WATER QUALITY MONITORING REPORT

for

GUDE LANDFILL

Montgomery County, Maryland

SPRING 2017

Prepared by Montgomery County Department of Environmental Protection

Prepared for Maryland Department of Environment, Solid Waste Program

June 20, 2017

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INTRODUCTION:

The Gude Landfill is located on the north side of Gude Drive near Southlawn Lane, northeast of the City of Rockville in Montgomery County. The site encompasses approximately 162 acres, of which approximately 140 acres have been used for the disposal of municipal waste and incinerator residues. It operated from the early 1960s until June 1, 1982. The Gude Landfill was constructed prior to the promulgation of regulations for landfill lining and leachate collection systems.

Since 1984, to monitor the quality of ground and surface water, the Montgomery County Department of Environmental Protection (DEP) has been collecting samples at a total of 25 monitoring sites, which include 20 observation wells and 5 stream locations. Beginning in fall 2010, as part of a Nature and Extent Study, sixteen (16) additional monitoring wells have been installed at the site. The purpose of the Nature and Extent Study, directed by MDE and managed by Montgomery County, is to assess and investigate the nature and extent of environmental impacts in the vicinity of and potentially resulting from the Gude Landfill. Locations of these monitoring sites can be found on the attached aerial photo titled Groundwater and Surface Water Monitoring Locations in Appendix A. Sampling and analysis are conducted semi-annually and include laboratory analysis for Volatile Organic Compounds (VOCs), Heavy Metals, field parameters (temperature, pH, conductivity), and other water quality parameters and indicators.

This report is organized into four sections, which discuss the results and observations based on the landfill water quality monitoring program. The four sections include a discussion of:

- VOC sampling results;
- Metals sampling results;
- Groundwater elevation and flow;
- Trends analysis/conclusions

In describing the monitoring results for VOC and metals we continue to distinguish data that exceed a selected reference benchmark (Benchmark), and for that purpose we continue to use the USEPA Maximum Contaminant Level (MCL) drinking water standard. However, it is important to note that: (a) the MCL is a drinking water standard and (b) the groundwater monitored is nowhere being used as a source of drinking water.

The appendices provide data tables for reference, as well as aerial photos and maps.

1. Volatile Organic Chemical Sampling Results:

The highlights of the results for this reporting period are described below. Please refer to Table 1 of the report for all the VOC results from the current sampling and to Table 2 and Appendix F for historical trend analyses.

- No VOCs were detected above the Benchmark in the following monitoring wells and stream locations:
  - **Pre-existing monitoring wells:** OB01, OB02, OB02A, OB04, OB06, OB07,

OB07A, OB08, OB15, OB25, OB102, and OB105.

- **Monitoring wells installed in 2010:** MW1B, MW2A, MW2B, MW3A, MW3B, MW04, MW06, MW07, MW08, MW10, MW11A, MW11B, and MW12.

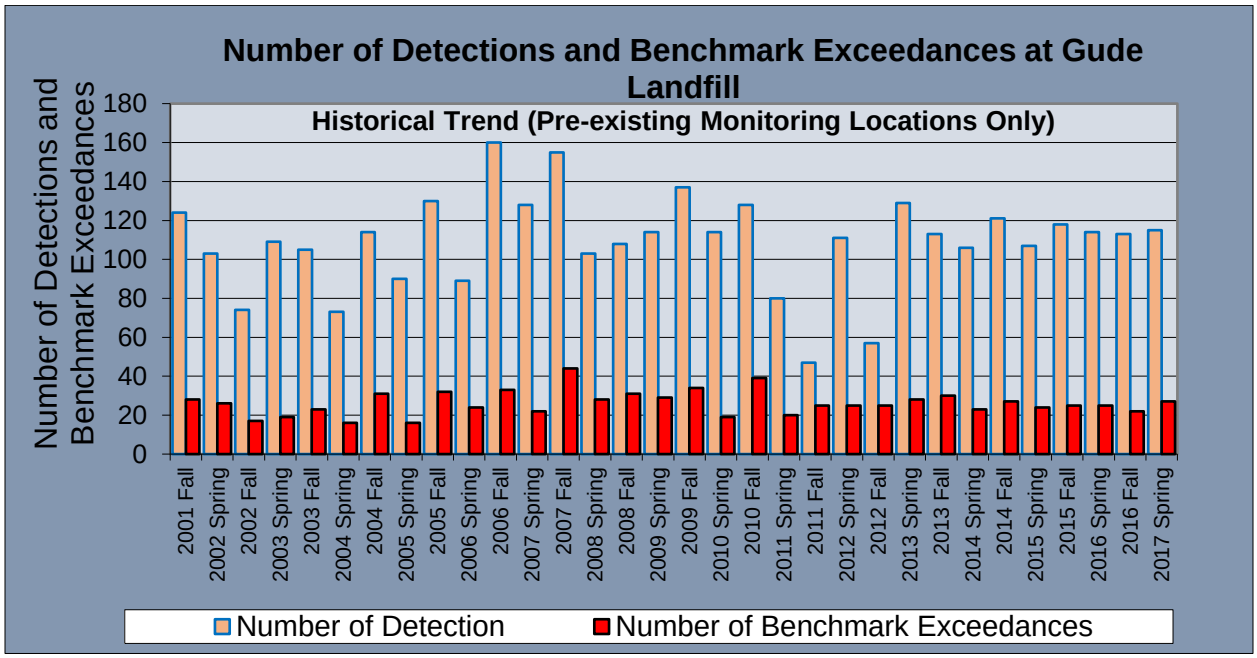
- **Stream Locations:** No VOCs were detected above the Benchmark in any of the monitored stream locations.

- Twelve (12) VOCs were identified as having increasing statistical trends and sixteen (16) of the monitoring wells had one (1) or more VOCs with increasing statistical trends.
- Twelve (12) VOCs were identified as having decreasing trends and fourteen (14) of the monitoring wells had one (1) or more VOCs with decreasing statistical trends.
- Eight (8) VOCs (benzene; chlorobenzene; 1,1-dichloroethane; cis-1,2-dichloroethene; 1,2-dichloropropane; methylene chloride; tetrachloroethene; vinyl chloride) had both decreasing and increasing trends.
- Four (4) VOCs had only increasing trends: 1,2-dichlorobenzene (OB03, OB11, OB11A); 1,4-dichlorobenzene (OB03, OB03A, OB04, OB04A, OB08, OB08A, OB10, OB11, OB11A, OB12, OB105); and 1,2-dichloroethane (OB11, OB12); and trans-1,2-dichloroethene (OB10, OB12).
- Four (4) VOCs had only decreasing trends: chloroethane (OB03, OB03A), dichlorodifluoromethane (MW13A, MW13B, OB03, OB03A, OB10, OB11, OB11A), trichloroethene (MW13B, OB01, OB02A, OB03, OB08A, OB11A), and trichlorofluoromethane (OB11A).
- A total of 32 VOCs exceeded the Benchmark in the following monitoring wells:
  - **Pre-existing monitoring wells:** OB03 (4 exceedances), OB03A (4 exceedances), OB04A (1 exceedance), OB08A (1 exceedance), OB10 (2 exceedances), OB11 (6 exceedances), OB11A (4 exceedances), and OB12 (5 exceedances).
  - **Monitoring wells installed in 2010:** MW09 (1 exceedance), MW13A (5 exceedances), and MW13B (4 exceedances).

  The following include a summary of these 32 VOC concentrations exceeding the Benchmarks:

  - 1,2-Dichloropropane concentration exceeded the Benchmark of 5 ug/l in observation wells OB03, OB03A, OB11, OB12, MW13A, and MW13B. Concentrations exceeding the Benchmark for this compound ranged from 5.2 ug/l in OB11 to 6.3 ug/l in OB12.
  - cis-1-2-Dichloroethene concentration exceeded the Benchmark of 70 ug/l in observation wells OB03, OB03A, OB11, OB11A, and MW13A. Concentrations exceeding the Benchmark for this compound ranged from 77.2 ug/l in OB03 to 92.4 ug/l in MW13A.
  - Dichloromethane concentration exceeded the Benchmark of 5 ug/l in observation well OB11 at 9.3 ug/l and OB12 at 5.8 ug/l.

- Tetrachloroethene concentration exceeded the Benchmark of 5 ug/l in observation wells OB11, OB11A, OB12, MW09, MW13A, and MW13B. Concentrations exceeding the Benchmark for this compound ranged from 5.8 ug/l in OB11A to 22.4 ug/l in OB12.
- Trichloroethene concentration exceeded the Benchmark of 5 ug/l in observation wells OB03, OB03A, OB10, OB11, OB11A, OB12, MW13A, and MW13B. Concentrations exceeding the Benchmark for this compound ranged from 14.1 ug/l in OB03A to 25.4 ug/l at MW13A.
- Vinyl chloride concentration exceeded the Benchmark of 2 ug/l in observation wells OB03, OB03A, OB04A, OB08A, OB10, OB11, OB11A, OB12, MW13A, and MW13B. Concentrations exceeding the Benchmark for this compound ranged from 2.2 ug/l in OB04A to 17.9 ug/l in OB11.



Note: The above Graph does not include data collected from the monitoring wells installed in 2010.

2. Inorganic and Metals Sampling Results:

Starting with the Spring 2015 sampling event, revisions were made in sampling methodology and samples laboratory analyses for metals. These revisions were recommended by MDE and included changes in the method of collecting samples from "Three Well Volumes" method to "Low Flow" method. The main reason for this change in collection method was to reduce the samples turbidity level associated with the "Three Well Volumes" method, as turbidity could potentially interfere with the accuracy of metal analyses.

A summary of the metals and other parameters (non-organic contaminants) laboratory results and statistical analysis for this reporting period are included below. Please refer to attached tables in "Appendix D" and statistical analysis in "Appendix F" of this report for additional information on the test results of metals and other water quality parameters.

- Twenty-five (25) metals (total and dissolved) were identified as having increasing statistical trends and eighteen (18) of the monitoring wells had one (1) or more metals with increasing statistical trends.
- Twenty-nine (29) metals (total and dissolved) were identified as having decreasing statistical trends, and thirty-one (31) of the monitoring wells had one (1) or more metals with decreasing statistical trends.
- One metal sample exceeded the Benchmark. It was in the following monitoring location:
    - **Pre-existing monitoring wells:** OB11 (1 exceedance of the 0.005 mg/l Benchmark for cadmium -vs- actual at 0.013 mg/l concentration).
    - **Monitoring wells installed in 2010**: No exceedances.
    - **Stream Locations**: No exceedances.

As part of the Nature and Extend Study under the guidance of MDE, the County also collected filtered samples to evaluate turbidity and its potential interferences to metals analysis. For this sampling event, one sample exceeded the Benchmark concentrations in filtered samples. Cadmium with a Benchmark of 0.005 mg/l was exceeded in filtered sample collected from OB11 at 0.012 mg/l concentration. As indicated above, the cadmium concentrations exceeding the Benchmark are identical for both filtered and unfiltered samples collected from the same monitoring location (OB11).

3. Physical Water Quality Measurements:

Additional physical water quality parameter measurements and analysis were conducted during the latest monitoring period and the results are included in this report. These water quality parameters are based on the monitoring requirements specified in the approved G&SWM Plan and include the followings:

Alkalinity	Ammonia
Calcium	Chloride
Nitrate	pH
Potassium	Sodium
Specific Conductance	Sulfate
Total Dissolved Solids (TDS)	Turbidity

Results for the above water quality parameters are included in Appendix D, Tables 3 and 4 of this report.

