.9	6.8	11.3	39
	12/8/2014	14.5	6.7	3.4	1272
	10/27/2015	14.1	6.8	3.1	1656
RW-LFS1	2/26/2009	14.8	6.0		3010
RW-LFS2	2/26/2009	15.7	6.2		2460
RW-NIS1	3/6/2009	15.0	5.1		3190

TABLE 4
FIELD PARAMETER DATA - GROUND WATER AND SURFACE WATER
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

Sample Identification	Date	Temperature (degrees Celsius)	pH (Std. Units)	Dissolved Oxygen (mg/l)	Conductivity (uS/cm)
RW-SIS2	3/9/2009	17.7	3.8		160
RW-SIS3	3/4/2009	15.6	6.0		681
RW-SIS4	3/4/2009	12.7	6.1		97
RW-SIS5	3/4/2009	12.5	6.7		425
RW-SIS6	3/4/2009	15.2	6.3		322
W-1	9/27/2000	16.2	6.5		330
	9/10/2001	17.5	6.6		296
	9/18/2002	17.1	6.6		307
	9/17/2003	17.6	6.3		448
	8/17/2004	17.1	6.8		390
	3/3/2009	16.4	6.9		484
W-4	9/27/2000	14.9	6.5		267
	9/10/2001	16.0	6.6		263
	9/17/2002	18.4	6.9		342
	9/17/2003	16.5	6.1		290
	8/17/2004	18.4	6.0		248
W-4A	9/27/2000	14.7	6.5		612
	9/10/2001	15.1	6.5		773
	9/14/2002	15.5	6.4		653
	9/17/2003	14.5	6.1		434
	8/17/2004	15.5	6.4		475
	2/27/2009	18.6	6.2		223
	3/31/2010	15.6	7.6		52100
	11/2/2011	14.7	9.0	1.0	695
	11/19/2012	14.5	7.6	3.4	32
	12/17/2013	10.8	6.5	9.5	546
	12/8/2014	12.5	6.6	4.2	1006
	10/27/2015	14.3	6.7	1.8	234
W-5	9/27/2000	15.7	6.4		2530
	10/30/2000	15.3	6.3		2580
	9/10/2001	15.9	6.4		2170
	9/18/2002	16.1	6.9		2060
	8/18/2004	--	--		--
	3/3/2009	14.1	6.3		556
W-6A	9/28/2000	17.1	5.9		4950
W-18	3/5/2009	14.6	6.1		361
W-21	9/28/2000	14.3	6.0		343
	9/10/2001	14.8	6.6		310
	9/17/2002	15.5	6.7		342
	9/17/2003	14.9	6.1		360
	8/17/2004	16.8	6.5		292
	2/24/2009	13.4	6.6		900
W-23A	3/4/2009	11.8	6.4		426
W-24	3/5/2009				

TABLE 4
FIELD PARAMETER DATA - GROUND WATER AND SURFACE WATER
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

Sample Identification	Date	Temperature (degrees Celsius)	pH (Std. Units)	Dissolved Oxygen (mg/l)	Conductivity (uS/cm)
Surface Water					
SW-1	11/2/2000	10.4	6.7		175
	9/14/2001	20.1	6.4		153
	9/24/2002	Dry	--		--
	9/16/2003	19.9	6.8		119
	8/23/2004	20.2	7.4		59
	10/22/2015	Dry			
SW-2	11/2/2000	16.6	7.2		2070
	9/14/2001	21.2	7.1		1640
	9/24/2002	20.9	5.8		1870
	9/15/2003	21.8	7.2		2160
	8/23/2004	24.8	7.3		98
	8/22/2006	20.8	7.0		226
	4/1/2010	15.3	7.5		103
	11/3/2011	14.3	8.4		378
	11/20/2012	Dry			
	12/11/2013	Dry			
	12/8/2014	Dry			
	10/22/2015	Dry			
SW-3	11/2/2000	11.0	8.0		359
	9/14/2001	20.1	7.3		199
	9/24/2002	19.3	6.7		3450
	9/16/2003	19.7	7.3		244
	8/25/2004	23.1	8.1		133
	8/22/2006	23.2	7.5		480
	4/1/2010	15.6	7.6		6850
	11/3/2011	10.6	8.9	11.1	261
	11/20/2012	11.1	9.1	6.0	35
	12/11/2013	5.5	9.0	1.6	144
	12/8/2014	10.2	8.4	16.2	108
	10/22/2015	16.6	7.5	4.8	224
SW-3A	8/25/2004	21.9	8.1		126
SW-3B	8/25/2004	21.9	7.7		123
SW-4	11/2/2000	12.8	6.9		964
	9/14/2001	19.9	7.2		771
	9/15/2003	25.0	7.5		473
	8/25/2004	22.9	7.5		452
	8/22/2006	22.2	7.3		112
	4/1/2010	14.9	7.7		102
	11/3/2011	14.5	7.7	6.1	671
	11/20/2012	11.5	9.1	5.6	22
	12/13/2013	4.2	8.8	9.5	1
	12/8/2014	7.2	8.3	17.4	147
	10/22/2015	15.8	8.4	4.8	0
SW-5	11/2/2000	14.7	6.9		415
	9/14/2001	19.7	6.7		295
	9/24/2002	19.7	6.7		295
	9/16/2003	20.6	7.0		300
	8/25/2004	21.1	7.5		168
	8/22/2006	22.2	7.5		540
	4/1/2010	17.1	7.4		6760
	11/3/2011	11.9	9.6	9.9	212
	11/20/2012	11.5	9.1	5.6	22
	12/16/2013	8.7	8.5	9.7	78
	12/8/2014	7.7	10.1	11.0	229
	10/22/2015	16.3	7.3	4.9	199

TABLE 4
FIELD PARAMETER DATA - GROUND WATER AND SURFACE WATER
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

Sample Identification	Date	Temperature (degrees Celsius)	pH (Std. Units)	Dissolved Oxygen (mg/l)	Conductivity (uS/cm)
SW-6	11/2/2000	11.4	7.5		215
	9/14/2001	22.4	6.9		133
	9/24/2002	22.4	7.5		168
	9/16/2003	21.5	7.4		117
	8/25/2004	26.4	8.2		82
	8/22/2006	25.7	7.7		168
	4/1/2010	14.3	8.3		103
	11/3/2011	14.5	10.3	6.8	326
shallow - 1'	11/21/2012	8.1	9.0	5.4	8
deep - 8.5'	11/21/2012	8.7	9.3	5.2	79
shallow - 1'	12/13/2013	5.2	8.2	9.8	45
deep - 11'	12/13/2013	5.6	8.3	9.5	26
shallow - 1'	12/15/2014	9.0	8.6	13.9	212
deep - 8.6'	12/15/2014	9.1	8.7	13.3	279
shallow - 1'	10/22/2015	21.6	7.5	3.9	127
deep - 8.6'	10/22/2015	20.3	7.4	4.1	97
SW-7	11/3/2000	9.0	6.3		319
	9/13/2001	20.3	6.8		220
	9/24/2002	21.8	6.6		263
	9/15/2003	23.8	7.0		156
	8/23/2004	25.5	7.2		85
	4/1/2010	13.4	7.4		103
	11/3/2011	11.8	9.0	13.3	84
shallow - 1'	11/21/2012	10.5	9.1	6.4	58
deep - 11.5'	11/21/2012	10.7	9.0	6.8	319
shallow - 1'	12/13/2013	6.6	8.2	9.1	18
deep - 13'	12/13/2013	6.4	8.2	9.6	4
shallow - 1'	12/15/2014	10.5	8.6	13.4	186
deep - 12.3'	12/15/2014	11.1	8.4	13.8	179
shallow - 1'	10/22/2015	18.6	8.6	5.4	75
deep - 12.1'	10/22/2015	18.3	8.6	5.5	64
SW-DRP-2	11/3/2000	13.5	6.5		1870
East	9/14/2001	20.3	7.0		224
West	9/14/2001	20.5	6.9		239
	9/15/2003	23.1	7.1		150
	8/23/2004	22.0	3.7		386
	4/1/2010	14.1	7.8		102
	11/3/2011	11.5	8.8	10.9	140
shallow - 1'	11/21/2012	10.2	8.9	5.9	43
deep - 12.5'	11/21/2012	9.9	9.1	5.6	67
shallow - 1'	12/13/2013	5.8	8.2	9.4	10
deep - 10'	12/13/2013	5.7	6.9	9.9	28
shallow - 1'	12/15/2014	10.2	8.7	16.5	176
deep - 12.3'	12/15/2014	10.2	8.5	16.3	176
shallow - 1'	10/22/2015	15.9	8.1	6.3	0
deep - 12.3'	10/22/2015	16.0	8.1	6.4	0
SW-DRP-4	11/3/2000	13.1	6.3		544
East	9/14/2001	18.8	6.1		286
West	9/14/2001	17.7	6.8		237
	9/15/2003	23.4	7.1		182
SW-DRP-10	11/2/2000	12.6	6.9		306
East	9/13/2001	21.9	7.6		214
West	9/13/2001	21.4	7.2		215
	9/15/2003	23.5	7.1		154

TABLE 4
FIELD PARAMETER DATA - GROUND WATER AND SURFACE WATER
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

Sample Identification	Date	Temperature (degrees Celsius)	pH (Std. Units)	Dissolved Oxygen (mg/l)	Conductivity (uS/cm)
SW-DRP-11	11/2/2000	16.5	6.4		559
	9/13/2001	20.4	6.4		343
	9/24/2002	23.6	6.3		527
	9/15/2003	25.4	6.8		357
	8/23/2004	15.7	7.9		276
	4/1/2010	14.0	7.3		104
	11/3/2011	13.5	9.1	12.2	58
shallow - 1'	11/21/2012	9.2	11.0	8.2	27
deep - 9'	11/21/2012	10.3	9.3	8.3	26
shallow - 1'	12/16/2013	5.6	8.5	9.7	1
deep - 12'	12/16/2013	5.4	8.7	9.2	34
shallow - 1'	12/15/2014	7.5	8.9	16.4	164
deep - 11.6'	12/15/2014	9.3	8.8	16.9	198
shallow - 1'	10/22/2015	18.4	7.9	5.6	0
deep - 11.7'	10/22/2015	18.0	7.6	6.0	0
SWT-40					
East @ 1' ^	9/13/2001	21.9	7.0		219
East @ 3.25' ^	9/13/2001	22.0	7.0		219
West @ 0.5' ^	9/13/2001	21.8	7.0		217
SWT-50					
East @ 1' ^	9/13/2001	21.0	7.5		217
East @ 3' ^	9/13/2001	22.1	7.0		216
West @ 1' ^	9/13/2001	21.6	7.0		216
SWT-70					
East	9/13/2001	22.0	7.1		216
West	9/13/2001	20.8	7.2		216
RCP-1	11/2/2000	15.3	6.6		277
RCP-2	11/2/2000	15.4	6.6		248

TABLE 5
*MONITORING WELL LATITUDE/LONGITUDE, DEPTHS AND ELEVATIONS **
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Facility Name	Seaboard Chemical/Riverdale Drive Landfill							
EPA ID Number	NCD 071 574 164							
Well ID	Type	Well Use	Northing	Easting	Reference	Source of Information	TOC Elevation	Well Depth
MW-1	well	monitoring	801318.45	1729231.88	state plane coord	Jamestown Engineering	790.46	57.7
MW-3C	well	monitoring	801265.20	1731350.08	state plane coord	Jamestown Engineering	692.74	57
MW-6	well	monitoring	799702.65	1731990.93	state plane coord	Jamestown Engineering	761.47	110
MW-10	well	monitoring	800464.20	1732378.92	state plane coord	Jamestown Engineering	695.01	28
MW-12A	well	monitoring	801788.63	1730912.94	state plane coord	Jamestown Engineering	693.07	20
MW-12B	well	monitoring	801780.30	1730911.77	state plane coord	Jamestown Engineering	693.86	58
MW-12D	well	monitoring	801770.20	1730908.12	state plane coord	Jamestown Engineering	694.21	202
MW-15A	well	monitoring	800903.23	1730181.46	state plane coord	Jamestown Engineering	764.33	34
OW-DR2	well	monitoring	801266.66	1731357.68	state plane coord	Jamestown Engineering	695.87	186
OW-DR3	well	monitoring	801185.56	1731735.15	state plane coord	Jamestown Engineering	702.93	160
OW-LFS-2	well	monitoring	800674.15	1732093.91	state plane coord	Jamestown Engineering	699.45	50
PW-3D	well	monitoring	800603.04	1730831.13	state plane coord	Jamestown Engineering	738.60	209.5
PW-4I	well	monitoring	800545.88	1731099.56	state plane coord	Jamestown Engineering	737.59	122
PW-5D	well	monitoring	801164.35	1731363.53	state plane coord	Jamestown Engineering	696.27	306.5
PW-6D	well	monitoring	801425.12	1732032.71	state plane coord	Jamestown Engineering	696.79	275
PW-6I	well	monitoring	801415.38	1732022.44	state plane coord	Jamestown Engineering	697.41	75
PW-10D	well	monitoring	800446.73	1732384.15	state plane coord	Jamestown Engineering	697.26	200
PW-10I	well	monitoring	800456.28	1732373.34	state plane coord	Jamestown Engineering	695.97	100
PW-12I	well	monitoring	799844.10	1730816.38	state plane coord	Jamestown Engineering	749.48	105
PW-13I	well	monitoring	801310.27	1730977.69	state plane coord	Jamestown Engineering	739.01	250
PW-14D	well	monitoring	801653.66	1731389.41	state plane coord	Jamestown Engineering	686.50 *	198.8
PW-15D	well	monitoring	801544.36	1731748.91	state plane coord	Jamestown Engineering	685.80	163.5
PW-16D	well	monitoring	801711.36	1732067.64	state plane coord	Jamestown Engineering	686.68	179
W-4A	well	monitoring	800667.98	1730625.66	state plane coord	Jamestown Engineering	712.64	38.5

* Elevation corrected for repairs performed on PW-14D during October 2015 monitoring event.

APPENDIX A
Laboratory Report

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

Monday, November 16, 2015

Babb & Associates (BA024)

Attn: Gary Babb

3605 Country Cove Lane

Raleigh, NC 27606

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: Seaboard/Riverdale Landfill
ENCO Workorder(s): C513825,C513878,C514028,C514125

Dear Gary Babb,

Enclosed is a copy of your laboratory report for test samples received by our laboratory between Wednesday, October 28, 2015 and Wednesday, November 4, 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,

Bill Scott

Bill Scott

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 120.

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-1 | **Lab ID: C513825-01** | **Sampled: 10/26/15 11:41** | **Received: 10/28/15 10:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/09/15	11/03/15 15:47	11/3/2015 20:40
EPA 8260C	11/09/15	11/02/15 00:00	11/2/2015 10:57

Client ID: MW-3C | **Lab ID: C513825-02** | **Sampled: 10/27/15 14:57** | **Received: 10/28/15 10:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260C	11/10/15	11/02/15 00:00	11/2/2015 11:31

Client ID: MW-3C | **Lab ID: C513825-02RE1** | **Sampled: 10/27/15 14:57** | **Received: 10/28/15 10:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/10/15	11/04/15 17:22	11/4/2015 21:00

Client ID: MW-10 | **Lab ID: C513825-03** | **Sampled: 10/26/15 15:37** | **Received: 10/28/15 10:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/09/15	11/03/15 15:47	11/3/2015 21:10
EPA 8260C	11/09/15	11/02/15 00:00	11/2/2015 12:06

Client ID: MW-12A | **Lab ID: C513825-04** | **Sampled: 10/27/15 11:20** | **Received: 10/28/15 10:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/10/15	11/03/15 16:40	11/4/2015 09:02
EPA 8260C	11/10/15	11/02/15 00:00	11/2/2015 12:42

Client ID: MW-12B | **Lab ID: C513825-05** | **Sampled: 10/27/15 11:05** | **Received: 10/28/15 10:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260C	11/10/15	11/02/15 00:00	11/2/2015 13:18

Client ID: MW-12B | **Lab ID: C513825-05RE1** | **Sampled: 10/27/15 11:05** | **Received: 10/28/15 10:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/10/15	11/04/15 17:22	11/4/2015 21:28

Client ID: MW-15A | **Lab ID: C513825-06** | **Sampled: 10/27/15 09:15** | **Received: 10/28/15 10:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260C	11/10/15	11/02/15 00:00	11/2/2015 13:56

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Client ID: MW-15A	Lab ID: C513825-06RE1	Sampled: 10/27/15 09:15	Received: 10/28/15 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/10/15	11/04/15 17:22	11/4/2015 21:57

Client ID: OW-LFS2	Lab ID: C513825-07	Sampled: 10/26/15 15:35	Received: 10/28/15 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/09/15	11/03/15 15:47	11/3/2015 21:39
EPA 8260C	11/09/15	11/02/15 00:00	11/2/2015 14:34

Client ID: PW-6I	Lab ID: C513825-08	Sampled: 10/27/15 16:53	Received: 10/28/15 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/10/15	11/03/15 16:40	11/4/2015 10:28
EPA 8260C	11/10/15	11/02/15 00:00	11/2/2015 15:09

Client ID: PW-13I	Lab ID: C513825-09	Sampled: 10/26/15 17:01	Received: 10/28/15 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260C	11/09/15	11/02/15 00:00	11/2/2015 15:45

Client ID: PW-13I	Lab ID: C513825-09RE1	Sampled: 10/26/15 17:01	Received: 10/28/15 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/09/15	11/03/15 16:46	11/6/2015 04:23

Client ID: PW-18	Lab ID: C513825-10	Sampled: 10/26/15 13:30	Received: 10/28/15 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/09/15	11/03/15 15:47	11/3/2015 22:38
EPA 8260C	11/09/15	11/02/15 00:00	11/2/2015 16:20

Client ID: PW-SF1	Lab ID: C513825-11RE1	Sampled: 10/27/15 16:56	Received: 10/28/15 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/10/15	11/04/15 17:22	11/4/2015 22:26
EPA 8260C	11/10/15	11/03/15 00:00	11/3/2015 10:54

Client ID: W4-A	Lab ID: C513825-12	Sampled: 10/27/15 09:45	Received: 10/28/15 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260C	11/10/15	11/02/15 00:00	11/2/2015 17:33

Client ID: W4-A	Lab ID: C513825-12RE1	Sampled: 10/27/15 09:45	Received: 10/28/15 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/10/15	11/03/15 16:46	11/6/2015 04:52

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Client ID: PW-15D	Lab ID: C513878-01	Sampled: 10/28/15 13:58	Received: 10/30/15 09:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260C	11/11/15	11/03/15 00:00	11/3/2015 14:27

Client ID: PW-15D	Lab ID: C513878-01RE1	Sampled: 10/28/15 13:58	Received: 10/30/15 09:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/11/15	11/03/15 16:46	11/6/2015 21:18

Client ID: PW-16D	Lab ID: C513878-02	Sampled: 10/28/15 11:44	Received: 10/30/15 09:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260C	11/11/15	11/03/15 00:00	11/3/2015 15:01

Client ID: PW-16D	Lab ID: C513878-02RE1	Sampled: 10/28/15 11:44	Received: 10/30/15 09:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/11/15	11/03/15 16:46	11/6/2015 21:47

Client ID: PW-3D	Lab ID: C513878-03	Sampled: 10/29/15 15:15	Received: 10/30/15 09:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/12/15	11/03/15 16:46	11/6/2015 07:45
EPA 8260C	11/12/15	11/03/15 00:00	11/3/2015 15:38

Client ID: PW-4I	Lab ID: C513878-04	Sampled: 10/29/15 16:01	Received: 10/30/15 09:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260C	11/12/15	11/03/15 00:00	11/3/2015 16:14

Client ID: PW-4I	Lab ID: C513878-04RE1	Sampled: 10/29/15 16:01	Received: 10/30/15 09:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/12/15	11/03/15 16:46	11/6/2015 22:16

Client ID: PW-10I	Lab ID: C513878-05	Sampled: 10/29/15 13:56	Received: 10/30/15 09:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260C	11/12/15	11/03/15 00:00	11/3/2015 16:51

Client ID: PW-10I	Lab ID: C513878-05RE1	Sampled: 10/29/15 13:56	Received: 10/30/15 09:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/12/15	11/03/15 16:46	11/6/2015 22:45

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Client ID: MW-12D	Lab ID: C513878-06RE1	Sampled: 10/29/15 09:40	Received: 10/30/15 09:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/12/15	11/03/15 16:46	11/6/2015 23:13
EPA 8260C	11/12/15	11/04/15 00:00	11/4/2015 11:55

Client ID: Trip Blank	Lab ID: C513878-07	Sampled: 10/28/15 13:58	Received: 10/30/15 09:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/11/15	11/03/15 16:46	11/4/2015 04:02
EPA 8260C	11/11/15	11/03/15 00:00	11/3/2015 13:53

Client ID: MW-6	Lab ID: C514028-01	Sampled: 10/30/15 09:22	Received: 10/31/15 11:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/13/15	11/06/15 15:48	11/7/2015 07:22
EPA 8260C	11/13/15	11/03/15 00:00	11/3/2015 18:42

Client ID: OW DR-2	Lab ID: C514028-02	Sampled: 10/30/15 14:37	Received: 10/31/15 11:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260C	11/13/15	11/03/15 00:00	11/3/2015 19:19

Client ID: OW DR-2	Lab ID: C514028-02RE1	Sampled: 10/30/15 14:37	Received: 10/31/15 11:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/13/15	11/09/15 14:56	11/10/2015 13:34

Client ID: PW-5D	Lab ID: C514028-03	Sampled: 10/30/15 10:15	Received: 10/31/15 11:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260C	11/13/15	11/03/15 00:00	11/3/2015 19:54

Client ID: PW-5D	Lab ID: C514028-03RE1	Sampled: 10/30/15 10:15	Received: 10/31/15 11:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/13/15	11/09/15 14:56	11/10/2015 14:03

Client ID: PW-6D	Lab ID: C514028-04	Sampled: 10/30/15 12:50	Received: 10/31/15 11:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/13/15	11/06/15 15:48	11/7/2015 08:48

Client ID: PW-6D	Lab ID: C514028-04RE1	Sampled: 10/30/15 12:50	Received: 10/31/15 11:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260C	11/13/15	11/04/15 00:00	11/4/2015 13:06

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Client ID: PW-12I	Lab ID: C514028-05	Sampled: 10/30/15 11:56	Received: 10/31/15 11:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/13/15	11/06/15 15:48	11/7/2015 09:17

Client ID: PW-12I	Lab ID: C514028-05RE1	Sampled: 10/30/15 11:56	Received: 10/31/15 11:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260C	11/13/15	11/04/15 00:00	11/4/2015 13:43

Client ID: Trip Blank	Lab ID: C514028-06	Sampled: 10/30/15 09:22	Received: 10/31/15 11:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/13/15	11/06/15 15:48	11/7/2015 04:01
EPA 8260C	11/13/15	11/03/15 00:00	11/3/2015 18:06

Client ID: PW-14D	Lab ID: C514125-01	Sampled: 11/03/15 15:39	Received: 11/04/15 09:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/17/15	11/11/15 08:48	11/11/2015 18:37
EPA 8260C	11/17/15	11/09/15 00:00	11/9/2015 18:40

Client ID: PW-10D	Lab ID: C514125-02	Sampled: 11/03/15 12:25	Received: 11/04/15 09:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/17/15	11/06/15 15:48	11/11/2015 06:40
EPA 8260C	11/17/15	11/09/15 00:00	11/9/2015 19:18

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: MW-3C **Lab ID: C513825-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dioxane	308	D	10	12.0	20.0	10	ug/L	EPA 8260C	

Client ID: MW-3C **Lab ID: C513825-02RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1,1-Trichloroethane	66	D	10	1.2	10	1	ug/L	EPA 8260B	
1,1-Dichloroethane	210	D	10	1.3	10	5	ug/L	EPA 8260B	
1,1-Dichloroethene	100	D	10	2.1	10	5	ug/L	EPA 8260B	
Benzene	10	D	10	1.5	10	1	ug/L	EPA 8260B	
Chlorobenzene	350	D	10	1.7	10	3	ug/L	EPA 8260B	
Chloroethane	40	D	10	2.3	10	10	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	410	D	10	1.5	10	5	ug/L	EPA 8260B	
Trichloroethene	9.4	JD	10	1.5	10	1	ug/L	EPA 8260B	
Vinyl chloride	67	D	10	3.2	10	1	ug/L	EPA 8260B	

Client ID: MW-10 **Lab ID: C513825-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dichlorobenzene	1.1		1	0.19	1.0	1	ug/L	EPA 8260B	
1,4-Dioxane	103	D	5	6.00	10.0	10	ug/L	EPA 8260C	

Client ID: MW-12A **Lab ID: C513825-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dichlorobenzene	2.2		1	0.19	1.0	1	ug/L	EPA 8260B	
1,4-Dioxane	200	D	10	12.0	20.0	10	ug/L	EPA 8260C	
Chlorobenzene	11		1	0.17	1.0	3	ug/L	EPA 8260B	

Client ID: MW-12B **Lab ID: C513825-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dioxane	117	D	5	6.00	10.0	10	ug/L	EPA 8260C	

Client ID: MW-12B **Lab ID: C513825-05RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dichlorobenzene	1.7		1	0.19	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	4.7		1	0.17	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	1.1	J	1	0.15	1.0	5	ug/L	EPA 8260B	

Client ID: MW-15A **Lab ID: C513825-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dioxane	1740	D	50	60.0	100	10	ug/L	EPA 8260C	

Client ID: MW-15A **Lab ID: C513825-06RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,2-Dichlorobenzene	4.2	JD	5	0.95	5.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	9.0	D	5	0.95	5.0	1	ug/L	EPA 8260B	
Chlorobenzene	410	D	5	0.85	5.0	3	ug/L	EPA 8260B	

Client ID: OW-LFS2 **Lab ID: C513825-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	1.8	J	1	0.13	1.0	5	ug/L	EPA 8260B	

Client ID: OW-LFS2 **Lab ID: C513825-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dichlorobenzene	3.4		1	0.19	1.0	1	ug/L	EPA 8260B	
1,4-Dioxane	253	D	10	12.0	20.0	10	ug/L	EPA 8260C	
Benzene	4.5		1	0.15	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	11		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	
o-Xylene	0.45	J	1	0.065	1.0	NE	ug/L	EPA 8260B	
Trichloroethene	0.93	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Xylenes (Total)	0.45	J	1	0.45	3.0	5	ug/L	EPA 8260B	

Client ID: PW-6I **Lab ID: C513825-08**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	20		1	0.13	1.0	5	ug/L	EPA 8260B	
1,1-Dichloroethene	1.1	J	1	0.21	1.0	5	ug/L	EPA 8260B	
1,2-Dichloroethane	3.3		1	0.21	1.0	1	ug/L	EPA 8260B	
1,4-Dichlorobenzene	1.1		1	0.19	1.0	1	ug/L	EPA 8260B	
1,4-Dioxane	46.7	D	2	2.40	4.00	10	ug/L	EPA 8260C	
Carbon disulfide	3.0	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Chlorobenzene	7.6		1	0.17	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	18		1	0.15	1.0	5	ug/L	EPA 8260B	
Tetrachloroethene	0.74	J	1	0.17	1.0	1	ug/L	EPA 8260B	
Trichloroethene	1.4		1	0.15	1.0	1	ug/L	EPA 8260B	

Client ID: PW-13I **Lab ID: C513825-09**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dioxane	88.6	D	5	6.00	10.0	10	ug/L	EPA 8260C	

Client ID: PW-13I **Lab ID: C513825-09RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	120		1	0.13	1.0	5	ug/L	EPA 8260B	
1,1-Dichloroethene	28		1	0.21	1.0	5	ug/L	EPA 8260B	
1,2-Dichloroethane	4.6		1	0.21	1.0	1	ug/L	EPA 8260B	
1,4-Dichlorobenzene	2.2		1	0.19	1.0	1	ug/L	EPA 8260B	
Benzene	3.2		1	0.15	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	18		1	0.17	1.0	3	ug/L	EPA 8260B	
Chloroethane	2.0	J	1	0.23	1.0	10	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	110		1	0.15	1.0	5	ug/L	EPA 8260B	
Tetrachloroethene	1.2		1	0.17	1.0	1	ug/L	EPA 8260B	
Trichloroethene	2.1		1	0.15	1.0	1	ug/L	EPA 8260B	
Vinyl chloride	41		1	0.32	1.0	1	ug/L	EPA 8260B	

Client ID: PW-18 **Lab ID: C513825-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
4-Methyl-2-pentanone	19	J	1	1.1	5.0	100	ug/L	EPA 8260B	
Acetone	40	J	1	1.2	5.0	100	ug/L	EPA 8260B	
m,p-Xylenes	0.72	J	1	0.17	2.0	NE	ug/L	EPA 8260B	
o-Xylene	0.53	J	1	0.065	1.0	NE	ug/L	EPA 8260B	
Toluene	0.65	J	1	0.14	1.0	1	ug/L	EPA 8260B	
Xylenes (Total)	1.2	J	1	0.45	3.0	5	ug/L	EPA 8260B	

Client ID: PW-SF1 **Lab ID: C513825-11RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes

Client ID: PW-SF1 **Lab ID: C513825-11RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1,1-Trichloroethane	1100	D	100	12	100	1	ug/L	EPA 8260B	
1,1-Dichloroethane	3200	D	100	13	100	5	ug/L	EPA 8260B	
1,1-Dichloroethene	3600	D	100	21	100	5	ug/L	EPA 8260B	
1,2-Dichloroethane	780	D	100	21	100	1	ug/L	EPA 8260B	
1,4-Dioxane	3550	D	100	120	200	10	ug/L	EPA 8260C	
Chlorobenzene	2100	D	100	17	100	3	ug/L	EPA 8260B	
Chloroethane	790	D	100	23	100	10	ug/L	EPA 8260B	
Chloroform	160	D	100	18	100	5	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	18000	D	100	15	100	5	ug/L	EPA 8260B	
Tetrachloroethene	420	D	100	17	100	1	ug/L	EPA 8260B	
Toluene	800	D	100	14	100	1	ug/L	EPA 8260B	
Trichloroethene	2200	D	100	15	100	1	ug/L	EPA 8260B	
Trichlorofluoromethane	79	JD	100	24	100	1	ug/L	EPA 8260B	
Vinyl chloride	4700	D	100	32	100	1	ug/L	EPA 8260B	

Client ID: W4-A **Lab ID: C513825-12**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dioxane	962	D	100	120	200	10	ug/L	EPA 8260C	

Client ID: W4-A **Lab ID: C513825-12RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1,1-Trichloroethane	270	D	100	12	100	1	ug/L	EPA 8260B	
1,1-Dichloroethane	1400	D	100	13	100	5	ug/L	EPA 8260B	
1,1-Dichloroethene	640	D	100	21	100	5	ug/L	EPA 8260B	
Benzene	210	D	100	15	100	1	ug/L	EPA 8260B	
Chlorobenzene	110	D	100	17	100	3	ug/L	EPA 8260B	
Chloroethane	540	D	100	23	100	10	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	2500	D	100	15	100	5	ug/L	EPA 8260B	
Toluene	120	D	100	14	100	1	ug/L	EPA 8260B	
Trichloroethene	76	JD	100	15	100	1	ug/L	EPA 8260B	
Vinyl chloride	2200	D	100	32	100	1	ug/L	EPA 8260B	

Client ID: PW-15D **Lab ID: C513878-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dioxane	1280	D	100	120	200	10	ug/L	EPA 8260C	

Client ID: PW-15D **Lab ID: C513878-01RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1,1-Trichloroethane	68	D	50	6.0	50	1	ug/L	EPA 8260B	
1,1-Dichloroethane	570	D	50	6.5	50	5	ug/L	EPA 8260B	
1,1-Dichloroethene	220	D	50	10	50	5	ug/L	EPA 8260B	
Benzene	28	JD	50	7.5	50	1	ug/L	EPA 8260B	
Chlorobenzene	1300	D	50	8.5	50	3	ug/L	EPA 8260B	
Chloroethane	96	D	50	12	50	10	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	1000	D	50	7.5	50	5	ug/L	EPA 8260B	
Vinyl chloride	200	D	50	16	50	1	ug/L	EPA 8260B	

Client ID: PW-16D **Lab ID: C513878-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dioxane	772	D	50	60.0	100	10	ug/L	EPA 8260C	

Client ID: PW-16D **Lab ID: C513878-02RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1,1-Trichloroethane	51	D	20	2.4	20	1	ug/L	EPA 8260B	
1,1-Dichloroethane	480	D	20	2.6	20	5	ug/L	EPA 8260B	
1,1-Dichloroethene	190	D	20	4.2	20	5	ug/L	EPA 8260B	
1,2-Dichloroethane	18	JD	20	4.2	20	1	ug/L	EPA 8260B	
Benzene	22	D	20	3.0	20	1	ug/L	EPA 8260B	
Chlorobenzene	1000	D	20	3.4	20	3	ug/L	EPA 8260B	
Chloroethane	44	D	20	4.6	20	10	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	790	D	20	3.0	20	5	ug/L	EPA 8260B	
Vinyl chloride	160	D	20	6.4	20	1	ug/L	EPA 8260B	

Client ID: PW-3D **Lab ID: C513878-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1,1-Trichloroethane	2300	D	200	24	200	1	ug/L	EPA 8260B	
1,1-Dichloroethane	660	D	200	26	200	5	ug/L	EPA 8260B	
1,1-Dichloroethene	2100	D	200	42	200	5	ug/L	EPA 8260B	
1,2-Dichloroethane	17000	D	200	42	200	1	ug/L	EPA 8260B	
1,4-Dioxane	112	D	2	2.40	4.00	10	ug/L	EPA 8260C	
Benzene	350	D	200	30	200	1	ug/L	EPA 8260B	
Chlorobenzene	32000	D	200	34	200	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	380	D	200	30	200	5	ug/L	EPA 8260B	
Ethylbenzene	86	JD	200	26	200	1	ug/L	EPA 8260B	
Methylene chloride	1000	D	200	46	200	1	ug/L	EPA 8260B	
Tetrachloroethene	3300	D	200	34	200	1	ug/L	EPA 8260B	
Toluene	1400	D	200	28	200	1	ug/L	EPA 8260B	
Trichloroethene	7000	D	200	30	200	1	ug/L	EPA 8260B	
Trichlorofluoromethane	160	JD	200	48	200	1	ug/L	EPA 8260B	
Vinyl chloride	120	JD	200	64	200	1	ug/L	EPA 8260B	

Client ID: PW-4I **Lab ID: C513878-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dioxane	206	D	10	12.0	20.0	10	ug/L	EPA 8260C	

Client ID: PW-4I **Lab ID: C513878-04RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1,1-Trichloroethane	33	D	2	0.24	2.0	1	ug/L	EPA 8260B	
1,1-Dichloroethane	75	D	2	0.26	2.0	5	ug/L	EPA 8260B	
1,1-Dichloroethene	43	D	2	0.42	2.0	5	ug/L	EPA 8260B	
1,2-Dichloroethane	55	D	2	0.42	2.0	1	ug/L	EPA 8260B	
1,4-Dichlorobenzene	3.9	D	2	0.38	2.0	1	ug/L	EPA 8260B	
Benzene	2.0	D	2	0.30	2.0	1	ug/L	EPA 8260B	
Chlorobenzene	88	D	2	0.34	2.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	240	D	2	0.30	2.0	5	ug/L	EPA 8260B	
Tetrachloroethene	44	D	2	0.34	2.0	1	ug/L	EPA 8260B	
trans-1,2-Dichloroethene	1.3	JD	2	0.42	2.0	5	ug/L	EPA 8260B	
Trichloroethene	95	D	2	0.30	2.0	1	ug/L	EPA 8260B	
Vinyl chloride	57	D	2	0.64	2.0	1	ug/L	EPA 8260B	

Client ID: PW-10I **Lab ID: C513878-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dioxane	222	D	10	12.0	20.0	10	ug/L	EPA 8260C	

Client ID: PW-10I **Lab ID: C513878-05RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	16		1	0.13	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	2.3		1	0.19	1.0	1	ug/L	EPA 8260B	
Benzene	0.57	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	2.7	J	1	0.17	1.0	3	ug/L	EPA 8260B	
Chloroethane	3.3	J	1	0.23	1.0	10	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	4.2	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Vinyl chloride	3.9		1	0.32	1.0	1	ug/L	EPA 8260B	

Client ID: MW-12D **Lab ID: C513878-06RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dioxane	4.29	J	1	1.20	2.00	10	ug/L	EPA 8260C	
Chlorobenzene	1.1	J	1	0.17	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	0.49	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Trichloroethene	0.56	J	1	0.15	1.0	1	ug/L	EPA 8260B	

Client ID: MW-6 **Lab ID: C514028-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	10		1	0.13	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	1.5		1	0.19	1.0	1	ug/L	EPA 8260B	
1,4-Dioxane	44.8	D	2	2.40	4.00	10	ug/L	EPA 8260C	
Benzene	0.63	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	2.0	J	1	0.17	1.0	3	ug/L	EPA 8260B	
Chloroethane	2.2	J	1	0.23	1.0	10	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	8.3		1	0.15	1.0	5	ug/L	EPA 8260B	
Tetrachloroethene	0.99	J	1	0.17	1.0	1	ug/L	EPA 8260B	
Trichloroethene	1.2		1	0.15	1.0	1	ug/L	EPA 8260B	
Vinyl chloride	3.2		1	0.32	1.0	1	ug/L	EPA 8260B	

Client ID: OW DR-2 **Lab ID: C514028-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dioxane	1630	D	100	120	200	10	ug/L	EPA 8260C	