4. Groundwater Elevations and Flow:

The groundwater elevation measurements of all the monitoring wells for the past monitoring events are included in Table 5 of this report. The results obtained from all the pre-existing and monitoring wells installed in 2010 indicate that the overall average groundwater elevation at Gude Landfill has decreased by 0.6 ft. from September 2016 to March 2017. Based on the groundwater elevation measurements collected from all (36) monitoring wells around the perimeter of the landfill, it appears that the groundwater flow at Gude Landfill is consistent with the topography of the Landfill itself. The groundwater appears to be flowing outward from the center toward the edges of the landfill. These outward flow directions seem to be more distinct on the southern and

eastern portion of the landfill with minor flow components to the north and northeast. In general, the groundwater flow appears to basically follow the direction of surface water around the Gude Landfill.

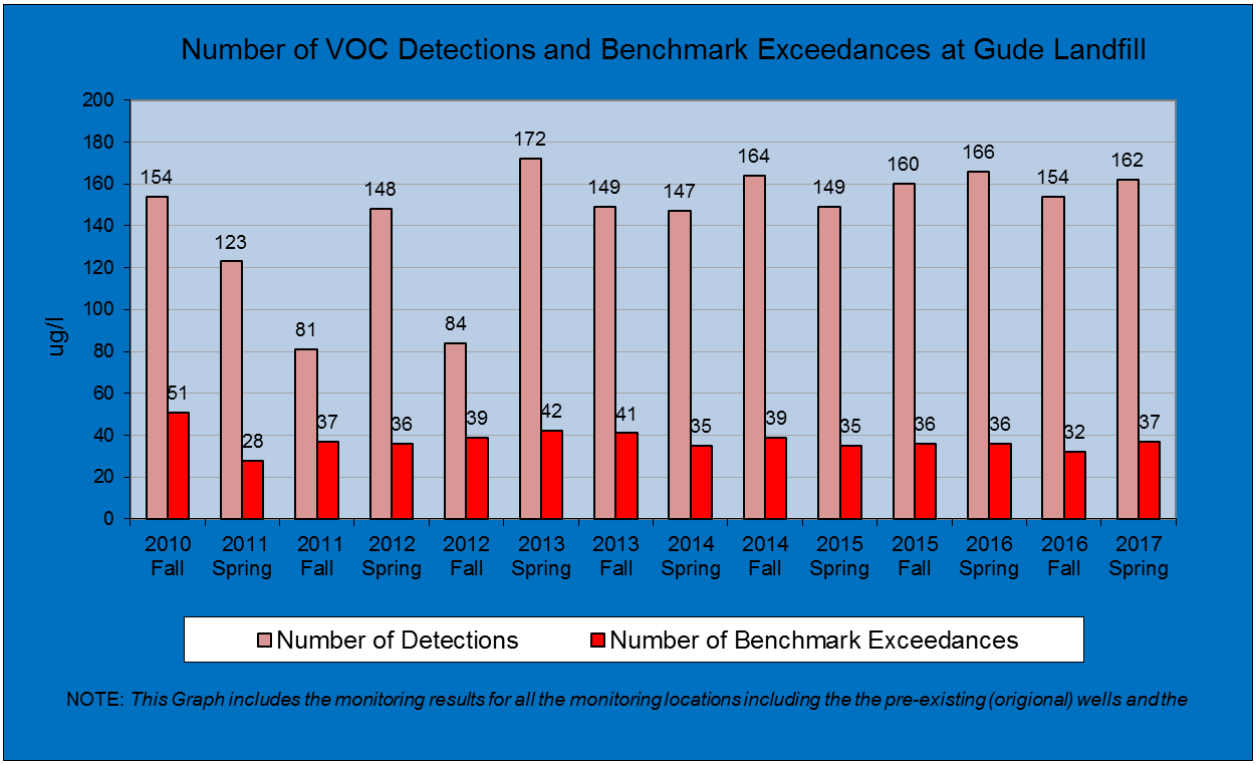
5. Conclusions/Trend Analysis:

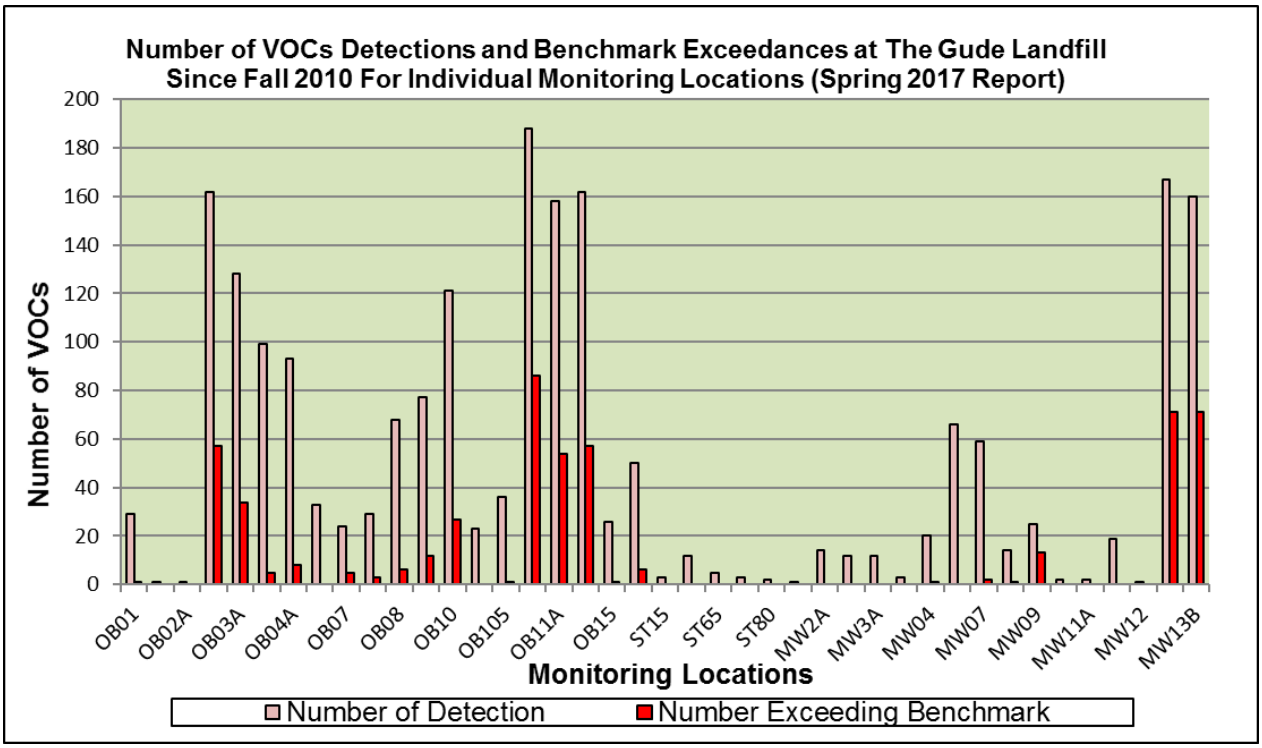
Major findings of comparing the results obtained from the latest monitoring activities (Spring 2017) and the historical data in the past several years indicate that:

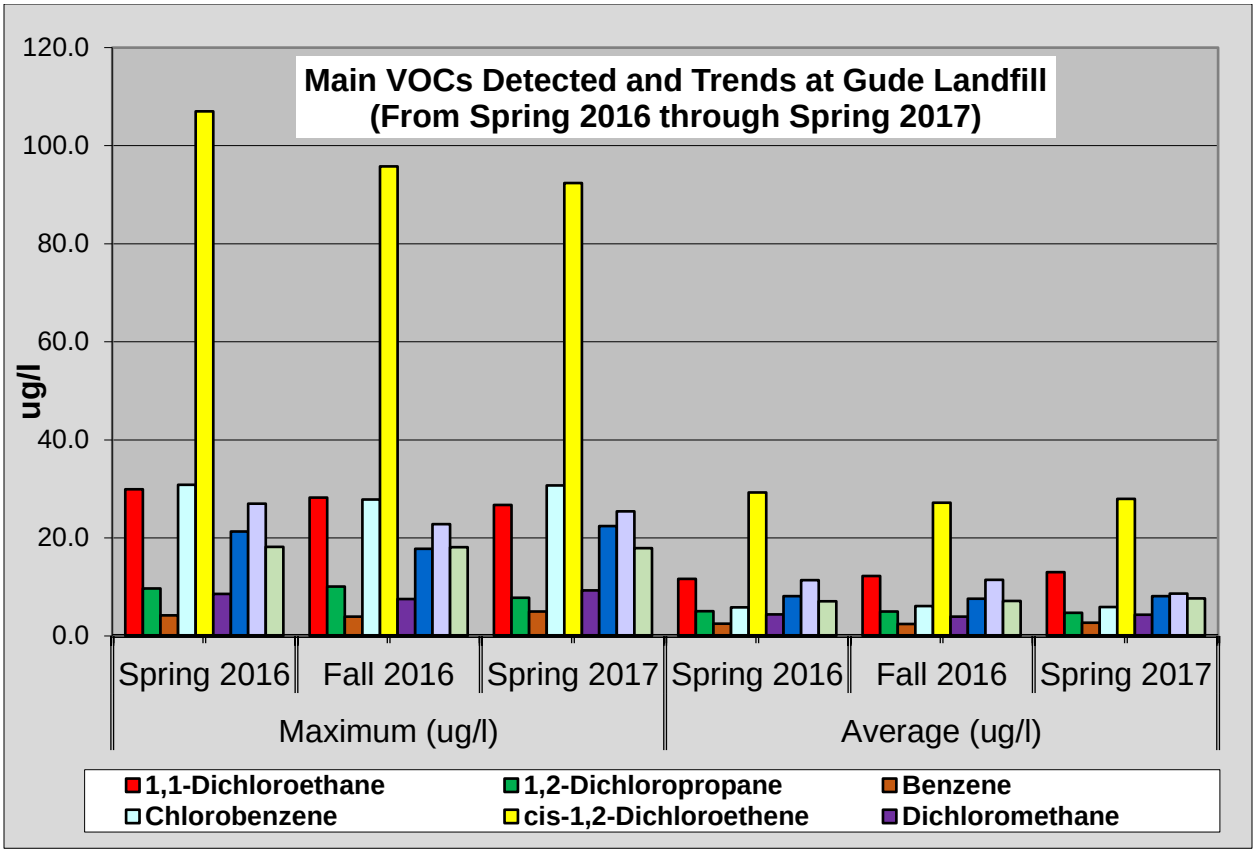
I. There are indications of some low level groundwater and surface water contamination in the vicinity of Gude Landfill, including multiple Benchmark exceedances.
II. Detected contaminants at Gude Landfill mainly involve chlorinated solvent degradation products including 1,1-dichloroethane, 1,2-dichloropropane, 1,4-dichlorobenzene, chlorobenzene, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride.
III. Historically most of the contaminants and Benchmark exceedances have been detected at OB11/OB11A/OB12 located on the south side (front side) of the landfill and observation wells OB03/OB03A and MW13A/MW13B on the north side (back side) of the landfill.

To provide an overall perspective on the quality of groundwater and surface water around the Gude Landfill, a summary of statistical trend analyses and observations are provided below and are included in Appendix F of this report. Please refer to the attached tables and diagrams for additional information.

- Groundwater flow around the landfill appears to follow the general topography of the area where the landfill is located and it follows the general surface water flow direction. The overall surface water flow in the area is towards the east and south away from the landfill.
- Most of the detected groundwater contaminants at Gude Landfill are Volatile Organic Compounds (VOCs). These low levels of VOCs detected in groundwater are generally not transported to surface waters.
- The overall number of detections per year has remained relatively constant over the past 10-year time period.
- While some detected VOC concentrations (1,2-dichloropropane in OB03) appear to be constantly exceeding Benchmark level, the concentration for other VOC (Tetrachloroethene in OB03) seem to be decreasing over the same period suggesting an ongoing VOC degradation process. Contaminants at Gude Landfill mainly involve chlorinated solvent degradation products including 1,1-Dichloroethane, 1,2-Dichloropropane, cis-1,2-Dichloroethene, Tetrachloroethene, Trichloroethene, and Vinyl Chloride.
- Since Fall 2010, most of all detections exceeding Benchmark have occurred in observation wells located on the northern and southern part of the landfill which includes OB11/OB11A/OB12 located on the south side (front side) of the landfill and observation wells OB03/OB03A and MW13A/MW13B on the north side (back side) of the landfill.


Number of VOC Detections and Benchmark Exceedances at Gude Landfill
ug/l
200
180
160
140
120
100
80
60
40
20
0
154
51
123
28
81
37
148
36
84
39
172
42
149
41
147
35
164
39
149
35
160
36
166
36
154
32
162
37
2010 Fall
2011 Spring
2011 Fall
2012 Spring
2012 Fall
2013 Spring
2013 Fall
2014 Spring
2014 Fall
2015 Spring
2015 Fall
2016 Spring
2016 Fall
2017 Spring
Number of Detections
Number of Benchmark Exceedances
NOTE: This Graph includes the monitoring results for all the monitoring locations including the the pre-existing (origional) wells and the

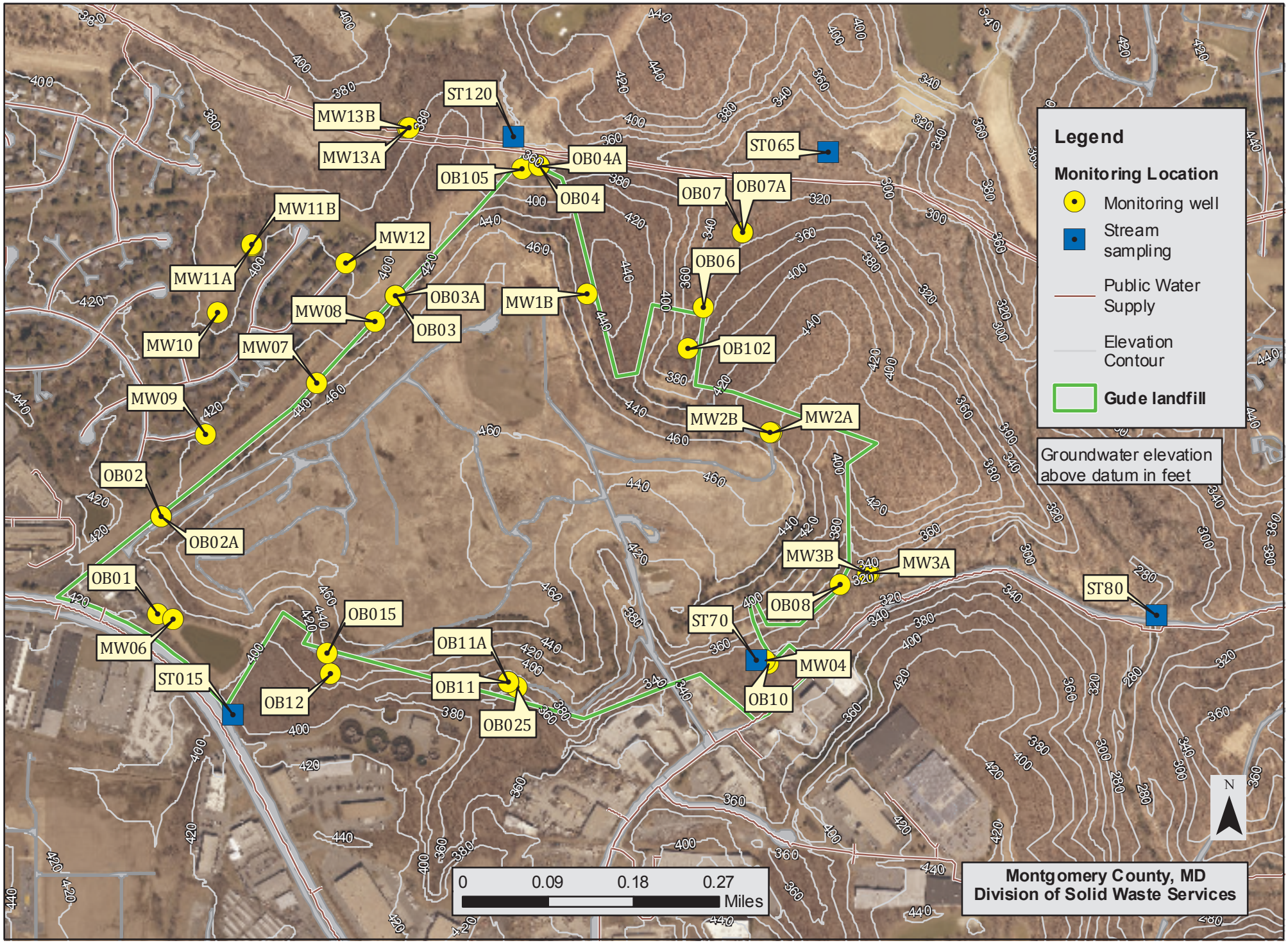

Number of VOCs Detections and Benchmark Exceedances at The Gude Landfill
Since Fall 2010 For Individual Monitoring Locations (Spring 2017 Report)
Number of VOCs
200
180
160
140
120
100
80
60
40
20
0
OB01
OB02A
OB03A
OB04A
OB07
OB08
OB10
OB105
OB11A
OB15
ST15
ST65
ST80
MW2A
MW3A
MW04
MW07
MW09
MW11A
MW12
MW13B
Monitoring Locations
Number of Detection
Number Exceeding Benchmark


Main VOCs Detected and Trends at Gude Landfill
(From Spring 2016 through Spring 2017)
120.0
100.0
80.0
60.0
40.0
20.0
0.0
ug/l
Spring 2016
Fall 2016
Spring 2017
Spring 2016
Fall 2016
Spring 2017
Maximum (ug/l)
Average (ug/l)
1,1-Dichloroethane
1,2-Dichloropropane
Benzene
Chlorobenzene
cis-1,2-Dichloroethene
Dichloromethane

Appendix A

Gude Landfill Aerial Photo and Sample Locations

Groundwater and Surface Water Monitoring Locations at Gude Landfill - Spring 2017



Appendix B

Tables of Volatile Organic Compounds

Results in (μg/l)

TABLE 1 - Volatile Organic Compounds

	Parameter	OB01	OB02	OB02A	OB03	OB03A	OB04	OB04A	OB06	OB07	OB07A	OB08	OB08A	OB10
SPRING 2017	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane	ND	ND	ND	24	26.7	ND	ND	ND	ND	ND	ND	ND	2.22
	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	ND	ND	ND	1.97	1.87	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	ND	ND	3.67	3.42	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	ND	ND	ND	**7.23**	**7.79**	ND	ND	ND	ND	ND	1.39	2.11	2.9
	1,4-Dichlorobenzene	ND	ND	ND	18.6	18.1	ND	8.79	ND	ND	1.23	ND	ND	8.88
	2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	ND	ND	ND	2.93	2.63	1.77	1.81	ND	ND	ND	ND	ND	1.99
	Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	ND	ND	ND	2.34	2.16	1.33	1.47	1.77	ND	1.02	4.77	7.41	3.26
	Chloroethane	ND	ND	ND	2.22	1.64	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	ND	ND	ND	**77.2**	**86.6**	14.8	19	1.26	1.59	2.28	12.1	19.7	37.6
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	ND	ND	ND	ND	ND	1.96	3.3	ND	ND	ND	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl-tert-butyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	ND	ND	ND	ND	ND	1.36	1.29	ND	ND	1.32	ND	ND	ND
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	ND	ND	ND	5.82	5.89	ND	ND	ND	ND	ND	ND	ND	2.17
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	1.37	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	ND	ND	ND	**10.6**	**5.01**	1.54	1.44	ND	ND	ND	ND	ND	**8.95**
	Trichlorofluoromethane	ND	ND	ND	ND	1.93	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride	ND	ND	ND	**11.1**	**11.2**	1.46	**2.2**	ND	ND	ND	1.06	**2.89**	**15.4**
	Xylene (Total)	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 1 - Volatile Organic Compounds

	Parameter	OB11	OB11A	OB12	OB15	OB25	OB102	OB105	MW1B	MW2A	MW2B	MW3A	MW3B	MW04	MW06	MW07
SPRING 2017	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane	19.5	15	23.6	5.04	1.14	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.27
	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	3.26	2.59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	3.07	2.6	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	**5.18**	4.94	**6.28**	2.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	20.9	18.1	10.3	ND	ND	1.4	2.87	ND	ND	ND	ND	ND	ND	3.6	14.5
	2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	4.23	2.33	4.96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	30.7	24.3	3.57	ND	ND	2.44	ND	ND	ND	ND	ND	ND	ND	6.7	4.06
	Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	ND	ND	ND	ND
	cis-1,2-Dichloroethene	**77.8**	**73.8**	47.4	3.27	7.39	ND	3.99	ND	ND	ND	ND	ND	1.2	10	8.46
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	**9.3**	ND	**5.76**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.36
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl-tert-butyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	**17.4**	**5.85**	**22.4**	ND	ND	ND	ND	ND	2.22	1.77	ND	ND	ND	ND	2.02
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	4.46	3.33	3.69	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	**14.1**	**15.1**	**15.4**	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.1
	Trichlorofluoromethane	1.8	ND	2.54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride	**17.9**	**15.4**	**5.8**	ND	1.26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Xylene (Total)	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 1 - Volatile Organic Compounds