Client ID: OW DR-2 **Lab ID: C514028-02RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1,1-Trichloroethane	720	D	20	2.4	20	1	ug/L	EPA 8260B	
1,1-Dichloroethane	1300	D	20	2.6	20	5	ug/L	EPA 8260B	
1,1-Dichloroethene	800	D	20	4.2	20	5	ug/L	EPA 8260B	
1,2-Dichloroethane	71	D	20	4.2	20	1	ug/L	EPA 8260B	
Benzene	79	D	20	3.0	20	1	ug/L	EPA 8260B	
Chlorobenzene	3400	D	20	3.4	20	3	ug/L	EPA 8260B	
Chloroethane	480	D	20	4.6	20	10	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	3200	D	20	3.0	20	5	ug/L	EPA 8260B	
o-Xylene	24	D	20	1.3	20	NE	ug/L	EPA 8260B	
Tetrachloroethene	24	D	20	3.4	20	1	ug/L	EPA 8260B	
Toluene	95	D	20	2.8	20	1	ug/L	EPA 8260B	
trans-1,2-Dichloroethene	14	JD	20	4.2	20	5	ug/L	EPA 8260B	
Trichloroethene	22	D	20	3.0	20	1	ug/L	EPA 8260B	
Vinyl chloride	750	D	20	6.4	20	1	ug/L	EPA 8260B	
Xylenes (Total)	24	JD	20	9.0	60	5	ug/L	EPA 8260B	

Client ID: PW-5D **Lab ID: C514028-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dioxane	1390	D	100	120	200	10	ug/L	EPA 8260C	

Client ID: PW-5D **Lab ID: C514028-03RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1,1-Trichloroethane	280	D	20	2.4	20	1	ug/L	EPA 8260B	
1,1-Dichloroethane	870	D	20	2.6	20	5	ug/L	EPA 8260B	
1,1-Dichloroethene	490	D	20	4.2	20	5	ug/L	EPA 8260B	
1,2-Dichloroethane	61	D	20	4.2	20	1	ug/L	EPA 8260B	
Benzene	46	D	20	3.0	20	1	ug/L	EPA 8260B	
Chlorobenzene	2000	D	20	3.4	20	3	ug/L	EPA 8260B	
Chloroethane	52	D	20	4.6	20	10	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	1900	D	20	3.0	20	5	ug/L	EPA 8260B	
o-Xylene	13	JD	20	1.3	20	NE	ug/L	EPA 8260B	
Tetrachloroethene	14	JD	20	3.4	20	1	ug/L	EPA 8260B	
Toluene	45	D	20	2.8	20	1	ug/L	EPA 8260B	
trans-1,2-Dichloroethene	8.8	JD	20	4.2	20	5	ug/L	EPA 8260B	
Trichloroethene	9.2	JD	20	3.0	20	1	ug/L	EPA 8260B	
Vinyl chloride	380	D	20	6.4	20	1	ug/L	EPA 8260B	
Xylenes (Total)	13	JD	20	9.0	60	5	ug/L	EPA 8260B	

Client ID: PW-6D **Lab ID: C514028-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1,1-Trichloroethane	2.7		1	0.12	1.0	1	ug/L	EPA 8260B	
1,1-Dichloroethane	20		1	0.13	1.0	5	ug/L	EPA 8260B	
1,1-Dichloroethene	8.6		1	0.21	1.0	5	ug/L	EPA 8260B	
Benzene	0.90	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	46		1	0.17	1.0	3	ug/L	EPA 8260B	
Chloroethane	3.0	J	1	0.23	1.0	10	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	31		1	0.15	1.0	5	ug/L	EPA 8260B	
Vinyl chloride	7.9		1	0.32	1.0	1	ug/L	EPA 8260B	

Client ID: PW-6D **Lab ID: C514028-04RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dioxane	8.85	J	1	1.20	2.00	10	ug/L	EPA 8260C	

Client ID: PW-12I **Lab ID: C514028-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chlorobenzene	1.3	J	1	0.17	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	0.70	J	1	0.15	1.0	5	ug/L	EPA 8260B	

Client ID: PW-14D **Lab ID: C514125-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1,1-Trichloroethane	0.53	J	1	0.12	1.0	1	ug/L	EPA 8260B	
1,1-Dichloroethane	4.2	J	1	0.13	1.0	5	ug/L	EPA 8260B	
1,1-Dichloroethene	1.0	J	1	0.21	1.0	5	ug/L	EPA 8260B	
1,4-Dioxane	8.33	J	1	1.20	2.00	10	ug/L	EPA 8260C	
Acetone	8.5	J	1	1.2	5.0	100	ug/L	EPA 8260B	
Chlorobenzene	4.0		1	0.17	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	5.9		1	0.15	1.0	5	ug/L	EPA 8260B	

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ANALYTICAL RESULTS

Description: MW-1 **Lab Sample ID:** C513825-01 **Received:** 10/28/15 10:30

Matrix: Water **Sampled:** 10/26/15 11:41 **Work Order:** C513825

Project: Seaboard/Riverdale Landfill **Sampled By:** ROBERT WELDY

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	11/03/15 20:40	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	11/03/15 20:40	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/03/15 20:40	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/03/15 20:40	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	11/03/15 20:40	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/03/15 20:40	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/03/15 20:40	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/03/15 20:40	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/03/15 20:40	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/03/15 20:40	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	11/03/15 20:40	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/03/15 20:40	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	11/03/15 20:40	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/03/15 20:40	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/03/15 20:40	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/03/15 20:40	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/03/15 20:40	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/03/15 20:40	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/03/15 20:40	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/03/15 20:40	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/03/15 20:40	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/03/15 20:40	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/03/15 20:40	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/03/15 20:40	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/03/15 20:40	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/03/15 20:40	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	11/03/15 20:40	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/03/15 20:40	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/03/15 20:40	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	11/03/15 20:40	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/15 20:40	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/03/15 20:40	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/03/15 20:40	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/03/15 20:40	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/03/15 20:40	MSZ	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/03/15 20:40	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/03/15 20:40	MSZ	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	11/03/15 20:40	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/03/15 20:40	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/03/15 20:40	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/03/15 20:40	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/03/15 20:40	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/03/15 20:40	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/03/15 20:40	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/03/15 20:40	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/03/15 20:40	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/03/15 20:40	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/03/15 20:40	MSZ	

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Description: MW-1 | **Lab Sample ID:** C513825-01 | **Received:** 10/28/15 10:30

Matrix: Water | **Sampled:** 10/26/15 11:41 | **Work Order:** C513825

Project: Seaboard/Riverdale Landfill | **Sampled By:** ROBERT WELDY

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
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	11/03/15 20:40	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*107 %*	*53-136*	*5K03030*	*EPA 8260B*	*11/03/15 20:40*	*MSZ*	
Dibromofluoromethane	*51*	*1*	*50.0*	*102 %*	*67-129*	*5K03030*	*EPA 8260B*	*11/03/15 20:40*	*MSZ*	
Toluene-d8	*63*	*1*	*50.0*	*126 %*	*59-134*	*5K03030*	*EPA 8260B*	*11/03/15 20:40*	*MSZ*	

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Description: MW-1
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513825-01
Sampled: 10/26/15 11:41
Sampled By: ROBERT WELDY

Received: 10/28/15 10:30
Work Order: C513825

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	1.20	U	ug/L	1	1.20	2.00	10	EPA 8260C	11/02/15 10:57	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.59*	*1*	*5.00*	*112 %*	*79-127*	*5K02006*	*EPA 8260C*	*11/02/15 10:57*	*rgg*	

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

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Description: MW-3C
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513825-02
Sampled: 10/27/15 14:57
Sampled By: ROBERT WELDY

Received: 10/28/15 10:30
Work Order: C513825

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] ^	1.7	UD	ug/L	10	1.7	10	5	EPA 8260B	11/04/15 21:00	REF	
1,1,1-Trichloroethane [71-55-6] ^	**66**	D	ug/L	10	1.2	10	1	EPA 8260B	11/04/15 21:00	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	2.8	UD	ug/L	10	2.8	10	3	EPA 8260B	11/04/15 21:00	REF	
1,1,2-Trichloroethane [79-00-5] ^	1.4	UD	ug/L	10	1.4	10	1	EPA 8260B	11/04/15 21:00	REF	
1,1-Dichloroethane [75-34-3] ^	**210**	D	ug/L	10	1.3	10	5	EPA 8260B	11/04/15 21:00	REF	
1,1-Dichloroethene [75-35-4] ^	**100**	D	ug/L	10	2.1	10	5	EPA 8260B	11/04/15 21:00	REF	
1,2,3-Trichloropropane [96-18-4] ^	2.3	UD	ug/L	10	2.3	10	1	EPA 8260B	11/04/15 21:00	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	4.8	UD	ug/L	10	4.8	10	13	EPA 8260B	11/04/15 21:00	REF	
1,2-Dibromoethane [106-93-4] ^	6.6	UD	ug/L	10	6.6	10	1	EPA 8260B	11/04/15 21:00	REF	
1,2-Dichlorobenzene [95-50-1] ^	1.9	UD	ug/L	10	1.9	10	5	EPA 8260B	11/04/15 21:00	REF	
1,2-Dichloroethane [107-06-2] ^	2.1	UD	ug/L	10	2.1	10	1	EPA 8260B	11/04/15 21:00	REF	
1,2-Dichloropropane [78-87-5] ^	1.0	UD	ug/L	10	1.0	10	1	EPA 8260B	11/04/15 21:00	REF	
1,4-Dichlorobenzene [106-46-7] ^	1.9	UD	ug/L	10	1.9	10	1	EPA 8260B	11/04/15 21:00	REF	
2-Butanone [78-93-3] ^	13	UD	ug/L	10	13	50	100	EPA 8260B	11/04/15 21:00	REF	
2-Hexanone [591-78-6] ^	8.8	UD	ug/L	10	8.8	50	50	EPA 8260B	11/04/15 21:00	REF	
4-Methyl-2-pentanone [108-10-1] ^	11	UD	ug/L	10	11	50	100	EPA 8260B	11/04/15 21:00	REF	
Acetone [67-64-1] ^	12	UD	ug/L	10	12	50	100	EPA 8260B	11/04/15 21:00	REF	
Acrylonitrile [107-13-1] ^	35	UD	ug/L	10	35	100	200	EPA 8260B	11/04/15 21:00	REF	
Benzene [71-43-2] ^	**10**	D	ug/L	10	1.5	10	1	EPA 8260B	11/04/15 21:00	REF	
Bromochloromethane [74-97-5] ^	4.8	UD	ug/L	10	4.8	10	3	EPA 8260B	11/04/15 21:00	REF	
Bromodichloromethane [75-27-4] ^	1.7	UD	ug/L	10	1.7	10	1	EPA 8260B	11/04/15 21:00	REF	
Bromoform [75-25-2] ^	2.2	UD	ug/L	10	2.2	10	3	EPA 8260B	11/04/15 21:00	REF	
Bromomethane [74-83-9] ^	1.4	UD	ug/L	10	1.4	10	10	EPA 8260B	11/04/15 21:00	REF	
Carbon disulfide [75-15-0] ^	15	UD	ug/L	10	15	50	100	EPA 8260B	11/04/15 21:00	REF	
Carbon tetrachloride [56-23-5] ^	1.7	UD	ug/L	10	1.7	10	1	EPA 8260B	11/04/15 21:00	REF	
Chlorobenzene [108-90-7] ^	**350**	D	ug/L	10	1.7	10	3	EPA 8260B	11/04/15 21:00	REF	
Chloroethane [75-00-3] ^	**40**	D	ug/L	10	2.3	10	10	EPA 8260B	11/04/15 21:00	REF	
Chloroform [67-66-3] ^	1.8	UD	ug/L	10	1.8	10	5	EPA 8260B	11/04/15 21:00	REF	
Chloromethane [74-87-3] ^	1.3	UD	ug/L	10	1.3	10	1	EPA 8260B	11/04/15 21:00	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**410**	D	ug/L	10	1.5	10	5	EPA 8260B	11/04/15 21:00	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	2.0	UD	ug/L	10	2.0	10	1	EPA 8260B	11/04/15 21:00	REF	
Dibromochloromethane [124-48-1] ^	1.7	UD	ug/L	10	1.7	10	3	EPA 8260B	11/04/15 21:00	REF	
Dibromomethane [74-95-3] ^	2.7	UD	ug/L	10	2.7	10	10	EPA 8260B	11/04/15 21:00	REF	
Ethylbenzene [100-41-4] ^	1.3	UD	ug/L	10	1.3	10	1	EPA 8260B	11/04/15 21:00	REF	
Iodomethane [74-88-4] ^	17	UD	ug/L	10	17	50	10	EPA 8260B	11/04/15 21:00	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	1.7	UD	ug/L	10	1.7	20	NE	EPA 8260B	11/04/15 21:00	REF	
Methylene chloride [75-09-2] ^	2.3	UD	ug/L	10	2.3	10	1	EPA 8260B	11/04/15 21:00	REF	
o-Xylene [95-47-6] ^	0.65	UD	ug/L	10	0.65	10	NE	EPA 8260B	11/04/15 21:00	REF	
Styrene [100-42-5] ^	1.1	UD	ug/L	10	1.1	10	1	EPA 8260B	11/04/15 21:00	REF	
Tetrachloroethene [127-18-4] ^	1.7	UD	ug/L	10	1.7	10	1	EPA 8260B	11/04/15 21:00	REF	
Toluene [108-88-3] ^	1.4	UD	ug/L	10	1.4	10	1	EPA 8260B	11/04/15 21:00	REF	
trans-1,2-Dichloroethene [156-60-5] ^	2.1	UD	ug/L	10	2.1	10	5	EPA 8260B	11/04/15 21:00	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	1.5	UD	ug/L	10	1.5	10	1	EPA 8260B	11/04/15 21:00	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	7.0	UD	ug/L	10	7.0	10	100	EPA 8260B	11/04/15 21:00	REF	
Trichloroethene [79-01-6] ^	**9.4**	JD	ug/L	10	1.5	10	1	EPA 8260B	11/04/15 21:00	REF	
Trichlorofluoromethane [75-69-4] ^	2.4	UD	ug/L	10	2.4	10	1	EPA 8260B	11/04/15 21:00	REF	
Vinyl acetate [108-05-4] ^	9.5	UD	ug/L	10	9.5	50	50	EPA 8260B	11/04/15 21:00	REF	
Vinyl chloride [75-01-4] ^	**67**	D	ug/L	10	3.2	10	1	EPA 8260B	11/04/15 21:00	REF	
Xylenes (Total) [1330-20-7] ^	4.5	UD	ug/L	10	4.5	30	5	EPA 8260B	11/04/15 21:00	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes

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Description:	MW-3C	**Lab Sample ID:**	C513825-02	**Received:**	10/28/15 10:30
Matrix:	Water	**Sampled:**	10/27/15 14:57	**Work Order:**	C513825
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

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	*46*	*1*	*50.0*	*91 %*	*53-136*	*5K04034*	*EPA 8260B*	*11/04/15 21:00*	*REF*	
Dibromofluoromethane	*47*	*1*	*50.0*	*95 %*	*67-129*	*5K04034*	*EPA 8260B*	*11/04/15 21:00*	*REF*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*59-134*	*5K04034*	*EPA 8260B*	*11/04/15 21:00*	*REF*	

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Description:	MW-3C	**Lab Sample ID:**	C513825-02	**Received:**	10/28/15 10:30
Matrix:	Water	**Sampled:**	10/27/15 14:57	**Work Order:**	C513825
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**308**	D	ug/L	10	12.0	20.0	10	EPA 8260C	11/02/15 11:31	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*6.17*	*1*	*5.00*	*123 %*	*79-127*	*5K02006*	*EPA 8260C*	*11/02/15 11:31*	*rgg*	

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Description: MW-10 | **Lab Sample ID:** C513825-03 | **Received:** 10/28/15 10:30

Matrix: Water | **Sampled:** 10/26/15 15:37 | **Work Order:** C513825

Project: Seaboard/Riverdale Landfill | **Sampled By:** ROBERT WELDY

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	11/03/15 21:10	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	11/03/15 21:10	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/03/15 21:10	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/03/15 21:10	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	11/03/15 21:10	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/03/15 21:10	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/03/15 21:10	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/03/15 21:10	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/03/15 21:10	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/03/15 21:10	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	11/03/15 21:10	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/03/15 21:10	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	**1.1**		ug/L	1	0.19	1.0	1	EPA 8260B	11/03/15 21:10	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/03/15 21:10	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/03/15 21:10	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/03/15 21:10	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/03/15 21:10	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/03/15 21:10	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/03/15 21:10	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/03/15 21:10	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/03/15 21:10	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/03/15 21:10	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/03/15 21:10	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/03/15 21:10	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/03/15 21:10	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/03/15 21:10	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	11/03/15 21:10	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/03/15 21:10	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/03/15 21:10	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	11/03/15 21:10	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/15 21:10	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/03/15 21:10	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/03/15 21:10	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/03/15 21:10	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/03/15 21:10	MSZ	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/03/15 21:10	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/03/15 21:10	MSZ	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	11/03/15 21:10	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/03/15 21:10	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/03/15 21:10	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/03/15 21:10	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/03/15 21:10	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/03/15 21:10	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/03/15 21:10	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/03/15 21:10	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/03/15 21:10	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/03/15 21:10	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/03/15 21:10	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	11/03/15 21:10	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description: MW-10 | **Lab Sample ID:** C513825-03 | **Received:** 10/28/15 10:30

Matrix: Water | **Sampled:** 10/26/15 15:37 | **Work Order:** C513825

Project: Seaboard/Riverdale Landfill | **Sampled By:** ROBERT WELDY

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	*57*	*1*	*50.0*	*115 %*	*53-136*	*5K03030*	*EPA 8260B*	*11/03/15 21:10*	*MSZ*	
Dibromofluoromethane	*56*	*1*	*50.0*	*112 %*	*67-129*	*5K03030*	*EPA 8260B*	*11/03/15 21:10*	*MSZ*	
Toluene-d8	*61*	*1*	*50.0*	*123 %*	*59-134*	*5K03030*	*EPA 8260B*	*11/03/15 21:10*	*MSZ*	

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Description: MW-10
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513825-03
Sampled: 10/26/15 15:37
Sampled By: ROBERT WELDY

Received: 10/28/15 10:30
Work Order: C513825

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**103**	D	ug/L	5	6.00	10.0	10	EPA 8260C	11/02/15 12:06	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.14*	*1*	*5.00*	*103 %*	*79-127*	*5K02006*	*EPA 8260C*	*11/02/15 12:06*	*rgg*	

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Description: MW-12A
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513825-04
Sampled: 10/27/15 11:20
Sampled By: ROBERT WELDY

Received: 10/28/15 10:30
Work Order: C513825

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	11/04/15 09:02	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	11/04/15 09:02	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/04/15 09:02	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/04/15 09:02	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	11/04/15 09:02	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/04/15 09:02	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/04/15 09:02	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/04/15 09:02	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/04/15 09:02	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/04/15 09:02	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	11/04/15 09:02	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/04/15 09:02	REF	
1,4-Dichlorobenzene [106-46-7] ^	**2.2**		ug/L	1	0.19	1.0	1	EPA 8260B	11/04/15 09:02	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/04/15 09:02	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/04/15 09:02	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/04/15 09:02	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/04/15 09:02	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/04/15 09:02	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/04/15 09:02	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/04/15 09:02	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/04/15 09:02	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/04/15 09:02	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/04/15 09:02	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/04/15 09:02	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/04/15 09:02	REF	
Chlorobenzene [108-90-7] ^	**11**		ug/L	1	0.17	1.0	3	EPA 8260B	11/04/15 09:02	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	11/04/15 09:02	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/04/15 09:02	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/04/15 09:02	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	11/04/15 09:02	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/04/15 09:02	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/04/15 09:02	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/04/15 09:02	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/04/15 09:02	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/04/15 09:02	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/04/15 09:02	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/04/15 09:02	REF	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	11/04/15 09:02	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/04/15 09:02	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/04/15 09:02	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/04/15 09:02	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/04/15 09:02	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/04/15 09:02	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/04/15 09:02	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/04/15 09:02	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/04/15 09:02	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/04/15 09:02	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/04/15 09:02	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	11/04/15 09:02	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	MW-12A	**Lab Sample ID:**	C513825-04	**Received:**	10/28/15 10:30
Matrix:	Water	**Sampled:**	10/27/15 11:20	**Work Order:**	C513825
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

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	*44*	*1*	*50.0*	*89 %*	*53-136*	*5K03035*	*EPA 8260B*	*11/04/15 09:02*	*REF*	
Dibromofluoromethane	*46*	*1*	*50.0*	*91 %*	*67-129*	*5K03035*	*EPA 8260B*	*11/04/15 09:02*	*REF*	
Toluene-d8	*45*	*1*	*50.0*	*90 %*	*59-134*	*5K03035*	*EPA 8260B*	*11/04/15 09:02*	*REF*	

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Description:	MW-12A	**Lab Sample ID:**	C513825-04	**Received:**	10/28/15 10:30
Matrix:	Water	**Sampled:**	10/27/15 11:20	**Work Order:**	C513825
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**200**	D	ug/L	10	12.0	20.0	10	EPA 8260C	11/02/15 12:42	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.72*	*1*	*5.00*	*94 %*	*79-127*	*5K02006*	*EPA 8260C*	*11/02/15 12:42*	*rgg*	

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

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Description: MW-12B | **Lab Sample ID:** C513825-05 | **Received:** 10/28/15 10:30

Matrix: Water | **Sampled:** 10/27/15 11:05 | **Work Order:** C513825

Project: Seaboard/Riverdale Landfill | **Sampled By:** ROBERT WELDY

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	11/04/15 21:28	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	11/04/15 21:28	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/04/15 21:28	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/04/15 21:28	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	11/04/15 21:28	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/04/15 21:28	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/04/15 21:28	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/04/15 21:28	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/04/15 21:28	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/04/15 21:28	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	11/04/15 21:28	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/04/15 21:28	REF	
1,4-Dichlorobenzene [106-46-7] ^	**1.7**		ug/L	1	0.19	1.0	1	EPA 8260B	11/04/15 21:28	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/04/15 21:28	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/04/15 21:28	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/04/15 21:28	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/04/15 21:28	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/04/15 21:28	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/04/15 21:28	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/04/15 21:28	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/04/15 21:28	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/04/15 21:28	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/04/15 21:28	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/04/15 21:28	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/04/15 21:28	REF	
Chlorobenzene [108-90-7] ^	**4.7**		ug/L	1	0.17	1.0	3	EPA 8260B	11/04/15 21:28	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	11/04/15 21:28	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/04/15 21:28	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/04/15 21:28	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**1.1**	J	ug/L	1	0.15	1.0	5	EPA 8260B	11/04/15 21:28	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/04/15 21:28	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/04/15 21:28	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/04/15 21:28	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/04/15 21:28	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/04/15 21:28	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/04/15 21:28	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/04/15 21:28	REF	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	11/04/15 21:28	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/04/15 21:28	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/04/15 21:28	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/04/15 21:28	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/04/15 21:28	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/04/15 21:28	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/04/15 21:28	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/04/15 21:28	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/04/15 21:28	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/04/15 21:28	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/04/15 21:28	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	11/04/15 21:28	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes

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Description:	MW-12B	**Lab Sample ID:**	C513825-05	**Received:**	10/28/15 10:30
Matrix:	Water	**Sampled:**	10/27/15 11:05	**Work Order:**	C513825
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

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*	*95 %*	*53-136*	*5K04034*	*EPA 8260B*	*11/04/15 21:28*	*REF*	
Dibromofluoromethane	*47*	*1*	*50.0*	*93 %*	*67-129*	*5K04034*	*EPA 8260B*	*11/04/15 21:28*	*REF*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*59-134*	*5K04034*	*EPA 8260B*	*11/04/15 21:28*	*REF*	

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Description: MW-12B
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513825-05
Sampled: 10/27/15 11:05
Sampled By: ROBERT WELDY

Received: 10/28/15 10:30
Work Order: C513825

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**117**	D	ug/L	5	6.00	10.0	10	EPA 8260C	11/02/15 13:18	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.48*	*1*	*5.00*	*110 %*	*79-127*	*5K02006*	*EPA 8260C*	*11/02/15 13:18*	*rgg*	

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Description: MW-15A
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513825-06
Sampled: 10/27/15 09:15
Sampled By: ROBERT WELDY

Received: 10/28/15 10:30
Work Order: C513825

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] ^	0.85	UD	ug/L	5	0.85	5.0	5	EPA 8260B	11/04/15 21:57	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.60	UD	ug/L	5	0.60	5.0	1	EPA 8260B	11/04/15 21:57	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	1.4	UD	ug/L	5	1.4	5.0	3	EPA 8260B	11/04/15 21:57	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.70	UD	ug/L	5	0.70	5.0	1	EPA 8260B	11/04/15 21:57	REF	
1,1-Dichloroethane [75-34-3] ^	0.65	UD	ug/L	5	0.65	5.0	5	EPA 8260B	11/04/15 21:57	REF	
1,1-Dichloroethene [75-35-4] ^	1.0	UD	ug/L	5	1.0	5.0	5	EPA 8260B	11/04/15 21:57	REF	
1,2,3-Trichloropropane [96-18-4] ^	1.2	UD	ug/L	5	1.2	5.0	1	EPA 8260B	11/04/15 21:57	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	2.4	UD	ug/L	5	2.4	5.0	13	EPA 8260B	11/04/15 21:57	REF	
1,2-Dibromoethane [106-93-4] ^	3.3	UD	ug/L	5	3.3	5.0	1	EPA 8260B	11/04/15 21:57	REF	
1,2-Dichlorobenzene [95-50-1] ^	**4.2**	JD	ug/L	5	0.95	5.0	5	EPA 8260B	11/04/15 21:57	REF	
1,2-Dichloroethane [107-06-2] ^	1.0	UD	ug/L	5	1.0	5.0	1	EPA 8260B	11/04/15 21:57	REF	
1,2-Dichloropropane [78-87-5] ^	0.50	UD	ug/L	5	0.50	5.0	1	EPA 8260B	11/04/15 21:57	REF	
1,4-Dichlorobenzene [106-46-7] ^	**9.0**	D	ug/L	5	0.95	5.0	1	EPA 8260B	11/04/15 21:57	REF	
2-Butanone [78-93-3] ^	6.5	UD	ug/L	5	6.5	25	100	EPA 8260B	11/04/15 21:57	REF	
2-Hexanone [591-78-6] ^	4.4	UD	ug/L	5	4.4	25	50	EPA 8260B	11/04/15 21:57	REF	
4-Methyl-2-pentanone [108-10-1] ^	5.5	UD	ug/L	5	5.5	25	100	EPA 8260B	11/04/15 21:57	REF	
Acetone [67-64-1] ^	6.0	UD	ug/L	5	6.0	25	100	EPA 8260B	11/04/15 21:57	REF	
Acrylonitrile [107-13-1] ^	18	UD	ug/L	5	18	50	200	EPA 8260B	11/04/15 21:57	REF	
Benzene [71-43-2] ^	0.75	UD	ug/L	5	0.75	5.0	1	EPA 8260B	11/04/15 21:57	REF	
Bromochloromethane [74-97-5] ^	2.4	UD	ug/L	5	2.4	5.0	3	EPA 8260B	11/04/15 21:57	REF	
Bromodichloromethane [75-27-4] ^	0.85	UD	ug/L	5	0.85	5.0	1	EPA 8260B	11/04/15 21:57	REF	
Bromoform [75-25-2] ^	1.1	UD	ug/L	5	1.1	5.0	3	EPA 8260B	11/04/15 21:57	REF	
Bromomethane [74-83-9] ^	0.70	UD	ug/L	5	0.70	5.0	10	EPA 8260B	11/04/15 21:57	REF	
Carbon disulfide [75-15-0] ^	7.5	UD	ug/L	5	7.5	25	100	EPA 8260B	11/04/15 21:57	REF	
Carbon tetrachloride [56-23-5] ^	0.85	UD	ug/L	5	0.85	5.0	1	EPA 8260B	11/04/15 21:57	REF	
Chlorobenzene [108-90-7] ^	**410**	D	ug/L	5	0.85	5.0	3	EPA 8260B	11/04/15 21:57	REF	
Chloroethane [75-00-3] ^	1.2	UD	ug/L	5	1.2	5.0	10	EPA 8260B	11/04/15 21:57	REF	
Chloroform [67-66-3] ^	0.90	UD	ug/L	5	0.90	5.0	5	EPA 8260B	11/04/15 21:57	REF	
Chloromethane [74-87-3] ^	0.65	UD	ug/L	5	0.65	5.0	1	EPA 8260B	11/04/15 21:57	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.75	UD	ug/L	5	0.75	5.0	5	EPA 8260B	11/04/15 21:57	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	1.0	UD	ug/L	5	1.0	5.0	1	EPA 8260B	11/04/15 21:57	REF	
Dibromochloromethane [124-48-1] ^	0.85	UD	ug/L	5	0.85	5.0	3	EPA 8260B	11/04/15 21:57	REF	
Dibromomethane [74-95-3] ^	1.4	UD	ug/L	5	1.4	5.0	10	EPA 8260B	11/04/15 21:57	REF	
Ethylbenzene [100-41-4] ^	0.65	UD	ug/L	5	0.65	5.0	1	EPA 8260B	11/04/15 21:57	REF	
Iodomethane [74-88-4] ^	8.5	UD	ug/L	5	8.5	25	10	EPA 8260B	11/04/15 21:57	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	0.85	UD	ug/L	5	0.85	10	NE	EPA 8260B	11/04/15 21:57	REF	
Methylene chloride [75-09-2] ^	1.2	UD	ug/L	5	1.2	5.0	1	EPA 8260B	11/04/15 21:57	REF	
o-Xylene [95-47-6] ^	0.32	UD	ug/L	5	0.32	5.0	NE	EPA 8260B	11/04/15 21:57	REF	
Styrene [100-42-5] ^	0.55	UD	ug/L	5	0.55	5.0	1	EPA 8260B	11/04/15 21:57	REF	
Tetrachloroethene [127-18-4] ^	0.85	UD	ug/L	5	0.85	5.0	1	EPA 8260B	11/04/15 21:57	REF	
Toluene [108-88-3] ^	0.70	UD	ug/L	5	0.70	5.0	1	EPA 8260B	11/04/15 21:57	REF	
trans-1,2-Dichloroethene [156-60-5] ^	1.0	UD	ug/L	5	1.0	5.0	5	EPA 8260B	11/04/15 21:57	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.75	UD	ug/L	5	0.75	5.0	1	EPA 8260B	11/04/15 21:57	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	3.5	UD	ug/L	5	3.5	5.0	100	EPA 8260B	11/04/15 21:57	REF	
Trichloroethene [79-01-6] ^	0.75	UD	ug/L	5	0.75	5.0	1	EPA 8260B	11/04/15 21:57	REF	
Trichlorofluoromethane [75-69-4] ^	1.2	UD	ug/L	5	1.2	5.0	1	EPA 8260B	11/04/15 21:57	REF	
Vinyl acetate [108-05-4] ^	4.8	UD	ug/L	5	4.8	25	50	EPA 8260B	11/04/15 21:57	REF	
Vinyl chloride [75-01-4] ^	1.6	UD	ug/L	5	1.6	5.0	1	EPA 8260B	11/04/15 21:57	REF	
Xylenes (Total) [1330-20-7] ^	2.2	UD	ug/L	5	2.2	15	5	EPA 8260B	11/04/15 21:57	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes

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Description: MW-15A
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513825-06
Sampled: 10/27/15 09:15
Sampled By: ROBERT WELDY

Received: 10/28/15 10:30
Work Order: C513825

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	*44*	*1*	*50.0*	*88 %*	*53-136*	*5K04034*	*EPA 8260B*	*11/04/15 21:57*	*REF*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*67-129*	*5K04034*	*EPA 8260B*	*11/04/15 21:57*	*REF*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*59-134*	*5K04034*	*EPA 8260B*	*11/04/15 21:57*	*REF*	

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Description:	MW-15A	**Lab Sample ID:**	C513825-06	**Received:**	10/28/15 10:30
Matrix:	Water	**Sampled:**	10/27/15 09:15	**Work Order:**	C513825
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**1740**	D	ug/L	50	60.0	100	10	EPA 8260C	11/02/15 13:56	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*6.27*	*1*	*5.00*	*125 %*	*79-127*	*5K02006*	*EPA 8260C*	*11/02/15 13:56*	*rgg*	

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

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Description: OW-LFS2 | **Lab Sample ID:** C513825-07 | **Received:** 10/28/15 10:30

Matrix: Water | **Sampled:** 10/26/15 15:35 | **Work Order:** C513825

Project: Seaboard/Riverdale Landfill | **Sampled By:** ROBERT WELDY

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	11/03/15 21:39	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	11/03/15 21:39	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/03/15 21:39	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/03/15 21:39	MSZ	
1,1-Dichloroethane [75-34-3] ^	**1.8**	J	ug/L	1	0.13	1.0	5	EPA 8260B	11/03/15 21:39	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/03/15 21:39	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/03/15 21:39	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/03/15 21:39	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/03/15 21:39	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/03/15 21:39	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	11/03/15 21:39	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/03/15 21:39	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	**3.4**		ug/L	1	0.19	1.0	1	EPA 8260B	11/03/15 21:39	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/03/15 21:39	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/03/15 21:39	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/03/15 21:39	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/03/15 21:39	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/03/15 21:39	MSZ	
Benzene [71-43-2] ^	**4.5**		ug/L	1	0.15	1.0	1	EPA 8260B	11/03/15 21:39	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/03/15 21:39	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/03/15 21:39	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/03/15 21:39	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/03/15 21:39	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/03/15 21:39	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/03/15 21:39	MSZ	
Chlorobenzene [108-90-7] ^	**11**		ug/L	1	0.17	1.0	3	EPA 8260B	11/03/15 21:39	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	11/03/15 21:39	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/03/15 21:39	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/03/15 21:39	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	**13**		ug/L	1	0.15	1.0	5	EPA 8260B	11/03/15 21:39	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/15 21:39	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/03/15 21:39	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/03/15 21:39	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/03/15 21:39	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/03/15 21:39	MSZ	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/03/15 21:39	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/03/15 21:39	MSZ	
o-Xylene [95-47-6] ^	**0.45**	J	ug/L	1	0.065	1.0	NE	EPA 8260B	11/03/15 21:39	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/03/15 21:39	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/03/15 21:39	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/03/15 21:39	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/03/15 21:39	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/03/15 21:39	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/03/15 21:39	MSZ	
Trichloroethene [79-01-6] ^	**0.93**	J	ug/L	1	0.15	1.0	1	EPA 8260B	11/03/15 21:39	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/03/15 21:39	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/03/15 21:39	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/03/15 21:39	MSZ	
Xylenes (Total) [1330-20-7] ^	**0.45**	J	ug/L	1	0.45	3.0	5	EPA 8260B	11/03/15 21:39	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	OW-LFS2	**Lab Sample ID:**	C513825-07	**Received:**	10/28/15 10:30
Matrix:	Water	**Sampled:**	10/26/15 15:35	**Work Order:**	C513825
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

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	*52*	*1*	*50.0*	*104 %*	*53-136*	*5K03030*	*EPA 8260B*	*11/03/15 21:39*	*MSZ*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*67-129*	*5K03030*	*EPA 8260B*	*11/03/15 21:39*	*MSZ*	
Toluene-d8	*58*	*1*	*50.0*	*116 %*	*59-134*	*5K03030*	*EPA 8260B*	*11/03/15 21:39*	*MSZ*	

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Description: OW-LFS2 | **Lab Sample ID:** C513825-07 | **Received:** 10/28/15 10:30

Matrix: Water | **Sampled:** 10/26/15 15:35 | **Work Order:** C513825

Project: Seaboard/Riverdale Landfill | **Sampled By:** ROBERT WELDY

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**253**	D	ug/L	10	12.0	20.0	10	EPA 8260C	11/02/15 14:34	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.72*	*1*	*5.00*	*114 %*	*79-127*	*5K02006*	*EPA 8260C*	*11/02/15 14:34*	*rgg*	

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

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Description: PW-6I
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513825-08
Sampled: 10/27/15 16:53
Sampled By: ROBERT WELDY

Received: 10/28/15 10:30
Work Order: C513825

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	11/04/15 10:28	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	11/04/15 10:28	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/04/15 10:28	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/04/15 10:28	REF	
1,1-Dichloroethane [75-34-3] ^	**20**		ug/L	1	0.13	1.0	5	EPA 8260B	11/04/15 10:28	REF	
1,1-Dichloroethene [75-35-4] ^	**1.1**	J	ug/L	1	0.21	1.0	5	EPA 8260B	11/04/15 10:28	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/04/15 10:28	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/04/15 10:28	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/04/15 10:28	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/04/15 10:28	REF	
1,2-Dichloroethane [107-06-2] ^	**3.3**		ug/L	1	0.21	1.0	1	EPA 8260B	11/04/15 10:28	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/04/15 10:28	REF	
1,4-Dichlorobenzene [106-46-7] ^	**1.1**		ug/L	1	0.19	1.0	1	EPA 8260B	11/04/15 10:28	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/04/15 10:28	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/04/15 10:28	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/04/15 10:28	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/04/15 10:28	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/04/15 10:28	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/04/15 10:28	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/04/15 10:28	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/04/15 10:28	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/04/15 10:28	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/04/15 10:28	REF	
Carbon disulfide [75-15-0] ^	**3.0**	J	ug/L	1	1.5	5.0	100	EPA 8260B	11/04/15 10:28	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/04/15 10:28	REF	
Chlorobenzene [108-90-7] ^	**7.6**		ug/L	1	0.17	1.0	3	EPA 8260B	11/04/15 10:28	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	11/04/15 10:28	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/04/15 10:28	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/04/15 10:28	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**18**		ug/L	1	0.15	1.0	5	EPA 8260B	11/04/15 10:28	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/04/15 10:28	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/04/15 10:28	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/04/15 10:28	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/04/15 10:28	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/04/15 10:28	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/04/15 10:28	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/04/15 10:28	REF	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	11/04/15 10:28	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/04/15 10:28	REF	
Tetrachloroethene [127-18-4] ^	**0.74**	J	ug/L	1	0.17	1.0	1	EPA 8260B	11/04/15 10:28	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/04/15 10:28	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/04/15 10:28	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/04/15 10:28	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/04/15 10:28	REF	
Trichloroethene [79-01-6] ^	**1.4**		ug/L	1	0.15	1.0	1	EPA 8260B	11/04/15 10:28	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/04/15 10:28	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/04/15 10:28	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/04/15 10:28	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	11/04/15 10:28	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	PW-6I	**Lab Sample ID:**	C513825-08	**Received:**	10/28/15 10:30
Matrix:	Water	**Sampled:**	10/27/15 16:53	**Work Order:**	C513825
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