	Parameter	MW08	MW09	MW10	MW11A	MW11B	MW12	MW13A	MW13B	ST15	ST65	ST70	ST80	ST120
SPRING 2017	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	14.2	10.7	ND	NS	ND	ND	ND
	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	2.05	1.97	ND	NS	ND	ND	ND
	1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	**6.14**	**5.82**	ND	NS	ND	ND	ND
	1,4-Dichlorobenzene	1.9	ND	ND	ND	ND	ND	6.2	8.95	ND	NS	ND	ND	ND
	2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Benzene	ND	ND	ND	ND	ND	ND	2.03	2.56	ND	NS	ND	ND	ND
	Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Chlorobenzene	ND	ND	ND	ND	ND	ND	1.7	1.72	ND	NS	ND	ND	ND
	Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Chloroform	ND	ND	ND	ND	ND	ND	1.5	ND	ND	NS	ND	ND	ND
	cis-1,2-Dichloroethene	1.88	ND	ND	ND	1.55	ND	**92.4**	69	ND	NS	ND	ND	1.09
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Dichloromethane	ND	ND	ND	ND	ND	ND	3.73	3.99	ND	NS	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Methyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Methyl-tert-butyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	ortho-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Tetrachloroethene	ND	**12.2**	ND	ND	4.54	ND	**17.3**	**15.6**	ND	NS	ND	ND	ND
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	3.28	2.69	ND	NS	ND	ND	ND
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Trichloroethene	ND	1.09	ND	ND	1.65	ND	**25.4**	**17.2**	ND	NS	ND	ND	ND
	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Vinyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Vinyl Chloride	ND	ND	ND	ND	ND	ND	**7.27**	**6.4**	ND	NS	ND	ND	ND
	Xylene (Total)	NT	NT	NT	NT	NT	NT	NT	NT	NT	NS	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
OB01	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane	1.85	0.75	1.33	ND	ND	ND	ND	1.09	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	NT	1	1.48	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	0.46	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	ND	0.59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	1.94	2.81	3.19	ND	ND	1.9	ND	1.64	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	ND	0.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	1.03	1.57	1.43	ND	ND	1.3	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane	ND	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	ND	0.92	0.74	ND	ND	ND	ND	1.38	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	11.8	ND	7.71	6.6	ND	6.2	ND	6.68	1.9	2.81	2.39	2.97	1.63	1.79	1.59	ND
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	ND	0.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	5.12	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	0.77	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	0.34	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	ND	0.51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	ND	0.67	0.70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	ND	0.85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate	NT	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride	ND	**2.77**	**5.09**	ND	ND	1.2	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND
	Xylene (Total)	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
OB02	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	ND	0.48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	ND	0.18	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.5	ND	ND	ND	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate	NT	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Xylene (Total)	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
OB02A	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	ND	0.33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	ND	0.65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Xylene (Total)	NT	NT	NT	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
OB03	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane	45	13.2	36.40	23	ND	23	34.4	34.3	37.8	18	29.8	24.6	31.5	29.9	28.2	24
	1,1-Dichloroethene	ND	ND	0.71	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane	ND	ND	1.52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	NT	0.83	1.92	ND	ND	1.2	ND	1.47	1.57	NT	1.29	1.06	1.51	1.54	1.69	1.97
	1,2-Dichloroethane	ND	1.24	3.84	ND	6	ND	ND	3.68	2.61	1.87	3.74	2.69	4.29	3.54	3.82	3.67
	1,2-Dichloropropane	15.8	3.6	10.10	4.1	11	6.8	12.8	10.5	15.3	5.49	8.57	6.9	9.63	8.41	8.28	7.23
	1,4-Dichlorobenzene	13.6	11.7	11.30	ND	ND	9.7	16.6	12.4	18.2	8.08	12.2	8.84	14	13.5	16.5	18.6
	2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	ND	0.12	ND	8.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	4.56	1.83	4.24	ND	5.5	1.9	ND	3.44	5.38	1.32	4.18	1.62	4.27	2.25	3.25	2.93
	Bromochloromethane	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	ND	ND	ND	3.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	2.98	7.22	2.26	5.7	2.4	3.1	ND	2.04	2.43	1.8	1.79	1.35	1.95	1.82	1.97	2.34
	Chloroethane	1.55	0.79	1.51	ND	ND	ND	ND	1.2	ND	ND	ND	ND	1.1	1.05	1.54	2.22
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	ND	5.3	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	156	31.7	117.00	38	ND	71	94.9	97.1	126	54.7	86	74	88.5	87.8	81.6	77.2
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	2.05	ND	1.71	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	ND	ND	11.00	ND	6.2	ND	ND	2.39	ND	ND	3.19	ND	ND	ND	ND	ND
	Toluene	1.49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	9.59	3.11	7.01	6.3	14	4.8	7.24	6.92	3.98	3.72	6.61	4.59	6.41	6	6.09	5.82
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	131	17.4	81.60	21	82	47	75.6	57.9	87.4	24.2	45.4	21.9	35.2	14.6	21	10.6
	Trichlorofluoromethane	4.88	ND	ND	ND	8.3	ND	ND	ND	ND	ND	ND	ND	1.45	1.77	2.09	ND
	Vinyl Acetate	NT	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride	30.5	7.84	28.00	11	41	14	17.5	17.4	16.8	8.89	18.2	11.1	12.8	13.2	12.2	11.1
	Xylene (Total)	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
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TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
OB03A	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane	25.3	3.23	32.40	ND	ND	11	30.5	12.5	32.5	7.46	21.2	3.77	19.5	7.19	17.2	26.7
	1,1-Dichloroethene	ND	ND	0.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	NT	0.42	0.81	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	1.87
	1,2-Dichloroethane	ND	ND	3.30	ND	3.7	ND	ND	1.47	2.76	ND	2.66	ND	2.37	ND	2.1	3.42
	1,2-Dichloropropane	**9.1**	0.92	**10.80**	ND	**8.1**	2.9	**10.5**	3.67	**12.8**	2.25	**6.24**	ND	**5.64**	2	4.64	**7.79**
	1,4-Dichlorobenzene	12.6	5.92	9.28	ND	ND	6.3	14.1	5.64	16	3.82	9.01	2.09	8.08	4.08	5.43	18.1
	2-Butanone	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	ND	0.13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	4.19	1.2	4.06	ND	4.7	1.3	ND	1.51	4.53	ND	3.33	ND	2.32	ND	1.44	2.63
	Bromochloromethane	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	5.52	5.21	2.78	ND	3.3	3.4	ND	2.46	2.78	1.83	2.1	ND	1.62	1.41	ND	2.16
	Chloroethane	1.21	0.33	1.31	ND	ND	ND	ND	ND	1.43	ND	ND	ND	ND	ND	ND	1.64
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	1.54	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	**84.9**	6.23	**98.10**	11	ND	33	**94.6**	34.1	**94.8**	22.9	56.2	11.2	53.2	21	49.9	**86.6**
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	1.39	1.15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	**7.11**	ND	**17.80**	ND	ND	ND	ND	ND	ND	ND	1.18	ND	ND	ND	ND	ND
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	6.06	1.01	5.93	ND	9	2.3	6.13	2.69	5.83	1.46	4.06	ND	3.83	1.46	3.01	5.89
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	**66.7**	2.71	**19.30**	ND	**56**	**18**	**64.8**	**18**	**64**	4.7	**27.2**	1.87	**20.7**	3.36	**7.06**	**5.01**
	Trichlorofluoromethane	3.08	ND	2.47	ND	6.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	1.93
	Vinyl Acetate	NT	0.01	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride	**22.9**	1.99	**23.50**	ND	**31**	ND	**15.8**	**7.33**	**12.5**	**4.26**	**11.7**	**2.07**	**8.16**	**3.62**	**7.12**	**11.2**
	Xylene (Total)	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
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TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
OB04	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane	ND	0.35	ND	22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane	ND	0.45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	NT	0.46	ND	ND	ND	ND	ND	1.01	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	ND	0.52	ND	ND	ND	ND	ND	1.15	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	6.06	5.92	2.91	ND	ND	5.9	5.7	14.7	5.2	5.82	5.31	5.97	5.85	7.55	5.38	ND
	2-Butanone	ND	0.41	0.65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	ND	0.49	11.90	6.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	1.62	1.6	2.04	2.2	ND	1.6	ND	3.73	1.54	1.61	1.73	1.98	1.86	2.12	1.7	1.77
	Bromochloromethane	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	1.09	1.18	0.90	ND	ND	1.4	ND	2.85	ND	1.38	1.39	1.56	1.53	1.7	1.3	1.33
	Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	ND	7.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	17	16.8	8.32	67	ND	14	12.4	27.7	ND	12.4	12.4	13.2	13.3	15.3	13.4	14.8
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	1.93	1.72	1.03	**7.7**	ND	ND	ND	3.48	1.73	1.65	1.66	2.06	1.8	2.13	1.8	1.96
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	1.25	1.69	0.70	**13**	ND	2	ND	3.93	1.24	1.63	1.39	1.59	1.45	1.83	1.27	1.36
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	ND	0.45	ND	5.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	1.66	1.51	1.08	**17**	ND	1.6	ND	3.42	1.76	1.38	1.35	1.36	1.49	1.57	1.3	1.54
	Trichlorofluoromethane	ND	ND	ND	3.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride	1.53	1.26	**2.16**	ND	ND	ND	ND	**3.03**	1.71	1.4	1.49	1.57	1.41	1.68	1.35	1.46
	Xylene (Total)	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
OB04A	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	NT	0.47	ND	ND	ND	ND	ND	1.06	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	ND	0.57	0.51	ND	ND	ND	ND	1.33	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	7.33	6.97	4.66	ND	ND	7.6	6.94	15.9	6.23	7.07	6.83	7.95	7.66	9.95	4.69	8.79
	2-Butanone	ND	ND	0.78	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	ND	ND	18.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	1.68	1.65	2.45	ND	2.1	1.6	ND	3.5	1.94	1.57	1.7	1.97	1.86	2.15	1.42	1.81
	Bromochloromethane	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	1.14	1.14	0.87	ND	ND	1.3	ND	2.56	ND	1.25	1.37	1.34	1.33	1.63	ND	1.47
	Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	21.8	21.7	8.54	ND	ND	20	16.4	36.8	19.4	16	15.6	17.8	17.3	20.2	15.8	19
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	3.38	3.18	3.39	ND	4.4	ND	ND	**6.57**	ND	2.88	2.8	2.74	3.43	3.85	2.98	3.3
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	1.23	1.52	0.60	ND	1.3	1.9	ND	3.36	ND	1.35	1.14	1.39	1.36	1.65	ND	1.29
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	ND	0.55	ND	ND	2.2	ND	ND	1.22	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	1.83	1.71	1.07	ND	1.3	1.9	ND	3.39	ND	1.47	1.27	1.47	1.63	1.66	1.37	1.44
	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate	NT	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride	**2.12**	1.83	**2.78**	ND	ND	ND	ND	**4.37**	**2.26**	1.78	**2.35**	**2.06**	1.98	**2.4**	1.68	**2.2**
	Xylene (Total)	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
OB06	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	1.43	ND	0.93	ND	ND	7	ND	1.66	1.21	1.42	1.26	1.35	1.12	1.33	1.29	ND
	2-Butanone	ND	0.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	ND	0.14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	ND	0.66	0.56	ND	ND	ND	ND	1.4	1.21	1.41	1.05	1.3	1.3	1.61	1.48	1.77
	Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	0.91	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	2.12	1.82	1.64	ND	ND	1.6	ND	1.65	ND	1.39	1.28	1.21	1.21	1.34	1.12	1.26
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	ND	0.68	ND	ND	ND	ND	ND	1.16	ND	ND	ND	ND	ND	ND	ND	ND
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	ND	0.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Xylene (Total)	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
OB07	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene	ND	ND	ND	ND	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane	ND	0.54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	NT	0.47	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	ND	ND	ND	ND	5.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	ND	0.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	ND	ND	ND	ND	7.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	1.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	1.63	1.3	1.48	ND	ND	1.7	ND	1.7	1.66	1.7	1.67	1.53	1.64	1.83	1.5	1.59
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	ND	1.23	1.61	ND	23	ND	ND	1.52	ND	1.19	1.2	ND	1.14	1.07	ND	ND
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	ND	0.49	0.72	ND	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Xylene (Total)	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
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TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
OB07A	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	ND	0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23
	2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.02
	Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	1.20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	3	1.66	1.80	ND	ND	ND	ND	2.18	1.58	2.17	1.55	1.74	1.73	1.37	1.26	2.28
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	ND	ND	ND	ND	**5.8**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	1.81	1.94	1.82	2	**23**	2	ND	2.06	1.99	1.83	1.4	1.2	1.43	1.34	1.45	1.32
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	ND	0.64	0.88	ND	**21**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate	NT	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Xylene (Total)	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
OB08	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane	1.2	0.46	0.87	ND	ND	ND	ND	ND	1.38	ND	1.49	ND	ND	ND	ND	ND
	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane	ND	0.54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	NT	0.59	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	0.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	1.16	1.19	0.78	1.2	ND	1.6	ND	ND	1.54	1.65	1.6	1.2	1.02	1.24	1.26	1.39
	1,4-Dichlorobenzene	2.15	2.92	1.84	ND	ND	4	ND	1.01	1.59	3.66	3.52	2.4	2.39	2.7	3.4	ND
	2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	2.7	0.21	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	ND	0.63	0.66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane	ND	0.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	1.95	3.13	3.31	6.1	ND	5.7	4.41	1.52	4.26	4.87	6.88	3.75	4.01	3.97	4.91	4.77
	Chloroethane	ND	0.41	0.55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	ND	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	10.4	10.3	8.39	8.9	ND	17	14.6	8.33	18.4	15.9	20.8	10.6	10.4	10.6	11	12.1
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	ND	0.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	0.44	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	ND	0.87	0.66	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	ND	0.42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate	NT	0.02	ND	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride	**2.35**	**2.91**	**3.18**	ND	ND	**4**	**3.68**	1.78	**4.41**	**3.53**	**3.83**	1.8	1.55	ND	1.05	1.06
	Xylene (Total)	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
OB08A	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane	1.47	0.44	0.97	ND	ND	ND	ND	ND	1.54	1.15	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	NT	0.32	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	0.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	2.02	1.47	1.10	ND	ND	2	ND	1.08	3.09	2.11	1.8	1.86	2.06	2.14	1.95	2.11
	1,4-Dichlorobenzene	3.97	3.34	2.83	ND	ND	4.7	4.19	1.14	1.91	4.78	4.48	4.19	3.92	5.87	5.64	ND
	2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	1.03	0.89	0.99	ND	ND	1.1	ND	ND	ND	ND	1.07	1.06	1.03	1.08	ND	ND
	Bromochloromethane	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	3.38	3.93	4.22	7.3	ND	6.6	5.04	1.54	5.3	5.81	7.75	7.48	7.05	8.56	8.05	7.41
	Chloroethane	ND	0.47	0.62	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	0.89	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	21.2	13.4	14.10	12	ND	21	19.6	9.61	26.2	20.7	12.1	11.1	11.9	15.1	15.1	19.7
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	0.42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	1.37	0.99	0.89	ND	ND	ND	ND	ND	1.98	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	1.29	0.64	0.51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate	NT	0.01	ND	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride	**6.5**	**4.11**	**4.76**	ND	ND	**5.4**	**4.99**	**2.31**	**6.38**	**4.86**	**4.99**	**3.39**	**2.6**	**2.89**	**2.56**	**2.89**
	Xylene (Total)	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
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TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
OB10	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane	3.49	ND	5.60	ND	ND	ND	4.06	7.23	4.91	3.33	3.73	2.86	3.45	2.68	2.48	2.22
	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	NT	ND	ND	ND	ND	ND	ND	1.02	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	ND	0.64	ND	ND	ND	ND	1.43	ND	ND	ND	ND	1.01	ND	ND	ND
	1,2-Dichloropropane	2.53	1.26	2.65	ND	ND	2.8	ND	**5.86**	2.36	2.69	3.25	2.86	4.26	3.31	3.19	2.9
	1,4-Dichlorobenzene	4.84	2.1	5.54	ND	ND	5	7.09	12.9	9.31	7.07	8.74	6.93	10.4	8.46	9.39	8.88
	2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	1.67	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	1.72	0.82	2.04	ND	2.4	1.6	ND	3.49	2.16	1.76	2.26	1.89	2.43	2.23	2.16	1.99
	Bromochloromethane	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane	ND	0.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	ND	ND	ND	2.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	ND	0.32	0.98	ND	ND	1.2	ND	3.16	1.2	2	2.77	2.25	3.46	3.18	3.57	3.26
	Chloroethane	ND	0.24	0.68	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	ND	6.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	17.9	11.5	24.00	9.6	ND	24	25.6	51.2	33.9	29	36.7	30.8	46.1	38.8	39	37.6
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	1.03	2.86	1.95	ND	2.3	1.8	ND	3.43	ND	1.75	1.88	1.26	ND	ND	ND	ND
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	2.39	1.18	3.94	ND	3.9	ND	ND	5.16	2.22	2.61	3.11	2.61	3.05	2.43	2.39	2.17
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	**13.3**	**5.27**	**13.40**	ND	**11**	**12**	**14.4**	**25.4**	**17.9**	**12.6**	**13.1**	**10**	**15.6**	**11.9**	**10.2**	**8.95**
	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride	**6.07**	**2.39**	**11.70**	ND	**17**	**9**	**12.5**	**26.6**	**14.4**	**15.2**	**19.2**	**17.1**	**23.5**	**18.2**	**18.1**	**15.4**
	Xylene (Total)	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
OB102	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	ND	1.6	1.12	ND	ND	1.4	ND	ND	1.14	1.27	1.55	1.3	1.62	1.37	ND	1.4
	2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<5	ND	ND
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	ND	ND	0.53	ND	ND	ND	ND	ND	ND	ND	ND	8	ND	<5	ND	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane	ND	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	2.27	1.7	1.51	ND	ND	2.6	ND	ND	2.14	2.14	2.22	2.36	2.74	2.38	1.88	2.44
	Chloroethane	ND	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	1.38	1.13	0.65	ND	ND	ND	ND	ND	1.26	ND	ND	ND	ND	ND	ND	ND
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	0.47	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Xylene (Total)	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
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TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
OB105	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	ND	ND	0.55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	3.38	0.72	3.32	ND	ND	3.9	4.51	7.03	ND	3.66	4.22	1.78	2.37	3.05	1.88	2.87
	2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	ND	0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	1.27	ND	31.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	ND	ND	0.90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	ND	ND	0.55	ND	ND	ND	ND	1.24	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane	ND	ND	0.89	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	11.1	0.97	ND	ND	ND	14	15	24.6	ND	11.4	11.6	3.17	5.54	7.11	6.64	3.99
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	ND	ND	0.77	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	1.25	ND	1.38	ND	2.1	1.4	ND	2.96	ND	1.47	1.46	ND	ND	ND	ND	ND
	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride	1.51	ND	**3.03**	ND	ND	ND	ND	1.66	ND	ND	ND	ND	ND	ND	ND	ND
	Xylene (Total)	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

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TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
OB11	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane	33.4	20.4	15.10	ND	ND	21	22.4	22.1	21.2	21.6	19.4	18.8	18.1	17.9	15.6	19.5
	1,1-Dichloroethene	1.03	0.45	0.93	**25**	**30**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	NT	1.75	1.51	3.9	ND	3	ND	2.69	1.41	NT	3	2.86	2.89	3.11	2.85	3.26
	1,2-Dichloroethane	4.72	ND	3.94	2.8	ND	ND	ND	3.66	3.57	3.64	3.78	3.07	3.42	3.16	2.91	3.07
	1,2-Dichloropropane	**8.15**	4.9	**6.10**	**5.1**	**7.2**	**6.3**	ND	**6.13**	**6.5**	**6.26**	**6.11**	**5.57**	**5.53**	**5.67**	4.83	**5.18**
	1,4-Dichlorobenzene	14.6	9.13	9.85	ND	ND	17	14.8	14.9	13.7	16.9	17.5	16.8	16.3	18.6	18	20.9
	2-Butanone	ND	ND	0.95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	ND	ND	24.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	**9.37**	4.32	**8.29**	**5.2**	**12**	**6.9**	ND	**6.02**	**6.17**	**5.72**	4.88	4.78	4.32	4.13	3.6	4.23
	Bromochloromethane	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	50	28.3	34.30	52	ND	41	34.5	34.6	31	33.4	32.2	30.2	30.3	30.8	27.8	30.7
	Chloroethane	ND	ND	0.57	ND	17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	ND	2.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	**184**	**123**	**73.60**	ND	ND	**160**	**94.8**	64.16	**135.88**	**131**	**90.5**	**103.4**	**79**	**107**	**95.8**	**77.8**
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	**30.6**	7.21	**24.20**	**16**	**18**	**12**	**13**	**12.3**	**12**	**10.6**	**9.6**	**8.58**	**8.71**	**8.56**	7.51	**9.3**
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	2.67	ND	1.65	5.6	ND	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	**43.9**	**35.6**	**19.60**	**26**	**44**	**47**	**40.1**	**36.9**	**32.2**	**32.3**	**27.1**	**24**	**21.7**	**21.3**	**16.8**	**17.4**
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	6.37	3.19	2.78	4.9	3.3	4.6	ND	4.31	4.94	4.41	4	3.58	3.79	3.95	3.3	4.46
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	**51.5**	**31.2**	**33.90**	**28**	**37**	**39**	**34.2**	**32.6**	**34.6**	**29.6**	**27.6**	**25.5**	**26.3**	**22.9**	**18.8**	**14.1**
	Trichlorofluoromethane	3.98	1.61	3.78	6.8	ND	3.3	ND	2.47	2.04	2.33	2.09	2	1.6	1.61	1.33	1.8
	Vinyl Acetate	NT	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride	**20.3**	**7.43**	**20.90**	**14**	ND	**13**	**14.1**	**13.9**	**14**	**14.6**	**15.7**	**15.4**	**14.6**	**14.5**	**13.5**	**17.9**
	Xylene (Total)	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
OB11A	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane	27.8	16.8	16.40	ND	ND	15	15.8	15.2	16.4	13.1	15.3	15.9	15.1	16.7	14.4	15
	1,1-Dichloroethene	ND	ND	1.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	ND	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	NT	1.67	1.10	2.8	ND	2.1	ND	1.87	2.05	NT	2.21	2.19	2.05	2.7	2.45	2.59
	1,2-Dichloroethane	ND	2.7	1.88	ND	ND	ND	ND	2.48	3.56	2.09	2.41	2.5	2.68	2.66	2.41	2.6
	1,2-Dichloropropane	7.2	4.18	4.06	3.7	ND	4.6	ND	4.08	3.75	3.9	4.39	4.48	4.7	5.1	4.46	4.94
	1,4-Dichlorobenzene	15.2	13.4	9.32	ND	ND	15	13.7	13.8	15	13.5	16.3	15.2	12.2	18	17	18.1
	2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	ND	0.12	22.80	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	7.51	4.19	3.59	3.5	ND	4.3	ND	3.73	4.13	2.94	3.07	2.93	2.47	2.59	2.31	2.33
	Bromochloromethane	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	36.9	21.3	20.60	29	ND	24	22.3	20.5	21.1	17.6	23	21.4	20.2	25.2	23.3	24.3
	Chloroethane	ND	0.39	0.89	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	168	113	81.60	76	ND	100	89	78.6	96.5	68.5	74	75.8	74.2	74.8	68.1	73.8
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	1.77	2.4	5.45	1.8	ND	5.9	ND	ND	1.11	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	2.49	ND	2.00	3.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	33.8	26.3	10.70	14	ND	27	22.8	19.1	19.7	12.8	13.2	10.3	6.78	8.6	6.69	5.85
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	5.45	3.07	3.18	ND	ND	3.1	ND	3.02	3.91	2.68	3.14	2.94	2.93	3.44	3.06	3.33
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	42.4	26.1	21.60	17	ND	28	24.7	24	28.8	20.1	22	21.5	18.6	20.9	15.8	15.1
	Trichlorofluoromethane	2.14	1.26	2.53	2.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate	NT	0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride	15.4	10.2	31.60	11	ND	12	13.1	12.9	14.9	11.1	15	14.7	14	15.9	14.8	15.4
	Xylene (Total)	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
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TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
OB12	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane	22.7	10.6	39.20	23	ND	21	18.3	22.6	15.1	21.4	21	20.2	18.6	21.2	16.7	23.6
	1,1-Dichloroethene	ND	ND	0.54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	0.63	1.17	ND	ND	ND	ND	1.07	ND	1.07	1.55	1.07	1.78	1.4	1.49	1.7
	1,2-Dichloropropane	**5.55**	2.93	**6.29**	3.3	ND	**5.8**	**9.71**	**6.48**	**8.07**	**7.09**	**8.23**	**7.65**	**11.6**	**9.68**	**10.1**	**6.28**
	1,4-Dichlorobenzene	4.18	2.83	4.51	ND	ND	5.4	6.4	6.13	4.3	7.28	8.46	6.36	10	9.23	8.06	10.3
	2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	ND	0.59	0.70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	2.63	1.89	3.46	2.2	ND	3.5	ND	3.61	3.27	3.82	3.95	3.73	4.41	4.23	3.95	4.96
	Bromochloromethane	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	1.21	0.92	1.46	ND	ND	2.1	ND	2.27	1.23	2.69	2.82	2.65	3.38	3.4	3.02	3.57
	Chloroethane	1.39	0.87	1.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	ND	2.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	21.4	12.4	26.20	14	ND	23	32.1	22.5	30.6	24.9	31.3	24.5	43.2	31.6	38.4	47.4
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	**8.27**	**11.3**	**8.19**	**10**	ND	ND	**5.01**	**7.93**	ND	**6.3**	4.44	**5.34**	4.73	**5.34**	3.84	**5.76**
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	0.85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	**15.4**	**20**	**17.10**	**12**	1.8	**22**	**26.5**	**22.3**	**14.4**	**20.8**	**18.5**	**15.6**	**26.2**	**20.7**	**17.8**	**22.4**
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	1.91	1.62	2.44	1.8	ND	2.5	ND	2.55	2.09	2.81	2.91	2.5	2.65	3.13	2.51	3.69
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	**18.1**	**11.6**	**20.30**	**9.4**	ND	**17**	**24.9**	**16.7**	**16**	**16.7**	**18.3**	**15**	**28.9**	**19.7**	**20.3**	**15.4**
	Trichlorofluoromethane	2.42	1.8	3.80	4.5	ND	2.2	ND	2.17	1.74	1.87	2.21	1.47	2.47	1.92	2.09	2.54
	Vinyl Acetate	NT	0.01	ND	6.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride	**6.3**	**7.32**	**6.22**	ND	ND	**6.4**	ND	**6.64**	**2.95**	**5.7**	**5.66**	**5.76**	**3.84**	**6.39**	**3.88**	**5.8**
	Xylene (Total)	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