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	*44*	*1*	*50.0*	*88 %*	*53-136*	*5K03035*	*EPA 8260B*	*11/04/15 10:28*	*REF*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*67-129*	*5K03035*	*EPA 8260B*	*11/04/15 10:28*	*REF*	
Toluene-d8	*46*	*1*	*50.0*	*91 %*	*59-134*	*5K03035*	*EPA 8260B*	*11/04/15 10:28*	*REF*	

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Description: PW-6I
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513825-08
Sampled: 10/27/15 16:53
Sampled By: ROBERT WELDY

Received: 10/28/15 10:30
Work Order: C513825

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**46.7**	D	ug/L	2	2.40	4.00	10	EPA 8260C	11/02/15 15:09	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.76*	*1*	*5.00*	*95 %*	*79-127*	*5K02006*	*EPA 8260C*	*11/02/15 15:09*	*rgg*	

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

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Description: PW-13I
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513825-09
Sampled: 10/26/15 17:01
Sampled By: ROBERT WELDY

Received: 10/28/15 10:30
Work Order: C513825

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	11/06/15 04:23	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	11/06/15 04:23	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/06/15 04:23	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/06/15 04:23	MSZ	
1,1-Dichloroethane [75-34-3] ^	**120**		ug/L	1	0.13	1.0	5	EPA 8260B	11/06/15 04:23	MSZ	
1,1-Dichloroethene [75-35-4] ^	**28**		ug/L	1	0.21	1.0	5	EPA 8260B	11/06/15 04:23	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/06/15 04:23	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/06/15 04:23	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/06/15 04:23	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/06/15 04:23	MSZ	
1,2-Dichloroethane [107-06-2] ^	**4.6**		ug/L	1	0.21	1.0	1	EPA 8260B	11/06/15 04:23	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/06/15 04:23	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	**2.2**		ug/L	1	0.19	1.0	1	EPA 8260B	11/06/15 04:23	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/06/15 04:23	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/06/15 04:23	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/06/15 04:23	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/06/15 04:23	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/06/15 04:23	MSZ	
Benzene [71-43-2] ^	**3.2**		ug/L	1	0.15	1.0	1	EPA 8260B	11/06/15 04:23	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/06/15 04:23	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/06/15 04:23	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/06/15 04:23	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/06/15 04:23	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/06/15 04:23	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/06/15 04:23	MSZ	
Chlorobenzene [108-90-7] ^	**18**		ug/L	1	0.17	1.0	3	EPA 8260B	11/06/15 04:23	MSZ	
Chloroethane [75-00-3] ^	**2.0**	J	ug/L	1	0.23	1.0	10	EPA 8260B	11/06/15 04:23	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/06/15 04:23	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/06/15 04:23	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	**110**		ug/L	1	0.15	1.0	5	EPA 8260B	11/06/15 04:23	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/06/15 04:23	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/06/15 04:23	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/06/15 04:23	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/06/15 04:23	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/06/15 04:23	MSZ	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/06/15 04:23	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/06/15 04:23	MSZ	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	11/06/15 04:23	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/06/15 04:23	MSZ	
Tetrachloroethene [127-18-4] ^	**1.2**		ug/L	1	0.17	1.0	1	EPA 8260B	11/06/15 04:23	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/06/15 04:23	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/06/15 04:23	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/06/15 04:23	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/06/15 04:23	MSZ	
Trichloroethene [79-01-6] ^	**2.1**		ug/L	1	0.15	1.0	1	EPA 8260B	11/06/15 04:23	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/06/15 04:23	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/06/15 04:23	MSZ	
Vinyl chloride [75-01-4] ^	**41**		ug/L	1	0.32	1.0	1	EPA 8260B	11/06/15 04:23	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	11/06/15 04:23	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes

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Description:	PW-13I	**Lab Sample ID:**	C513825-09	**Received:**	10/28/15 10:30
Matrix:	Water	**Sampled:**	10/26/15 17:01	**Work Order:**	C513825
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

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	*44*	*1*	*50.0*	*88 %*	*53-136*	*5K05027*	*EPA 8260B*	*11/06/15 04:23*	*MSZ*	
Dibromofluoromethane	*46*	*1*	*50.0*	*93 %*	*67-129*	*5K05027*	*EPA 8260B*	*11/06/15 04:23*	*MSZ*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*59-134*	*5K05027*	*EPA 8260B*	*11/06/15 04:23*	*MSZ*	

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Description:	PW-13I	**Lab Sample ID:**	C513825-09	**Received:**	10/28/15 10:30
Matrix:	Water	**Sampled:**	10/26/15 17:01	**Work Order:**	C513825
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**88.6**	D	ug/L	5	6.00	10.0	10	EPA 8260C	11/02/15 15:45	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.30*	*1*	*5.00*	*106 %*	*79-127*	*5K02006*	*EPA 8260C*	*11/02/15 15:45*	*rgg*	

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

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Description: PW-18 | **Lab Sample ID:** C513825-10 | **Received:** 10/28/15 10:30

Matrix: Water | **Sampled:** 10/26/15 13:30 | **Work Order:** C513825

Project: Seaboard/Riverdale Landfill | **Sampled By:** ROBERT WELDY

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	11/03/15 22:38	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	11/03/15 22:38	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/03/15 22:38	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/03/15 22:38	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	11/03/15 22:38	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/03/15 22:38	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/03/15 22:38	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/03/15 22:38	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/03/15 22:38	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/03/15 22:38	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	11/03/15 22:38	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/03/15 22:38	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	11/03/15 22:38	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/03/15 22:38	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/03/15 22:38	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	**19**	J	ug/L	1	1.1	5.0	100	EPA 8260B	11/03/15 22:38	MSZ	
Acetone [67-64-1] ^	**40**	J	ug/L	1	1.2	5.0	100	EPA 8260B	11/03/15 22:38	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/03/15 22:38	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/03/15 22:38	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/03/15 22:38	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/03/15 22:38	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/03/15 22:38	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/03/15 22:38	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/03/15 22:38	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/03/15 22:38	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/03/15 22:38	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	11/03/15 22:38	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/03/15 22:38	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/03/15 22:38	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	11/03/15 22:38	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/03/15 22:38	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/03/15 22:38	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/03/15 22:38	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/03/15 22:38	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/03/15 22:38	MSZ	
m,p-Xylenes [108-38-3/106-42-3] ^	**0.72**	J	ug/L	1	0.17	2.0	NE	EPA 8260B	11/03/15 22:38	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/03/15 22:38	MSZ	
o-Xylene [95-47-6] ^	**0.53**	J	ug/L	1	0.065	1.0	NE	EPA 8260B	11/03/15 22:38	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/03/15 22:38	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/03/15 22:38	MSZ	
Toluene [108-88-3] ^	**0.65**	J	ug/L	1	0.14	1.0	1	EPA 8260B	11/03/15 22:38	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/03/15 22:38	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/03/15 22:38	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/03/15 22:38	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/03/15 22:38	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/03/15 22:38	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/03/15 22:38	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/03/15 22:38	MSZ	
Xylenes (Total) [1330-20-7] ^	**1.2**	J	ug/L	1	0.45	3.0	5	EPA 8260B	11/03/15 22:38	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes

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Description:	PW-18	**Lab Sample ID:**	C513825-10	**Received:**	10/28/15 10:30
Matrix:	Water	**Sampled:**	10/26/15 13:30	**Work Order:**	C513825
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

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	*58*	*1*	*50.0*	*116 %*	*53-136*	*5K03030*	*EPA 8260B*	*11/03/15 22:38*	*MSZ*	
Dibromofluoromethane	*41*	*1*	*50.0*	*81 %*	*67-129*	*5K03030*	*EPA 8260B*	*11/03/15 22:38*	*MSZ*	
Toluene-d8	*58*	*1*	*50.0*	*115 %*	*59-134*	*5K03030*	*EPA 8260B*	*11/03/15 22:38*	*MSZ*	

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Description: PW-18 | **Lab Sample ID:** C513825-10 | **Received:** 10/28/15 10:30

Matrix: Water | **Sampled:** 10/26/15 13:30 | **Work Order:** C513825

Project: Seaboard/Riverdale Landfill | **Sampled By:** ROBERT WELDY

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	1.20	U	ug/L	1	1.20	2.00	10	EPA 8260C	11/02/15 16:20	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.02*	*1*	*5.00*	*100 %*	*79-127*	*5K02006*	*EPA 8260C*	*11/02/15 16:20*	*rgg*	

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

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Description: PW-SF1 | **Lab Sample ID:** C513825-11 | **Received:** 10/28/15 10:30

Matrix: Water | **Sampled:** 10/27/15 16:56 | **Work Order:** C513825

Project: Seaboard/Riverdale Landfill | **Sampled By:** ROBERT WELDY

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] ^	17	UD	ug/L	100	17	100	5	EPA 8260B	11/04/15 22:26	REF	
1,1,1-Trichloroethane [71-55-6] ^	**1100**	D	ug/L	100	12	100	1	EPA 8260B	11/04/15 22:26	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	28	UD	ug/L	100	28	100	3	EPA 8260B	11/04/15 22:26	REF	
1,1,2-Trichloroethane [79-00-5] ^	14	UD	ug/L	100	14	100	1	EPA 8260B	11/04/15 22:26	REF	
1,1-Dichloroethane [75-34-3] ^	**3200**	D	ug/L	100	13	100	5	EPA 8260B	11/04/15 22:26	REF	
1,1-Dichloroethene [75-35-4] ^	**3600**	D	ug/L	100	21	100	5	EPA 8260B	11/04/15 22:26	REF	
1,2,3-Trichloropropane [96-18-4] ^	23	UD	ug/L	100	23	100	1	EPA 8260B	11/04/15 22:26	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	48	UD	ug/L	100	48	100	13	EPA 8260B	11/04/15 22:26	REF	
1,2-Dibromoethane [106-93-4] ^	66	UD	ug/L	100	66	100	1	EPA 8260B	11/04/15 22:26	REF	
1,2-Dichlorobenzene [95-50-1] ^	19	UD	ug/L	100	19	100	5	EPA 8260B	11/04/15 22:26	REF	
1,2-Dichloroethane [107-06-2] ^	**780**	D	ug/L	100	21	100	1	EPA 8260B	11/04/15 22:26	REF	
1,2-Dichloropropane [78-87-5] ^	10	UD	ug/L	100	10	100	1	EPA 8260B	11/04/15 22:26	REF	
1,4-Dichlorobenzene [106-46-7] ^	19	UD	ug/L	100	19	100	1	EPA 8260B	11/04/15 22:26	REF	
2-Butanone [78-93-3] ^	130	UD	ug/L	100	130	500	100	EPA 8260B	11/04/15 22:26	REF	
2-Hexanone [591-78-6] ^	88	UD	ug/L	100	88	500	50	EPA 8260B	11/04/15 22:26	REF	
4-Methyl-2-pentanone [108-10-1] ^	110	UD	ug/L	100	110	500	100	EPA 8260B	11/04/15 22:26	REF	
Acetone [67-64-1] ^	120	UD	ug/L	100	120	500	100	EPA 8260B	11/04/15 22:26	REF	
Acrylonitrile [107-13-1] ^	350	UD	ug/L	100	350	1000	200	EPA 8260B	11/04/15 22:26	REF	
Benzene [71-43-2] ^	15	UD	ug/L	100	15	100	1	EPA 8260B	11/04/15 22:26	REF	
Bromochloromethane [74-97-5] ^	48	UD	ug/L	100	48	100	3	EPA 8260B	11/04/15 22:26	REF	
Bromodichloromethane [75-27-4] ^	17	UD	ug/L	100	17	100	1	EPA 8260B	11/04/15 22:26	REF	
Bromoform [75-25-2] ^	22	UD	ug/L	100	22	100	3	EPA 8260B	11/04/15 22:26	REF	
Bromomethane [74-83-9] ^	14	UD	ug/L	100	14	100	10	EPA 8260B	11/04/15 22:26	REF	
Carbon disulfide [75-15-0] ^	150	UD	ug/L	100	150	500	100	EPA 8260B	11/04/15 22:26	REF	
Carbon tetrachloride [56-23-5] ^	17	UD	ug/L	100	17	100	1	EPA 8260B	11/04/15 22:26	REF	
Chlorobenzene [108-90-7] ^	**2100**	D	ug/L	100	17	100	3	EPA 8260B	11/04/15 22:26	REF	
Chloroethane [75-00-3] ^	**790**	D	ug/L	100	23	100	10	EPA 8260B	11/04/15 22:26	REF	
Chloroform [67-66-3] ^	**160**	D	ug/L	100	18	100	5	EPA 8260B	11/04/15 22:26	REF	
Chloromethane [74-87-3] ^	13	UD	ug/L	100	13	100	1	EPA 8260B	11/04/15 22:26	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**18000**	D	ug/L	100	15	100	5	EPA 8260B	11/04/15 22:26	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	20	UD	ug/L	100	20	100	1	EPA 8260B	11/04/15 22:26	REF	
Dibromochloromethane [124-48-1] ^	17	UD	ug/L	100	17	100	3	EPA 8260B	11/04/15 22:26	REF	
Dibromomethane [74-95-3] ^	27	UD	ug/L	100	27	100	10	EPA 8260B	11/04/15 22:26	REF	
Ethylbenzene [100-41-4] ^	13	UD	ug/L	100	13	100	1	EPA 8260B	11/04/15 22:26	REF	
Iodomethane [74-88-4] ^	170	UD	ug/L	100	170	500	10	EPA 8260B	11/04/15 22:26	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	17	UD	ug/L	100	17	200	NE	EPA 8260B	11/04/15 22:26	REF	
Methylene chloride [75-09-2] ^	23	UD	ug/L	100	23	100	1	EPA 8260B	11/04/15 22:26	REF	
o-Xylene [95-47-6] ^	6.5	UD	ug/L	100	6.5	100	NE	EPA 8260B	11/04/15 22:26	REF	
Styrene [100-42-5] ^	11	UD	ug/L	100	11	100	1	EPA 8260B	11/04/15 22:26	REF	
Tetrachloroethene [127-18-4] ^	**420**	D	ug/L	100	17	100	1	EPA 8260B	11/04/15 22:26	REF	
Toluene [108-88-3] ^	**800**	D	ug/L	100	14	100	1	EPA 8260B	11/04/15 22:26	REF	
trans-1,2-Dichloroethene [156-60-5] ^	21	UD	ug/L	100	21	100	5	EPA 8260B	11/04/15 22:26	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	15	UD	ug/L	100	15	100	1	EPA 8260B	11/04/15 22:26	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	70	UD	ug/L	100	70	100	100	EPA 8260B	11/04/15 22:26	REF	
Trichloroethene [79-01-6] ^	**2200**	D	ug/L	100	15	100	1	EPA 8260B	11/04/15 22:26	REF	
Trichlorofluoromethane [75-69-4] ^	**79**	JD	ug/L	100	24	100	1	EPA 8260B	11/04/15 22:26	REF	
Vinyl acetate [108-05-4] ^	95	UD	ug/L	100	95	500	50	EPA 8260B	11/04/15 22:26	REF	
Vinyl chloride [75-01-4] ^	**4700**	D	ug/L	100	32	100	1	EPA 8260B	11/04/15 22:26	REF	
Xylenes (Total) [1330-20-7] ^	45	UD	ug/L	100	45	300	5	EPA 8260B	11/04/15 22:26	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes

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Description:	PW-SF1	**Lab Sample ID:**	C513825-11	**Received:**	10/28/15 10:30
Matrix:	Water	**Sampled:**	10/27/15 16:56	**Work Order:**	C513825
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

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	*46*	*1*	*50.0*	*92 %*	*53-136*	*5K04034*	*EPA 8260B*	*11/04/15 22:26*	*REF*	
Dibromofluoromethane	*48*	*1*	*50.0*	*95 %*	*67-129*	*5K04034*	*EPA 8260B*	*11/04/15 22:26*	*REF*	
Toluene-d8	*47*	*1*	*50.0*	*93 %*	*59-134*	*5K04034*	*EPA 8260B*	*11/04/15 22:26*	*REF*	

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Description: PW-SF1 | **Lab Sample ID:** C513825-11 | **Received:** 10/28/15 10:30

Matrix: Water | **Sampled:** 10/27/15 16:56 | **Work Order:** C513825

Project: Seaboard/Riverdale Landfill | **Sampled By:** ROBERT WELDY

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**3550**	D	ug/L	100	120	200	10	EPA 8260C	11/03/15 10:54	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.18*	*1*	*5.00*	*104 %*	*79-127*	*5K03005*	*EPA 8260C*	*11/03/15 10:54*	*rgg*	

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Description: W4-A
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513825-12
Sampled: 10/27/15 09:45
Sampled By: ROBERT WELDY

Received: 10/28/15 10:30
Work Order: C513825

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] ^	17	UD	ug/L	100	17	100	5	EPA 8260B	11/06/15 04:52	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	**270**	D	ug/L	100	12	100	1	EPA 8260B	11/06/15 04:52	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	28	UD	ug/L	100	28	100	3	EPA 8260B	11/06/15 04:52	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	14	UD	ug/L	100	14	100	1	EPA 8260B	11/06/15 04:52	MSZ	
1,1-Dichloroethane [75-34-3] ^	**1400**	D	ug/L	100	13	100	5	EPA 8260B	11/06/15 04:52	MSZ	
1,1-Dichloroethene [75-35-4] ^	**640**	D	ug/L	100	21	100	5	EPA 8260B	11/06/15 04:52	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	23	UD	ug/L	100	23	100	1	EPA 8260B	11/06/15 04:52	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	48	UD	ug/L	100	48	100	13	EPA 8260B	11/06/15 04:52	MSZ	
1,2-Dibromoethane [106-93-4] ^	66	UD	ug/L	100	66	100	1	EPA 8260B	11/06/15 04:52	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	19	UD	ug/L	100	19	100	5	EPA 8260B	11/06/15 04:52	MSZ	
1,2-Dichloroethane [107-06-2] ^	21	UD	ug/L	100	21	100	1	EPA 8260B	11/06/15 04:52	MSZ	
1,2-Dichloropropane [78-87-5] ^	10	UD	ug/L	100	10	100	1	EPA 8260B	11/06/15 04:52	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	19	UD	ug/L	100	19	100	1	EPA 8260B	11/06/15 04:52	MSZ	
2-Butanone [78-93-3] ^	130	UD	ug/L	100	130	500	100	EPA 8260B	11/06/15 04:52	MSZ	
2-Hexanone [591-78-6] ^	88	UD	ug/L	100	88	500	50	EPA 8260B	11/06/15 04:52	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	110	UD	ug/L	100	110	500	100	EPA 8260B	11/06/15 04:52	MSZ	
Acetone [67-64-1] ^	120	UD	ug/L	100	120	500	100	EPA 8260B	11/06/15 04:52	MSZ	
Acrylonitrile [107-13-1] ^	350	UD	ug/L	100	350	1000	200	EPA 8260B	11/06/15 04:52	MSZ	
Benzene [71-43-2] ^	**210**	D	ug/L	100	15	100	1	EPA 8260B	11/06/15 04:52	MSZ	
Bromochloromethane [74-97-5] ^	48	UD	ug/L	100	48	100	3	EPA 8260B	11/06/15 04:52	MSZ	
Bromodichloromethane [75-27-4] ^	17	UD	ug/L	100	17	100	1	EPA 8260B	11/06/15 04:52	MSZ	
Bromoform [75-25-2] ^	22	UD	ug/L	100	22	100	3	EPA 8260B	11/06/15 04:52	MSZ	
Bromomethane [74-83-9] ^	14	UD	ug/L	100	14	100	10	EPA 8260B	11/06/15 04:52	MSZ	
Carbon disulfide [75-15-0] ^	150	UD	ug/L	100	150	500	100	EPA 8260B	11/06/15 04:52	MSZ	
Carbon tetrachloride [56-23-5] ^	17	UD	ug/L	100	17	100	1	EPA 8260B	11/06/15 04:52	MSZ	
Chlorobenzene [108-90-7] ^	**110**	D	ug/L	100	17	100	3	EPA 8260B	11/06/15 04:52	MSZ	
Chloroethane [75-00-3] ^	**540**	D	ug/L	100	23	100	10	EPA 8260B	11/06/15 04:52	MSZ	
Chloroform [67-66-3] ^	18	UD	ug/L	100	18	100	5	EPA 8260B	11/06/15 04:52	MSZ	
Chloromethane [74-87-3] ^	13	UD	ug/L	100	13	100	1	EPA 8260B	11/06/15 04:52	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	**2500**	D	ug/L	100	15	100	5	EPA 8260B	11/06/15 04:52	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	20	UD	ug/L	100	20	100	1	EPA 8260B	11/06/15 04:52	MSZ	
Dibromochloromethane [124-48-1] ^	17	UD	ug/L	100	17	100	3	EPA 8260B	11/06/15 04:52	MSZ	
Dibromomethane [74-95-3] ^	27	UD	ug/L	100	27	100	10	EPA 8260B	11/06/15 04:52	MSZ	
Ethylbenzene [100-41-4] ^	13	UD	ug/L	100	13	100	1	EPA 8260B	11/06/15 04:52	MSZ	
Iodomethane [74-88-4] ^	170	UD	ug/L	100	170	500	10	EPA 8260B	11/06/15 04:52	MSZ	
m,p-Xylenes [108-38-3/106-42-3] ^	17	UD	ug/L	100	17	200	NE	EPA 8260B	11/06/15 04:52	MSZ	
Methylene chloride [75-09-2] ^	23	UD	ug/L	100	23	100	1	EPA 8260B	11/06/15 04:52	MSZ	
o-Xylene [95-47-6] ^	6.5	UD	ug/L	100	6.5	100	NE	EPA 8260B	11/06/15 04:52	MSZ	
Styrene [100-42-5] ^	11	UD	ug/L	100	11	100	1	EPA 8260B	11/06/15 04:52	MSZ	
Tetrachloroethene [127-18-4] ^	17	UD	ug/L	100	17	100	1	EPA 8260B	11/06/15 04:52	MSZ	
Toluene [108-88-3] ^	**120**	D	ug/L	100	14	100	1	EPA 8260B	11/06/15 04:52	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	21	UD	ug/L	100	21	100	5	EPA 8260B	11/06/15 04:52	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	15	UD	ug/L	100	15	100	1	EPA 8260B	11/06/15 04:52	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	70	UD	ug/L	100	70	100	100	EPA 8260B	11/06/15 04:52	MSZ	
Trichloroethene [79-01-6] ^	**76**	JD	ug/L	100	15	100	1	EPA 8260B	11/06/15 04:52	MSZ	
Trichlorofluoromethane [75-69-4] ^	24	UD	ug/L	100	24	100	1	EPA 8260B	11/06/15 04:52	MSZ	
Vinyl acetate [108-05-4] ^	95	UD	ug/L	100	95	500	50	EPA 8260B	11/06/15 04:52	MSZ	
Vinyl chloride [75-01-4] ^	**2200**	D	ug/L	100	32	100	1	EPA 8260B	11/06/15 04:52	MSZ	
Xylenes (Total) [1330-20-7] ^	45	UD	ug/L	100	45	300	5	EPA 8260B	11/06/15 04:52	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes

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Description:	W4-A	**Lab Sample ID:**	C513825-12	**Received:**	10/28/15 10:30
Matrix:	Water	**Sampled:**	10/27/15 09:45	**Work Order:**	C513825
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

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	*44*	*1*	*50.0*	*89 %*	*53-136*	*5K05027*	*EPA 8260B*	*11/06/15 04:52*	*MSZ*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*67-129*	*5K05027*	*EPA 8260B*	*11/06/15 04:52*	*MSZ*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*59-134*	*5K05027*	*EPA 8260B*	*11/06/15 04:52*	*MSZ*	

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Description:	W4-A	**Lab Sample ID:**	C513825-12	**Received:**	10/28/15 10:30
Matrix:	Water	**Sampled:**	10/27/15 09:45	**Work Order:**	C513825
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**962**	D	ug/L	100	120	200	10	EPA 8260C	11/02/15 17:33	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.60*	*1*	*5.00*	*112 %*	*79-127*	*5K02006*	*EPA 8260C*	*11/02/15 17:33*	*rgg*	

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

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Description: PW-15D
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513878-01
Sampled: 10/28/15 13:58
Sampled By: ROBERT WELDY

Received: 10/30/15 09:00
Work Order: C513878

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] ^	8.5	UD	ug/L	50	8.5	50	5	EPA 8260B	11/06/15 21:18	REF	
1,1,1-Trichloroethane [71-55-6] ^	**68**	D	ug/L	50	6.0	50	1	EPA 8260B	11/06/15 21:18	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	14	UD	ug/L	50	14	50	3	EPA 8260B	11/06/15 21:18	REF	
1,1,2-Trichloroethane [79-00-5] ^	7.0	UD	ug/L	50	7.0	50	1	EPA 8260B	11/06/15 21:18	REF	
1,1-Dichloroethane [75-34-3] ^	**570**	D	ug/L	50	6.5	50	5	EPA 8260B	11/06/15 21:18	REF	
1,1-Dichloroethene [75-35-4] ^	**220**	D	ug/L	50	10	50	5	EPA 8260B	11/06/15 21:18	REF	
1,2,3-Trichloropropane [96-18-4] ^	12	UD	ug/L	50	12	50	1	EPA 8260B	11/06/15 21:18	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	24	UD	ug/L	50	24	50	13	EPA 8260B	11/06/15 21:18	REF	
1,2-Dibromoethane [106-93-4] ^	33	UD	ug/L	50	33	50	1	EPA 8260B	11/06/15 21:18	REF	
1,2-Dichlorobenzene [95-50-1] ^	9.5	UD	ug/L	50	9.5	50	5	EPA 8260B	11/06/15 21:18	REF	
1,2-Dichloroethane [107-06-2] ^	10	UD	ug/L	50	10	50	1	EPA 8260B	11/06/15 21:18	REF	
1,2-Dichloropropane [78-87-5] ^	5.0	UD	ug/L	50	5.0	50	1	EPA 8260B	11/06/15 21:18	REF	
1,4-Dichlorobenzene [106-46-7] ^	9.5	UD	ug/L	50	9.5	50	1	EPA 8260B	11/06/15 21:18	REF	
2-Butanone [78-93-3] ^	65	UD	ug/L	50	65	250	100	EPA 8260B	11/06/15 21:18	REF	
2-Hexanone [591-78-6] ^	44	UD	ug/L	50	44	250	50	EPA 8260B	11/06/15 21:18	REF	
4-Methyl-2-pentanone [108-10-1] ^	55	UD	ug/L	50	55	250	100	EPA 8260B	11/06/15 21:18	REF	
Acetone [67-64-1] ^	60	UD	ug/L	50	60	250	100	EPA 8260B	11/06/15 21:18	REF	
Acrylonitrile [107-13-1] ^	180	UD	ug/L	50	180	500	200	EPA 8260B	11/06/15 21:18	REF	
Benzene [71-43-2] ^	**28**	JD	ug/L	50	7.5	50	1	EPA 8260B	11/06/15 21:18	REF	
Bromochloromethane [74-97-5] ^	24	UD	ug/L	50	24	50	3	EPA 8260B	11/06/15 21:18	REF	
Bromodichloromethane [75-27-4] ^	8.5	UD	ug/L	50	8.5	50	1	EPA 8260B	11/06/15 21:18	REF	
Bromoform [75-25-2] ^	11	UD	ug/L	50	11	50	3	EPA 8260B	11/06/15 21:18	REF	
Bromomethane [74-83-9] ^	7.0	UD	ug/L	50	7.0	50	10	EPA 8260B	11/06/15 21:18	REF	
Carbon disulfide [75-15-0] ^	75	UD	ug/L	50	75	250	100	EPA 8260B	11/06/15 21:18	REF	
Carbon tetrachloride [56-23-5] ^	8.5	UD	ug/L	50	8.5	50	1	EPA 8260B	11/06/15 21:18	REF	
Chlorobenzene [108-90-7] ^	**1300**	D	ug/L	50	8.5	50	3	EPA 8260B	11/06/15 21:18	REF	
Chloroethane [75-00-3] ^	**96**	D	ug/L	50	12	50	10	EPA 8260B	11/06/15 21:18	REF	
Chloroform [67-66-3] ^	9.0	UD	ug/L	50	9.0	50	5	EPA 8260B	11/06/15 21:18	REF	
Chloromethane [74-87-3] ^	6.5	UD	ug/L	50	6.5	50	1	EPA 8260B	11/06/15 21:18	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**1000**	D	ug/L	50	7.5	50	5	EPA 8260B	11/06/15 21:18	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	10	UD	ug/L	50	10	50	1	EPA 8260B	11/06/15 21:18	REF	
Dibromochloromethane [124-48-1] ^	8.5	UD	ug/L	50	8.5	50	3	EPA 8260B	11/06/15 21:18	REF	
Dibromomethane [74-95-3] ^	14	UD	ug/L	50	14	50	10	EPA 8260B	11/06/15 21:18	REF	
Ethylbenzene [100-41-4] ^	6.5	UD	ug/L	50	6.5	50	1	EPA 8260B	11/06/15 21:18	REF	
Iodomethane [74-88-4] ^	85	UD	ug/L	50	85	250	10	EPA 8260B	11/06/15 21:18	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	8.5	UD	ug/L	50	8.5	100	NE	EPA 8260B	11/06/15 21:18	REF	
Methylene chloride [75-09-2] ^	12	UD	ug/L	50	12	50	1	EPA 8260B	11/06/15 21:18	REF	
o-Xylene [95-47-6] ^	3.2	UD	ug/L	50	3.2	50	NE	EPA 8260B	11/06/15 21:18	REF	
Styrene [100-42-5] ^	5.5	UD	ug/L	50	5.5	50	1	EPA 8260B	11/06/15 21:18	REF	
Tetrachloroethene [127-18-4] ^	8.5	UD	ug/L	50	8.5	50	1	EPA 8260B	11/06/15 21:18	REF	
Toluene [108-88-3] ^	7.0	UD	ug/L	50	7.0	50	1	EPA 8260B	11/06/15 21:18	REF	
trans-1,2-Dichloroethene [156-60-5] ^	10	UD	ug/L	50	10	50	5	EPA 8260B	11/06/15 21:18	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	7.5	UD	ug/L	50	7.5	50	1	EPA 8260B	11/06/15 21:18	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	35	UD	ug/L	50	35	50	100	EPA 8260B	11/06/15 21:18	REF	
Trichloroethene [79-01-6] ^	7.5	UD	ug/L	50	7.5	50	1	EPA 8260B	11/06/15 21:18	REF	
Trichlorofluoromethane [75-69-4] ^	12	UD	ug/L	50	12	50	1	EPA 8260B	11/06/15 21:18	REF	
Vinyl acetate [108-05-4] ^	48	UD	ug/L	50	48	250	50	EPA 8260B	11/06/15 21:18	REF	
Vinyl chloride [75-01-4] ^	**200**	D	ug/L	50	16	50	1	EPA 8260B	11/06/15 21:18	REF	
Xylenes (Total) [1330-20-7] ^	22	UD	ug/L	50	22	150	5	EPA 8260B	11/06/15 21:18	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes

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Description:	PW-15D	**Lab Sample ID:**	C513878-01	**Received:**	10/30/15 09:00
Matrix:	Water	**Sampled:**	10/28/15 13:58	**Work Order:**	C513878
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

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	*44*	*1*	*50.0*	*87 %*	*53-136*	*5K06029*	*EPA 8260B*	*11/06/15 21:18*	*REF*	
Dibromofluoromethane	*40*	*1*	*50.0*	*80 %*	*67-129*	*5K06029*	*EPA 8260B*	*11/06/15 21:18*	*REF*	
Toluene-d8	*44*	*1*	*50.0*	*89 %*	*59-134*	*5K06029*	*EPA 8260B*	*11/06/15 21:18*	*REF*	

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Description: PW-15D
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513878-01
Sampled: 10/28/15 13:58
Sampled By: ROBERT WELDY

Received: 10/30/15 09:00
Work Order: C513878

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**1280**	D	ug/L	100	120	200	10	EPA 8260C	11/03/15 14:27	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.31*	*1*	*5.00*	*106 %*	*79-127*	*5K03005*	*EPA 8260C*	*11/03/15 14:27*	*rgg*	

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Description: PW-16D
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513878-02
Sampled: 10/28/15 11:44
Sampled By: ROBERT WELDY

Received: 10/30/15 09:00
Work Order: C513878

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] ^	3.4	UD	ug/L	20	3.4	20	5	EPA 8260B	11/06/15 21:47	REF	
1,1,1-Trichloroethane [71-55-6] ^	**51**	D	ug/L	20	2.4	20	1	EPA 8260B	11/06/15 21:47	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	5.6	UD	ug/L	20	5.6	20	3	EPA 8260B	11/06/15 21:47	REF	
1,1,2-Trichloroethane [79-00-5] ^	2.8	UD	ug/L	20	2.8	20	1	EPA 8260B	11/06/15 21:47	REF	
1,1-Dichloroethane [75-34-3] ^	**480**	D	ug/L	20	2.6	20	5	EPA 8260B	11/06/15 21:47	REF	
1,1-Dichloroethene [75-35-4] ^	**190**	D	ug/L	20	4.2	20	5	EPA 8260B	11/06/15 21:47	REF	
1,2,3-Trichloropropane [96-18-4] ^	4.6	UD	ug/L	20	4.6	20	1	EPA 8260B	11/06/15 21:47	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	9.6	UD	ug/L	20	9.6	20	13	EPA 8260B	11/06/15 21:47	REF	
1,2-Dibromoethane [106-93-4] ^	13	UD	ug/L	20	13	20	1	EPA 8260B	11/06/15 21:47	REF	
1,2-Dichlorobenzene [95-50-1] ^	3.8	UD	ug/L	20	3.8	20	5	EPA 8260B	11/06/15 21:47	REF	
1,2-Dichloroethane [107-06-2] ^	**18**	JD	ug/L	20	4.2	20	1	EPA 8260B	11/06/15 21:47	REF	
1,2-Dichloropropane [78-87-5] ^	2.0	UD	ug/L	20	2.0	20	1	EPA 8260B	11/06/15 21:47	REF	
1,4-Dichlorobenzene [106-46-7] ^	3.8	UD	ug/L	20	3.8	20	1	EPA 8260B	11/06/15 21:47	REF	
2-Butanone [78-93-3] ^	26	UD	ug/L	20	26	100	100	EPA 8260B	11/06/15 21:47	REF	
2-Hexanone [591-78-6] ^	18	UD	ug/L	20	18	100	50	EPA 8260B	11/06/15 21:47	REF	
4-Methyl-2-pentanone [108-10-1] ^	22	UD	ug/L	20	22	100	100	EPA 8260B	11/06/15 21:47	REF	
Acetone [67-64-1] ^	24	UD	ug/L	20	24	100	100	EPA 8260B	11/06/15 21:47	REF	
Acrylonitrile [107-13-1] ^	70	UD	ug/L	20	70	200	200	EPA 8260B	11/06/15 21:47	REF	
Benzene [71-43-2] ^	**22**	D	ug/L	20	3.0	20	1	EPA 8260B	11/06/15 21:47	REF	
Bromochloromethane [74-97-5] ^	9.6	UD	ug/L	20	9.6	20	3	EPA 8260B	11/06/15 21:47	REF	
Bromodichloromethane [75-27-4] ^	3.4	UD	ug/L	20	3.4	20	1	EPA 8260B	11/06/15 21:47	REF	
Bromoform [75-25-2] ^	4.4	UD	ug/L	20	4.4	20	3	EPA 8260B	11/06/15 21:47	REF	
Bromomethane [74-83-9] ^	2.8	UD	ug/L	20	2.8	20	10	EPA 8260B	11/06/15 21:47	REF	
Carbon disulfide [75-15-0] ^	30	UD	ug/L	20	30	100	100	EPA 8260B	11/06/15 21:47	REF	
Carbon tetrachloride [56-23-5] ^	3.4	UD	ug/L	20	3.4	20	1	EPA 8260B	11/06/15 21:47	REF	
Chlorobenzene [108-90-7] ^	**1000**	D	ug/L	20	3.4	20	3	EPA 8260B	11/06/15 21:47	REF	
Chloroethane [75-00-3] ^	**44**	D	ug/L	20	4.6	20	10	EPA 8260B	11/06/15 21:47	REF	
Chloroform [67-66-3] ^	3.6	UD	ug/L	20	3.6	20	5	EPA 8260B	11/06/15 21:47	REF	
Chloromethane [74-87-3] ^	2.6	UD	ug/L	20	2.6	20	1	EPA 8260B	11/06/15 21:47	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**790**	D	ug/L	20	3.0	20	5	EPA 8260B	11/06/15 21:47	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	4.0	UD	ug/L	20	4.0	20	1	EPA 8260B	11/06/15 21:47	REF	
Dibromochloromethane [124-48-1] ^	3.4	UD	ug/L	20	3.4	20	3	EPA 8260B	11/06/15 21:47	REF	
Dibromomethane [74-95-3] ^	5.4	UD	ug/L	20	5.4	20	10	EPA 8260B	11/06/15 21:47	REF	
Ethylbenzene [100-41-4] ^	2.6	UD	ug/L	20	2.6	20	1	EPA 8260B	11/06/15 21:47	REF	
Iodomethane [74-88-4] ^	34	UD	ug/L	20	34	100	10	EPA 8260B	11/06/15 21:47	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	3.4	UD	ug/L	20	3.4	40	NE	EPA 8260B	11/06/15 21:47	REF	
Methylene chloride [75-09-2] ^	4.6	UD	ug/L	20	4.6	20	1	EPA 8260B	11/06/15 21:47	REF	
o-Xylene [95-47-6] ^	1.3	UD	ug/L	20	1.3	20	NE	EPA 8260B	11/06/15 21:47	REF	
Styrene [100-42-5] ^	2.2	UD	ug/L	20	2.2	20	1	EPA 8260B	11/06/15 21:47	REF	
Tetrachloroethene [127-18-4] ^	3.4	UD	ug/L	20	3.4	20	1	EPA 8260B	11/06/15 21:47	REF	
Toluene [108-88-3] ^	2.8	UD	ug/L	20	2.8	20	1	EPA 8260B	11/06/15 21:47	REF	
trans-1,2-Dichloroethene [156-60-5] ^	4.2	UD	ug/L	20	4.2	20	5	EPA 8260B	11/06/15 21:47	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	3.0	UD	ug/L	20	3.0	20	1	EPA 8260B	11/06/15 21:47	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	14	UD	ug/L	20	14	20	100	EPA 8260B	11/06/15 21:47	REF	
Trichloroethene [79-01-6] ^	3.0	UD	ug/L	20	3.0	20	1	EPA 8260B	11/06/15 21:47	REF	
Trichlorofluoromethane [75-69-4] ^	4.8	UD	ug/L	20	4.8	20	1	EPA 8260B	11/06/15 21:47	REF	
Vinyl acetate [108-05-4] ^	19	UD	ug/L	20	19	100	50	EPA 8260B	11/06/15 21:47	REF	
Vinyl chloride [75-01-4] ^	**160**	D	ug/L	20	6.4	20	1	EPA 8260B	11/06/15 21:47	REF	
Xylenes (Total) [1330-20-7] ^	9.0	UD	ug/L	20	9.0	60	5	EPA 8260B	11/06/15 21:47	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes