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TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
OB15	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane	4.62	1.08	12.00	2.3	ND	3.1	ND	1.56	3.73	ND	1.59	ND	1	ND	1.64	5.04
	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.36
	1,4-Dichlorobenzene	ND	0.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	ND	0.61	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	ND	ND	ND	ND	ND	3.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane	ND	0.05	0.98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	1.51	1.18	1.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.02	3.27
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	ND	0.48	0.54	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	ND	0.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	ND	2.31	1.23	1.1	ND	2.2	ND	1.18	2.11	ND	ND	ND	ND	ND	ND	1.7
	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate	NT	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride	**3.92**	**3.55**	**10.20**	ND	ND	1.9	ND	ND	1.87	ND	ND	ND	ND	ND	ND	ND
	Xylene (Total)	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
OB25	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane	1.13	0.63	1.11	ND	ND	ND	ND	ND	2.16	ND	1.04	ND	ND	1.42	1.77	1.14
	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane	ND	ND	**143**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	ND	0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	3.16	0.71	3.80	ND	ND	3.7	3.3	ND	6.84	ND	3.36	ND	1.15	1.49	1.37	ND
	2-Butanone	ND	0.45	0.87	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	ND	0.82	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.99	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	ND	ND	2.11	ND	ND	ND	ND	ND	1.43	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	1.93	0.47	4.50	ND	ND	ND	ND	ND	7.75	ND	3.13	ND	2.15	1.56	1.64	ND
	Chloroethane	ND	0.17	0.69	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	7.5	4.52	6.82	ND	ND	4.9	9.55	ND	19.5	ND	7.38	3.14	7.14	9.22	12	7.39
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	ND	ND	0.86	ND	ND	3.8	ND	1.4	3.92	ND	ND	ND	ND	ND	ND	ND
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	1.66	0.81	2.24	ND	ND	2.1	ND	ND	ND	ND	ND	ND	2.07	ND	ND	ND
	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride	**2.61**	0.38	**4.04**	ND	ND	ND	ND	ND	**3.47**	ND	**2.21**	ND	**2.78**	1.43	**3.79**	1.26
	Xylene (Total)	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
ST15	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	3.65	ND	ND	ND	ND	ND	NS	ND	ND	ND
	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	NS	ND	ND	ND
	1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	1,2-Dichlorobenzene	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NS	ND	ND	ND
	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	1,4-Dichlorobenzene	ND	0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	2-Butanone	ND	ND	0.56	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Acetone	ND	0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Bromochloromethane	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NS	ND	ND	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	cis-1,2-Dichloroethene	ND	0.78	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Dichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	ortho-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Trichloroethene	ND	1.38	ND	ND	ND	ND	ND	1.5	ND	ND	ND	ND	NS	ND	ND	ND
	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Vinyl Acetate	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
	Xylene (Total)	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NS	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
ST120	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	ND	0.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	ND	0.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	ND	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	0.87	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	1.54	0.57	1.26	ND	ND	ND	ND	1.3	2.26	ND	1.33	ND	1.13	ND	ND	1.09
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	ND	ND	1.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	ND	0.27	0.90	ND	ND	ND	ND	ND	1.01	ND	ND	ND	ND	ND	ND	ND
	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Xylene (Total)	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
ST65	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	NS	ND	NS	NS
	1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	1,2-Dichlorobenzene	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NS	ND	NS	NS
	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	1,4-Dichlorobenzene	ND	0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	Acetone	1.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.15	NS	5.88	NS	NS
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	Bromochloromethane	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NS	ND	NS	NS
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	Bromomethane	ND	0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	Chloromethane	ND	ND	0.81	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	Dichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	ortho-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	para-Xylene & meta-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	Toluene	ND	ND	ND	ND	ND	1.6	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	Vinyl Acetate	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS
	Xylene (Total)	NT	NT	NT	ND	ND	3.6	NT	NT	ND	NT	NT	NT	NS	NT	NS	NS

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
ST70	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	ND	0.19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane	ND	0.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	ND	ND
	Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	1.19	4.27	1.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Xylene (Total)	NT	NT	NT	ND	ND	2.2	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
ST80	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	ND	0.69	1.49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Xylene (Total)	NT	NT	NT	ND	ND	1.6	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
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TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
MW1B	1,1,1,2-Tetrachloroethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane			NT	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene			NT	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone			NT	ND	ND	ND	ND	ND	ND	ND	ND	10	ND	ND	ND	ND
	Acrylonitrile			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane			NT	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,3-Dichloropropene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene			NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene			NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Toluene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichlorofluoromethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Xylene (Total)			NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
MW2A	1,1,1,2-Tetrachloroethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane			NT	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene			NT	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone			NT	ND	ND	ND	ND	40.8	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane			NT	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,3-Dichloropropene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene			NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene			NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene			NT	4	2.5	2.2	3.3	ND	2.45	3.84	2.02	1.85	2.02	2.79	2.04	2.22
	Toluene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene			NT	ND	ND	ND	ND	ND	ND	1.51	ND	ND	ND	ND	ND	ND
	Trichlorofluoromethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Xylene (Total)			NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
MW2B	1,1,1,2-Tetrachloroethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane			NT	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene			NT	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane			NT	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,3-Dichloropropene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene			NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene			NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene			NT	1.9	3	3.2	3.27	ND	2.57	3.93	2.32	2.18	2.28	2.51	1.28	1.77
	Toluene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichlorofluoromethane			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride			NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Xylene (Total)			NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
MW3A	1,1,1,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane			ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane			ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform			1.46	1.5	1.6	1.8	ND	1.15	1.64	2.5	2.19	1.44	1.28	ND	1.14	1.01
	Chloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene			ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene			ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Toluene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichlorofluoromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Xylene (Total)			NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
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TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
MW3B	1,1,1,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane			ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.17	ND	ND
	Acrylonitrile			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromodichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene			1.11	ND	ND	ND	ND	ND	ND	ND	ND	1.02	ND	ND	ND	ND
	cis-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene			ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene			ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Toluene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichlorofluoromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Xylene (Total)			NT	ND	ND	ND	NT	NT	ND	ND	NT	NT	NT	NT	NT	NT

ND: Not Detected
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TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
MW04	1,1,1,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane			ND	9.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane			ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone			ND	9.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene			ND	1.1	2.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane			ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene			ND	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane			ND	2.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene			ND	13	ND	ND	ND	ND	1.7	ND	ND	1.25	ND	1.18	1.04	1.22
	cis-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane			ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.07	ND	ND	ND
	ortho-Xylene			ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene			ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene			ND	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Toluene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene			ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene			ND	**5.6**	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichlorofluoromethane			ND	ND	14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride			ND	ND	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Xylene (Total)			NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
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TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
MW06	1,1,1,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane			6.86	ND	ND	3.3	ND	2.79	ND	2.03	1.68	1.24	1.15	1	ND	ND
	1,1-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane			ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane			1.84	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane			2.37	ND	ND	ND	ND	1.15	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene			6.64	ND	ND	ND	6.24	4.53	3.99	4.99	4.42	3.27	3.92	4.43	1.34	3.63
	2-Butanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.6	8.84	ND
	Acrylonitrile			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene			0.74	ND	ND	6.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane			ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene			5.77	7.1	6.1	ND	6.56	5.03	4.03	4.94	6.19	5.17	7.9	8.02	3.75	6.67
	Chloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene			33.20	ND	ND	23	18.1	15.3	15.6	11.2	11.4	11.2	12.9	13.4	7.86	10.3
	cis-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane			0.56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether			5.16	ND	ND	3.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene			ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene			ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Toluene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene			2.63	ND	2.2	1.2	ND	1.01	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene			1.19	ND	ND	ND	ND	ND	1.26	ND	ND	ND	ND	ND	ND	ND
	Trichlorofluoromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride			ND	ND	ND	2	ND	1.65	ND	ND	1.62	1.38	1.42	1.41	ND	ND
	Xylene (Total)			NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
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TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
MW07	1,1,1,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	ND	1.27
	1,1-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane			ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene			ND	ND	ND	ND	ND	1.69	ND	7.54	10.6	1.22	3.39	18.2	2.94	14.5
	2-Butanone			0.73	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone			4.74	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	28.4	ND	ND
	Acrylonitrile			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene			ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	1.29	ND	ND
	Bromochloromethane			ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide			2.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	3.35	ND	ND	4.31	ND	4.06
	Chloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane			0.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene			ND	ND	ND	ND	5.12	3.38	3.45	6.65	5.18	2.05	1.54	8.4	7.77	8.46
	cis-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane			ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	1.79	ND	2.36
	Ethylbenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene			ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene			ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene			0.54	ND	3	3.2	3.56	**5.26**	4.39	4.64	1.97	3.79	2.22	2.34	1.02	2.02
	Toluene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene			0.52	**11**	3	1.3	3.58	2.21	2.62	2.37	ND	1.37	ND	2.17	ND	2.1
	Trichlorofluoromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride			ND	ND	ND	ND	ND	ND	ND	ND	1.09	ND	ND	1.25	ND	ND
	Xylene (Total)			NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

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TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
MW08	1,1,1,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane			ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene			ND	ND	ND	ND	4.03	1.45	ND	ND	ND	ND	ND	ND	ND	1.9
	2-Butanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone			1.41	8.6	ND	ND	ND	ND	ND	ND	ND	10.2	ND	ND	ND	ND
	Acrylonitrile			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane			ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide			ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene			0.51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane			1.98	3.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.88
	cis-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene			ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene			ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Toluene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene			ND	ND	2.8	ND	**5.37**	1.24	ND	ND	ND	ND	ND	ND	ND	ND
	Trichlorofluoromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Xylene (Total)			NT	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
MW09	1,1,1,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane			ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone			ND	22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene			ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane			ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene			ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene			ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene			**8.72**	5	**16**	**14**	**13.6**	**16.4**	**12.9**	**16.5**	**16.9**	**5.1**	**17.1**	**9.16**	**9.71**	**12.2**
	Toluene			ND	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene			0.73	ND	ND	ND	ND	1.11	ND	ND	1.78	ND	2.03	1.04	1.17	1.09
	Trichlorofluoromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Xylene (Total)			NT	1.3	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
MW10	1,1,1,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane			ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone			ND	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane			ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane			ND	5.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene			ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene			ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Toluene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichlorofluoromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Xylene (Total)			NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
MW11A	1,1,1,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane			ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	1.01	ND	ND	ND	ND	ND
	2-Butanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane			ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene			ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene			ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene			ND	ND	ND	ND	ND	ND	ND	ND	1.36	ND	ND	ND	ND	ND
	Toluene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichlorofluoromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Xylene (Total)			NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
MW11B	1,1,1,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane			ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane			ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.15	1.44	1.4	1.55
	cis-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene			ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene			ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene			0.97	ND	ND	2.1	ND	2.74	2.42	3.01	3.83	3.05	3.33	4.58	3.24	4.54
	Toluene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.17	1.43	1.13	1.65
	Trichlorofluoromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Xylene (Total)			NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
MW12	1,1,1,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane			ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane			ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane			ND	4.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene			ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene			ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Toluene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichlorofluoromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Xylene (Total)			NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
MW13A	1,1,1,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane			17.90	25	ND	16	15.6	19	19.9	15.8	13.7	16.3	13	15.4	13.4	14.2
	1,1-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane			ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane			1.86	ND	ND	ND	ND	2.35	1.74	2.06	ND	2.23	2.06	2.19	1.95	2.05
	1,2-Dichloropropane			4.80	**6.6**	4.4	**5.4**	**5.64**	**6.94**	3.08	**6**	**6.22**	**6.06**	**5.41**	**6.43**	**5.56**	**6.14**
	1,4-Dichlorobenzene			3.54	ND	ND	5.9	5.12	5.77	6.46	6.13	5.2	5.25	3.68	5.69	5.19	6.2
	2-Butanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone			0.72	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene			3.31	4.4	3.7	2.9	ND	3.24	3.57	2.64	2.28	2.27	1.71	2.09	1.88	2.03
	Bromochloromethane			ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene			1.01	ND	ND	ND	ND	1.64	1	1.81	1.66	1.57	1.28	1.58	1.46	1.7
	Chloroethane			0.97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.17	1.57	1.37	1.5
	Chloromethane			0.96	6.4	3.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene			**76.70**	**96**	ND	**97**	**79.8**	**105**	**120**	**94.2**	**81.6**	**95.9**	**81.5**	**95.8**	**86.7**	**92.4**
	cis-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane			**8.07**	**10**	**9.2**	3.2	**6.02**	**6.49**	4.04	4.88	3.59	4.36	3.63	3.95	3.48	3.73
	Ethylbenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether			0.61	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene			ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene			ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene			**22.20**	**17**	**25**	**28**	**25.7**	**27.8**	**24.2**	**21.7**	**18**	**17.2**	**11.9**	**18.8**	**15.3**	**17.3**
	Toluene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene			3.26	7.3	6.2	3.5	ND	4	4.76	3.31	3.14	3.63	2.57	3.38	2.95	3.28
	trans-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene			**26.90**	**23**	**28**	**32**	**30.2**	**33.9**	**37.1**	**28.3**	**28.9**	**25.1**	**21.8**	**27**	**22.8**	**25.4**
	Trichlorofluoromethane			1.50	3.8	4.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Acetate			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride			**11.10**	**14**	**18**	**8.6**	**8.58**	**10.1**	**9.83**	**8.14**	**6.74**	**7.91**	**6**	**7.67**	**6.66**	**7.27**
	Xylene (Total)			NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	2016-F	2017-S
MW13B	1,1,1,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane			17.80	ND	ND	15	13.9	17.2	16.6	13.8	14	12.8	12	13.3	10.7	10.7
	1,1-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane			ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene			0.54	ND	ND	ND	ND	ND	1.09	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane			3.11	ND	4.6	ND	ND	2.87	2.52	2.5	2.64	2.35	2.19	2.32	1.94	1.97
	1,2-Dichloropropane			**6.54**	ND	**7.4**	**7.5**	**7.73**	**8.01**	**7.87**	**6.96**	**5.44**	**6.23**	**6.03**	**6.58**	**5.53**	**5.82**
	1,4-Dichlorobenzene			8.86	ND	ND	11	9.67	10.2	11.5	9.56	8.49	8.23	7.91	8.87	7.86	8.95
	2-Butanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone			0.87	35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene			**5.56**	ND	**6.3**	4.6	ND	4.56	4.17	3.61	3.28	3.18	2.96	3.11	2.58	2.56
	Bromochloromethane			ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	Bromodichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene			1.63	ND	ND	ND	ND	2.03	2.29	1.98	1.67	1.81	1.75	1.92	1.62	1.72
	Chloroethane			1.14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane			0.76	4.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene			**101.00**	3.9	ND	**110**	**82**	**102**	**109**	**83.5**	**79.5**	**79.6**	**73.5**	**78.4**	67.5	69
	cis-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane			**8.50**	ND	**11**	4.2	**5.95**	**7.2**	**6.55**	**5.62**	**5.53**	4.84	4.71	4.95	3.95	3.99
	Ethylbenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether			0.96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene			ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene			ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene			**22.70**	ND	**27**	**30**	**26.5**	**27**	**24.2**	**21.1**	**16.8**	**15.8**	**15.2**	**16.7**	**14.2**	**15.6**
	Toluene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene			4.45	ND	7.3	4.3	ND	4.22	4.18	3.31	3.6	3.03	2.89	3.18	2.57	2.69
	trans-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-butene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene			**32.00**	ND	**28**	**32**	**27.6**	**29.5**	**34.5**	**22.9**	**20.2**	**19**	**20.7**	**19.9**	**16.6**	**17.2**
	Trichlorofluoromethane			1.71	ND	4.7	1.3	ND	1.27	ND	ND	1.09	ND	ND	ND	ND	ND
	Vinyl Acetate			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl Chloride			**17.20**	ND	**25**	**12**	**9.83**	**11.4**	**9.96**	**8.49**	**10.8**	**8.03**	**7.37**	**8.09**	**6.51**	**6.4**
	Xylene (Total)			NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested
NS: Not Sampled