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Description:	PW-16D	**Lab Sample ID:**	C513878-02	**Received:**	10/30/15 09:00
Matrix:	Water	**Sampled:**	10/28/15 11:44	**Work Order:**	C513878
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

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	*45*	*1*	*50.0*	*90 %*	*53-136*	*5K06029*	*EPA 8260B*	*11/06/15 21:47*	*REF*	
Dibromofluoromethane	*42*	*1*	*50.0*	*84 %*	*67-129*	*5K06029*	*EPA 8260B*	*11/06/15 21:47*	*REF*	
Toluene-d8	*45*	*1*	*50.0*	*90 %*	*59-134*	*5K06029*	*EPA 8260B*	*11/06/15 21:47*	*REF*	

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Description: PW-16D
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513878-02
Sampled: 10/28/15 11:44
Sampled By: ROBERT WELDY

Received: 10/30/15 09:00
Work Order: C513878

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**772**	D	ug/L	50	60.0	100	10	EPA 8260C	11/03/15 15:01	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.28*	*1*	*5.00*	*106 %*	*79-127*	*5K03005*	*EPA 8260C*	*11/03/15 15:01*	*rgg*	

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

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Description: PW-3D
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513878-03
Sampled: 10/29/15 15:15
Sampled By: ROBERT WELDY

Received: 10/30/15 09:00
Work Order: C513878

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] ^	34	UD	ug/L	200	34	200	5	EPA 8260B	11/06/15 07:45	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	**2300**	D	ug/L	200	24	200	1	EPA 8260B	11/06/15 07:45	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	56	UD	ug/L	200	56	200	3	EPA 8260B	11/06/15 07:45	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	28	UD	ug/L	200	28	200	1	EPA 8260B	11/06/15 07:45	MSZ	
1,1-Dichloroethane [75-34-3] ^	**660**	D	ug/L	200	26	200	5	EPA 8260B	11/06/15 07:45	MSZ	
1,1-Dichloroethene [75-35-4] ^	**2100**	D	ug/L	200	42	200	5	EPA 8260B	11/06/15 07:45	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	46	UD	ug/L	200	46	200	1	EPA 8260B	11/06/15 07:45	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	96	UD	ug/L	200	96	200	13	EPA 8260B	11/06/15 07:45	MSZ	
1,2-Dibromoethane [106-93-4] ^	130	UD	ug/L	200	130	200	1	EPA 8260B	11/06/15 07:45	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	38	UD	ug/L	200	38	200	5	EPA 8260B	11/06/15 07:45	MSZ	
1,2-Dichloroethane [107-06-2] ^	**17000**	D	ug/L	200	42	200	1	EPA 8260B	11/06/15 07:45	MSZ	
1,2-Dichloropropane [78-87-5] ^	20	UD	ug/L	200	20	200	1	EPA 8260B	11/06/15 07:45	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	38	UD	ug/L	200	38	200	1	EPA 8260B	11/06/15 07:45	MSZ	
2-Butanone [78-93-3] ^	260	UD	ug/L	200	260	1000	100	EPA 8260B	11/06/15 07:45	MSZ	
2-Hexanone [591-78-6] ^	180	UD	ug/L	200	180	1000	50	EPA 8260B	11/06/15 07:45	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	220	UD	ug/L	200	220	1000	100	EPA 8260B	11/06/15 07:45	MSZ	
Acetone [67-64-1] ^	240	UD	ug/L	200	240	1000	100	EPA 8260B	11/06/15 07:45	MSZ	
Acrylonitrile [107-13-1] ^	700	UD	ug/L	200	700	2000	200	EPA 8260B	11/06/15 07:45	MSZ	
Benzene [71-43-2] ^	**350**	D	ug/L	200	30	200	1	EPA 8260B	11/06/15 07:45	MSZ	
Bromochloromethane [74-97-5] ^	96	UD	ug/L	200	96	200	3	EPA 8260B	11/06/15 07:45	MSZ	
Bromodichloromethane [75-27-4] ^	34	UD	ug/L	200	34	200	1	EPA 8260B	11/06/15 07:45	MSZ	
Bromoform [75-25-2] ^	44	UD	ug/L	200	44	200	3	EPA 8260B	11/06/15 07:45	MSZ	
Bromomethane [74-83-9] ^	28	UD	ug/L	200	28	200	10	EPA 8260B	11/06/15 07:45	MSZ	
Carbon disulfide [75-15-0] ^	300	UD	ug/L	200	300	1000	100	EPA 8260B	11/06/15 07:45	MSZ	
Carbon tetrachloride [56-23-5] ^	34	UD	ug/L	200	34	200	1	EPA 8260B	11/06/15 07:45	MSZ	
Chlorobenzene [108-90-7] ^	**32000**	D	ug/L	200	34	200	3	EPA 8260B	11/06/15 07:45	MSZ	
Chloroethane [75-00-3] ^	46	UD	ug/L	200	46	200	10	EPA 8260B	11/06/15 07:45	MSZ	
Chloroform [67-66-3] ^	36	UD	ug/L	200	36	200	5	EPA 8260B	11/06/15 07:45	MSZ	
Chloromethane [74-87-3] ^	26	UD	ug/L	200	26	200	1	EPA 8260B	11/06/15 07:45	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	**380**	D	ug/L	200	30	200	5	EPA 8260B	11/06/15 07:45	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	40	UD	ug/L	200	40	200	1	EPA 8260B	11/06/15 07:45	MSZ	
Dibromochloromethane [124-48-1] ^	34	UD	ug/L	200	34	200	3	EPA 8260B	11/06/15 07:45	MSZ	
Dibromomethane [74-95-3] ^	54	UD	ug/L	200	54	200	10	EPA 8260B	11/06/15 07:45	MSZ	
Ethylbenzene [100-41-4] ^	**86**	JD	ug/L	200	26	200	1	EPA 8260B	11/06/15 07:45	MSZ	
Iodomethane [74-88-4] ^	340	UD	ug/L	200	340	1000	10	EPA 8260B	11/06/15 07:45	MSZ	
m,p-Xylenes [108-38-3/106-42-3] ^	34	UD	ug/L	200	34	400	NE	EPA 8260B	11/06/15 07:45	MSZ	
Methylene chloride [75-09-2] ^	**1000**	D	ug/L	200	46	200	1	EPA 8260B	11/06/15 07:45	MSZ	
o-Xylene [95-47-6] ^	13	UD	ug/L	200	13	200	NE	EPA 8260B	11/06/15 07:45	MSZ	
Styrene [100-42-5] ^	22	UD	ug/L	200	22	200	1	EPA 8260B	11/06/15 07:45	MSZ	
Tetrachloroethene [127-18-4] ^	**3300**	D	ug/L	200	34	200	1	EPA 8260B	11/06/15 07:45	MSZ	
Toluene [108-88-3] ^	**1400**	D	ug/L	200	28	200	1	EPA 8260B	11/06/15 07:45	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	42	UD	ug/L	200	42	200	5	EPA 8260B	11/06/15 07:45	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	30	UD	ug/L	200	30	200	1	EPA 8260B	11/06/15 07:45	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	140	UD	ug/L	200	140	200	100	EPA 8260B	11/06/15 07:45	MSZ	
Trichloroethene [79-01-6] ^	**7000**	D	ug/L	200	30	200	1	EPA 8260B	11/06/15 07:45	MSZ	
Trichlorofluoromethane [75-69-4] ^	**160**	JD	ug/L	200	48	200	1	EPA 8260B	11/06/15 07:45	MSZ	
Vinyl acetate [108-05-4] ^	190	UD	ug/L	200	190	1000	50	EPA 8260B	11/06/15 07:45	MSZ	
Vinyl chloride [75-01-4] ^	**120**	JD	ug/L	200	64	200	1	EPA 8260B	11/06/15 07:45	MSZ	
Xylenes (Total) [1330-20-7] ^	90	UD	ug/L	200	90	600	5	EPA 8260B	11/06/15 07:45	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes

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Description: PW-3D
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513878-03
Sampled: 10/29/15 15:15
Sampled By: ROBERT WELDY

Received: 10/30/15 09:00
Work Order: C513878

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	*43*	*1*	*50.0*	*86 %*	*53-136*	*5K05027*	*EPA 8260B*	*11/06/15 07:45*	*MSZ*	
Dibromofluoromethane	*48*	*1*	*50.0*	*95 %*	*67-129*	*5K05027*	*EPA 8260B*	*11/06/15 07:45*	*MSZ*	
Toluene-d8	*46*	*1*	*50.0*	*91 %*	*59-134*	*5K05027*	*EPA 8260B*	*11/06/15 07:45*	*MSZ*	

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Description: PW-3D
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513878-03
Sampled: 10/29/15 15:15
Sampled By: ROBERT WELDY

Received: 10/30/15 09:00
Work Order: C513878

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**112**	D	ug/L	2	2.40	4.00	10	EPA 8260C	11/03/15 15:38	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*12.1*	*1*	*5.00*	*242 %*	*79-127*	*5K03005*	*EPA 8260C*	*11/03/15 15:38*	*rgg*	*QS-03*

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

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Description: PW-4I
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513878-04
Sampled: 10/29/15 16:01
Sampled By: ROBERT WELDY

Received: 10/30/15 09:00
Work Order: C513878

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] ^	0.34	UD	ug/L	2	0.34	2.0	5	EPA 8260B	11/06/15 22:16	REF	
1,1,1-Trichloroethane [71-55-6] ^	**33**	D	ug/L	2	0.24	2.0	1	EPA 8260B	11/06/15 22:16	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.56	UD	ug/L	2	0.56	2.0	3	EPA 8260B	11/06/15 22:16	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.28	UD	ug/L	2	0.28	2.0	1	EPA 8260B	11/06/15 22:16	REF	
1,1-Dichloroethane [75-34-3] ^	**75**	D	ug/L	2	0.26	2.0	5	EPA 8260B	11/06/15 22:16	REF	
1,1-Dichloroethene [75-35-4] ^	**43**	D	ug/L	2	0.42	2.0	5	EPA 8260B	11/06/15 22:16	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.46	UD	ug/L	2	0.46	2.0	1	EPA 8260B	11/06/15 22:16	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.96	UD	ug/L	2	0.96	2.0	13	EPA 8260B	11/06/15 22:16	REF	
1,2-Dibromoethane [106-93-4] ^	1.3	UD	ug/L	2	1.3	2.0	1	EPA 8260B	11/06/15 22:16	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.38	UD	ug/L	2	0.38	2.0	5	EPA 8260B	11/06/15 22:16	REF	
1,2-Dichloroethane [107-06-2] ^	**55**	D	ug/L	2	0.42	2.0	1	EPA 8260B	11/06/15 22:16	REF	
1,2-Dichloropropane [78-87-5] ^	0.20	UD	ug/L	2	0.20	2.0	1	EPA 8260B	11/06/15 22:16	REF	
1,4-Dichlorobenzene [106-46-7] ^	**3.9**	D	ug/L	2	0.38	2.0	1	EPA 8260B	11/06/15 22:16	REF	
2-Butanone [78-93-3] ^	2.6	UD	ug/L	2	2.6	10	100	EPA 8260B	11/06/15 22:16	REF	
2-Hexanone [591-78-6] ^	1.8	UD	ug/L	2	1.8	10	50	EPA 8260B	11/06/15 22:16	REF	
4-Methyl-2-pentanone [108-10-1] ^	2.2	UD	ug/L	2	2.2	10	100	EPA 8260B	11/06/15 22:16	REF	
Acetone [67-64-1] ^	2.4	UD	ug/L	2	2.4	10	100	EPA 8260B	11/06/15 22:16	REF	
Acrylonitrile [107-13-1] ^	7.0	UD	ug/L	2	7.0	20	200	EPA 8260B	11/06/15 22:16	REF	
Benzene [71-43-2] ^	**2.0**	D	ug/L	2	0.30	2.0	1	EPA 8260B	11/06/15 22:16	REF	
Bromochloromethane [74-97-5] ^	0.96	UD	ug/L	2	0.96	2.0	3	EPA 8260B	11/06/15 22:16	REF	
Bromodichloromethane [75-27-4] ^	0.34	UD	ug/L	2	0.34	2.0	1	EPA 8260B	11/06/15 22:16	REF	
Bromoform [75-25-2] ^	0.44	UD	ug/L	2	0.44	2.0	3	EPA 8260B	11/06/15 22:16	REF	
Bromomethane [74-83-9] ^	0.28	UD	ug/L	2	0.28	2.0	10	EPA 8260B	11/06/15 22:16	REF	
Carbon disulfide [75-15-0] ^	3.0	UD	ug/L	2	3.0	10	100	EPA 8260B	11/06/15 22:16	REF	
Carbon tetrachloride [56-23-5] ^	0.34	UD	ug/L	2	0.34	2.0	1	EPA 8260B	11/06/15 22:16	REF	
Chlorobenzene [108-90-7] ^	**88**	D	ug/L	2	0.34	2.0	3	EPA 8260B	11/06/15 22:16	REF	
Chloroethane [75-00-3] ^	0.46	UD	ug/L	2	0.46	2.0	10	EPA 8260B	11/06/15 22:16	REF	
Chloroform [67-66-3] ^	0.36	UD	ug/L	2	0.36	2.0	5	EPA 8260B	11/06/15 22:16	REF	
Chloromethane [74-87-3] ^	0.26	UD	ug/L	2	0.26	2.0	1	EPA 8260B	11/06/15 22:16	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**240**	D	ug/L	2	0.30	2.0	5	EPA 8260B	11/06/15 22:16	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.40	UD	ug/L	2	0.40	2.0	1	EPA 8260B	11/06/15 22:16	REF	
Dibromochloromethane [124-48-1] ^	0.34	UD	ug/L	2	0.34	2.0	3	EPA 8260B	11/06/15 22:16	REF	
Dibromomethane [74-95-3] ^	0.54	UD	ug/L	2	0.54	2.0	10	EPA 8260B	11/06/15 22:16	REF	
Ethylbenzene [100-41-4] ^	0.26	UD	ug/L	2	0.26	2.0	1	EPA 8260B	11/06/15 22:16	REF	
Iodomethane [74-88-4] ^	3.4	UD	ug/L	2	3.4	10	10	EPA 8260B	11/06/15 22:16	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	0.34	UD	ug/L	2	0.34	4.0	NE	EPA 8260B	11/06/15 22:16	REF	
Methylene chloride [75-09-2] ^	0.46	UD	ug/L	2	0.46	2.0	1	EPA 8260B	11/06/15 22:16	REF	
o-Xylene [95-47-6] ^	0.13	UD	ug/L	2	0.13	2.0	NE	EPA 8260B	11/06/15 22:16	REF	
Styrene [100-42-5] ^	0.22	UD	ug/L	2	0.22	2.0	1	EPA 8260B	11/06/15 22:16	REF	
Tetrachloroethene [127-18-4] ^	**44**	D	ug/L	2	0.34	2.0	1	EPA 8260B	11/06/15 22:16	REF	
Toluene [108-88-3] ^	0.28	UD	ug/L	2	0.28	2.0	1	EPA 8260B	11/06/15 22:16	REF	
trans-1,2-Dichloroethene [156-60-5] ^	**1.3**	JD	ug/L	2	0.42	2.0	5	EPA 8260B	11/06/15 22:16	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.30	UD	ug/L	2	0.30	2.0	1	EPA 8260B	11/06/15 22:16	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	1.4	UD	ug/L	2	1.4	2.0	100	EPA 8260B	11/06/15 22:16	REF	
Trichloroethene [79-01-6] ^	**95**	D	ug/L	2	0.30	2.0	1	EPA 8260B	11/06/15 22:16	REF	
Trichlorofluoromethane [75-69-4] ^	0.48	UD	ug/L	2	0.48	2.0	1	EPA 8260B	11/06/15 22:16	REF	
Vinyl acetate [108-05-4] ^	1.9	UD	ug/L	2	1.9	10	50	EPA 8260B	11/06/15 22:16	REF	
Vinyl chloride [75-01-4] ^	**57**	D	ug/L	2	0.64	2.0	1	EPA 8260B	11/06/15 22:16	REF	
Xylenes (Total) [1330-20-7] ^	0.90	UD	ug/L	2	0.90	6.0	5	EPA 8260B	11/06/15 22:16	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes

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Description:	PW-4I	**Lab Sample ID:**	C513878-04	**Received:**	10/30/15 09:00
Matrix:	Water	**Sampled:**	10/29/15 16:01	**Work Order:**	C513878
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

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	*45*	*1*	*50.0*	*90 %*	*53-136*	*5K06029*	*EPA 8260B*	*11/06/15 22:16*	*REF*	
Dibromofluoromethane	*42*	*1*	*50.0*	*85 %*	*67-129*	*5K06029*	*EPA 8260B*	*11/06/15 22:16*	*REF*	
Toluene-d8	*44*	*1*	*50.0*	*89 %*	*59-134*	*5K06029*	*EPA 8260B*	*11/06/15 22:16*	*REF*	

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Description: PW-4I
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513878-04
Sampled: 10/29/15 16:01
Sampled By: ROBERT WELDY

Received: 10/30/15 09:00
Work Order: C513878

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**206**	D	ug/L	10	12.0	20.0	10	EPA 8260C	11/03/15 16:14	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.70*	*1*	*5.00*	*114 %*	*79-127*	*5K03005*	*EPA 8260C*	*11/03/15 16:14*	*rgg*	

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

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Description: PW-10I
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513878-05
Sampled: 10/29/15 13:56
Sampled By: ROBERT WELDY

Received: 10/30/15 09:00
Work Order: C513878

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	11/06/15 22:45	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	11/06/15 22:45	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/06/15 22:45	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/06/15 22:45	REF	
1,1-Dichloroethane [75-34-3] ^	**16**		ug/L	1	0.13	1.0	5	EPA 8260B	11/06/15 22:45	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/06/15 22:45	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/06/15 22:45	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/06/15 22:45	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/06/15 22:45	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/06/15 22:45	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	11/06/15 22:45	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/06/15 22:45	REF	
1,4-Dichlorobenzene [106-46-7] ^	**2.3**		ug/L	1	0.19	1.0	1	EPA 8260B	11/06/15 22:45	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/06/15 22:45	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/06/15 22:45	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/06/15 22:45	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/06/15 22:45	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/06/15 22:45	REF	
Benzene [71-43-2] ^	**0.57**	J	ug/L	1	0.15	1.0	1	EPA 8260B	11/06/15 22:45	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/06/15 22:45	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/06/15 22:45	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/06/15 22:45	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/06/15 22:45	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/06/15 22:45	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/06/15 22:45	REF	
Chlorobenzene [108-90-7] ^	**2.7**	J	ug/L	1	0.17	1.0	3	EPA 8260B	11/06/15 22:45	REF	
Chloroethane [75-00-3] ^	**3.3**	J	ug/L	1	0.23	1.0	10	EPA 8260B	11/06/15 22:45	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/06/15 22:45	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/06/15 22:45	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**4.2**	J	ug/L	1	0.15	1.0	5	EPA 8260B	11/06/15 22:45	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/06/15 22:45	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/06/15 22:45	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/06/15 22:45	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/06/15 22:45	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/06/15 22:45	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/06/15 22:45	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/06/15 22:45	REF	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	11/06/15 22:45	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/06/15 22:45	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/06/15 22:45	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/06/15 22:45	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/06/15 22:45	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/06/15 22:45	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/06/15 22:45	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/06/15 22:45	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/06/15 22:45	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/06/15 22:45	REF	
Vinyl chloride [75-01-4] ^	**3.9**		ug/L	1	0.32	1.0	1	EPA 8260B	11/06/15 22:45	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	11/06/15 22:45	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes

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Description:	PW-10I	**Lab Sample ID:**	C513878-05	**Received:**	10/30/15 09:00
Matrix:	Water	**Sampled:**	10/29/15 13:56	**Work Order:**	C513878
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

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	*44*	*1*	*50.0*	*89 %*	*53-136*	*5K06029*	*EPA 8260B*	*11/06/15 22:45*	*REF*	
Dibromofluoromethane	*44*	*1*	*50.0*	*88 %*	*67-129*	*5K06029*	*EPA 8260B*	*11/06/15 22:45*	*REF*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*59-134*	*5K06029*	*EPA 8260B*	*11/06/15 22:45*	*REF*	

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Description:	PW-10I	**Lab Sample ID:**	C513878-05	**Received:**	10/30/15 09:00
Matrix:	Water	**Sampled:**	10/29/15 13:56	**Work Order:**	C513878
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**222**	D	ug/L	10	12.0	20.0	10	EPA 8260C	11/03/15 16:51	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.92*	*1*	*5.00*	*98 %*	*79-127*	*5K03005*	*EPA 8260C*	*11/03/15 16:51*	*rgg*	

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

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Description: MW-12D
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513878-06
Sampled: 10/29/15 09:40
Sampled By: ROBERT WELDY

Received: 10/30/15 09:00
Work Order: C513878

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	11/06/15 23:13	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	11/06/15 23:13	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/06/15 23:13	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/06/15 23:13	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	11/06/15 23:13	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/06/15 23:13	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/06/15 23:13	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/06/15 23:13	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/06/15 23:13	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/06/15 23:13	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	11/06/15 23:13	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/06/15 23:13	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	11/06/15 23:13	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/06/15 23:13	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/06/15 23:13	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/06/15 23:13	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/06/15 23:13	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/06/15 23:13	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/06/15 23:13	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/06/15 23:13	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/06/15 23:13	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/06/15 23:13	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/06/15 23:13	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/06/15 23:13	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/06/15 23:13	REF	
Chlorobenzene [108-90-7] ^	**1.1**	J	ug/L	1	0.17	1.0	3	EPA 8260B	11/06/15 23:13	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	11/06/15 23:13	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/06/15 23:13	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/06/15 23:13	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**0.49**	J	ug/L	1	0.15	1.0	5	EPA 8260B	11/06/15 23:13	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/06/15 23:13	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/06/15 23:13	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/06/15 23:13	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/06/15 23:13	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/06/15 23:13	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/06/15 23:13	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/06/15 23:13	REF	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	11/06/15 23:13	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/06/15 23:13	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/06/15 23:13	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/06/15 23:13	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/06/15 23:13	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/06/15 23:13	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/06/15 23:13	REF	
Trichloroethene [79-01-6] ^	**0.56**	J	ug/L	1	0.15	1.0	1	EPA 8260B	11/06/15 23:13	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/06/15 23:13	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/06/15 23:13	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/06/15 23:13	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	11/06/15 23:13	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes

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Description:	MW-12D	**Lab Sample ID:**	C513878-06	**Received:**	10/30/15 09:00
Matrix:	Water	**Sampled:**	10/29/15 09:40	**Work Order:**	C513878
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

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	*45*	*1*	*50.0*	*90 %*	*53-136*	*5K06029*	*EPA 8260B*	*11/06/15 23:13*	*REF*	
Dibromofluoromethane	*47*	*1*	*50.0*	*94 %*	*67-129*	*5K06029*	*EPA 8260B*	*11/06/15 23:13*	*REF*	
Toluene-d8	*46*	*1*	*50.0*	*93 %*	*59-134*	*5K06029*	*EPA 8260B*	*11/06/15 23:13*	*REF*	

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Description:	MW-12D	**Lab Sample ID:**	C513878-06	**Received:**	10/30/15 09:00
Matrix:	Water	**Sampled:**	10/29/15 09:40	**Work Order:**	C513878
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**4.29**	J	ug/L	1	1.20	2.00	10	EPA 8260C	11/04/15 11:55	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.30*	*1*	*5.00*	*106 %*	*79-127*	*5K04014*	*EPA 8260C*	*11/04/15 11:55*	*rgg*	

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

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Description: Trip Blank | **Lab Sample ID:** C513878-07 | **Received:** 10/30/15 09:00

Matrix: Water | **Sampled:** 10/28/15 13:58 | **Work Order:** C513878

Project: Seaboard/Riverdale Landfill | **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	11/04/15 04:02	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	11/04/15 04:02	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/04/15 04:02	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/04/15 04:02	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	11/04/15 04:02	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/04/15 04:02	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/04/15 04:02	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/04/15 04:02	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/04/15 04:02	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/04/15 04:02	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	11/04/15 04:02	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/04/15 04:02	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	11/04/15 04:02	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/04/15 04:02	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/04/15 04:02	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/04/15 04:02	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/04/15 04:02	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/04/15 04:02	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/04/15 04:02	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/04/15 04:02	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/04/15 04:02	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/04/15 04:02	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/04/15 04:02	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/04/15 04:02	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/04/15 04:02	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/04/15 04:02	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	11/04/15 04:02	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/04/15 04:02	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/04/15 04:02	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	11/04/15 04:02	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/04/15 04:02	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/04/15 04:02	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/04/15 04:02	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/04/15 04:02	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/04/15 04:02	MSZ	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/04/15 04:02	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/04/15 04:02	MSZ	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	11/04/15 04:02	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/04/15 04:02	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/04/15 04:02	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/04/15 04:02	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/04/15 04:02	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/04/15 04:02	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/04/15 04:02	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/04/15 04:02	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/04/15 04:02	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/04/15 04:02	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/04/15 04:02	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	11/04/15 04:02	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description: Trip Blank
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513878-07
Sampled: 10/28/15 13:58
Sampled By: ENCO

Received: 10/30/15 09:00
Work Order: C513878

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	*51*	*1*	*50.0*	*102 %*	*53-136*	*5K03036*	*EPA 8260B*	*11/04/15 04:02*	*MSZ*	
Dibromofluoromethane	*50*	*1*	*50.0*	*99 %*	*67-129*	*5K03036*	*EPA 8260B*	*11/04/15 04:02*	*MSZ*	
Toluene-d8	*63*	*1*	*50.0*	*126 %*	*59-134*	*5K03036*	*EPA 8260B*	*11/04/15 04:02*	*MSZ*	

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Description: Trip Blank
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513878-07
Sampled: 10/28/15 13:58
Sampled By: ENCO

Received: 10/30/15 09:00
Work Order: C513878

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	1.20	U	ug/L	1	1.20	2.00	10	EPA 8260C	11/03/15 13:53	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.60*	*1*	*5.00*	*112 %*	*79-127*	*5K03005*	*EPA 8260C*	*11/03/15 13:53*	*rgg*	

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

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Description: MW-6 | **Lab Sample ID:** C514028-01 | **Received:** 10/31/15 11:15

Matrix: Water | **Sampled:** 10/30/15 09:22 | **Work Order:** C514028

Project: Seaboard/Riverdale Landfill | **Sampled By:** ROBERT WELDY

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	11/07/15 07:22	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	11/07/15 07:22	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/07/15 07:22	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/07/15 07:22	REF	
1,1-Dichloroethane [75-34-3] ^	**10**		ug/L	1	0.13	1.0	5	EPA 8260B	11/07/15 07:22	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/07/15 07:22	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/07/15 07:22	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/07/15 07:22	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/07/15 07:22	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/07/15 07:22	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	11/07/15 07:22	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/07/15 07:22	REF	
1,4-Dichlorobenzene [106-46-7] ^	**1.5**		ug/L	1	0.19	1.0	1	EPA 8260B	11/07/15 07:22	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/07/15 07:22	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/07/15 07:22	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/07/15 07:22	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/07/15 07:22	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/07/15 07:22	REF	
Benzene [71-43-2] ^	**0.63**	J	ug/L	1	0.15	1.0	1	EPA 8260B	11/07/15 07:22	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/07/15 07:22	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/07/15 07:22	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/07/15 07:22	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/07/15 07:22	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/07/15 07:22	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/07/15 07:22	REF	
Chlorobenzene [108-90-7] ^	**2.0**	J	ug/L	1	0.17	1.0	3	EPA 8260B	11/07/15 07:22	REF	
Chloroethane [75-00-3] ^	**2.2**	J	ug/L	1	0.23	1.0	10	EPA 8260B	11/07/15 07:22	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/07/15 07:22	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/07/15 07:22	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**8.3**		ug/L	1	0.15	1.0	5	EPA 8260B	11/07/15 07:22	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/07/15 07:22	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/07/15 07:22	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/07/15 07:22	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/07/15 07:22	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/07/15 07:22	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/07/15 07:22	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/07/15 07:22	REF	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	11/07/15 07:22	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/07/15 07:22	REF	
Tetrachloroethene [127-18-4] ^	**0.99**	J	ug/L	1	0.17	1.0	1	EPA 8260B	11/07/15 07:22	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/07/15 07:22	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/07/15 07:22	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/07/15 07:22	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/07/15 07:22	REF	
Trichloroethene [79-01-6] ^	**1.2**		ug/L	1	0.15	1.0	1	EPA 8260B	11/07/15 07:22	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/07/15 07:22	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/07/15 07:22	REF	
Vinyl chloride [75-01-4] ^	**3.2**		ug/L	1	0.32	1.0	1	EPA 8260B	11/07/15 07:22	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	11/07/15 07:22	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes

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Description:	MW-6	**Lab Sample ID:**	C514028-01	**Received:**	10/31/15 11:15
Matrix:	Water	**Sampled:**	10/30/15 09:22	**Work Order:**	C514028
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

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	*44*	*1*	*50.0*	*87 %*	*53-136*	*5K06038*	*EPA 8260B*	*11/07/15 07:22*	*REF*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*67-129*	*5K06038*	*EPA 8260B*	*11/07/15 07:22*	*REF*	
Toluene-d8	*46*	*1*	*50.0*	*93 %*	*59-134*	*5K06038*	*EPA 8260B*	*11/07/15 07:22*	*REF*	

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Description: MW-6
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C514028-01
Sampled: 10/30/15 09:22
Sampled By: ROBERT WELDY

Received: 10/31/15 11:15
Work Order: C514028

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**44.8**	D	ug/L	2	2.40	4.00	10	EPA 8260C	11/03/15 18:42	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.58*	*1*	*5.00*	*112 %*	*79-127*	*5K03005*	*EPA 8260C*	*11/03/15 18:42*	*rgg*	

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

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Description: OW DR-2 | **Lab Sample ID:** C514028-02 | **Received:** 10/31/15 11:15

Matrix: Water | **Sampled:** 10/30/15 14:37 | **Work Order:** C514028

Project: Seaboard/Riverdale Landfill | **Sampled By:** ROBERT WELDY

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] ^	3.4	UD	ug/L	20	3.4	20	5	EPA 8260B	11/10/15 13:34	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	**720**	D	ug/L	20	2.4	20	1	EPA 8260B	11/10/15 13:34	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	5.6	UD	ug/L	20	5.6	20	3	EPA 8260B	11/10/15 13:34	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	2.8	UD	ug/L	20	2.8	20	1	EPA 8260B	11/10/15 13:34	MSZ	
1,1-Dichloroethane [75-34-3] ^	**1300**	D	ug/L	20	2.6	20	5	EPA 8260B	11/10/15 13:34	MSZ	
1,1-Dichloroethene [75-35-4] ^	**800**	D	ug/L	20	4.2	20	5	EPA 8260B	11/10/15 13:34	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	4.6	UD	ug/L	20	4.6	20	1	EPA 8260B	11/10/15 13:34	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	9.6	UD	ug/L	20	9.6	20	13	EPA 8260B	11/10/15 13:34	MSZ	
1,2-Dibromoethane [106-93-4] ^	13	UD	ug/L	20	13	20	1	EPA 8260B	11/10/15 13:34	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	3.8	UD	ug/L	20	3.8	20	5	EPA 8260B	11/10/15 13:34	MSZ	
1,2-Dichloroethane [107-06-2] ^	**71**	D	ug/L	20	4.2	20	1	EPA 8260B	11/10/15 13:34	MSZ	
1,2-Dichloropropane [78-87-5] ^	2.0	UD	ug/L	20	2.0	20	1	EPA 8260B	11/10/15 13:34	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	3.8	UD	ug/L	20	3.8	20	1	EPA 8260B	11/10/15 13:34	MSZ	
2-Butanone [78-93-3] ^	26	UD	ug/L	20	26	100	100	EPA 8260B	11/10/15 13:34	MSZ	
2-Hexanone [591-78-6] ^	18	UD	ug/L	20	18	100	50	EPA 8260B	11/10/15 13:34	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	22	UD	ug/L	20	22	100	100	EPA 8260B	11/10/15 13:34	MSZ	
Acetone [67-64-1] ^	24	UD	ug/L	20	24	100	100	EPA 8260B	11/10/15 13:34	MSZ	
Acrylonitrile [107-13-1] ^	70	UD	ug/L	20	70	200	200	EPA 8260B	11/10/15 13:34	MSZ	
Benzene [71-43-2] ^	**79**	D	ug/L	20	3.0	20	1	EPA 8260B	11/10/15 13:34	MSZ	
Bromochloromethane [74-97-5] ^	9.6	UD	ug/L	20	9.6	20	3	EPA 8260B	11/10/15 13:34	MSZ	
Bromodichloromethane [75-27-4] ^	3.4	UD	ug/L	20	3.4	20	1	EPA 8260B	11/10/15 13:34	MSZ	
Bromoform [75-25-2] ^	4.4	UD	ug/L	20	4.4	20	3	EPA 8260B	11/10/15 13:34	MSZ	
Bromomethane [74-83-9] ^	2.8	UD	ug/L	20	2.8	20	10	EPA 8260B	11/10/15 13:34	MSZ	
Carbon disulfide [75-15-0] ^	30	UD	ug/L	20	30	100	100	EPA 8260B	11/10/15 13:34	MSZ	
Carbon tetrachloride [56-23-5] ^	3.4	UD	ug/L	20	3.4	20	1	EPA 8260B	11/10/15 13:34	MSZ	
Chlorobenzene [108-90-7] ^	**3400**	D	ug/L	20	3.4	20	3	EPA 8260B	11/10/15 13:34	MSZ	
Chloroethane [75-00-3] ^	**480**	D	ug/L	20	4.6	20	10	EPA 8260B	11/10/15 13:34	MSZ	
Chloroform [67-66-3] ^	3.6	UD	ug/L	20	3.6	20	5	EPA 8260B	11/10/15 13:34	MSZ	
Chloromethane [74-87-3] ^	2.6	UD	ug/L	20	2.6	20	1	EPA 8260B	11/10/15 13:34	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	**3200**	D	ug/L	20	3.0	20	5	EPA 8260B	11/10/15 13:34	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	4.0	UD	ug/L	20	4.0	20	1	EPA 8260B	11/10/15 13:34	MSZ	
Dibromochloromethane [124-48-1] ^	3.4	UD	ug/L	20	3.4	20	3	EPA 8260B	11/10/15 13:34	MSZ	
Dibromomethane [74-95-3] ^	5.4	UD	ug/L	20	5.4	20	10	EPA 8260B	11/10/15 13:34	MSZ	
Ethylbenzene [100-41-4] ^	2.6	UD	ug/L	20	2.6	20	1	EPA 8260B	11/10/15 13:34	MSZ	
Iodomethane [74-88-4] ^	34	UD	ug/L	20	34	100	10	EPA 8260B	11/10/15 13:34	MSZ	
m,p-Xylenes [108-38-3/106-42-3] ^	3.4	UD	ug/L	20	3.4	40	NE	EPA 8260B	11/10/15 13:34	MSZ	
Methylene chloride [75-09-2] ^	4.6	UD	ug/L	20	4.6	20	1	EPA 8260B	11/10/15 13:34	MSZ	
o-Xylene [95-47-6] ^	**24**	D	ug/L	20	1.3	20	NE	EPA 8260B	11/10/15 13:34	MSZ	
Styrene [100-42-5] ^	2.2	UD	ug/L	20	2.2	20	1	EPA 8260B	11/10/15 13:34	MSZ	
Tetrachloroethene [127-18-4] ^	**24**	D	ug/L	20	3.4	20	1	EPA 8260B	11/10/15 13:34	MSZ	
Toluene [108-88-3] ^	**95**	D	ug/L	20	2.8	20	1	EPA 8260B	11/10/15 13:34	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	**14**	JD	ug/L	20	4.2	20	5	EPA 8260B	11/10/15 13:34	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	3.0	UD	ug/L	20	3.0	20	1	EPA 8260B	11/10/15 13:34	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	14	UD	ug/L	20	14	20	100	EPA 8260B	11/10/15 13:34	MSZ	
Trichloroethene [79-01-6] ^	**22**	D	ug/L	20	3.0	20	1	EPA 8260B	11/10/15 13:34	MSZ	
Trichlorofluoromethane [75-69-4] ^	4.8	UD	ug/L	20	4.8	20	1	EPA 8260B	11/10/15 13:34	MSZ	
Vinyl acetate [108-05-4] ^	19	UD	ug/L	20	19	100	50	EPA 8260B	11/10/15 13:34	MSZ	
Vinyl chloride [75-01-4] ^	**750**	D	ug/L	20	6.4	20	1	EPA 8260B	11/10/15 13:34	MSZ	
Xylenes (Total) [1330-20-7] ^	**24**	JD	ug/L	20	9.0	60	5	EPA 8260B	11/10/15 13:34	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes

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Description: OW DR-2 | **Lab Sample ID:** C514028-02 | **Received:** 10/31/15 11:15

Matrix: Water | **Sampled:** 10/30/15 14:37 | **Work Order:** C514028

Project: Seaboard/Riverdale Landfill | **Sampled By:** ROBERT WELDY

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	*45*	*1*	*50.0*	*91 %*	*53-136*	*5K09034*	*EPA 8260B*	*11/10/15 13:34*	*MSZ*	
Dibromofluoromethane	*45*	*1*	*50.0*	*89 %*	*67-129*	*5K09034*	*EPA 8260B*	*11/10/15 13:34*	*MSZ*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*59-134*	*5K09034*	*EPA 8260B*	*11/10/15 13:34*	*MSZ*	

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Description:	OW DR-2	**Lab Sample ID:**	C514028-02	**Received:**	10/31/15 11:15
Matrix:	Water	**Sampled:**	10/30/15 14:37	**Work Order:**	C514028
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**1630**	D	ug/L	100	120	200	10	EPA 8260C	11/03/15 19:19	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.65*	*1*	*5.00*	*93 %*	*79-127*	*5K03005*	*EPA 8260C*	*11/03/15 19:19*	*rgg*	

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

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Description: PW-5D
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C514028-03
Sampled: 10/30/15 10:15
Sampled By: ROBERT WELDY

Received: 10/31/15 11:15
Work Order: C514028

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] ^	3.4	UD	ug/L	20	3.4	20	5	EPA 8260B	11/10/15 14:03	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	**280**	D	ug/L	20	2.4	20	1	EPA 8260B	11/10/15 14:03	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	5.6	UD	ug/L	20	5.6	20	3	EPA 8260B	11/10/15 14:03	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	2.8	UD	ug/L	20	2.8	20	1	EPA 8260B	11/10/15 14:03	MSZ	
1,1-Dichloroethane [75-34-3] ^	**870**	D	ug/L	20	2.6	20	5	EPA 8260B	11/10/15 14:03	MSZ	
1,1-Dichloroethene [75-35-4] ^	**490**	D	ug/L	20	4.2	20	5	EPA 8260B	11/10/15 14:03	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	4.6	UD	ug/L	20	4.6	20	1	EPA 8260B	11/10/15 14:03	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	9.6	UD	ug/L	20	9.6	20	13	EPA 8260B	11/10/15 14:03	MSZ	
1,2-Dibromoethane [106-93-4] ^	13	UD	ug/L	20	13	20	1	EPA 8260B	11/10/15 14:03	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	3.8	UD	ug/L	20	3.8	20	5	EPA 8260B	11/10/15 14:03	MSZ	
1,2-Dichloroethane [107-06-2] ^	**61**	D	ug/L	20	4.2	20	1	EPA 8260B	11/10/15 14:03	MSZ	
1,2-Dichloropropane [78-87-5] ^	2.0	UD	ug/L	20	2.0	20	1	EPA 8260B	11/10/15 14:03	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	3.8	UD	ug/L	20	3.8	20	1	EPA 8260B	11/10/15 14:03	MSZ	
2-Butanone [78-93-3] ^	26	UD	ug/L	20	26	100	100	EPA 8260B	11/10/15 14:03	MSZ	
2-Hexanone [591-78-6] ^	18	UD	ug/L	20	18	100	50	EPA 8260B	11/10/15 14:03	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	22	UD	ug/L	20	22	100	100	EPA 8260B	11/10/15 14:03	MSZ	
Acetone [67-64-1] ^	24	UD	ug/L	20	24	100	100	EPA 8260B	11/10/15 14:03	MSZ	
Acrylonitrile [107-13-1] ^	70	UD	ug/L	20	70	200	200	EPA 8260B	11/10/15 14:03	MSZ	
Benzene [71-43-2] ^	**46**	D	ug/L	20	3.0	20	1	EPA 8260B	11/10/15 14:03	MSZ	
Bromochloromethane [74-97-5] ^	9.6	UD	ug/L	20	9.6	20	3	EPA 8260B	11/10/15 14:03	MSZ	
Bromodichloromethane [75-27-4] ^	3.4	UD	ug/L	20	3.4	20	1	EPA 8260B	11/10/15 14:03	MSZ	
Bromoform [75-25-2] ^	4.4	UD	ug/L	20	4.4	20	3	EPA 8260B	11/10/15 14:03	MSZ	
Bromomethane [74-83-9] ^	2.8	UD	ug/L	20	2.8	20	10	EPA 8260B	11/10/15 14:03	MSZ	
Carbon disulfide [75-15-0] ^	30	UD	ug/L	20	30	100	100	EPA 8260B	11/10/15 14:03	MSZ	
Carbon tetrachloride [56-23-5] ^	3.4	UD	ug/L	20	3.4	20	1	EPA 8260B	11/10/15 14:03	MSZ	
Chlorobenzene [108-90-7] ^	**2000**	D	ug/L	20	3.4	20	3	EPA 8260B	11/10/15 14:03	MSZ	
Chloroethane [75-00-3] ^	**52**	D	ug/L	20	4.6	20	10	EPA 8260B	11/10/15 14:03	MSZ	
Chloroform [67-66-3] ^	3.6	UD	ug/L	20	3.6	20	5	EPA 8260B	11/10/15 14:03	MSZ	
Chloromethane [74-87-3] ^	2.6	UD	ug/L	20	2.6	20	1	EPA 8260B	11/10/15 14:03	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	**1900**	D	ug/L	20	3.0	20	5	EPA 8260B	11/10/15 14:03	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	4.0	UD	ug/L	20	4.0	20	1	EPA 8260B	11/10/15 14:03	MSZ	
Dibromochloromethane [124-48-1] ^	3.4	UD	ug/L	20	3.4	20	3	EPA 8260B	11/10/15 14:03	MSZ	
Dibromomethane [74-95-3] ^	5.4	UD	ug/L	20	5.4	20	10	EPA 8260B	11/10/15 14:03	MSZ	
Ethylbenzene [100-41-4] ^	2.6	UD	ug/L	20	2.6	20	1	EPA 8260B	11/10/15 14:03	MSZ	
Iodomethane [74-88-4] ^	34	UD	ug/L	20	34	100	10	EPA 8260B	11/10/15 14:03	MSZ	
m,p-Xylenes [108-38-3/106-42-3] ^	3.4	UD	ug/L	20	3.4	40	NE	EPA 8260B	11/10/15 14:03	MSZ	
Methylene chloride [75-09-2] ^	4.6	UD	ug/L	20	4.6	20	1	EPA 8260B	11/10/15 14:03	MSZ	
o-Xylene [95-47-6] ^	**13**	JD	ug/L	20	1.3	20	NE	EPA 8260B	11/10/15 14:03	MSZ	
Styrene [100-42-5] ^	2.2	UD	ug/L	20	2.2	20	1	EPA 8260B	11/10/15 14:03	MSZ	
Tetrachloroethene [127-18-4] ^	**14**	JD	ug/L	20	3.4	20	1	EPA 8260B	11/10/15 14:03	MSZ	
Toluene [108-88-3] ^	**45**	D	ug/L	20	2.8	20	1	EPA 8260B	11/10/15 14:03	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	**8.8**	JD	ug/L	20	4.2	20	5	EPA 8260B	11/10/15 14:03	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	3.0	UD	ug/L	20	3.0	20	1	EPA 8260B	11/10/15 14:03	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	14	UD	ug/L	20	14	20	100	EPA 8260B	11/10/15 14:03	MSZ	
Trichloroethene [79-01-6] ^	**9.2**	JD	ug/L	20	3.0	20	1	EPA 8260B	11/10/15 14:03	MSZ	
Trichlorofluoromethane [75-69-4] ^	4.8	UD	ug/L	20	4.8	20	1	EPA 8260B	11/10/15 14:03	MSZ	
Vinyl acetate [108-05-4] ^	19	UD	ug/L	20	19	100	50	EPA 8260B	11/10/15 14:03	MSZ	
Vinyl chloride [75-01-4] ^	**380**	D	ug/L	20	6.4	20	1	EPA 8260B	11/10/15 14:03	MSZ	
Xylenes (Total) [1330-20-7] ^	**13**	JD	ug/L	20	9.0	60	5	EPA 8260B	11/10/15 14:03	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes

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Description: PW-5D
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C514028-03
Sampled: 10/30/15 10:15
Sampled By: ROBERT WELDY

Received: 10/31/15 11:15
Work Order: C514028

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	*46*	*1*	*50.0*	*92 %*	*53-136*	*5K09034*	*EPA 8260B*	*11/10/15 14:03*	*MSZ*	
Dibromofluoromethane	*46*	*1*	*50.0*	*91 %*	*67-129*	*5K09034*	*EPA 8260B*	*11/10/15 14:03*	*MSZ*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*59-134*	*5K09034*	*EPA 8260B*	*11/10/15 14:03*	*MSZ*	

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Description: PW-5D
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C514028-03
Sampled: 10/30/15 10:15
Sampled By: ROBERT WELDY

Received: 10/31/15 11:15
Work Order: C514028

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**1390**	D	ug/L	100	120	200	10	EPA 8260C	11/03/15 19:54	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.48*	*1*	*5.00*	*110 %*	*79-127*	*5K03005*	*EPA 8260C*	*11/03/15 19:54*	*rgg*	

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Description: PW-6D
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C514028-04
Sampled: 10/30/15 12:50
Sampled By: ROBERT WELDY

Received: 10/31/15 11:15
Work Order: C514028

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	11/07/15 08:48	REF	
1,1,1-Trichloroethane [71-55-6] ^	**2.7**		ug/L	1	0.12	1.0	1	EPA 8260B	11/07/15 08:48	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/07/15 08:48	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/07/15 08:48	REF	
1,1-Dichloroethane [75-34-3] ^	**20**		ug/L	1	0.13	1.0	5	EPA 8260B	11/07/15 08:48	REF	
1,1-Dichloroethene [75-35-4] ^	**8.6**		ug/L	1	0.21	1.0	5	EPA 8260B	11/07/15 08:48	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/07/15 08:48	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/07/15 08:48	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/07/15 08:48	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/07/15 08:48	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	11/07/15 08:48	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/07/15 08:48	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	11/07/15 08:48	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/07/15 08:48	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/07/15 08:48	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/07/15 08:48	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/07/15 08:48	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/07/15 08:48	REF	
Benzene [71-43-2] ^	**0.90**	J	ug/L	1	0.15	1.0	1	EPA 8260B	11/07/15 08:48	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/07/15 08:48	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/07/15 08:48	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/07/15 08:48	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/07/15 08:48	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/07/15 08:48	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/07/15 08:48	REF	
Chlorobenzene [108-90-7] ^	**46**		ug/L	1	0.17	1.0	3	EPA 8260B	11/07/15 08:48	REF	
Chloroethane [75-00-3] ^	**3.0**	J	ug/L	1	0.23	1.0	10	EPA 8260B	11/07/15 08:48	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/07/15 08:48	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/07/15 08:48	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**31**		ug/L	1	0.15	1.0	5	EPA 8260B	11/07/15 08:48	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/07/15 08:48	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/07/15 08:48	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/07/15 08:48	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/07/15 08:48	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/07/15 08:48	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/07/15 08:48	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/07/15 08:48	REF	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	11/07/15 08:48	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/07/15 08:48	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/07/15 08:48	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/07/15 08:48	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/07/15 08:48	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/07/15 08:48	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/07/15 08:48	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/07/15 08:48	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/07/15 08:48	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/07/15 08:48	REF	
Vinyl chloride [75-01-4] ^	**7.9**		ug/L	1	0.32	1.0	1	EPA 8260B	11/07/15 08:48	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	11/07/15 08:48	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes

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Description: PW-6D
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C514028-04
Sampled: 10/30/15 12:50
Sampled By: ROBERT WELDY

Received: 10/31/15 11:15
Work Order: C514028

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	*44*	*1*	*50.0*	*87 %*	*53-136*	*5K06038*	*EPA 8260B*	*11/07/15 08:48*	*REF*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*67-129*	*5K06038*	*EPA 8260B*	*11/07/15 08:48*	*REF*	
Toluene-d8	*46*	*1*	*50.0*	*93 %*	*59-134*	*5K06038*	*EPA 8260B*	*11/07/15 08:48*	*REF*	

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Description: PW-6D
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C514028-04
Sampled: 10/30/15 12:50
Sampled By: ROBERT WELDY

Received: 10/31/15 11:15
Work Order: C514028

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**8.85**	J	ug/L	1	1.20	2.00	10	EPA 8260C	11/04/15 13:06	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.22*	*1*	*5.00*	*104 %*	*79-127*	*5K04014*	*EPA 8260C*	*11/04/15 13:06*	*rgg*	

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

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Description: PW-12I
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C514028-05
Sampled: 10/30/15 11:56
Sampled By: ROBERT WELDY

Received: 10/31/15 11:15
Work Order: C514028

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	11/07/15 09:17	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	11/07/15 09:17	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/07/15 09:17	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/07/15 09:17	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	11/07/15 09:17	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/07/15 09:17	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/07/15 09:17	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/07/15 09:17	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/07/15 09:17	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/07/15 09:17	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	11/07/15 09:17	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/07/15 09:17	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	11/07/15 09:17	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/07/15 09:17	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/07/15 09:17	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/07/15 09:17	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/07/15 09:17	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/07/15 09:17	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/07/15 09:17	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/07/15 09:17	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/07/15 09:17	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/07/15 09:17	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/07/15 09:17	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/07/15 09:17	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/07/15 09:17	REF	
Chlorobenzene [108-90-7] ^	**1.3**	J	ug/L	1	0.17	1.0	3	EPA 8260B	11/07/15 09:17	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	11/07/15 09:17	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/07/15 09:17	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/07/15 09:17	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**0.70**	J	ug/L	1	0.15	1.0	5	EPA 8260B	11/07/15 09:17	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/07/15 09:17	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/07/15 09:17	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/07/15 09:17	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/07/15 09:17	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/07/15 09:17	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/07/15 09:17	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/07/15 09:17	REF	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	11/07/15 09:17	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/07/15 09:17	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/07/15 09:17	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/07/15 09:17	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/07/15 09:17	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/07/15 09:17	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/07/15 09:17	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/07/15 09:17	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/07/15 09:17	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/07/15 09:17	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/07/15 09:17	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	11/07/15 09:17	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	PW-12I	**Lab Sample ID:**	C514028-05	**Received:**	10/31/15 11:15
Matrix:	Water	**Sampled:**	10/30/15 11:56	**Work Order:**	C514028
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

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	*45*	*1*	*50.0*	*90 %*	*53-136*	*5K06038*	*EPA 8260B*	*11/07/15 09:17*	*REF*	
Dibromofluoromethane	*47*	*1*	*50.0*	*93 %*	*67-129*	*5K06038*	*EPA 8260B*	*11/07/15 09:17*	*REF*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*59-134*	*5K06038*	*EPA 8260B*	*11/07/15 09:17*	*REF*	

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Description: PW-12I
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C514028-05
Sampled: 10/30/15 11:56
Sampled By: ROBERT WELDY

Received: 10/31/15 11:15
Work Order: C514028

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	1.20	U	ug/L	1	1.20	2.00	10	EPA 8260C	11/04/15 13:43	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.70*	*1*	*5.00*	*94 %*	*79-127*	*5K04014*	*EPA 8260C*	*11/04/15 13:43*	*rgg*	

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

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Description: Trip Blank
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C514028-06
Sampled: 10/30/15 09:22
Sampled By: ENCO

Received: 10/31/15 11:15
Work Order: C514028

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	11/07/15 04:01	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	11/07/15 04:01	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/07/15 04:01	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/07/15 04:01	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	11/07/15 04:01	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/07/15 04:01	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/07/15 04:01	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/07/15 04:01	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/07/15 04:01	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/07/15 04:01	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	11/07/15 04:01	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/07/15 04:01	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	11/07/15 04:01	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/07/15 04:01	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/07/15 04:01	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/07/15 04:01	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/07/15 04:01	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/07/15 04:01	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/07/15 04:01	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/07/15 04:01	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/07/15 04:01	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/07/15 04:01	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/07/15 04:01	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/07/15 04:01	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/07/15 04:01	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/07/15 04:01	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	11/07/15 04:01	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/07/15 04:01	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/07/15 04:01	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	11/07/15 04:01	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/07/15 04:01	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/07/15 04:01	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/07/15 04:01	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/07/15 04:01	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/07/15 04:01	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/07/15 04:01	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/07/15 04:01	REF	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	11/07/15 04:01	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/07/15 04:01	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/07/15 04:01	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/07/15 04:01	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/07/15 04:01	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/07/15 04:01	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/07/15 04:01	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/07/15 04:01	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/07/15 04:01	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/07/15 04:01	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/07/15 04:01	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	11/07/15 04:01	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description: Trip Blank
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C514028-06
Sampled: 10/30/15 09:22
Sampled By: ENCO

Received: 10/31/15 11:15
Work Order: C514028

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	*45*	*1*	*50.0*	*91 %*	*53-136*	*5K06038*	*EPA 8260B*	*11/07/15 04:01*	*REF*	
Dibromofluoromethane	*48*	*1*	*50.0*	*95 %*	*67-129*	*5K06038*	*EPA 8260B*	*11/07/15 04:01*	*REF*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*59-134*	*5K06038*	*EPA 8260B*	*11/07/15 04:01*	*REF*	

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Description: Trip Blank
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C514028-06
Sampled: 10/30/15 09:22
Sampled By: ENCO

Received: 10/31/15 11:15
Work Order: C514028

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	1.20	U	ug/L	1	1.20	2.00	10	EPA 8260C	11/03/15 18:06	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.24*	*1*	*5.00*	*105 %*	*79-127*	*5K03005*	*EPA 8260C*	*11/03/15 18:06*	*rgg*	

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

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Description: PW-14D
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C514125-01
Sampled: 11/03/15 15:39
Sampled By: ROBERT WELDY

Received: 11/04/15 09:30
Work Order: C514125

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	11/11/15 18:37	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	**0.53**	J	ug/L	1	0.12	1.0	1	EPA 8260B	11/11/15 18:37	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/11/15 18:37	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/11/15 18:37	MSZ	
1,1-Dichloroethane [75-34-3] ^	**4.2**	J	ug/L	1	0.13	1.0	5	EPA 8260B	11/11/15 18:37	MSZ	
1,1-Dichloroethene [75-35-4] ^	**1.0**	J	ug/L	1	0.21	1.0	5	EPA 8260B	11/11/15 18:37	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/11/15 18:37	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/11/15 18:37	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/11/15 18:37	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/11/15 18:37	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	11/11/15 18:37	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/11/15 18:37	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	11/11/15 18:37	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/11/15 18:37	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/11/15 18:37	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/11/15 18:37	MSZ	
Acetone [67-64-1] ^	**8.5**	J	ug/L	1	1.2	5.0	100	EPA 8260B	11/11/15 18:37	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/11/15 18:37	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/11/15 18:37	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/11/15 18:37	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/11/15 18:37	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/11/15 18:37	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/11/15 18:37	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/11/15 18:37	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/11/15 18:37	MSZ	
Chlorobenzene [108-90-7] ^	**4.0**		ug/L	1	0.17	1.0	3	EPA 8260B	11/11/15 18:37	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	11/11/15 18:37	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/11/15 18:37	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/11/15 18:37	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	**5.9**		ug/L	1	0.15	1.0	5	EPA 8260B	11/11/15 18:37	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/11/15 18:37	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/11/15 18:37	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/11/15 18:37	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/11/15 18:37	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/11/15 18:37	MSZ	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/11/15 18:37	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/11/15 18:37	MSZ	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	11/11/15 18:37	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/11/15 18:37	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/11/15 18:37	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/11/15 18:37	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/11/15 18:37	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/11/15 18:37	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/11/15 18:37	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/11/15 18:37	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/11/15 18:37	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/11/15 18:37	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/11/15 18:37	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	11/11/15 18:37	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description: PW-14D
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C514125-01
Sampled: 11/03/15 15:39
Sampled By: ROBERT WELDY

Received: 11/04/15 09:30
Work Order: C514125

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	*53*	*1*	*50.0*	*107 %*	*53-136*	*5K12019*	*EPA 8260B*	*11/11/15 18:37*	*MSZ*	
Dibromofluoromethane	*49*	*1*	*50.0*	*97 %*	*67-129*	*5K12019*	*EPA 8260B*	*11/11/15 18:37*	*MSZ*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*59-134*	*5K12019*	*EPA 8260B*	*11/11/15 18:37*	*MSZ*	

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Description: PW-14D
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C514125-01
Sampled: 11/03/15 15:39
Sampled By: ROBERT WELDY

Received: 11/04/15 09:30
Work Order: C514125

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**8.33**	J	ug/L	1	1.20	2.00	10	EPA 8260C	11/09/15 18:40	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.46*	*1*	*5.00*	*109 %*	*79-127*	*5K09003*	*EPA 8260C*	*11/09/15 18:40*	*rgg*	

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

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Description: PW-10D
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C514125-02
Sampled: 11/03/15 12:25
Sampled By: ROBERT WELDY

Received: 11/04/15 09:30
Work Order: C514125

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	11/11/15 06:40	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	11/11/15 06:40	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/11/15 06:40	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/11/15 06:40	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	11/11/15 06:40	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/11/15 06:40	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/11/15 06:40	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/11/15 06:40	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/11/15 06:40	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/11/15 06:40	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	11/11/15 06:40	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/11/15 06:40	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	11/11/15 06:40	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/11/15 06:40	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/11/15 06:40	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/11/15 06:40	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/11/15 06:40	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/11/15 06:40	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/11/15 06:40	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/11/15 06:40	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/11/15 06:40	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/11/15 06:40	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/11/15 06:40	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/11/15 06:40	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/11/15 06:40	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/11/15 06:40	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	11/11/15 06:40	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/11/15 06:40	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/11/15 06:40	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	11/11/15 06:40	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/11/15 06:40	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/11/15 06:40	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/11/15 06:40	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/11/15 06:40	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/11/15 06:40	MSZ	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/11/15 06:40	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/11/15 06:40	MSZ	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	11/11/15 06:40	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/11/15 06:40	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/11/15 06:40	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/11/15 06:40	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/11/15 06:40	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/11/15 06:40	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/11/15 06:40	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/11/15 06:40	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/11/15 06:40	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/11/15 06:40	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/11/15 06:40	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	11/11/15 06:40	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description: PW-10D
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C514125-02
Sampled: 11/03/15 12:25
Sampled By: ROBERT WELDY

Received: 11/04/15 09:30
Work Order: C514125

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*	*95 %*	*53-136*	*5K10025*	*EPA 8260B*	*11/11/15 06:40*	*MSZ*	
Dibromofluoromethane	*49*	*1*	*50.0*	*97 %*	*67-129*	*5K10025*	*EPA 8260B*	*11/11/15 06:40*	*MSZ*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*59-134*	*5K10025*	*EPA 8260B*	*11/11/15 06:40*	*MSZ*	

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Description: PW-10D
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C514125-02
Sampled: 11/03/15 12:25
Sampled By: ROBERT WELDY

Received: 11/04/15 09:30
Work Order: C514125

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	1.20	U	ug/L	1	1.20	2.00	10	EPA 8260C	11/09/15 19:18	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.44*	*1*	*5.00*	*89 %*	*79-127*	*5K09003*	*EPA 8260C*	*11/09/15 19:18*	*rgg*	

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 5K03030 - EPA 5030B_MS

Blank (5K03030-BLK1) Prepared: 11/03/2015 08:47 Analyzed: 11/03/2015 13:46

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							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
o-Xylene	0.065	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							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5K03030 - EPA 5030B_MS

Blank (5K03030-BLK1) Continued Prepared: 11/03/2015 08:47 Analyzed: 11/03/2015 13:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	*51*			*ug/L*	*50.0*		*103*	*53-136*			
Surrogate: Dibromofluoromethane	*55*			*ug/L*	*50.0*		*111*	*67-129*			
Surrogate: Toluene-d8	*58*			*ug/L*	*50.0*		*117*	*59-134*			

LCS (5K03030-BS1) Prepared: 11/03/2015 08:47 Analyzed: 11/03/2015 14:16

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		92	75-133			
Benzene	21		1.0	ug/L	20.0		104	81-134			
Chlorobenzene	18		1.0	ug/L	20.0		91	83-117			
Toluene	18		1.0	ug/L	20.0		90	71-118			
Trichloroethene	19		1.0	ug/L	20.0		96	74-119			
Surrogate: 4-Bromofluorobenzene	*56*			*ug/L*	*50.0*		*111*	*53-136*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*106*	*67-129*			
Surrogate: Toluene-d8	*57*			*ug/L*	*50.0*		*114*	*59-134*			

Matrix Spike (5K03030-MS1) Prepared: 11/03/2015 08:47 Analyzed: 11/03/2015 14:47

Source: C514040-05

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	0.21 U	100	75-133			
Benzene	20		1.0	ug/L	20.0	0.15 U	102	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	97	83-117			
Toluene	19		1.0	ug/L	20.0	0.14 U	95	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	106	74-119			
Surrogate: 4-Bromofluorobenzene	*57*			*ug/L*	*50.0*		*115*	*53-136*			
Surrogate: Dibromofluoromethane	*52*			*ug/L*	*50.0*		*103*	*67-129*			
Surrogate: Toluene-d8	*55*			*ug/L*	*50.0*		*110*	*59-134*			

Matrix Spike Dup (5K03030-MSD1) Prepared: 11/03/2015 08:47 Analyzed: 11/03/2015 15:16

Source: C514040-05

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	88	75-133	12	20	
Benzene	18		1.0	ug/L	20.0	0.15 U	91	81-134	12	17	
Chlorobenzene	16		1.0	ug/L	20.0	0.17 U	80	83-117	19	16	QM-07, QM-11
Toluene	16		1.0	ug/L	20.0	0.14 U	81	71-118	16	17	
Trichloroethene	17		1.0	ug/L	20.0	0.15 U	87	74-119	20	22	
Surrogate: 4-Bromofluorobenzene	*51*			*ug/L*	*50.0*		*102*	*53-136*			
Surrogate: Dibromofluoromethane	*52*			*ug/L*	*50.0*		*104*	*67-129*			
Surrogate: Toluene-d8	*55*			*ug/L*	*50.0*		*110*	*59-134*			

Batch 5K03035 - EPA 5030B_MS

Blank (5K03035-BLK1) Prepared: 11/03/2015 16:40 Analyzed: 11/04/2015 01:22

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5K03035 - EPA 5030B_MS

Blank (5K03035-BLK1) Continued Prepared: 11/03/2015 16:40 Analyzed: 11/04/2015 01:22

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							
1,2,3-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							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
o-Xylene	0.065	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							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5K03035 - EPA 5030B_MS

Blank (5K03035-BLK1) Continued Prepared: 11/03/2015 16:40 Analyzed: 11/04/2015 01:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*89*	*53-136*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*94*	*67-129*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*94*	*59-134*			

LCS (5K03035-BS1) Prepared: 11/03/2015 16:40 Analyzed: 11/04/2015 01:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	16		1.0	ug/L	20.0		79	75-133			
Benzene	20		1.0	ug/L	20.0		98	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		107	83-117			
Toluene	23		1.0	ug/L	20.0		114	71-118			
Trichloroethene	19		1.0	ug/L	20.0		95	74-119			
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*53-136*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*90*	*67-129*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*93*	*59-134*			

Matrix Spike (5K03035-MS1) Prepared: 11/03/2015 16:40 Analyzed: 11/04/2015 02:19

Source: C514040-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	16		1.0	ug/L	20.0	0.21 U	82	75-133			
Benzene	20		1.0	ug/L	20.0	0.15 U	98	81-134			
Chlorobenzene	22		1.0	ug/L	20.0	0.17 U	108	83-117			
Toluene	22		1.0	ug/L	20.0	0.14 U	112	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	100	74-119			
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*53-136*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*88*	*67-129*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*94*	*59-134*			

Matrix Spike Dup (5K03035-MSD1) Prepared: 11/03/2015 16:40 Analyzed: 11/04/2015 02:48

Source: C514040-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	16		1.0	ug/L	20.0	0.21 U	78	75-133	4	20	
Benzene	20		1.0	ug/L	20.0	0.15 U	98	81-134	0.3	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	107	83-117	0.7	16	
Toluene	22		1.0	ug/L	20.0	0.14 U	110	71-118	1	17	
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	93	74-119	7	22	
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*95*	*53-136*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*88*	*67-129*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*95*	*59-134*			

Batch 5K03036 - EPA 5030B_MS

Blank (5K03036-BLK1) Prepared: 11/03/2015 16:46 Analyzed: 11/04/2015 01:06

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5K03036 - EPA 5030B_MS

Blank (5K03036-BLK1) Continued Prepared: 11/03/2015 16:46 Analyzed: 11/04/2015 01:06

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							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
o-Xylene	0.065	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							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5K03036 - EPA 5030B_MS

Blank (5K03036-BLK1) Continued Prepared: 11/03/2015 16:46 Analyzed: 11/04/2015 01:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	*59*			*ug/L*	*50.0*		*118*	*53-136*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*99*	*67-129*			
Surrogate: Toluene-d8	*60*			*ug/L*	*50.0*		*120*	*59-134*			

LCS (5K03036-BS1) Prepared: 11/03/2015 16:46 Analyzed: 11/04/2015 01:35

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		93	75-133			
Benzene	19		1.0	ug/L	20.0		97	81-134			
Chlorobenzene	18		1.0	ug/L	20.0		91	83-117			
Toluene	17		1.0	ug/L	20.0		84	71-118			
Trichloroethene	20		1.0	ug/L	20.0		98	74-119			
Surrogate: 4-Bromofluorobenzene	*59*			*ug/L*	*50.0*		*117*	*53-136*			
Surrogate: Dibromofluoromethane	*51*			*ug/L*	*50.0*		*103*	*67-129*			
Surrogate: Toluene-d8	*55*			*ug/L*	*50.0*		*109*	*59-134*			

Matrix Spike (5K03036-MS1) Prepared: 11/03/2015 16:46 Analyzed: 11/04/2015 02:05

Source: C514040-07

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			
Benzene	18		1.0	ug/L	20.0	0.15 U	91	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	0.43	94	74-119			
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*107*	*53-136*			
Surrogate: Dibromofluoromethane	*52*			*ug/L*	*50.0*		*105*	*67-129*			
Surrogate: Toluene-d8	*54*			*ug/L*	*50.0*		*109*	*59-134*			

Matrix Spike Dup (5K03036-MSD1) Prepared: 11/03/2015 16:46 Analyzed: 11/04/2015 02:34

Source: C514040-07

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	93	75-133	1	20	
Benzene	18		1.0	ug/L	20.0	0.15 U	90	81-134	0.9	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	93	83-117	8	16	
Toluene	18		1.0	ug/L	20.0	0.14 U	91	71-118	5	17	
Trichloroethene	19		1.0	ug/L	20.0	0.43	93	74-119	1	22	
Surrogate: 4-Bromofluorobenzene	*58*			*ug/L*	*50.0*		*117*	*53-136*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*107*	*67-129*			
Surrogate: Toluene-d8	*55*			*ug/L*	*50.0*		*109*	*59-134*			

Batch 5K04034 - EPA 5030B_MS

Blank (5K04034-BLK1) Prepared: 11/04/2015 17:22 Analyzed: 11/04/2015 18:07

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5K04034 - EPA 5030B_MS

Blank (5K04034-BLK1) Continued Prepared: 11/04/2015 17:22 Analyzed: 11/04/2015 18:07

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							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
o-Xylene	0.065	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							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5K04034 - EPA 5030B_MS

Blank (5K04034-BLK1) Continued Prepared: 11/04/2015 17:22 Analyzed: 11/04/2015 18:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*89*	*53-136*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*90*	*67-129*			
Surrogate: Toluene-d8	*45*			*ug/L*	*50.0*		*91*	*59-134*			

LCS (5K04034-BS1) Prepared: 11/04/2015 17:22 Analyzed: 11/04/2015 18:35

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		76	75-133			
Benzene	18		1.0	ug/L	20.0		91	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		99	83-117			
Toluene	21		1.0	ug/L	20.0		105	71-118			
Trichloroethene	18		1.0	ug/L	20.0		90	74-119			
Surrogate: 4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*93*	*53-136*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*89*	*67-129*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*93*	*59-134*			

Matrix Spike (5K04034-MS1) Prepared: 11/04/2015 17:22 Analyzed: 11/04/2015 19:04

Source: C514140-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	13		1.0	ug/L	20.0	0.21 U	66	75-133			QM-07
Benzene	16		1.0	ug/L	20.0	0.15 U	79	81-134			QM-07
Chlorobenzene	17		1.0	ug/L	20.0	0.17 U	86	83-117			
Toluene	18		1.0	ug/L	20.0	0.14 U	90	71-118			
Trichloroethene	15		1.0	ug/L	20.0	0.15 U	76	74-119			
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*96*	*53-136*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*89*	*67-129*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*95*	*59-134*			

Matrix Spike Dup (5K04034-MSD1) Prepared: 11/04/2015 17:22 Analyzed: 11/04/2015 19:33

Source: C514140-02

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	90	75-133	31	20	QM-11
Benzene	22		1.0	ug/L	20.0	0.15 U	108	81-134	32	17	QM-11
Chlorobenzene	23		1.0	ug/L	20.0	0.17 U	115	83-117	28	16	QM-11
Toluene	24		1.0	ug/L	20.0	0.14 U	120	71-118	29	17	QM-07, QM-11
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	103	74-119	30	22	QM-11
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*53-136*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*89*	*67-129*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*94*	*59-134*			

Batch 5K05027 - EPA 5030B_MS

Blank (5K05027-BLK1) Prepared: 11/05/2015 17:48 Analyzed: 11/06/2015 01:01

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5K05027 - EPA 5030B_MS

Blank (5K05027-BLK1) Continued Prepared: 11/05/2015 17:48 Analyzed: 11/06/2015 01:01

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							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
o-Xylene	0.065	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							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5K05027 - EPA 5030B_MS

Blank (5K05027-BLK1) Continued Prepared: 11/05/2015 17:48 Analyzed: 11/06/2015 01:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*90*	*53-136*			
Surrogate: Dibromofluoromethane	*48*			*ug/L*	*50.0*		*97*	*67-129*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*94*	*59-134*			

LCS (5K05027-BS1) Prepared: 11/05/2015 17:48 Analyzed: 11/06/2015 01:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	16		1.0	ug/L	20.0		82	75-133			
Benzene	19		1.0	ug/L	20.0		97	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		106	83-117			
Toluene	22		1.0	ug/L	20.0		112	71-118			
Trichloroethene	20		1.0	ug/L	20.0		99	74-119			
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*97*	*53-136*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*67-129*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*96*	*59-134*			

Matrix Spike (5K05027-MS1) Prepared: 11/05/2015 17:48 Analyzed: 11/06/2015 01:58

Source: C512653-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	16		1.0	ug/L	20.0	0.21 U	78	75-133			
Benzene	18		1.0	ug/L	20.0	0.15 U	90	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	97	83-117			
Toluene	20		1.0	ug/L	20.0	0.14 U	101	71-118			
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	88	74-119			
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*95*	*53-136*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*87*	*67-129*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*93*	*59-134*			

Matrix Spike Dup (5K05027-MSD1) Prepared: 11/05/2015 17:48 Analyzed: 11/06/2015 02:27

Source: C512653-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	16		1.0	ug/L	20.0	0.21 U	79	75-133	2	20	
Benzene	20		1.0	ug/L	20.0	0.15 U	100	81-134	11	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	105	83-117	8	16	
Toluene	22		1.0	ug/L	20.0	0.14 U	111	71-118	10	17	
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	95	74-119	8	22	
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*96*	*53-136*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*91*	*67-129*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*96*	*59-134*			

Batch 5K06029 - EPA 5030B_MS

Blank (5K06029-BLK1) Prepared: 11/06/2015 12:49 Analyzed: 11/06/2015 13:09

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5K06029 - EPA 5030B_MS

Blank (5K06029-BLK1) Continued Prepared: 11/06/2015 12:49 Analyzed: 11/06/2015 13:09

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							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
o-Xylene	0.065	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							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5K06029 - EPA 5030B_MS

Blank (5K06029-BLK1) Continued Prepared: 11/06/2015 12:49 Analyzed: 11/06/2015 13:09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*90*	*53-136*			
Surrogate: Dibromofluoromethane	*48*			*ug/L*	*50.0*		*96*	*67-129*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*92*	*59-134*			

LCS (5K06029-BS1) Prepared: 11/06/2015 12:49 Analyzed: 11/06/2015 16:01

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		85	75-133			
Benzene	21		1.0	ug/L	20.0		104	81-134			
Chlorobenzene	22		1.0	ug/L	20.0		108	83-117			
Toluene	22		1.0	ug/L	20.0		112	71-118			
Trichloroethene	19		1.0	ug/L	20.0		97	74-119			
Surrogate: 4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*92*	*53-136*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*88*	*67-129*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*95*	*59-134*			

Matrix Spike (5K06029-MS1) Prepared: 11/06/2015 12:49 Analyzed: 11/06/2015 14:06

Source: C511919-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	16		1.0	ug/L	20.0	0.21 U	78	75-133			
Benzene	19		1.0	ug/L	20.0	0.15 U	95	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	102	83-117			
Toluene	21		1.0	ug/L	20.0	0.14 U	106	71-118			
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	90	74-119			
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*53-136*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*90*	*67-129*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*94*	*59-134*			

Matrix Spike Dup (5K06029-MSD1) Prepared: 11/06/2015 12:49 Analyzed: 11/06/2015 14:35

Source: C511919-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	16		1.0	ug/L	20.0	0.21 U	80	75-133	2	20	
Benzene	19		1.0	ug/L	20.0	0.15 U	96	81-134	1	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	103	83-117	1	16	
Toluene	22		1.0	ug/L	20.0	0.14 U	108	71-118	2	17	
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	91	74-119	1	22	
Surrogate: 4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*93*	*53-136*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*89*	*67-129*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*92*	*59-134*			

Batch 5K06038 - EPA 5030B_MS

Blank (5K06038-BLK1) Prepared: 11/06/2015 15:48 Analyzed: 11/07/2015 01:37

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5K06038 - EPA 5030B_MS

Blank (5K06038-BLK1) Continued Prepared: 11/06/2015 15:48 Analyzed: 11/07/2015 01:37

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							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
o-Xylene	0.065	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							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5K06038 - EPA 5030B_MS

Blank (5K06038-BLK1) Continued Prepared: 11/06/2015 15:48 Analyzed: 11/07/2015 01:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*91*	*53-136*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*99*	*67-129*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*94*	*59-134*			

LCS (5K06038-BS1) Prepared: 11/06/2015 15:48 Analyzed: 11/07/2015 02:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	16		1.0	ug/L	20.0		80	75-133			
Benzene	19		1.0	ug/L	20.0		96	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		103	83-117			
Toluene	21		1.0	ug/L	20.0		107	71-118			
Trichloroethene	18		1.0	ug/L	20.0		92	74-119			
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*53-136*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*89*	*67-129*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*94*	*59-134*			

Matrix Spike (5K06038-MS1) Prepared: 11/06/2015 15:48 Analyzed: 11/07/2015 02:35

Source: C513750-11

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	88	75-133			
Benzene	22		1.0	ug/L	20.0	0.15 U	110	81-134			
Chlorobenzene	23		1.0	ug/L	20.0	0.17 U	114	83-117			
Toluene	24		1.0	ug/L	20.0	0.14 U	119	71-118			QM-07
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	106	74-119			
Surrogate: 4-Bromofluorobenzene	*49*			*ug/L*	*50.0*		*99*	*53-136*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*91*	*67-129*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*100*	*59-134*			

Matrix Spike Dup (5K06038-MSD1) Prepared: 11/06/2015 15:48 Analyzed: 11/07/2015 03:04

Source: C513750-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	16		1.0	ug/L	20.0	0.21 U	82	75-133	8	20	
Benzene	20		1.0	ug/L	20.0	0.15 U	98	81-134	12	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	104	83-117	9	16	
Toluene	22		1.0	ug/L	20.0	0.14 U	108	71-118	10	17	
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	95	74-119	11	22	
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*53-136*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*90*	*67-129*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*95*	*59-134*			

Batch 5K09034 - EPA 5030B_MS

Blank (5K09034-BLK1) Prepared: 11/09/2015 14:56 Analyzed: 11/10/2015 10:42

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5K09034 - EPA 5030B_MS

Blank (5K09034-BLK1) Continued Prepared: 11/09/2015 14:56 Analyzed: 11/10/2015 10:42

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							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
o-Xylene	0.065	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							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5K09034 - EPA 5030B_MS

Blank (5K09034-BLK1) Continued Prepared: 11/09/2015 14:56 Analyzed: 11/10/2015 10:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	*49*			*ug/L*	*50.0*		*98*	*53-136*			
Surrogate: Dibromofluoromethane	*51*			*ug/L*	*50.0*		*101*	*67-129*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*101*	*59-134*			

LCS (5K09034-BS1) Prepared: 11/09/2015 14:56 Analyzed: 11/10/2015 11:11

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		83	75-133			
Benzene	20		1.0	ug/L	20.0		101	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		105	83-117			
Toluene	22		1.0	ug/L	20.0		109	71-118			
Trichloroethene	19		1.0	ug/L	20.0		96	74-119			
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*95*	*53-136*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*88*	*67-129*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*95*	*59-134*			

Matrix Spike (5K09034-MS1) Prepared: 11/09/2015 14:56 Analyzed: 11/10/2015 11:39

Source: C514418-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	16		1.0	ug/L	20.0	0.21 U	81	75-133			
Benzene	19		1.0	ug/L	20.0	0.15 U	96	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	104	83-117			
Toluene	22		1.0	ug/L	20.0	0.14 U	108	71-118			
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	92	74-119			
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*97*	*53-136*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*87*	*67-129*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*94*	*59-134*			

Matrix Spike Dup (5K09034-MSD1) Prepared: 11/09/2015 14:56 Analyzed: 11/10/2015 12:08

Source: C514418-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	16		1.0	ug/L	20.0	0.21 U	79	75-133	3	20	
Benzene	19		1.0	ug/L	20.0	0.15 U	96	81-134	0.3	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	102	83-117	1	16	
Toluene	21		1.0	ug/L	20.0	0.14 U	105	71-118	2	17	
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	93	74-119	0.8	22	
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*95*	*53-136*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*88*	*67-129*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*95*	*59-134*			

Batch 5K10025 - EPA 5030B_MS

Blank (5K10025-BLK1) Prepared: 11/10/2015 15:12 Analyzed: 11/11/2015 01:17

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5K10025 - EPA 5030B_MS

Blank (5K10025-BLK1) Continued Prepared: 11/10/2015 15:12 Analyzed: 11/11/2015 01:17

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							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
o-Xylene	0.065	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							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5K10025 - EPA 5030B_MS

Blank (5K10025-BLK1) Continued Prepared: 11/10/2015 15:12 Analyzed: 11/11/2015 01:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	*56*			*ug/L*	*50.0*		*111*	*53-136*			
Surrogate: Dibromofluoromethane	*51*			*ug/L*	*50.0*		*101*	*67-129*			
Surrogate: Toluene-d8	*56*			*ug/L*	*50.0*		*111*	*59-134*			

LCS (5K10025-BS1) Prepared: 11/10/2015 15:12 Analyzed: 11/10/2015 23:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0		121	75-133			
Benzene	20		1.0	ug/L	20.0		101	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		97	83-117			
Toluene	18		1.0	ug/L	20.0		88	71-118			
Trichloroethene	19		1.0	ug/L	20.0		95	74-119			
Surrogate: 4-Bromofluorobenzene	*59*			*ug/L*	*50.0*		*119*	*53-136*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*105*	*67-129*			
Surrogate: Toluene-d8	*52*			*ug/L*	*50.0*		*104*	*59-134*			

Matrix Spike (5K10025-MS1) Prepared: 11/10/2015 15:12 Analyzed: 11/10/2015 23:49

Source: C514418-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.21 U	113	75-133			
Benzene	22		1.0	ug/L	20.0	0.15 U	111	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	106	83-117			
Toluene	20		1.0	ug/L	20.0	0.14 U	98	71-118			
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	92	74-119			
Surrogate: 4-Bromofluorobenzene	*58*			*ug/L*	*50.0*		*116*	*53-136*			
Surrogate: Dibromofluoromethane	*59*			*ug/L*	*50.0*		*118*	*67-129*			
Surrogate: Toluene-d8	*54*			*ug/L*	*50.0*		*108*	*59-134*			

Matrix Spike Dup (5K10025-MSD1) Prepared: 11/10/2015 15:12 Analyzed: 11/11/2015 00:18

Source: C514418-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0	0.21 U	121	75-133	8	20	
Benzene	19		1.0	ug/L	20.0	0.15 U	94	81-134	16	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	98	83-117	8	16	
Toluene	18		1.0	ug/L	20.0	0.14 U	91	71-118	8	17	
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	92	74-119	0.8	22	
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*106*	*53-136*			
Surrogate: Dibromofluoromethane	*57*			*ug/L*	*50.0*		*114*	*67-129*			
Surrogate: Toluene-d8	*53*			*ug/L*	*50.0*		*107*	*59-134*			

Batch 5K12019 - EPA 5030B_MS

Blank (5K12019-BLK1) Prepared: 11/11/2015 08:37 Analyzed: 11/11/2015 12:17

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5K12019 - EPA 5030B_MS

Blank (5K12019-BLK1) Continued Prepared: 11/11/2015 08:37 Analyzed: 11/11/2015 12:17

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							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
o-Xylene	0.065	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							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5K12019 - EPA 5030B_MS

Blank (5K12019-BLK1) Continued Prepared: 11/11/2015 08:37 Analyzed: 11/11/2015 12:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*105*	*53-136*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*107*	*67-129*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*100*	*59-134*			

LCS (5K12019-BS1) Prepared: 11/11/2015 08:37 Analyzed: 11/11/2015 12:47

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		106	75-133			
Benzene	20		1.0	ug/L	20.0		99	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		96	83-117			
Toluene	18		1.0	ug/L	20.0		90	71-118			
Trichloroethene	21		1.0	ug/L	20.0		103	74-119			
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*53-136*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*106*	*67-129*			
Surrogate: Toluene-d8	*52*			*ug/L*	*50.0*		*104*	*59-134*			

Matrix Spike (5K12019-MS1) Prepared: 11/11/2015 08:37 Analyzed: 11/11/2015 13:16

Source: C514547-02

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	0.21 U	98	75-133			
Benzene	20		1.0	ug/L	20.0	0.15 U	100	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	98	83-117			
Toluene	19		1.0	ug/L	20.0	0.14 U	96	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	97	74-119			
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*106*	*53-136*			
Surrogate: Dibromofluoromethane	*51*			*ug/L*	*50.0*		*101*	*67-129*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*101*	*59-134*			

Matrix Spike Dup (5K12019-MSD1) Prepared: 11/11/2015 08:37 Analyzed: 11/11/2015 13:45

Source: C514547-02

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	93	75-133	6	20	
Benzene	18		1.0	ug/L	20.0	0.15 U	92	81-134	8	17	
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	89	83-117	10	16	
Toluene	18		1.0	ug/L	20.0	0.14 U	88	71-118	8	17	
Trichloroethene	17		1.0	ug/L	20.0	0.15 U	86	74-119	12	22	
Surrogate: 4-Bromofluorobenzene	*52*			*ug/L*	*50.0*		*103*	*53-136*			
Surrogate: Dibromofluoromethane	*52*			*ug/L*	*50.0*		*105*	*67-129*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*102*	*59-134*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS SIM Isotope Dilution - Quality Control

Batch 5K02006 - EPA 5030B_MS

QUALITY CONTROL

Volatile Organic Compounds by GCMS SIM Isotope Dilution - Quality Control

Batch 5K02006 - EPA 5030B_MS

Blank (5K02006-BLK1) Prepared: 11/02/2015 00:00 Analyzed: 11/02/2015 10:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	1.20	U	2.00	ug/L							
Surrogate: Toluene-d8	*5.52*			*ug/L*	*5.00*		*110*	*79-127*			

LCS (5K02006-BS1) Prepared: 11/02/2015 00:00 Analyzed: 11/02/2015 09:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	23.6		2.00	ug/L	25.0		94	80-133			
Surrogate: Toluene-d8	*5.66*			*ug/L*	*5.00*		*113*	*79-127*			

LCS Dup (5K02006-BSD1) Prepared: 11/02/2015 00:00 Analyzed: 11/02/2015 09:53

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	24.7		2.00	ug/L	25.0		99	80-133	4	19	
Surrogate: Toluene-d8	*5.36*			*ug/L*	*5.00*		*107*	*79-127*			

Batch 5K03005 - EPA 5030B_MS

Blank (5K03005-BLK1) Prepared: 11/03/2015 00:00 Analyzed: 11/03/2015 10:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	1.20	U	2.00	ug/L							
Surrogate: Toluene-d8	*5.53*			*ug/L*	*5.00*		*111*	*79-127*			

LCS (5K03005-BS1) Prepared: 11/03/2015 00:00 Analyzed: 11/03/2015 09:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	23.8		2.00	ug/L	25.0		95	80-133			
Surrogate: Toluene-d8	*5.35*			*ug/L*	*5.00*		*107*	*79-127*			

LCS Dup (5K03005-BSD1) Prepared: 11/03/2015 00:00 Analyzed: 11/03/2015 09:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	25.0		2.00	ug/L	25.0		100	80-133	5	19	
Surrogate: Toluene-d8	*5.51*			*ug/L*	*5.00*		*110*	*79-127*			

Batch 5K04014 - EPA 5030B_MS

Blank (5K04014-BLK1) Prepared: 11/04/2015 00:00 Analyzed: 11/04/2015 10:48

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	1.20	U	2.00	ug/L							
Surrogate: Toluene-d8	*5.37*			*ug/L*	*5.00*		*107*	*79-127*			

LCS (5K04014-BS1) Prepared: 11/04/2015 00:00 Analyzed: 11/04/2015 09:41

QUALITY CONTROL

Volatile Organic Compounds by GCMS SIM Isotope Dilution - Quality Control

Batch 5K04014 - EPA 5030B_MS

LCS (5K04014-BS1) Continued Prepared: 11/04/2015 00:00 Analyzed: 11/04/2015 09:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	23.9		2.00	ug/L	25.0		96	80-133			
Surrogate: Toluene-d8	*5.43*			*ug/L*	*5.00*		*109*	*79-127*			

LCS Dup (5K04014-BSD1) Prepared: 11/04/2015 00:00 Analyzed: 11/04/2015 10:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	24.2		2.00	ug/L	25.0		97	80-133	1	19	
Surrogate: Toluene-d8	*5.74*			*ug/L*	*5.00*		*115*	*79-127*			

Batch 5K09003 - EPA 5030B_MS

Blank (5K09003-BLK1) Prepared: 11/09/2015 00:00 Analyzed: 11/09/2015 10:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	1.20	U	2.00	ug/L							
Surrogate: Toluene-d8	*5.65*			*ug/L*	*5.00*		*113*	*79-127*			

LCS (5K09003-BS1) Prepared: 11/09/2015 00:00 Analyzed: 11/09/2015 09:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	24.0		2.00	ug/L	25.0		96	80-133			
Surrogate: Toluene-d8	*5.37*			*ug/L*	*5.00*		*107*	*79-127*			

LCS Dup (5K09003-BSD1) Prepared: 11/09/2015 00:00 Analyzed: 11/09/2015 10:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	24.1		2.00	ug/L	25.0		96	80-133	0.3	19	
Surrogate: Toluene-d8	*5.41*			*ug/L*	*5.00*		*108*	*79-127*			

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-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.
QS-03	Surrogate recovery outside acceptance limits

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

www.encolabs.com

Client Name: Babb & Associates (BA024)	Project Number: [none]
Address: 3605 Country Cove Lane	Project Name/Disc: Seaboard/Riverdale Landfill
City/ST/Zip: Raleigh, NC 27606	PO # / Billing Info
Tel: (919) 325-0696 Fax:	Reporting Contact: Gary Babb
Sampler(s) Name, Affiliation (Print): Robert Weldy	Billing Contact: Randy Smith
Sampler(s) Signature: R. Weldy	Site Location / Time Zone

Requested Analyses: 8260B 8260B Extended 8260C SIM ID

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C513825 ~~C513212~~ ray

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B 8260B Extended 8260C SIM ID	Sample Comments
	MW-1	10/26/15	1141	Grab	WA	6	X	
	MW-3C	10/27/15	1457	Grab	WA	6	X	
	~~MW-6~~				WA	6	X	
	MW-10	10/26/15	1537	Grab	WA	6	X	
	~~MW-12A~~ MW 12A	10/27/15	1120	Grab	WA	6	X	
	MW-12B	10/27/15	1105	Grab	WA	6	X	
	~~MW-12D~~				WA	6	X	
	MW-15A	10/27/15	915	Grab	WA	6	X	
	~~OW-DR2~~				WA	6	X	
	OW-LFS2	10/26/15	1535	Grab	WA	6	X	
	~~PW-3B~~				WA	6	X	
	~~PW-4I~~				WA	6	X	

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
RAY	10/15	R. Weldy	10/27/15 1830	Rachel [illegible]	10/28/15 1030
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-614 CA-1591 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

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

Client Name: Babb & Associates (BA024)	Project Number: [none]
Address: 3605 Country Cove Lane	Project Name/Desc: Seaboard/Riverdale Landfill
City/ST/Zip: Raleigh, NC 27606	PO # / Billing Info:
Tel: (919) 325-0696 Fax:	Reporting Contact: Gary Babb
Sampler(s) Name, Affiliation (Print): Robert Webb	Billing Contact: Randy Smith
Sampler(s) Signature: R Webb	Site Location / Time Zone:

Requested Analyses: 8260B, 8260B Extended, 8260C SIM ID

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C513825 ~~C513212~~

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B, 8260B Extended, 8260C SIM ID	Sample Comments
	~~PW-5D~~				WA	6	X	
	PW-6I	10/27/15	~~1027~~	Grab	WA	6	X	Time: 1653
	~~PW-6D~~				WA	6	X	
	~~PW-10I~~				WA	6	X	
	~~PW-10D~~				WA	6	X	
	~~PW-12I~~				WA	6	X	
	PW-13I	10/26/15	1701	Grab	WA	6	X	
	~~PW-14D~~				WA	6	X	
	~~PW-15D~~				WA	6	X	
	~~PW-16D~~				WA	6	X	
	PW-18	10/26/15	1330	Grab	WA	6	X	
	PW-SF1	10/27/15	1656	Grab	WA	6	X	

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: R. Webb	Date/Time: 10/27/15 1830	Received By: Rachel	Date/Time: 10/28/15 1030
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		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

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

Client Name: Babb + Associates	Project Number: NONE
Address: 3605 Country Cove Lane	Project Name/Desc: Seaboard/Riverdale Landfill
City/ST/Zip: Raleigh, NC 27606	PO # / Billing Info:
Tel: (919) 325-0696 / Fax:	Reporting Contact: Gary Babb
Sampler(s) Name, Affiliation (Print): Robert Weldy	Billing Contact: Randy Smith
Sampler(s) Signature: R. Weldy	Site Location / Time Zone:

Requested Analyses: 8260B, 8260B Extended, 8260C SIM ID

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C513825

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B, 8260B Extended, 8260C SIM ID	Sample Comments
	W4-A	10/27/15	945	Grab	WA	6	X	

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: R. Weldy	Date/Time: 10/27/15 1830	Received By: Rachel	Date/Time: 10/27/15 1830
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		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

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(919) 467-3090 Fax (919) 467-3515

Client Name: Babb + Associates (BA024)	Project Number: (NONE)
Address: 3605 Country Cove Lane	Project Name/Desc: Seaboard/Riverdale Landfill
City/ST/Zip: Raleigh, NC 27606	PO # / Billing Info:
Tel: 919-325-0696 Fax:	Reporting Contact: Gary Babb
Sampler(s) Name, Affiliation (Print): Robert Weldy	Billing Contact: Randy Smith
Sampler(s) Signature: R. Weldy	Site Location / Time Zone:

Requested Analyses: 8260B, 8260B Extended, 8260C SIM ID

Requested Turnaround Times
Note : Rush requests subject to acceptance by the facility
X Standard
___ Expedited
Due __/__/__

Lab Workorder: CS13878

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B, 8260B Extended, 8260C SIM ID	Sample Comments
	PW-15-D	10/28/15	1358	Grab	WA	6	X	
	PW-16D	↓	1144	↓	↓	↓	X	
	PW-3D	10/29/15	1515	Grab	↓	↓	X	
	PW 4I	↓	1601	↓	↓	↓	X	
	PW-10I	↓	1356	↓	↓	↓	X	
	MW-12D	↓	0940	↓	↓	↓	X	
	Trip Blank					4	X	

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		R. Weldy	10/29/15 1750	[signature]	10-30-15 0900
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 0.9c		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

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: Babb + Associates (BA024)	Project Number: (None)
Address: 3605 Country Cove Lane	Project Name/Desc: Seaboard/Riverdale Landfill
City/ST/Zip: Raleigh, NC 27606	PO # / Billing Info:
Tel: (919) 325-0696 / Fax:	Reporting Contact: Gary Babb
Sampler(s) Name, Affiliation (Print): Robert Weldy	Billing Contact: Randy Smith
Sampler(s) Signature: R. Weldy	Site Location / Time Zone:

Requested Analyses: 8260B, 8260B Extended, 8260C SIM ID

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C513514028

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B, 8260B Extended, 8260C SIM ID	Sample Comments
	MW-6	10/30/15	922	Grab	WA	6	X	
	OW DR-2	↓	1437	↓	↓	↓	X	
	PW-5D		1015				X	
	PW-6D		1250				X	
	PW-12I		1156				X	

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: R. Weldy	Date/Time: 10/30/15 1628	Received By: Rachel [illegible]	Date/Time: 10/31/15 11:15
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 2.8°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

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

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Client Name: Babb + Assocites	Project Number: NONE
Address: 3605 Country Cove lane	Project Name/Desc: Seaboard/Riverdale Landfill
City/ST/Zip: Raleigh, NC	PO # / Billing Info:
Tel: (919) 325-0696 Fax:	Reporting Contact: Gary Babb
Sampler(s) Name, Affiliation (Print): Robert Webb	Billing Contact: Randy Smith
Sampler(s) Signature: R. Webb	Site Location / Time Zone:

Requested Analyses: 8260B, 8260B Extended, 8260C SIM ID

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: CS14125

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B, 8260B Extended, 8260C SIM ID	Sample Comments
	PW-14d	11/3/15	1539	Grab	WA	6	X	
	PW-10d	11/3/15	1225	Grab	WA	6	X	

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		R. Webb	11/3/15 1756	[signature]	11-4-15 0930
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 3.3c		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

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

Tuesday, November 3, 2015

Babb & Associates (BA024)

Attn: Gary Babb

3605 Country Cove Lane

Raleigh, NC 27606

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: Seaboard/Riverdale Landfill
ENCO Workorder(s): C513212

Dear Gary Babb,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, October 23, 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,

Bill Scott

Bill Scott

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 47.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: SW-3 | **Lab ID: C513212-01** | **Sampled: 10/22/15 14:00** | **Received: 10/23/15 09:10**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/05/15	11/01/15 12:17	11/1/2015 23:59
EPA 8260C	11/05/15	10/28/15 00:00	10/28/2015 11:42

Client ID: SW-4 | **Lab ID: C513212-02** | **Sampled: 10/22/15 10:35** | **Received: 10/23/15 09:10**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/05/15	11/01/15 12:17	11/2/2015 00:28

Client ID: SW-4 | **Lab ID: C513212-02RE1** | **Sampled: 10/22/15 10:35** | **Received: 10/23/15 09:10**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260C	11/05/15	10/29/15 00:00	10/29/2015 12:22

Client ID: SW-5 | **Lab ID: C513212-03** | **Sampled: 10/22/15 13:30** | **Received: 10/23/15 09:10**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/05/15	11/02/15 12:57	11/2/2015 14:18
EPA 8260C	11/05/15	10/28/15 00:00	10/28/2015 12:53

Client ID: SW-6 Surface | **Lab ID: C513212-04** | **Sampled: 10/22/15 16:29** | **Received: 10/23/15 09:10**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/05/15	11/02/15 12:57	11/2/2015 14:47
EPA 8260C	11/05/15	10/28/15 00:00	10/28/2015 13:30

Client ID: SW-6 Bottom | **Lab ID: C513212-05** | **Sampled: 10/22/15 16:12** | **Received: 10/23/15 09:10**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/05/15	11/02/15 12:57	11/2/2015 15:15

Client ID: SW-6 Bottom | **Lab ID: C513212-05RE1** | **Sampled: 10/22/15 16:12** | **Received: 10/23/15 09:10**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260C	11/05/15	10/29/15 00:00	10/29/2015 12:57

Client ID: SW-7 Surface | **Lab ID: C513212-06** | **Sampled: 10/22/15 14:28** | **Received: 10/23/15 09:10**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/05/15	11/02/15 12:57	11/2/2015 15:44

Client ID:	SW-7 Surface	Lab ID: C513212-06RE1	Sampled: 10/22/15 14:28	Received: 10/23/15 09:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260C	11/05/15	10/29/15 00:00	10/29/2015 13:35

Client ID:	SW-7 Bottom	Lab ID: C513212-07	Sampled: 10/22/15 14:36	Received: 10/23/15 09:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/05/15	11/02/15 12:57	11/2/2015 16:13
EPA 8260C	11/05/15	10/28/15 00:00	10/28/2015 15:23

Client ID:	SW-DRP2 Surface	Lab ID: C513212-08	Sampled: 10/22/15 11:05	Received: 10/23/15 09:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/05/15	11/02/15 12:57	11/2/2015 16:42

Client ID:	SW-DRP2 Surface	Lab ID: C513212-08RE1	Sampled: 10/22/15 11:05	Received: 10/23/15 09:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260C	11/05/15	10/29/15 00:00	10/29/2015 14:12

Client ID:	SW-DRP2 Bottom	Lab ID: C513212-09	Sampled: 10/22/15 11:11	Received: 10/23/15 09:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/05/15	11/02/15 12:57	11/2/2015 17:10
EPA 8260C	11/05/15	10/28/15 00:00	10/28/2015 16:36

Client ID:	SW-DRP11 Surface	Lab ID: C513212-10	Sampled: 10/22/15 12:21	Received: 10/23/15 09:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/05/15	11/02/15 12:57	11/2/2015 17:39
EPA 8260C	11/05/15	10/28/15 00:00	10/28/2015 17:12

Client ID:	SW-DRP11 Bottom	Lab ID: C513212-11	Sampled: 10/22/15 12:03	Received: 10/23/15 09:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/05/15	11/02/15 12:57	11/2/2015 18:08
EPA 8260C	11/05/15	10/28/15 00:00	10/28/2015 17:49

Client ID:	Trip Blank	Lab ID: C513212-12	Sampled: 10/22/15 10:35	Received: 10/23/15 09:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	11/05/15	11/02/15 12:57	11/2/2015 13:20
EPA 8260C	11/05/15	10/28/15 00:00	10/28/2015 11:08

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: SW-3 **Lab ID: C513212-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1,1-Trichloroethane	27		1	0.12	1.0	1	ug/L	EPA 8260B	
1,1-Dichloroethane	81		1	0.13	1.0	5	ug/L	EPA 8260B	
1,1-Dichloroethene	37		1	0.21	1.0	5	ug/L	EPA 8260B	
1,2-Dichloroethane	2.7		1	0.21	1.0	1	ug/L	EPA 8260B	
1,4-Dioxane	104	D	5	6.00	10.0	10	ug/L	EPA 8260C	
Benzene	0.88	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Chloroethane	24		1	0.23	1.0	10	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	140		1	0.15	1.0	5	ug/L	EPA 8260B	
Methylene chloride	81		1	0.23	1.0	1	ug/L	EPA 8260B	
Tetrachloroethene	4.8		1	0.17	1.0	1	ug/L	EPA 8260B	
trans-1,2-Dichloroethene	0.87	J	1	0.21	1.0	5	ug/L	EPA 8260B	
Trichloroethene	19		1	0.15	1.0	1	ug/L	EPA 8260B	
Vinyl chloride	28		1	0.32	1.0	1	ug/L	EPA 8260B	

Client ID: SW-4 **Lab ID: C513212-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chlorobenzene	0.82	J	1	0.17	1.0	3	ug/L	EPA 8260B	

Client ID: SW-4 **Lab ID: C513212-02RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dioxane	4.10	J	1	1.20	2.00	10	ug/L	EPA 8260C	

Client ID: SW-5 **Lab ID: C513212-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dioxane	1.80	J	1	1.20	2.00	10	ug/L	EPA 8260C	

Client ID: SW-7 Surface **Lab ID: C513212-06RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dioxane	1.43	J	1	1.20	2.00	10	ug/L	EPA 8260C	

Client ID: SW-7 Bottom **Lab ID: C513212-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dioxane	1.60	J	1	1.20	2.00	10	ug/L	EPA 8260C	

Client ID: SW-DRP2 Surface **Lab ID: C513212-08RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dioxane	3.02	J	1	1.20	2.00	10	ug/L	EPA 8260C	

Client ID: SW-DRP2 Bottom **Lab ID: C513212-09**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dioxane	3.11	J	1	1.20	2.00	10	ug/L	EPA 8260C	
Chlorobenzene	0.47	J	1	0.17	1.0	3	ug/L	EPA 8260B	

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ANALYTICAL RESULTS

Description: SW-3 **Lab Sample ID:** C513212-01 **Received:** 10/23/15 09:10

Matrix: Water **Sampled:** 10/22/15 14:00 **Work Order:** C513212

Project: Seaboard/Riverdale Landfill **Sampled By:** ROBERT WELDY

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	11/01/15 23:59	REF	
1,1,1-Trichloroethane [71-55-6] ^	**27**		ug/L	1	0.12	1.0	1	EPA 8260B	11/01/15 23:59	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/01/15 23:59	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/01/15 23:59	REF	
1,1-Dichloroethane [75-34-3] ^	**81**		ug/L	1	0.13	1.0	5	EPA 8260B	11/01/15 23:59	REF	
1,1-Dichloroethene [75-35-4] ^	**37**		ug/L	1	0.21	1.0	5	EPA 8260B	11/01/15 23:59	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/01/15 23:59	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/01/15 23:59	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/01/15 23:59	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/01/15 23:59	REF	
1,2-Dichloroethane [107-06-2] ^	**2.7**		ug/L	1	0.21	1.0	1	EPA 8260B	11/01/15 23:59	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/01/15 23:59	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	11/01/15 23:59	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/01/15 23:59	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/01/15 23:59	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/01/15 23:59	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/01/15 23:59	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/01/15 23:59	REF	
Benzene [71-43-2] ^	**0.88**	J	ug/L	1	0.15	1.0	1	EPA 8260B	11/01/15 23:59	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/01/15 23:59	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/01/15 23:59	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/01/15 23:59	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/01/15 23:59	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/01/15 23:59	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/01/15 23:59	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/01/15 23:59	REF	
Chloroethane [75-00-3] ^	**24**		ug/L	1	0.23	1.0	10	EPA 8260B	11/01/15 23:59	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/01/15 23:59	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/01/15 23:59	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**140**		ug/L	1	0.15	1.0	5	EPA 8260B	11/01/15 23:59	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/01/15 23:59	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/01/15 23:59	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/01/15 23:59	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/01/15 23:59	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/01/15 23:59	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/01/15 23:59	REF	
Methylene chloride [75-09-2] ^	**81**		ug/L	1	0.23	1.0	1	EPA 8260B	11/01/15 23:59	REF	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	11/01/15 23:59	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/01/15 23:59	REF	
Tetrachloroethene [127-18-4] ^	**4.8**		ug/L	1	0.17	1.0	1	EPA 8260B	11/01/15 23:59	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/01/15 23:59	REF	
trans-1,2-Dichloroethene [156-60-5] ^	**0.87**	J	ug/L	1	0.21	1.0	5	EPA 8260B	11/01/15 23:59	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/01/15 23:59	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/01/15 23:59	REF	
Trichloroethene [79-01-6] ^	**19**		ug/L	1	0.15	1.0	1	EPA 8260B	11/01/15 23:59	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/01/15 23:59	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/01/15 23:59	REF	
Vinyl chloride [75-01-4] ^	**28**		ug/L	1	0.32	1.0	1	EPA 8260B	11/01/15 23:59	REF	

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Description: SW-3 | **Lab Sample ID:** C513212-01 | **Received:** 10/23/15 09:10

Matrix: Water | **Sampled:** 10/22/15 14:00 | **Work Order:** C513212

Project: Seaboard/Riverdale Landfill | **Sampled By:** ROBERT WELDY

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
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	11/01/15 23:59	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*97 %*	*53-136*	*5K01001*	*EPA 8260B*	*11/01/15 23:59*	*REF*	
Dibromofluoromethane	*46*	*1*	*50.0*	*93 %*	*67-129*	*5K01001*	*EPA 8260B*	*11/01/15 23:59*	*REF*	
Toluene-d8	*42*	*1*	*50.0*	*85 %*	*59-134*	*5K01001*	*EPA 8260B*	*11/01/15 23:59*	*REF*	

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Description:	SW-3	**Lab Sample ID:**	C513212-01	**Received:**	10/23/15 09:10
Matrix:	Water	**Sampled:**	10/22/15 14:00	**Work Order:**	C513212
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**104**	D	ug/L	5	6.00	10.0	10	EPA 8260C	10/28/15 11:42	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.30*	*1*	*5.00*	*106 %*	*79-127*	*5J28009*	*EPA 8260C*	*10/28/15 11:42*	*rgg*	

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

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Description: SW-4 | **Lab Sample ID:** C513212-02 | **Received:** 10/23/15 09:10

Matrix: Water | **Sampled:** 10/22/15 10:35 | **Work Order:** C513212

Project: Seaboard/Riverdale Landfill | **Sampled By:** ROBERT WELDY

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	11/02/15 00:28	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	11/02/15 00:28	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/02/15 00:28	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/02/15 00:28	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	11/02/15 00:28	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/02/15 00:28	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/02/15 00:28	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/02/15 00:28	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/02/15 00:28	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/02/15 00:28	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	11/02/15 00:28	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/02/15 00:28	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	11/02/15 00:28	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/02/15 00:28	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/02/15 00:28	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/02/15 00:28	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/02/15 00:28	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/02/15 00:28	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 00:28	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/02/15 00:28	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 00:28	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/02/15 00:28	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/02/15 00:28	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/02/15 00:28	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 00:28	REF	
Chlorobenzene [108-90-7] ^	**0.82**	J	ug/L	1	0.17	1.0	3	EPA 8260B	11/02/15 00:28	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	11/02/15 00:28	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/02/15 00:28	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/02/15 00:28	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	11/02/15 00:28	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/15 00:28	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/02/15 00:28	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/02/15 00:28	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/02/15 00:28	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/02/15 00:28	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/02/15 00:28	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/02/15 00:28	REF	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	11/02/15 00:28	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/02/15 00:28	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 00:28	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/02/15 00:28	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/02/15 00:28	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 00:28	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/02/15 00:28	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 00:28	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/02/15 00:28	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/02/15 00:28	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/02/15 00:28	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	11/02/15 00:28	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	SW-4	**Lab Sample ID:**	C513212-02	**Received:**	10/23/15 09:10
Matrix:	Water	**Sampled:**	10/22/15 10:35	**Work Order:**	C513212
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

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	*50*	*1*	*50.0*	*100 %*	*53-136*	*5K01001*	*EPA 8260B*	*11/02/15 00:28*	*REF*	
Dibromofluoromethane	*51*	*1*	*50.0*	*102 %*	*67-129*	*5K01001*	*EPA 8260B*	*11/02/15 00:28*	*REF*	
Toluene-d8	*43*	*1*	*50.0*	*87 %*	*59-134*	*5K01001*	*EPA 8260B*	*11/02/15 00:28*	*REF*	

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Description:	SW-4	**Lab Sample ID:**	C513212-02	**Received:**	10/23/15 09:10
Matrix:	Water	**Sampled:**	10/22/15 10:35	**Work Order:**	C513212
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**4.10**	J	ug/L	1	1.20	2.00	10	EPA 8260C	10/29/15 12:22	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.14*	*1*	*5.00*	*103 %*	*79-127*	*5J29008*	*EPA 8260C*	*10/29/15 12:22*	*rgg*	

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

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Description: SW-5 | **Lab Sample ID:** C513212-03 | **Received:** 10/23/15 09:10

Matrix: Water | **Sampled:** 10/22/15 13:30 | **Work Order:** C513212

Project: Seaboard/Riverdale Landfill | **Sampled By:** ROBERT WELDY

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	11/02/15 14:18	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	11/02/15 14:18	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/02/15 14:18	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/02/15 14:18	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	11/02/15 14:18	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/02/15 14:18	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/02/15 14:18	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/02/15 14:18	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/02/15 14:18	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/02/15 14:18	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	11/02/15 14:18	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/02/15 14:18	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	11/02/15 14:18	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/02/15 14:18	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/02/15 14:18	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/02/15 14:18	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/02/15 14:18	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/02/15 14:18	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 14:18	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/02/15 14:18	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 14:18	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/02/15 14:18	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/02/15 14:18	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/02/15 14:18	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 14:18	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/02/15 14:18	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	11/02/15 14:18	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/02/15 14:18	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/02/15 14:18	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	11/02/15 14:18	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/15 14:18	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/02/15 14:18	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/02/15 14:18	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/02/15 14:18	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/02/15 14:18	MSZ	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/02/15 14:18	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/02/15 14:18	MSZ	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	11/02/15 14:18	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/02/15 14:18	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 14:18	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/02/15 14:18	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/02/15 14:18	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 14:18	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/02/15 14:18	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 14:18	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/02/15 14:18	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/02/15 14:18	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/02/15 14:18	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	11/02/15 14:18	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	SW-5	**Lab Sample ID:**	C513212-03	**Received:**	10/23/15 09:10
Matrix:	Water	**Sampled:**	10/22/15 13:30	**Work Order:**	C513212
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

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	*49*	*1*	*50.0*	*99 %*	*53-136*	*5K02022*	*EPA 8260B*	*11/02/15 14:18*	*MSZ*	
Dibromofluoromethane	*47*	*1*	*50.0*	*95 %*	*67-129*	*5K02022*	*EPA 8260B*	*11/02/15 14:18*	*MSZ*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*59-134*	*5K02022*	*EPA 8260B*	*11/02/15 14:18*	*MSZ*	

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Description:	SW-5	**Lab Sample ID:**	C513212-03	**Received:**	10/23/15 09:10
Matrix:	Water	**Sampled:**	10/22/15 13:30	**Work Order:**	C513212
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**1.80**	J	ug/L	1	1.20	2.00	10	EPA 8260C	10/28/15 12:53	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.43*	*1*	*5.00*	*109 %*	*79-127*	*5J28009*	*EPA 8260C*	*10/28/15 12:53*	*rgg*	

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

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Description: SW-6 Surface
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513212-04
Sampled: 10/22/15 16:29
Sampled By: ROBERT WELDY

Received: 10/23/15 09:10
Work Order: C513212

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	11/02/15 14:47	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	11/02/15 14:47	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/02/15 14:47	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/02/15 14:47	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	11/02/15 14:47	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/02/15 14:47	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/02/15 14:47	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/02/15 14:47	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/02/15 14:47	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/02/15 14:47	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	11/02/15 14:47	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/02/15 14:47	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	11/02/15 14:47	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/02/15 14:47	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/02/15 14:47	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/02/15 14:47	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/02/15 14:47	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/02/15 14:47	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 14:47	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/02/15 14:47	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 14:47	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/02/15 14:47	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/02/15 14:47	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/02/15 14:47	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 14:47	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/02/15 14:47	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	11/02/15 14:47	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/02/15 14:47	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/02/15 14:47	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	11/02/15 14:47	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/15 14:47	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/02/15 14:47	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/02/15 14:47	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/02/15 14:47	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/02/15 14:47	MSZ	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/02/15 14:47	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/02/15 14:47	MSZ	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	11/02/15 14:47	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/02/15 14:47	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 14:47	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/02/15 14:47	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/02/15 14:47	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 14:47	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/02/15 14:47	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 14:47	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/02/15 14:47	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/02/15 14:47	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/02/15 14:47	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	11/02/15 14:47	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	SW-6 Surface	**Lab Sample ID:**	C513212-04	**Received:**	10/23/15 09:10
Matrix:	Water	**Sampled:**	10/22/15 16:29	**Work Order:**	C513212
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

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*	*95 %*	*53-136*	*5K02022*	*EPA 8260B*	*11/02/15 14:47*	*MSZ*	
Dibromofluoromethane	*49*	*1*	*50.0*	*98 %*	*67-129*	*5K02022*	*EPA 8260B*	*11/02/15 14:47*	*MSZ*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*59-134*	*5K02022*	*EPA 8260B*	*11/02/15 14:47*	*MSZ*	

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Description: SW-6 Surface
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513212-04
Sampled: 10/22/15 16:29
Sampled By: ROBERT WELDY

Received: 10/23/15 09:10
Work Order: C513212

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	1.20	U	ug/L	1	1.20	2.00	10	EPA 8260C	10/28/15 13:30	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.01*	*1*	*5.00*	*100 %*	*79-127*	*5J28009*	*EPA 8260C*	*10/28/15 13:30*	*rgg*	

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

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Description: SW-6 Bottom
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513212-05
Sampled: 10/22/15 16:12
Sampled By: ROBERT WELDY

Received: 10/23/15 09:10
Work Order: C513212

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	11/02/15 15:15	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	11/02/15 15:15	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/02/15 15:15	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/02/15 15:15	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	11/02/15 15:15	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/02/15 15:15	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/02/15 15:15	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/02/15 15:15	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/02/15 15:15	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/02/15 15:15	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	11/02/15 15:15	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/02/15 15:15	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	11/02/15 15:15	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/02/15 15:15	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/02/15 15:15	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/02/15 15:15	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/02/15 15:15	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/02/15 15:15	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 15:15	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/02/15 15:15	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 15:15	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/02/15 15:15	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/02/15 15:15	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/02/15 15:15	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 15:15	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/02/15 15:15	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	11/02/15 15:15	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/02/15 15:15	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/02/15 15:15	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	11/02/15 15:15	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/15 15:15	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/02/15 15:15	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/02/15 15:15	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/02/15 15:15	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/02/15 15:15	MSZ	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/02/15 15:15	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/02/15 15:15	MSZ	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	11/02/15 15:15	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/02/15 15:15	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 15:15	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/02/15 15:15	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/02/15 15:15	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 15:15	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/02/15 15:15	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 15:15	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/02/15 15:15	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/02/15 15:15	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/02/15 15:15	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	11/02/15 15:15	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	SW-6 Bottom	**Lab Sample ID:**	C513212-05	**Received:**	10/23/15 09:10
Matrix:	Water	**Sampled:**	10/22/15 16:12	**Work Order:**	C513212
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

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	*50*	*1*	*50.0*	*100 %*	*53-136*	*5K02022*	*EPA 8260B*	*11/02/15 15:15*	*MSZ*	
Dibromofluoromethane	*49*	*1*	*50.0*	*98 %*	*67-129*	*5K02022*	*EPA 8260B*	*11/02/15 15:15*	*MSZ*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*59-134*	*5K02022*	*EPA 8260B*	*11/02/15 15:15*	*MSZ*	

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Description:	SW-6 Bottom	**Lab Sample ID:**	C513212-05	**Received:**	10/23/15 09:10
Matrix:	Water	**Sampled:**	10/22/15 16:12	**Work Order:**	C513212
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	1.20	U	ug/L	1	1.20	2.00	10	EPA 8260C	10/29/15 12:57	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.31*	*1*	*5.00*	*106 %*	*79-127*	*5J29008*	*EPA 8260C*	*10/29/15 12:57*	*rgg*	

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

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Description: SW-7 Surface
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513212-06
Sampled: 10/22/15 14:28
Sampled By: ROBERT WELDY

Received: 10/23/15 09:10
Work Order: C513212

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	11/02/15 15:44	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	11/02/15 15:44	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/02/15 15:44	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/02/15 15:44	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	11/02/15 15:44	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/02/15 15:44	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/02/15 15:44	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/02/15 15:44	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/02/15 15:44	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/02/15 15:44	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	11/02/15 15:44	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/02/15 15:44	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	11/02/15 15:44	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/02/15 15:44	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/02/15 15:44	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/02/15 15:44	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/02/15 15:44	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/02/15 15:44	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 15:44	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/02/15 15:44	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 15:44	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/02/15 15:44	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/02/15 15:44	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/02/15 15:44	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 15:44	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/02/15 15:44	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	11/02/15 15:44	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/02/15 15:44	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/02/15 15:44	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	11/02/15 15:44	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/15 15:44	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/02/15 15:44	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/02/15 15:44	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/02/15 15:44	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/02/15 15:44	MSZ	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/02/15 15:44	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/02/15 15:44	MSZ	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	11/02/15 15:44	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/02/15 15:44	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 15:44	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/02/15 15:44	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/02/15 15:44	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 15:44	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/02/15 15:44	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 15:44	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/02/15 15:44	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/02/15 15:44	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/02/15 15:44	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	11/02/15 15:44	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	SW-7 Surface	**Lab Sample ID:**	C513212-06	**Received:**	10/23/15 09:10
Matrix:	Water	**Sampled:**	10/22/15 14:28	**Work Order:**	C513212
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

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*	*97 %*	*53-136*	*5K02022*	*EPA 8260B*	*11/02/15 15:44*	*MSZ*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*67-129*	*5K02022*	*EPA 8260B*	*11/02/15 15:44*	*MSZ*	
Toluene-d8	*43*	*1*	*50.0*	*85 %*	*59-134*	*5K02022*	*EPA 8260B*	*11/02/15 15:44*	*MSZ*	

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Description:	SW-7 Surface	**Lab Sample ID:**	C513212-06	**Received:**	10/23/15 09:10
Matrix:	Water	**Sampled:**	10/22/15 14:28	**Work Order:**	C513212
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**1.43**	J	ug/L	1	1.20	2.00	10	EPA 8260C	10/29/15 13:35	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.43*	*1*	*5.00*	*109 %*	*79-127*	*5J29008*	*EPA 8260C*	*10/29/15 13:35*	*rgg*	

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

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Description: SW-7 Bottom
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513212-07
Sampled: 10/22/15 14:36
Sampled By: ROBERT WELDY

Received: 10/23/15 09:10
Work Order: C513212

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	11/02/15 16:13	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	11/02/15 16:13	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/02/15 16:13	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/02/15 16:13	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	11/02/15 16:13	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/02/15 16:13	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/02/15 16:13	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/02/15 16:13	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/02/15 16:13	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/02/15 16:13	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	11/02/15 16:13	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/02/15 16:13	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	11/02/15 16:13	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/02/15 16:13	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/02/15 16:13	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/02/15 16:13	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/02/15 16:13	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/02/15 16:13	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 16:13	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/02/15 16:13	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 16:13	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/02/15 16:13	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/02/15 16:13	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/02/15 16:13	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 16:13	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/02/15 16:13	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	11/02/15 16:13	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/02/15 16:13	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/02/15 16:13	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	11/02/15 16:13	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/15 16:13	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/02/15 16:13	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/02/15 16:13	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/02/15 16:13	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/02/15 16:13	MSZ	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/02/15 16:13	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/02/15 16:13	MSZ	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	11/02/15 16:13	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/02/15 16:13	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 16:13	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/02/15 16:13	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/02/15 16:13	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 16:13	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/02/15 16:13	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 16:13	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/02/15 16:13	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/02/15 16:13	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/02/15 16:13	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	11/02/15 16:13	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	SW-7 Bottom	**Lab Sample ID:**	C513212-07	**Received:**	10/23/15 09:10
Matrix:	Water	**Sampled:**	10/22/15 14:36	**Work Order:**	C513212
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

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	*50*	*1*	*50.0*	*101 %*	*53-136*	*5K02022*	*EPA 8260B*	*11/02/15 16:13*	*MSZ*	
Dibromofluoromethane	*49*	*1*	*50.0*	*99 %*	*67-129*	*5K02022*	*EPA 8260B*	*11/02/15 16:13*	*MSZ*	
Toluene-d8	*42*	*1*	*50.0*	*85 %*	*59-134*	*5K02022*	*EPA 8260B*	*11/02/15 16:13*	*MSZ*	

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Description:	SW-7 Bottom	**Lab Sample ID:**	C513212-07	**Received:**	10/23/15 09:10
Matrix:	Water	**Sampled:**	10/22/15 14:36	**Work Order:**	C513212
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**1.60**	J	ug/L	1	1.20	2.00	10	EPA 8260C	10/28/15 15:23	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.56*	*1*	*5.00*	*91 %*	*79-127*	*5J28009*	*EPA 8260C*	*10/28/15 15:23*	*rgg*	

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Description: SW-DRP2 Surface
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513212-08
Sampled: 10/22/15 11:05
Sampled By: ROBERT WELDY

Received: 10/23/15 09:10
Work Order: C513212

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	11/02/15 16:42	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	11/02/15 16:42	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/02/15 16:42	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/02/15 16:42	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	11/02/15 16:42	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/02/15 16:42	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/02/15 16:42	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/02/15 16:42	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/02/15 16:42	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/02/15 16:42	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	11/02/15 16:42	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/02/15 16:42	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	11/02/15 16:42	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/02/15 16:42	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/02/15 16:42	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/02/15 16:42	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/02/15 16:42	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/02/15 16:42	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 16:42	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/02/15 16:42	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 16:42	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/02/15 16:42	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/02/15 16:42	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/02/15 16:42	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 16:42	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/02/15 16:42	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	11/02/15 16:42	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/02/15 16:42	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/02/15 16:42	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	11/02/15 16:42	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/15 16:42	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/02/15 16:42	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/02/15 16:42	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/02/15 16:42	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/02/15 16:42	MSZ	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/02/15 16:42	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/02/15 16:42	MSZ	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	11/02/15 16:42	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/02/15 16:42	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 16:42	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/02/15 16:42	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/02/15 16:42	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 16:42	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/02/15 16:42	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 16:42	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/02/15 16:42	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/02/15 16:42	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/02/15 16:42	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	11/02/15 16:42	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	SW-DRP2 Surface	**Lab Sample ID:**	C513212-08	**Received:**	10/23/15 09:10
Matrix:	Water	**Sampled:**	10/22/15 11:05	**Work Order:**	C513212
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

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	*50*	*1*	*50.0*	*101 %*	*53-136*	*5K02022*	*EPA 8260B*	*11/02/15 16:42*	*MSZ*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*67-129*	*5K02022*	*EPA 8260B*	*11/02/15 16:42*	*MSZ*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*59-134*	*5K02022*	*EPA 8260B*	*11/02/15 16:42*	*MSZ*	

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Description:	SW-DRP2 Surface	**Lab Sample ID:**	C513212-08	**Received:**	10/23/15 09:10
Matrix:	Water	**Sampled:**	10/22/15 11:05	**Work Order:**	C513212
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**3.02**	J	ug/L	1	1.20	2.00	10	EPA 8260C	10/29/15 14:12	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.71*	*1*	*5.00*	*114 %*	*79-127*	*5J29008*	*EPA 8260C*	*10/29/15 14:12*	*rgg*	

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

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Description: SW-DRP2 Bottom
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513212-09
Sampled: 10/22/15 11:11
Sampled By: ROBERT WELDY

Received: 10/23/15 09:10
Work Order: C513212

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	11/02/15 17:10	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	11/02/15 17:10	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/02/15 17:10	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/02/15 17:10	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	11/02/15 17:10	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/02/15 17:10	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/02/15 17:10	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/02/15 17:10	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/02/15 17:10	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/02/15 17:10	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	11/02/15 17:10	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/02/15 17:10	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	11/02/15 17:10	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/02/15 17:10	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/02/15 17:10	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/02/15 17:10	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/02/15 17:10	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/02/15 17:10	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 17:10	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/02/15 17:10	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 17:10	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/02/15 17:10	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/02/15 17:10	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/02/15 17:10	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 17:10	MSZ	
Chlorobenzene [108-90-7] ^	**0.47**	J	ug/L	1	0.17	1.0	3	EPA 8260B	11/02/15 17:10	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	11/02/15 17:10	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/02/15 17:10	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/02/15 17:10	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	11/02/15 17:10	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/15 17:10	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/02/15 17:10	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/02/15 17:10	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/02/15 17:10	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/02/15 17:10	MSZ	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/02/15 17:10	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/02/15 17:10	MSZ	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	11/02/15 17:10	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/02/15 17:10	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 17:10	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/02/15 17:10	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/02/15 17:10	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 17:10	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/02/15 17:10	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 17:10	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/02/15 17:10	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/02/15 17:10	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/02/15 17:10	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	11/02/15 17:10	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	SW-DRP2 Bottom	**Lab Sample ID:**	C513212-09	**Received:**	10/23/15 09:10
Matrix:	Water	**Sampled:**	10/22/15 11:11	**Work Order:**	C513212
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

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	*50*	*1*	*50.0*	*99 %*	*53-136*	*5K02022*	*EPA 8260B*	*11/02/15 17:10*	*MSZ*	
Dibromofluoromethane	*49*	*1*	*50.0*	*98 %*	*67-129*	*5K02022*	*EPA 8260B*	*11/02/15 17:10*	*MSZ*	
Toluene-d8	*43*	*1*	*50.0*	*85 %*	*59-134*	*5K02022*	*EPA 8260B*	*11/02/15 17:10*	*MSZ*	

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Description:	SW-DRP2 Bottom	**Lab Sample ID:**	C513212-09	**Received:**	10/23/15 09:10
Matrix:	Water	**Sampled:**	10/22/15 11:11	**Work Order:**	C513212
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	**3.11**	J	ug/L	1	1.20	2.00	10	EPA 8260C	10/28/15 16:36	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.68*	*1*	*5.00*	*114 %*	*79-127*	*5J28009*	*EPA 8260C*	*10/28/15 16:36*	*rgg*	

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Description: SW-DRP11 Surface
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513212-10
Sampled: 10/22/15 12:21
Sampled By: ROBERT WELDY

Received: 10/23/15 09:10
Work Order: C513212

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	11/02/15 17:39	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	11/02/15 17:39	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/02/15 17:39	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/02/15 17:39	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	11/02/15 17:39	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/02/15 17:39	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/02/15 17:39	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/02/15 17:39	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/02/15 17:39	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/02/15 17:39	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	11/02/15 17:39	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/02/15 17:39	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	11/02/15 17:39	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/02/15 17:39	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/02/15 17:39	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/02/15 17:39	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/02/15 17:39	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/02/15 17:39	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 17:39	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/02/15 17:39	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 17:39	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/02/15 17:39	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/02/15 17:39	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/02/15 17:39	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 17:39	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/02/15 17:39	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	11/02/15 17:39	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/02/15 17:39	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/02/15 17:39	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	11/02/15 17:39	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/15 17:39	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/02/15 17:39	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/02/15 17:39	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/02/15 17:39	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/02/15 17:39	MSZ	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/02/15 17:39	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/02/15 17:39	MSZ	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	11/02/15 17:39	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/02/15 17:39	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 17:39	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/02/15 17:39	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/02/15 17:39	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 17:39	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/02/15 17:39	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 17:39	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/02/15 17:39	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/02/15 17:39	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/02/15 17:39	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	11/02/15 17:39	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	SW-DRP11 Surface	**Lab Sample ID:**	C513212-10	**Received:**	10/23/15 09:10
Matrix:	Water	**Sampled:**	10/22/15 12:21	**Work Order:**	C513212
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

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	*51*	*1*	*50.0*	*102 %*	*53-136*	*5K02022*	*EPA 8260B*	*11/02/15 17:39*	*MSZ*	
Dibromofluoromethane	*49*	*1*	*50.0*	*98 %*	*67-129*	*5K02022*	*EPA 8260B*	*11/02/15 17:39*	*MSZ*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*59-134*	*5K02022*	*EPA 8260B*	*11/02/15 17:39*	*MSZ*	

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Description: SW-DRP11 Surface
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513212-10
Sampled: 10/22/15 12:21
Sampled By: ROBERT WELDY

Received: 10/23/15 09:10
Work Order: C513212

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	1.20	U	ug/L	1	1.20	2.00	10	EPA 8260C	10/28/15 17:12	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.30*	*1*	*5.00*	*86 %*	*79-127*	*5J28009*	*EPA 8260C*	*10/28/15 17:12*	*rgg*	

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

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Description: SW-DRP11 Bottom
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513212-11
Sampled: 10/22/15 12:03
Sampled By: ROBERT WELDY

Received: 10/23/15 09:10
Work Order: C513212

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	11/02/15 18:08	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	11/02/15 18:08	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/02/15 18:08	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/02/15 18:08	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	11/02/15 18:08	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/02/15 18:08	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/02/15 18:08	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/02/15 18:08	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/02/15 18:08	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/02/15 18:08	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	11/02/15 18:08	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/02/15 18:08	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	11/02/15 18:08	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/02/15 18:08	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/02/15 18:08	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/02/15 18:08	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/02/15 18:08	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/02/15 18:08	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 18:08	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/02/15 18:08	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 18:08	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/02/15 18:08	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/02/15 18:08	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/02/15 18:08	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 18:08	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/02/15 18:08	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	11/02/15 18:08	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/02/15 18:08	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/02/15 18:08	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	11/02/15 18:08	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/15 18:08	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/02/15 18:08	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/02/15 18:08	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/02/15 18:08	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/02/15 18:08	MSZ	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/02/15 18:08	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/02/15 18:08	MSZ	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	11/02/15 18:08	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/02/15 18:08	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 18:08	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/02/15 18:08	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/02/15 18:08	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 18:08	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/02/15 18:08	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 18:08	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/02/15 18:08	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/02/15 18:08	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/02/15 18:08	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	11/02/15 18:08	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description: SW-DRP11 Bottom
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513212-11
Sampled: 10/22/15 12:03
Sampled By: ROBERT WELDY

Received: 10/23/15 09:10
Work Order: C513212

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	*49*	*1*	*50.0*	*99 %*	*53-136*	*5K02022*	*EPA 8260B*	*11/02/15 18:08*	*MSZ*	
Dibromofluoromethane	*51*	*1*	*50.0*	*102 %*	*67-129*	*5K02022*	*EPA 8260B*	*11/02/15 18:08*	*MSZ*	
Toluene-d8	*44*	*1*	*50.0*	*87 %*	*59-134*	*5K02022*	*EPA 8260B*	*11/02/15 18:08*	*MSZ*	

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Description:	SW-DRP11 Bottom	**Lab Sample ID:**	C513212-11	**Received:**	10/23/15 09:10
Matrix:	Water	**Sampled:**	10/22/15 12:03	**Work Order:**	C513212
Project:	Seaboard/Riverdale Landfill	**Sampled By:**	ROBERT WELDY		

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	1.20	U	ug/L	1	1.20	2.00	10	EPA 8260C	10/28/15 17:49	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.23*	*1*	*5.00*	*105 %*	*79-127*	*5J28009*	*EPA 8260C*	*10/28/15 17:49*	*rgg*	

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

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Description: Trip Blank | **Lab Sample ID:** C513212-12 | **Received:** 10/23/15 09:10

Matrix: Water | **Sampled:** 10/22/15 10:35 | **Work Order:** C513212

Project: Seaboard/Riverdale Landfill | **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	11/02/15 13:20	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	11/02/15 13:20	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	11/02/15 13:20	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/02/15 13:20	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	11/02/15 13:20	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/02/15 13:20	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/02/15 13:20	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/02/15 13:20	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/02/15 13:20	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	11/02/15 13:20	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	11/02/15 13:20	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	11/02/15 13:20	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	11/02/15 13:20	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/02/15 13:20	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/02/15 13:20	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/02/15 13:20	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/02/15 13:20	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/02/15 13:20	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 13:20	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	11/02/15 13:20	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 13:20	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	11/02/15 13:20	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	11/02/15 13:20	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/02/15 13:20	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 13:20	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/02/15 13:20	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	11/02/15 13:20	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	11/02/15 13:20	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/02/15 13:20	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	11/02/15 13:20	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	11/02/15 13:20	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	11/02/15 13:20	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	11/02/15 13:20	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	11/02/15 13:20	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/02/15 13:20	MSZ	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	11/02/15 13:20	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	11/02/15 13:20	MSZ	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	11/02/15 13:20	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	11/02/15 13:20	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	11/02/15 13:20	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/02/15 13:20	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	11/02/15 13:20	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 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	11/02/15 13:20	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	11/02/15 13:20	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	11/02/15 13:20	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/02/15 13:20	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	11/02/15 13:20	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	11/02/15 13:20	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

www.encolabs.com

Description: Trip Blank
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513212-12
Sampled: 10/22/15 10:35
Sampled By: ENCO

Received: 10/23/15 09:10
Work Order: C513212

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	*50*	*1*	*50.0*	*100 %*	*53-136*	*5K02022*	*EPA 8260B*	*11/02/15 13:20*	*MSZ*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*67-129*	*5K02022*	*EPA 8260B*	*11/02/15 13:20*	*MSZ*	
Toluene-d8	*42*	*1*	*50.0*	*85 %*	*59-134*	*5K02022*	*EPA 8260B*	*11/02/15 13:20*	*MSZ*	

www.encolabs.com

Description: Trip Blank
Matrix: Water
Project: Seaboard/Riverdale Landfill

Lab Sample ID: C513212-12
Sampled: 10/22/15 10:35
Sampled By: ENCO

Received: 10/23/15 09:10
Work Order: C513212

Volatile Organic Compounds by GCMS SIM Isotope Dilution

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]	1.20	U	ug/L	1	1.20	2.00	10	EPA 8260C	10/28/15 11:08	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.28*	*1*	*5.00*	*106 %*	*79-127*	*5J28009*	*EPA 8260C*	*10/28/15 11:08*	*rgg*	

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 5K01001 - EPA 5030B_MS

Blank (5K01001-BLK1) Prepared: 11/01/2015 12:17 Analyzed: 11/01/2015 14:52

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							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
o-Xylene	0.065	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							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5K01001 - EPA 5030B_MS

Blank (5K01001-BLK1) Continued Prepared: 11/01/2015 12:17 Analyzed: 11/01/2015 14:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	*50*			*ug/L*	*50.0*		*100*	*53-136*			
Surrogate: Dibromofluoromethane	*49*			*ug/L*	*50.0*		*98*	*67-129*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*59-134*			

LCS (5K01001-BS1) Prepared: 11/01/2015 12:17 Analyzed: 11/01/2015 15:21

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		93	75-133			
Benzene	18		1.0	ug/L	20.0		92	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		98	83-117			
Toluene	21		1.0	ug/L	20.0		103	71-118			
Trichloroethene	17		1.0	ug/L	20.0		83	74-119			
Surrogate: 4-Bromofluorobenzene	*52*			*ug/L*	*50.0*		*105*	*53-136*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*91*	*67-129*			
Surrogate: Toluene-d8	*44*			*ug/L*	*50.0*		*88*	*59-134*			

Matrix Spike (5K01001-MS1) Prepared: 11/01/2015 12:17 Analyzed: 11/01/2015 15:50

Source: C513853-07

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	104	75-133			
Benzene	20		1.0	ug/L	20.0	0.15 U	98	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	104	83-117			
Toluene	22		1.0	ug/L	20.0	0.14 U	111	71-118			
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	88	74-119			
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*105*	*53-136*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*93*	*67-129*			
Surrogate: Toluene-d8	*44*			*ug/L*	*50.0*		*87*	*59-134*			

Matrix Spike Dup (5K01001-MSD1) Prepared: 11/01/2015 12:17 Analyzed: 11/01/2015 16:18

Source: C513853-07

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	96	75-133	7	20	
Benzene	19		1.0	ug/L	20.0	0.15 U	95	81-134	3	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	100	83-117	4	16	
Toluene	22		1.0	ug/L	20.0	0.14 U	108	71-118	3	17	
Trichloroethene	17		1.0	ug/L	20.0	0.15 U	84	74-119	4	22	
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*106*	*53-136*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*91*	*67-129*			
Surrogate: Toluene-d8	*44*			*ug/L*	*50.0*		*88*	*59-134*			

Batch 5K02022 - EPA 5030B_MS

Blank (5K02022-BLK1) Prepared: 11/02/2015 09:57 Analyzed: 11/02/2015 10:50

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5K02022 - EPA 5030B_MS

Blank (5K02022-BLK1) Continued Prepared: 11/02/2015 09:57 Analyzed: 11/02/2015 10:50

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							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
o-Xylene	0.065	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							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5K02022 - EPA 5030B_MS

Blank (5K02022-BLK1) Continued Prepared: 11/02/2015 09:57 Analyzed: 11/02/2015 10:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	*51*			*ug/L*	*50.0*		*102*	*53-136*			
Surrogate: Dibromofluoromethane	*49*			*ug/L*	*50.0*		*98*	*67-129*			
Surrogate: Toluene-d8	*44*			*ug/L*	*50.0*		*88*	*59-134*			

LCS (5K02022-BS1) Prepared: 11/02/2015 09:57 Analyzed: 11/02/2015 11:25

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		94	75-133			
Benzene	19		1.0	ug/L	20.0		95	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		98	83-117			
Toluene	21		1.0	ug/L	20.0		107	71-118			
Trichloroethene	17		1.0	ug/L	20.0		84	74-119			
Surrogate: 4-Bromofluorobenzene	*52*			*ug/L*	*50.0*		*103*	*53-136*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*87*	*67-129*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*85*	*59-134*			

Matrix Spike (5K02022-MS1) Prepared: 11/02/2015 09:57 Analyzed: 11/02/2015 11:54

Source: C513853-08

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	0.21 U	98	75-133			
Benzene	19		1.0	ug/L	20.0	0.15 U	95	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	101	83-117			
Toluene	21		1.0	ug/L	20.0	0.14 U	106	71-118			
Trichloroethene	17		1.0	ug/L	20.0	0.15 U	85	74-119			
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*107*	*53-136*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*90*	*67-129*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*86*	*59-134*			

Matrix Spike Dup (5K02022-MSD1) Prepared: 11/02/2015 09:57 Analyzed: 11/02/2015 12:23

Source: C513853-08

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	0.21 U	96	75-133	1	20	
Benzene	19		1.0	ug/L	20.0	0.15 U	97	81-134	2	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	100	83-117	0.5	16	
Toluene	22		1.0	ug/L	20.0	0.14 U	108	71-118	2	17	
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	88	74-119	3	22	
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*106*	*53-136*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*91*	*67-129*			
Surrogate: Toluene-d8	*44*			*ug/L*	*50.0*		*88*	*59-134*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS SIM Isotope Dilution - Quality Control

Batch 5J28009 - EPA 5030B_MS

QUALITY CONTROL

Volatile Organic Compounds by GCMS SIM Isotope Dilution - Quality Control

Batch 5J28009 - EPA 5030B_MS

Blank (5J28009-BLK1) Prepared: 10/28/2015 00:00 Analyzed: 10/28/2015 10:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	1.20	U	2.00	ug/L							
Surrogate: Toluene-d8	*5.42*			*ug/L*	*5.00*		*108*	*79-127*			

LCS (5J28009-BS1) Prepared: 10/28/2015 00:00 Analyzed: 10/28/2015 09:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	24.3		2.00	ug/L	25.0		97	80-133			
Surrogate: Toluene-d8	*5.68*			*ug/L*	*5.00*		*114*	*79-127*			

LCS Dup (5J28009-BSD1) Prepared: 10/28/2015 00:00 Analyzed: 10/28/2015 10:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	25.8		2.00	ug/L	25.0		103	80-133	6	19	
Surrogate: Toluene-d8	*5.35*			*ug/L*	*5.00*		*107*	*79-127*			

Batch 5J29008 - EPA 5030B_MS

Blank (5J29008-BLK1) Prepared: 10/29/2015 00:00 Analyzed: 10/29/2015 11:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	1.20	U	2.00	ug/L							
Surrogate: Toluene-d8	*5.39*			*ug/L*	*5.00*		*108*	*79-127*			

LCS (5J29008-BS1) Prepared: 10/29/2015 00:00 Analyzed: 10/29/2015 10:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	22.8		2.00	ug/L	25.0		91	80-133			
Surrogate: Toluene-d8	*5.36*			*ug/L*	*5.00*		*107*	*79-127*			

LCS Dup (5J29008-BSD1) Prepared: 10/29/2015 00:00 Analyzed: 10/29/2015 10:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	23.8		2.00	ug/L	25.0		95	80-133	5	19	
Surrogate: Toluene-d8	*5.65*			*ug/L*	*5.00*		*113*	*79-127*			

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.

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CHAIN OF CUSTODY RECORD

Page ___ of ___

Client Name	Babb & Associates (BA024)
Project Number	[none]
Address	3605 Country Cove Lane
Project Name/Desc	Seaboard/Riverdale Landfill
City/ST/Zip	Raleigh, NC 27606
PO # / Billing Info	
Tel	(919) 325-0696
Fax	
Reporting Contact	Gary Babb
Sampler(s) Name, Affiliation (Print)	Robert Weldy
Billing Contact	Randy Smith
Sampler(s) Signature	R. Weldy
Site Location / Time Zone	

Requested Analyses: 8260B,8260B Extended,8260C SIM ID

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C513212

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B,8260B Extended,8260C SIM ID	Sample Comments
	~~WW-1~~				WA	6	X	
	~~SW-1~~	10/22/15			WA	6	X	Did not Sample
	~~SW-2~~				WA	6	X	Did not sample
	SW-3	10/22/14	1400	Grab	WA	6	X	
	SW-4		1035		WA	6	X	
	SW-5		1330		WA	6	X	
	SW-6 Surface		1629		WA	6	X	
	SW-6 Bottom		1612		WA	6	X	
	SW-7 Surface		1428		WA	6	X	
	SW-7 Bottom		1436		WA	6	X	
	SW-DRP2 Surface		1105		WA	6	X	
	SW-DRP2 Bottom		1111		WA	6	X	

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		R. Weldy	10/22/15 1751	[signature]	10-23-15 0910
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 3.0c		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

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Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page ___ of ___

Client Name: Babb & Associates (BA024)	Project Number: [none]
Address: 3605 Country Cove Lane	Project Name/Desc: Seaboard/Riverdale Landfill
City/ST/Zip: Raleigh, NC 27606	PO # / Billing Info:
Tel: (919) 325-0696 Fax:	Reporting Contact: Gary Babb
Sampler(s) Name, Affiliation (Print): Robert Weldy	Billing Contact: Randy Smith
Sampler(s) Signature: R. Weldy	Site Location / Time Zone:

Requested Analyses: 8260B,8260B Extended,8260C SIM ID

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C513212

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B,8260B Extended,8260C SIM ID	Sample Comments
	SW-DRP11 Surface	10/22/15	1221	Grab	WA	6	X	
	SW-DRP11 Bottom	↓	1203	Grab	WA	6	X	
	Trip Blank				WA	4	X	
	~~Trip Blank~~				WA	4	X	
	~~Trip Blank~~				WA	4	X	
					WA	6	X	
					WA	6	X	

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: R. Weldy	Date/Time: 10/22/15 1751	Received By: [signature]	Date/Time: 10.23.15 0910
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 3.0°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

APPENDIX B

Capture Zone Test

REPORT

Seaboard Group II and City of High Point,
North Carolina

Report of Extraction Rate/ Capture Zone Test - August 2002

Former Seaboard Chemical/ Riverdale Drive Landfill Site Jamestown, North Carolina

April 16, 2004

Thomas M. Wilson, P.G.
Principal-in-Charge

ERM NC, PC
8000 Corporate Center Drive
Suite 200
Charlotte, NC 28226

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1.0 *INTRODUCTION*

Aquifer testing activities were conducted at the Seaboard Chemical/Riverdale Drive Landfill site during July and August 2002. The work was performed by ERM and Babb & Associates on behalf of the Seaboard Group II and the City of High Point. The activities were conducted in accordance with the approved scope of work described in the *Pre-Remedial Assessment Activities, Extraction Rate/Capture Zone* work plan dated May 28, 2002. The scope of work and results presented in this report supplement the initial Remedial Investigation which was conducted at the site from 1996 to 1998, and previous supplemental RI and annual monitoring activities which were conducted at the site in years 2000 and 2001. The remedial investigation and monitoring activities were conducted under an Administrative Order on Consent (AOC), dated June 30, 1996, with the North Carolina Department of Environment and Natural Resources (NCDENR), Division of Waste Management.

The aquifer testing was conducted to collect data needed to determine the number, locations and extraction (pumping) rates of recovery wells which may be used for ground water remediation at the site. The specific objectives of the aquifer testing are as follows:

- Determine if drawdown caused by pumping of existing well PW-DR1 will extend to, and induce flow from, the major discrete features that control contaminant migration at the site (namely the Regional Dike to the east and the Seaboard Dike to the west);

- Determine if the boundary effects of the Deep River are significant enough to limit drawdown, and hence the extent of the capture zone, created by pumping PW-DR1;

- Assess the vertical extent of the capture zone; and

- Determine if additional extraction wells will be necessary to intercept ground water in the Regional Dike and the Seaboard Dike, and if so, determine their locations and pumping rates.

This report summarizes the aquifer testing activities and presents the preliminary results.

2.0 *AQUIFER TESTING ACTIVITIES*

As part of the aquifer testing activities, two bedrock observation wells were installed near the Deep River, down-hole video logging of the new observation wells was performed and an aquifer test was performed by pumping existing well PW-DR1 at several discharge rates. In addition, flowmeter logging of the new observation wells was performed before and during the aquifer test. Details of each of these activities are discussed below.

2.1 *OBSERVATION WELL INSTALLATION*

In September 1997, an aquifer test was conducted at monitor well PW-DR1 as part of the RI activities. Although water-level drawdown was measured in wells within 80 feet of PW-DR1, there were no observation wells located at greater distances from the pumping well. Consequently, it was difficult to assess the lateral extent of the pumping influence during the 1997 aquifer test.

In order to accurately assess the extent of the area of influence, or capture zone, of well PW-DR1, two observation wells were installed in the vicinity of existing well PW-DR1. The locations of the new observation wells (OW-DR3 and OW-DR4) are shown in Figures 1 and 2 and are discussed below. The locations are on the City of High Point landfill property (outside the PTRWA right-of-way) and above the normal pool elevation of the Randleman Reservoir.

The new observation wells were installed on or near inferred locations of geological structures (see Figure 1), which serve as preferred migration pathways to the Deep River. The results of previous magnetic geophysical survey and geologic mapping were used to determine the location of the observation wells. One observation well, OW-DR3, was installed approximately 350 feet east of PW-DR1 near the west side of the Regional Dike at or near the inferred intersection of the Regional Dike and the Deep River Fault. The Regional Dike is a northeast-trending geologic structure which serves as a preferred migration pathway and which corresponds approximately with the eastern edge of the main mass of VOC-affected ground water migrating toward the east-west segment of the Deep River. The Deep River Fault is a south-dipping geologic structure that forms the east-west segment of the river and serves as a primary migration pathway to the Deep River. The OW-DR3 observation

well was used to monitor whether the drawdown and the capture zone from pumping PW-DR1 would extend eastward to the Regional Dike.

The second observation well, OW-DR4, was installed approximately 400 feet west of PW-DR1, on the east side of the Seaboard Dike near the inferred intersection of the Seaboard Dike and the Deep River Fault. The Seaboard Dike is a northeast-trending geologic structure which serves as a preferred migration pathway and which corresponds approximately with the western edge of the main mass of VOC-affected ground water migrating toward the east-west segment of the Deep River. The OW-DR4 observation well was used to monitor whether the drawdown and the capture zone from pumping at PW-DR1 would extend westward to the Seaboard Dike.

The final locations of the new observation wells were constrained by the landfill cell, a subsurface sanitary sewer main and the steep topography. The location of OW-DR3 had to be adjusted approximately 35 feet to the southwest of the initial staked location to provide adequate offset from the sanitary sewer main.

Each monitor well borehole was advanced by drilling a 10-inch boring into the top of bedrock and installing a 6-inch surface casing. At OW-DR4, a 12-inch surface casing was also installed in a 24-inch boring to isolate a zone of landfilled waste that was encountered to a depth of 12 feet. The borings were continued as 6-inch boreholes to a total depth of approximately 160 feet below ground surface (bgs) at OW-DR3 and 165 feet bgs at OW-DR4. The proposed total depths correspond to a subsurface elevation of 550 feet mean sea level (msl). The 550-foot elevation is targeted because it is near the projected subsurface depth of the Deep River Fault beneath the proposed observation well locations and is within the depth zone of the highest concentrations of VOC-affected ground water based on discrete interval sampling at PW-5D (located adjacent to PW-DR1).

The observation wells were completed as 6-inch open borehole observation wells. The observation wells were completed with lockable stick-up well covers and 3 ft. by 3 ft. concrete pads. The locations and elevations of the observation wells were surveyed by a North Carolina registered surveyor.

Following the completion of the new observation wells, video logging of the wells was conducted to identify the possible locations of fractures that

intersect them. The video logs were evaluated along with the geologist's drilling logs to determine the apparent major transmissive fracture zones.

In addition to video logging, both wells were logged using a down-hole flow meter. The flow meter was used to measure vertical flow rate in the wells under stressed (pumping) and unstressed (non-pumping) conditions. These measurements were used to indicate (1) where water-producing fractures are located, (2) the direction of the vertical hydraulic gradient in each well, and (3) the relative transmissivity of fractures intersecting the wells. The flow rate data were collected using an electromagnetic flowmeter tool (Century Geophysical model 9721). Flow rate measurements were made at approximately 5-foot intervals along the entire uncased portion of each well bore and at selected downhole fracture zones identified from the video log and drilling log. Flowmeter data for the non-pumping conditions were collected on August 20 at OW-DR3 and OW-DR4. Flowmeter data for the pumping conditions were collected during the extraction rate test on August 21 at OW-DR3, OW-DR4 and OW-DR1. The pumping rate was 37 to 40 gpm at test well PW-DR1 at the time of the flowmeter logging under pumping conditions at the observation wells.

The drilling logs for OW-DR3 and OW-DR4 are presented in Appendix A. The flowmeter logging data are also presented on the drilling logs. The new observation wells are also shown in a hydrogeologic cross-section presented in Figure 3.

2.2 *EXTRACTION RATE/CAPTURE ZONE TEST AT PW-DR1*

An extraction test was conducted at PW-DR1 in which the pumping rate was periodically increased and the resulting drawdown was monitored in nearby monitoring wells, including the newly installed wells OW-DR3 and OW-DR4. By observing and plotting the drawdown at different pumping rates, the capture zone for different extraction rates was determined. Determination of the extraction rate that will capture flow from the Regional Dike and the Seaboard Dike was of particular interest.

Prior to the aquifer tests, a submersible pump was set in well PW-DR1 to a depth of 100 feet (below the maximum anticipated drawdown). A gate valve and flow meter with totalizer were installed in the discharge pipe to regulate and monitor ground water discharge.

The water generated by the aquifer test was collected in tankers and transported to the former Seaboard Chemical facility site for treatment. The test water was pre-treated using portable activated carbon adsorption units prior to discharge to the City of High Point POTW. Authorization to discharge the treated ground water to the POTW was obtained from the City on August 30.

For two days prior to the aquifer test (August 19 and 20), water levels were monitored in the test well, four monitor/observation wells (OW-DR2, OW-DR3, OW-DR4, and PW-13I), the Deep River, and a piezometer DRP-2 (located below the bed in the Deep River). The pre-pumping water-level data was used to identify water level trends in the shallow bedrock aquifer and the river prior to the test. Rainfall was also measured during the 2-days prior to the test and no rainfall occurred. Immediately prior to the starting time for the aquifer test, water level data was collected from the test well and observation wells.

Drawdown was measured as a function of time after the start of pumping at 7:20 a.m. on August 21. Based on results of the September 1997 aquifer test, it was anticipated that the maximum yield of PW-DR1 would be 40 gallons per minute or more. The test well was pumped at successively higher pumping rates and the drawdown for each rate (step) was recorded. In the work plan, an initial pumping rate of 5 gallons per minute (gpm) was planned. However, at the time of the test, the plan was modified to allow an initial pumping rate of 10 gpm in order to increase the hydrologic stress on the aquifer system and improve the chance of seeing drawdown extend to the Seaboard Dike and the Regional Dike. The actual pumping rates and pumping time for each rate is summarized below.

Pumping Rate	Duration
10 gpm	2 hours
20 gpm	2 hours
37 gpm	2.3 hours
40 gpm	5.3 hours

Throughout the test, water level data was collected at predetermined time intervals. Water levels were measured to the nearest 0.01 feet. The planned time intervals for collecting the ground water levels at the beginning of each step are provided in the following table.

Time Since Pumping Started in Minutes	Time Intervals Between Measurements in Minutes
0-10	0.5
10-15	1
15-60	5
60-120	10
After 120	15

The pump was stopped at 7:20 p.m. on August 21. The total pumping time was 720 minutes. Water levels were measured during the recovery period, after pumping stopped, using a schedule similar to that in the table above.

Aquifer test data was recorded in the field on standardized forms and and/or on digital data loggers. In addition to the actual aquifer test data, precipitation was also monitored and there was no rainfall prior to and during the aquifer test.

The observation well network for the aquifer test consisted of the test well (PW-DR1), the two new observation wells (OW- DR3 & OW-DR4), existing monitor wells MW-3C, MW-4, MW-11, OW-DR2, PW-13I, PW-5D, PW-6I, PW-6D, PW-7I and piezometer DRP-2 at the Deep River. The work plan included monitor well PW-15D in the observation well network. However, permission to access the PW-15D location (located across the Deep River from the test well) through a private property could not be obtained prior to the test and PW-15D was omitted from the observation well network. The extraction test monitoring program is summarized in Table 1. Figure 2 provides the locations of the test well and the observation wells. The nearest observation well (OW-DR2) was located approximately 75 feet from the test well. The maximum distance of an observation well from the test well was 670 feet (MW- 11). The observation well network provided monitoring of aquifer response in the shallow bedrock aquifer.

A pressure transducer and data logger was placed each in PW-DR1, OW-DR3, OW-DR4, PW-6D, PW-6I, PW-7I and PW-13I. Manual measurements of water levels were made in the remaining monitor/observation wells, the Deep River staff gauge and piezometer DRP-2. In addition, manual measurements of water levels were obtained for the wells equipped with pressure transducers for backup purposes.

3.0 *RESULTS*

The aquifer test activities were conducted at the Seaboard Chemical and Riverdale Drive Landfill Site during the period of July - August 2002 . Figures 1 and 2 provide the locations of the test well, the observation wells and the major geologic structures. The drilling logs and flowmeter logging data for OW-DR3 and OW-DR4 are presented in Appendix A. A hydrogeologic cross section through the aquifer test area is presented in Figure 3. Time-drawdown plots are presented in Appendix B for monitor wells PW-DR1, OW-DR2, OW-DR3, OW-DR4, MW-3C, MW-4, MW-11, PW-5D, PW-6D, PW-6I, PW-7I and PW-13I, Deep River piezometer DRP-2 and Deep River staff gauge SW-DRP-2. Contour maps of the maximum drawdown observed near the end of each pumping rate step are presented in Figures 4A, 4B and 4C.

The major findings of the aquifer test activities at the Seaboard Chemical/Riverdale Drive Landfill site include the following:

- The drawdown caused by pumping of existing well PW-DR1 extended to the major discrete features that control contaminant migration at the site, namely the Regional Dike to the east and the Seaboard Dike to the west (Figures 4A, 4B & 4C). The drawdowns measured at the observation points at the end of each pumping rate step are summarized below.

Observation Point ID	Location Description	Distance from Pumping Well (ft)	Maximum Drawdown (Ft) @ 10 gpm	Maximum Drawdown (Ft) @ 20 gpm	Maximum Drawdown (Ft) @ 40 gpm
PW-DR1	Pumping Well at Deep River Fault & PW-5D Fault	-	8.3	15	36
OW-DR2	Deep River Fault	72	7.7	15	24.3
MW-3C	Shallow Bedrock Block	76	4	7.5	22
PW-5D	PW-5D Fault	90	2.4	4.8	13.8
DRP-2	Streambed Piezometer in Deep River	162	0	0	0
SW-DRP-2	Deep River Staff Gauge	162	0	0	0
OW-DR4	Seaboard Dike	240	7.8	11.5	23
OW-DR3	Regional Dike – West Side	330	0.1	0.1	0.1
MW-4	Saprolite Aquifer	418	0	0	0.1
PW-13I	West of Seaboard Dike	445	0.2	0.3	0.8
PW-7I	Shallow Bedrock Block	580	NDR	NDR	NDR
MW-11	West of Seaboard Dike	660	0	0	0
PW-6I	Regional Dike – East Side	670	0.02	0.05	0.16
PW-6D	Regional Dike – East Side	670	2.4	4	12

NDR = No Definitive Response

Drawdown in response to pumping was observed at seven of the thirteen observation points. At the Seaboard Dike, the approximate maximum drawdown measured at OW-DR4 near the end of the 10 gpm rate step was 7.8 feet. At PW-6D located on the east side of the Regional Dike, the approximate maximum drawdown measured at the end of the 10 gpm rate step was 2.4 feet. The drawdowns at OW-DR4 and PW-6D were observed to increase when the pumping rate at PW-DR1 was increased to 20 gpm and 40 gpm.

- Limited drawdown occurred at OW-DR3 located near the east side of the Regional Dike. Based on the drilling log and video log of OW-DR3, there were no major fracture zones or weathered zones encountered in the well borehole below the surface casing depth. A comparison of the flowmeter data for pumping and non-pumping conditions at OW-DR3 indicates a limited response to pumping at PW-DR1. These results indicate that the hydrologic connection between the OW-DR3 wellbore and the PW-DR1 wellbore was limited. This lack of connection may be the result of having to move the OW-DR3 well location by approximately 35 feet away from the Regional Dike (and associated fractures) in order to provide safe offset from an underground sanitary sewer line.

- No definitive response to pumping was observed at monitor wells MW-4, MW-11 and PW-7I. At MW-4, a shallow saprolite aquifer well, the results indicate that the hydrologic connection between the saprolite aquifer zone and the bedrock aquifer zone (pumping zone) is limited relative to the permeability within the fractured bedrock aquifer which served as the primary production zone for the duration of the pumping test. At MW-11, the results indicate an apparent lack of hydrologic connection with the pumping well. At PW-7I, a slight water level decline that was observed during the pumping phase of the test is not considered a definitive response to pumping because the decline continued after pumping stopped.

- No definitive drawdown occurred in the Deep River stream bed piezometer (DRP-2) or in the stage of the surface water in the Deep River (SW-DRP-2).

- Based on the drawdown data, and particularly the magnitude of the drawdown measured at OW-DR4 and PW-6D, there is no indication from the short-term pumping test that the extent of the capture zone

was significantly limited by boundary (recharge) effects of the Deep River.

- Based on drawdowns observed at the deepest observation wells, PW-5D and PW-6D, the response to pumping at PW-DR1 (open borehole 38 – 185 ft bgs) extended to depths of 306.5 feet at PW-5D (screened interval 296.5 – 306.5 ft. bgs) and 275 feet at PW-6D (screened interval 260 – 275 ft. bgs). Based on historical ground water analytical results, the highest total VOC concentrations in the fractured bedrock aquifer near the Deep River occur in the 100 to 300-foot depth range. The extraction test results indicate that the PW-DR1 capture zone extends to the lower vertical portion of the VOC plume.

- The extraction rate test results indicate that, under the current hydrologic conditions, the VOC plume can be contained at the Deep River by pumping at a relatively low rate (10 - 20 gpm) at one extraction well, PW-DR1. The drawdown data indicate that pumping at a rate of 10 gpm at PW-DR1 will produce a capture zone which extends along the Deep River Fault to beyond the Seaboard Dike to the west and to beyond the Regional Dike to the east. The elongated capture zone from the single extraction well extends essentially along the entire length of the east-west segment of the Deep River and encompasses the width of the main VOC plume where it intersects the river (Figures 4A, 4B & 4C).

Tables

Table 1
Extraction Rate/Capture Zone Test Monitoring Program
Seaboard Chemical/Riverdale Drive Landfill Site
Jamestown, North Carolina
August 19 - 21, 2002

Monitoring Location	Aquifer Zone	Total Depth (FT BGL)	Screen Interval (FT MSL)	Antecedent Water Level Monitoring	Extraction Test WL Monitoring		Flowmeter Logging
					Manual Gauging	Pressure Transducer	
Pumping Well							
PW-DR3	SBR	185	657-510	X (PT)	X	X	
Monitor Wells							
MW-3C	SBR	57	647-637		X		
MW-4	SAP	30	664-654		X		
MW-11	SBR	68	695-680		X		
OW-DR2	SBR	186	518-508	X (PT)	X		
OW-DR3	SBR	160	~628-585	X (PT)	X	X	X
OW-DR4	SBR	165	~670-500	X (PT)	X	X	X
PW-3D	SBR	306.5	425-415		X		
PW-6D	SBR	275	424-409		X	X	
PW-6I	SBR	76	629-608		X	X	
PW-7I	SBR	101	594-584		X	X	
PW-13I	SBR	250	504-489	X (PT)	X	X	
PW-15D	SBR	163.5	533-525		NM	NM	
Deep River							
DRP-2	Streambed	3.7	669-668	X	X		
SW-DRP-2	River stage	NA	MP El. 674.2	X	X		
Rainfall							
Gauge @ PW-DR1	NA	NA	NA	X	X		
			Total	8	19	7	2

Antecedent Water Levels monitored for 2 days prior to extraction test by manual gauging & Pressure Transducers (PT)

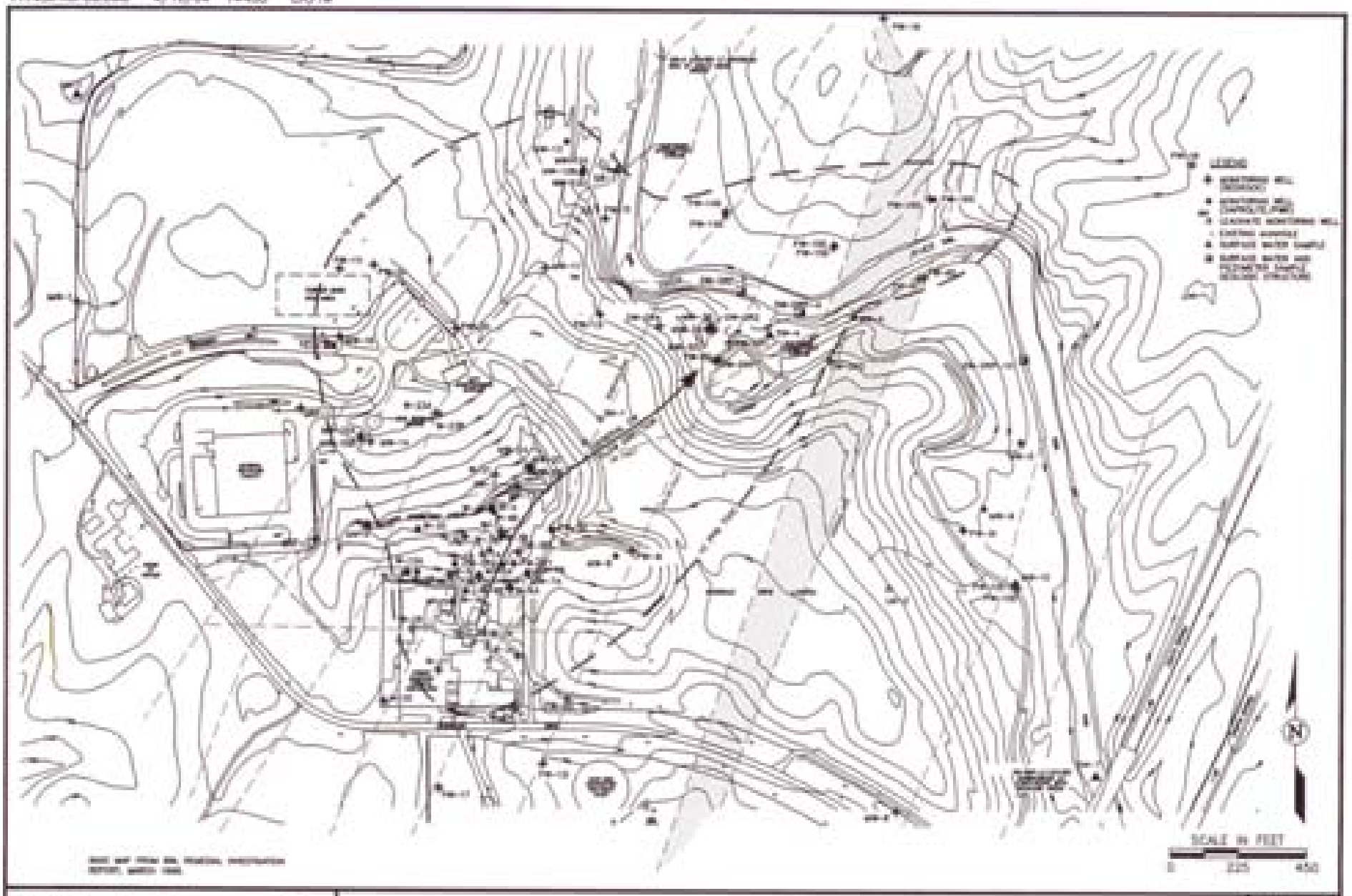
SAP = Surficial zone SBR = Shallow Bedrock zone

(1) DRP-2 is river stage gauging location measured from top of casing at piezometer DRP-2

NM - Not monitored because permission to access PW-DR7 well location through a private property was not obtained

Figures

117A3PROPS.DWG 4/15/04 1=450 DK/TW

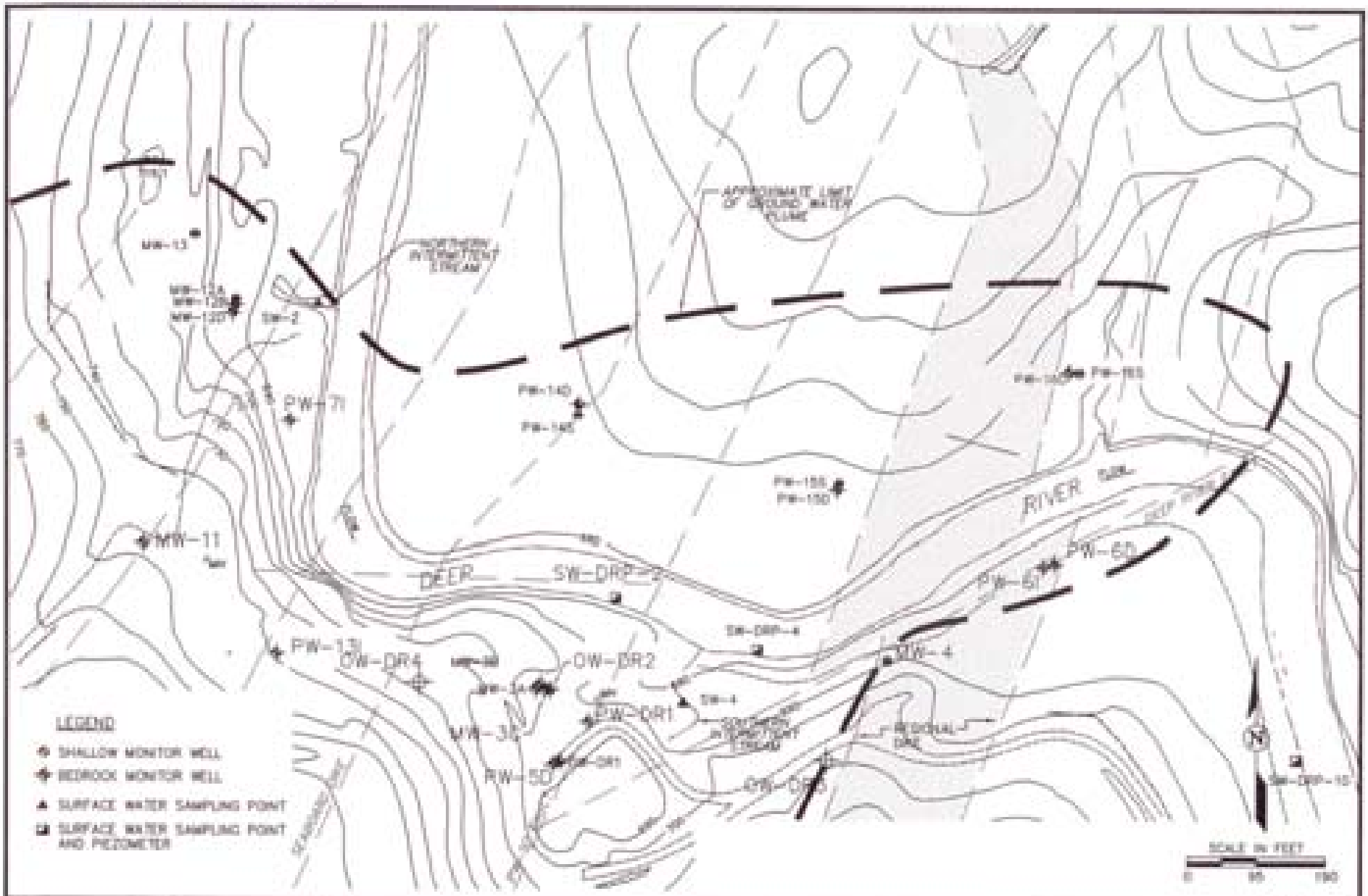


Environmental Resources Management
ERM

SITE MAP WITH WELL LOCATIONS
FORMER SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

FIGURE
1

1174JAMNEW.DWG 4/16/04 1=150 CAL/NM



Environmental Resources Management

ERM

SITE MAP WITH EXTRACTION TEST LOCATION

FORMER SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

FIGURE

2

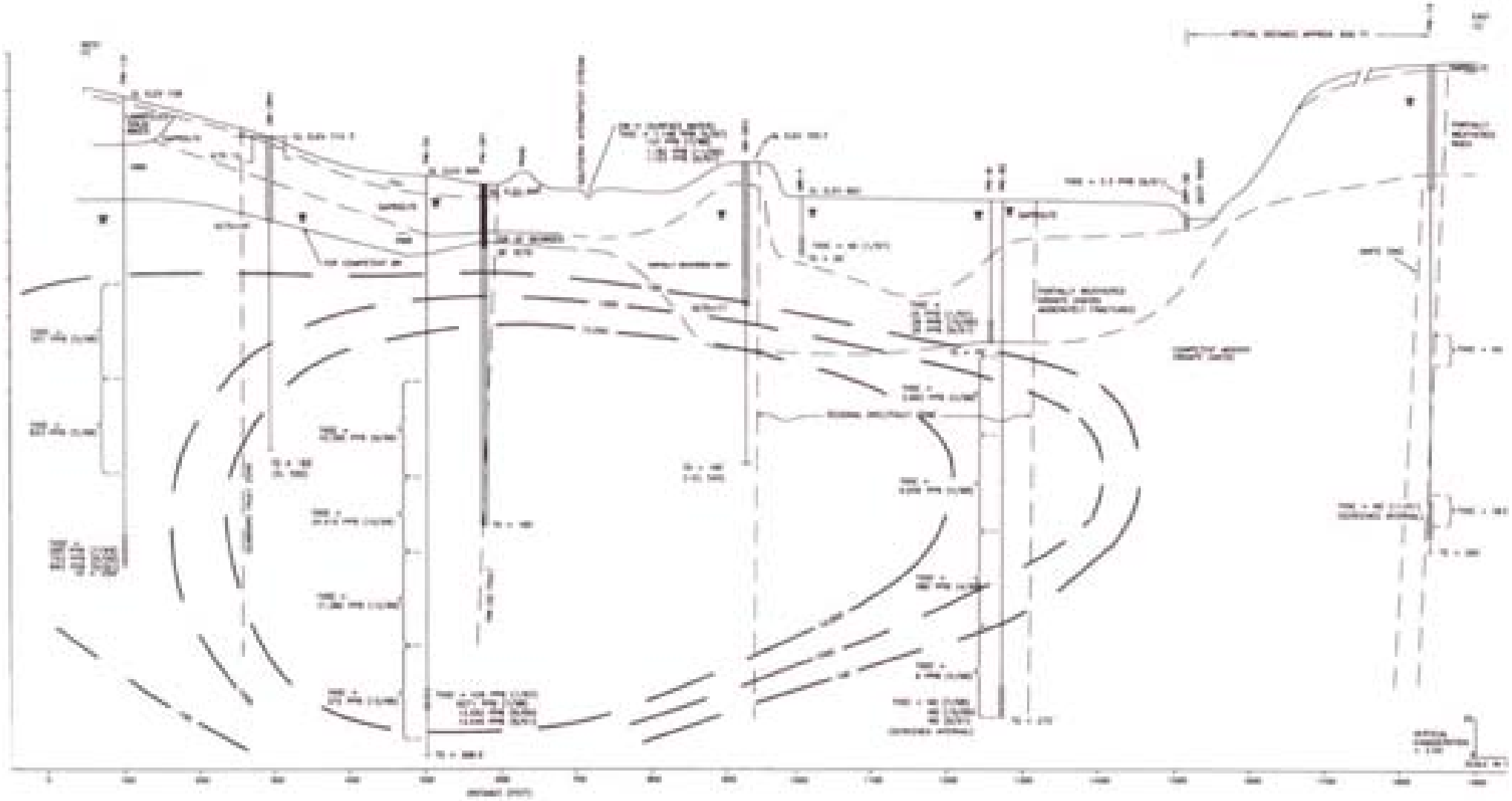
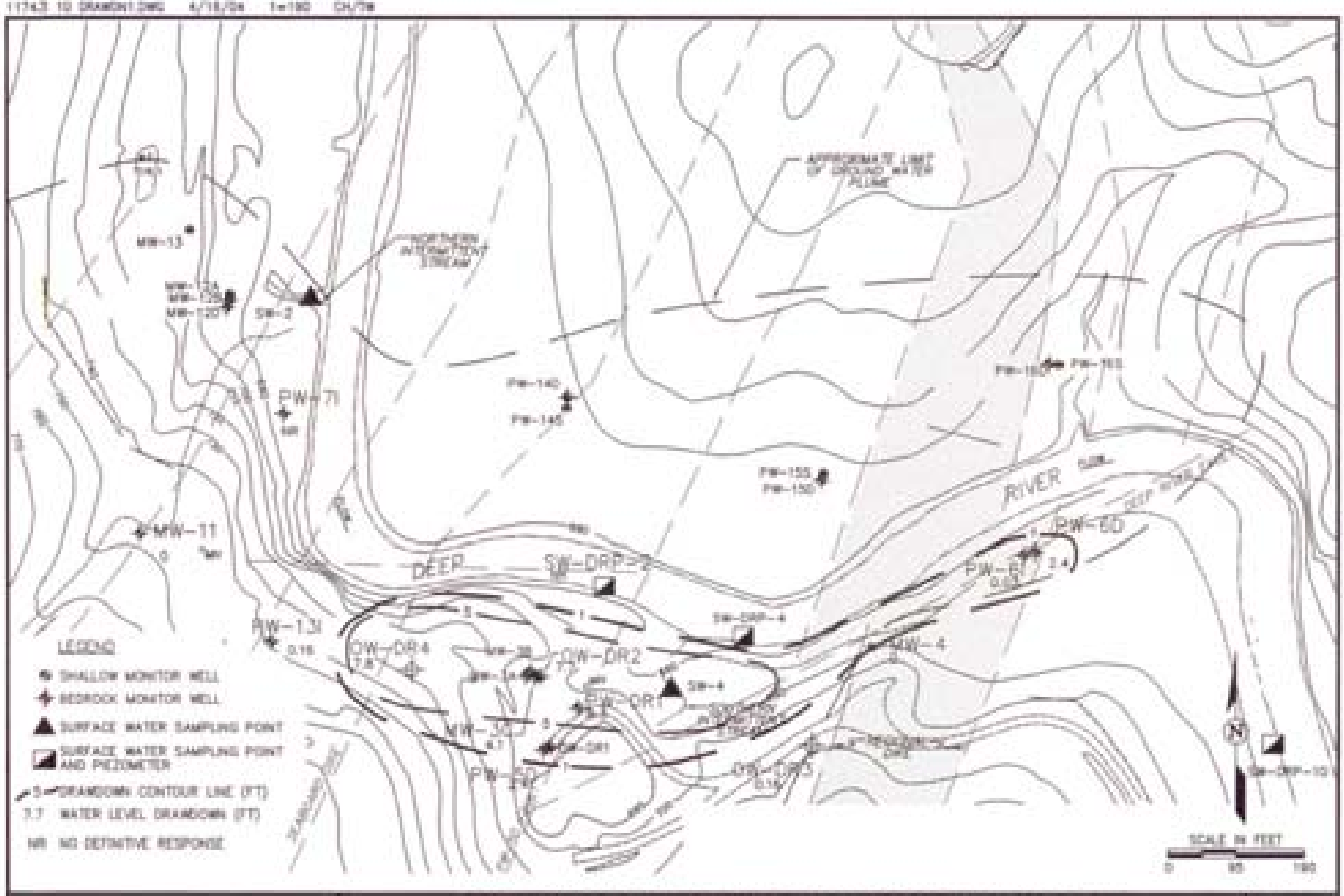


Figure 3

Environmental Resources Management

ERM

HYDROGEOLOGIC CROSS-SECTION CC-CC'
FORMER SEABOARD CHEMICAL/
RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

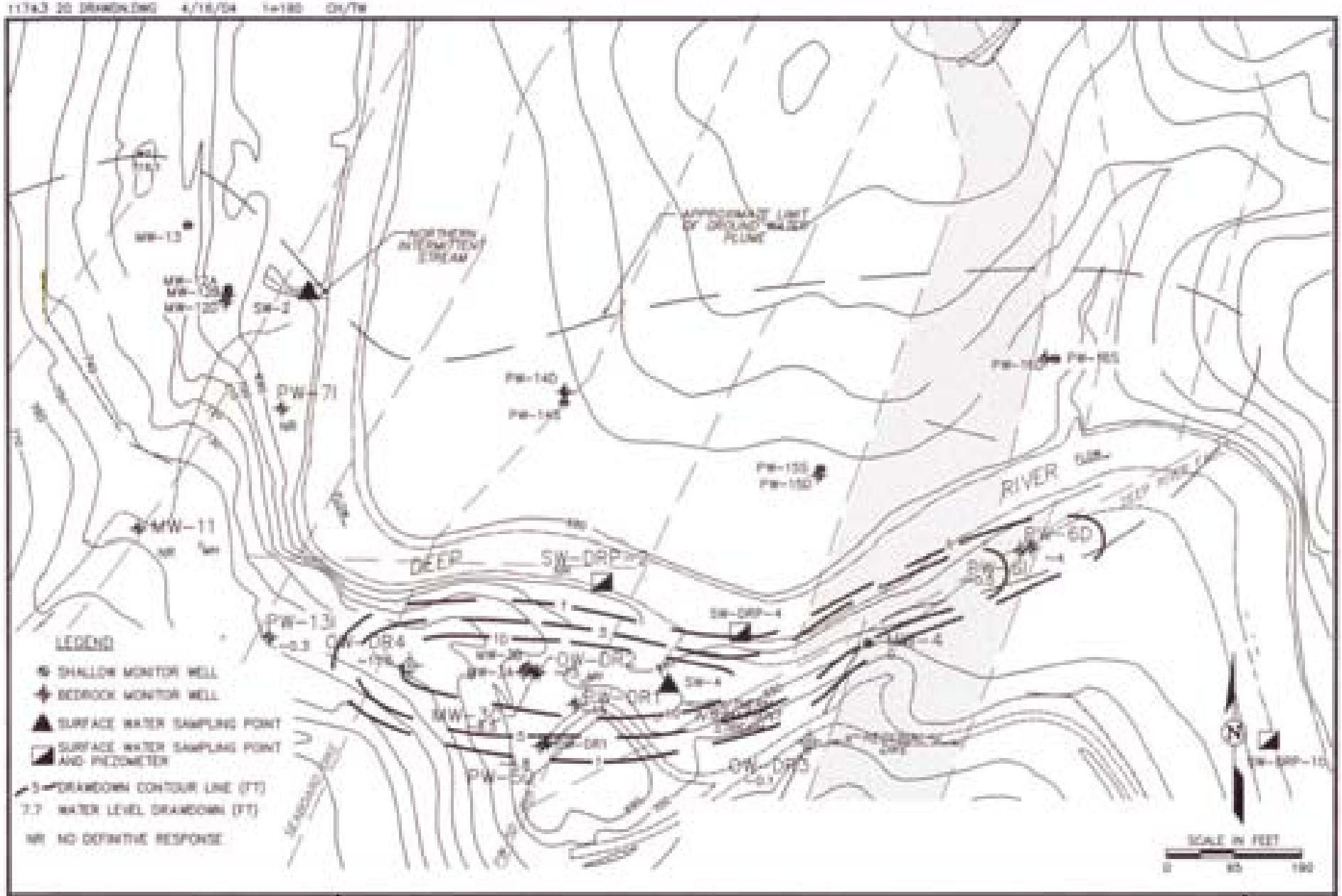


Environmental Resources Management

ERM

MAXIMUM DRAWDOWN (FT) AT 10 GPM PUMPING RATE
AUGUST 21, 2002
FORMER SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

FIGURE
4A

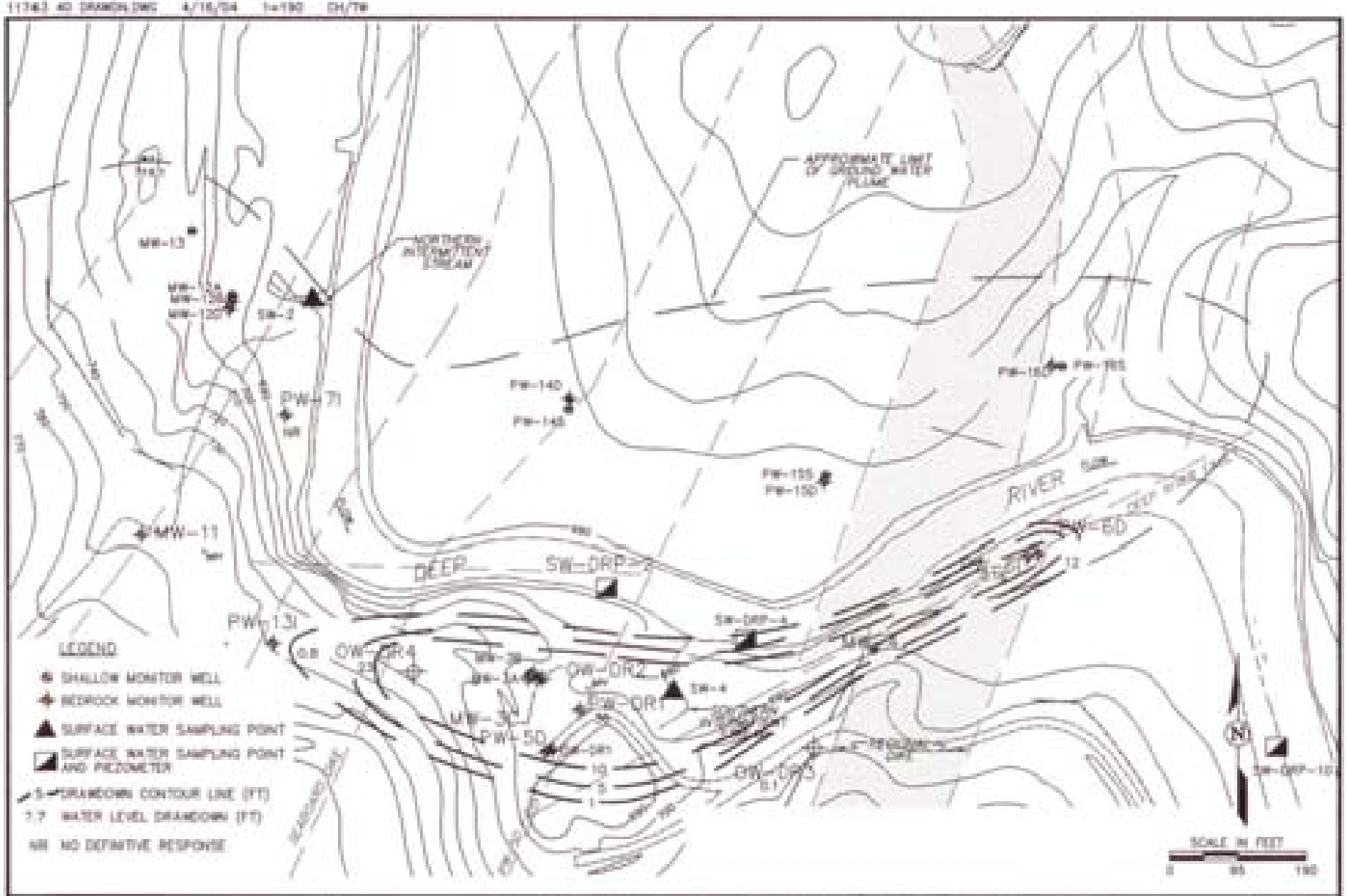


Environmental Resources Management

ERM

MAXIMUM DRAWDOWN (FT) AT 20 GPM PUMPING RATE
AUGUST 21, 2002
FORMER SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

FIGURE **4B**



Environmental Resources Management

ERM

MAXIMUM DRAWDOWN (FT) AT 40 GPM PUMPING RATE
AUGUST 21, 2002
FORMER SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

FIGURE
4C