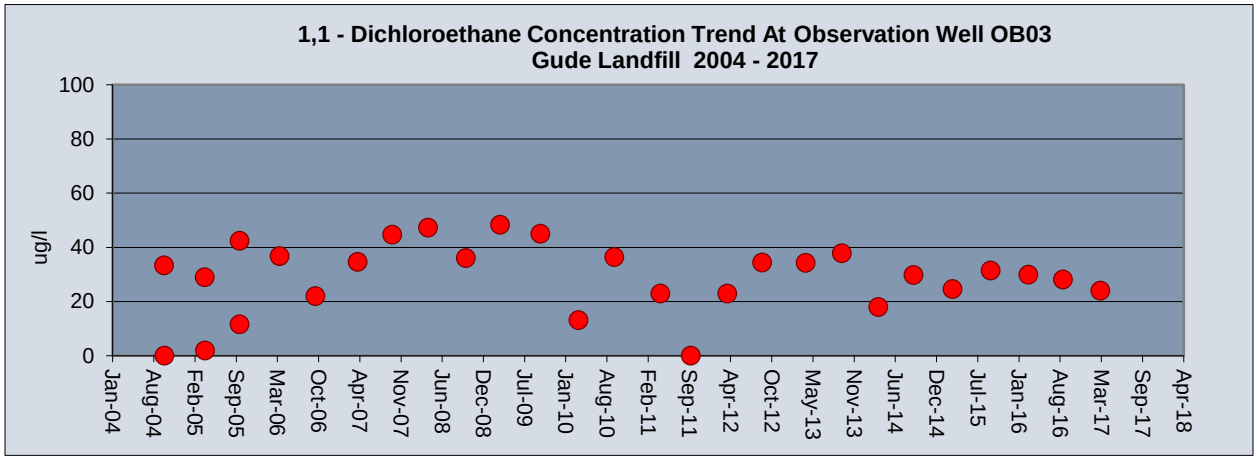
Appendix C

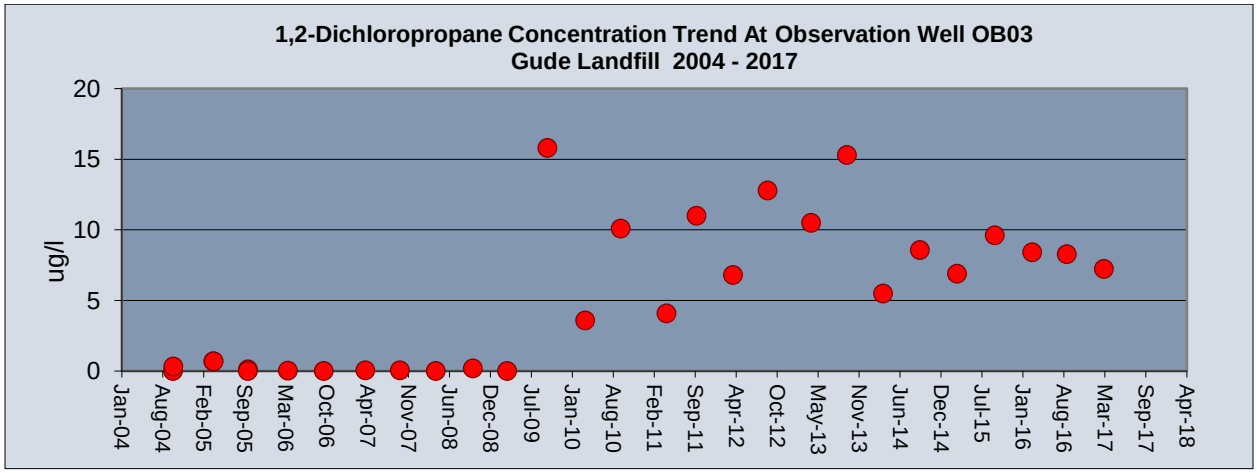
Volatile Organic Compounds

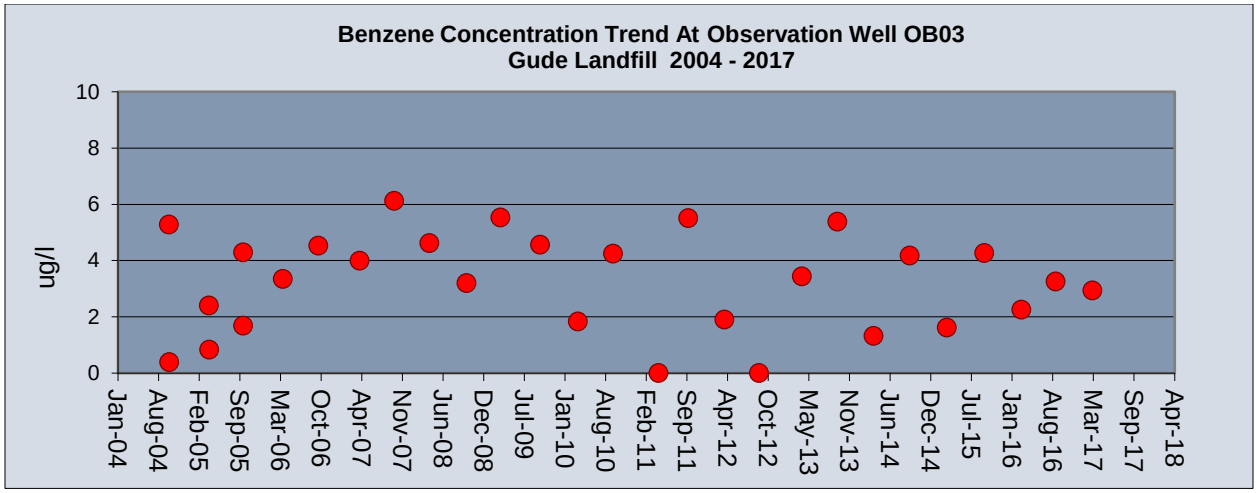
Graphical Depiction of Data

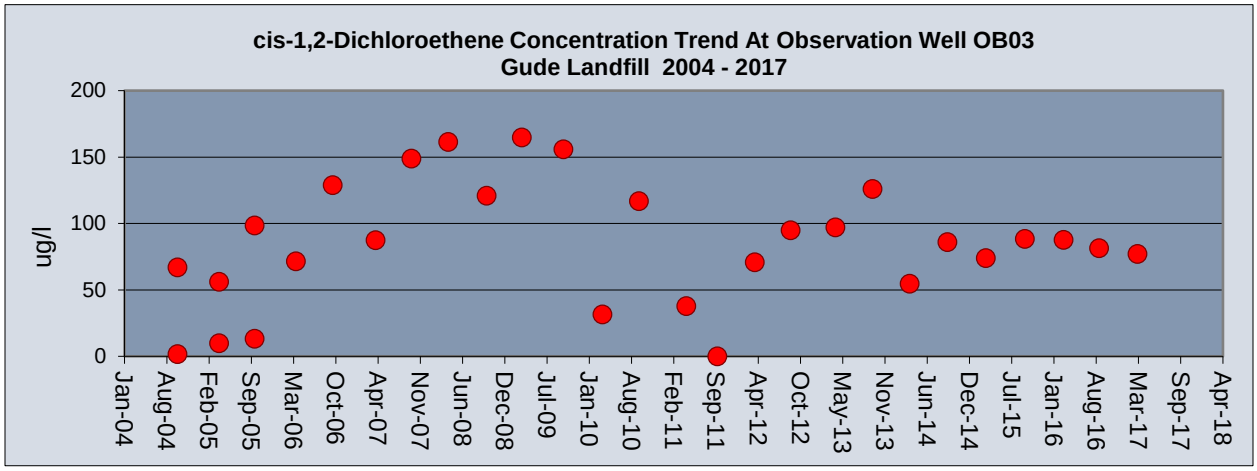
The following graphs provide Historical Trend Analysis for those VOC compounds

that are consistently detected at specific monitoring locations. These historical trend analyses do not include the monitoring locations installed in 2010.
(Please refer to Tables 1 and 2 for additional information.)






Benzene Concentration Trend At Observation Well OB03
Gude Landfill 2004 - 2017
ug/l
0
2
4
6
8
10
Jan-04
Aug-04
Feb-05
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
Sep-11
Apr-12
Oct-12
May-13
Nov-13
Jun-14
Dec-14
Jul-15
Jan-16
Aug-16
Mar-17
Sep-17
Apr-18


cis-1,2-Dichloroethene Concentration Trend At Observation Well OB03
Gude Landfill 2004 - 2017
ug/l
0
50
100
150
200
Jan-04
Aug-04
Feb-05
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
Sep-11
Apr-12
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May-13
Nov-13
Jun-14
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Jan-16
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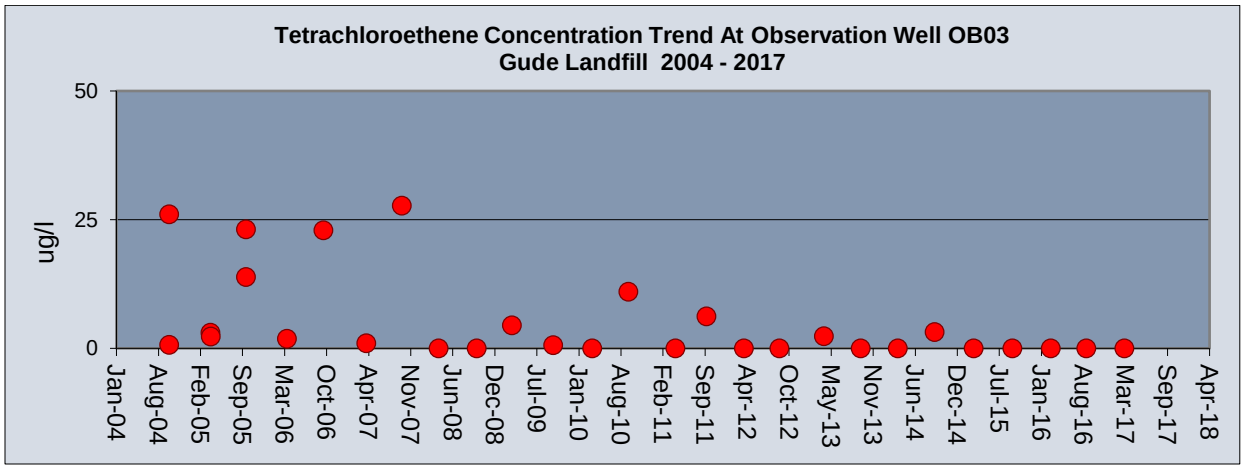
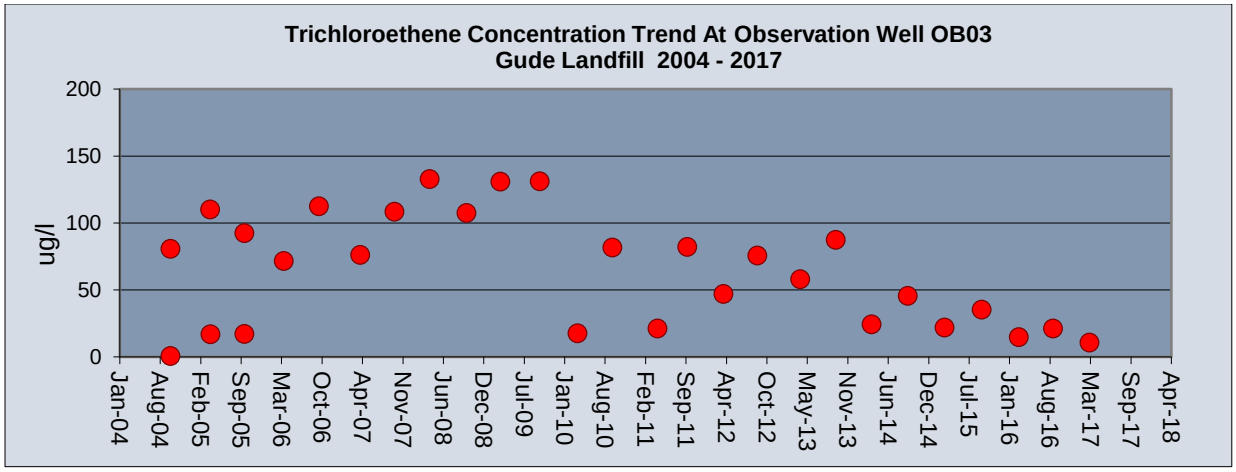
Mar-17
Sep-17
Apr-18


Tetrachloroethene Concentration Trend At Observation Well OB03
Gude Landfill 2004 - 2017
ug/l
0
25
50
Jan-04
Aug-04
Feb-05
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
Sep-11
Apr-12
Oct-12
May-13
Nov-13
Jun-14
Dec-14
Jul-15
Jan-16
Aug-16
Mar-17
Sep-17
Apr-18


Trichloroethene Concentration Trend At Observation Well OB03
Gude Landfill 2004 - 2017
ug/l
200
150
100
50
0
Jan-04
Aug-04
Feb-05
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
Sep-11
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Nov-13
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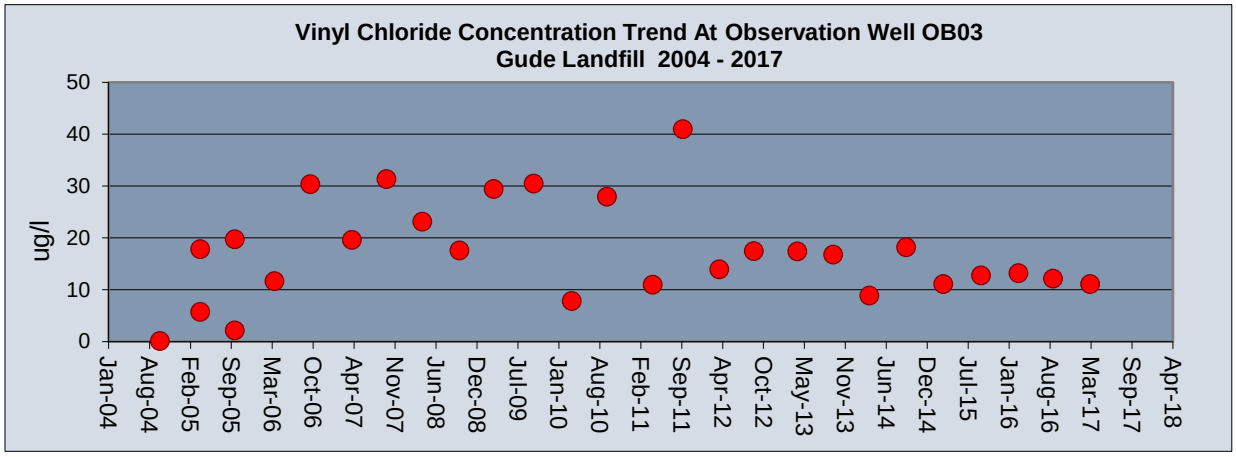
Aug-16
Mar-17
Sep-17
Apr-18


Vinyl Chloride Concentration Trend At Observation Well OB03
Gude Landfill 2004 - 2017
ug/l
50
40
30
20
10
0
Jan-04
Aug-04
Feb-05
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
Sep-11
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Nov-13
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Mar-17
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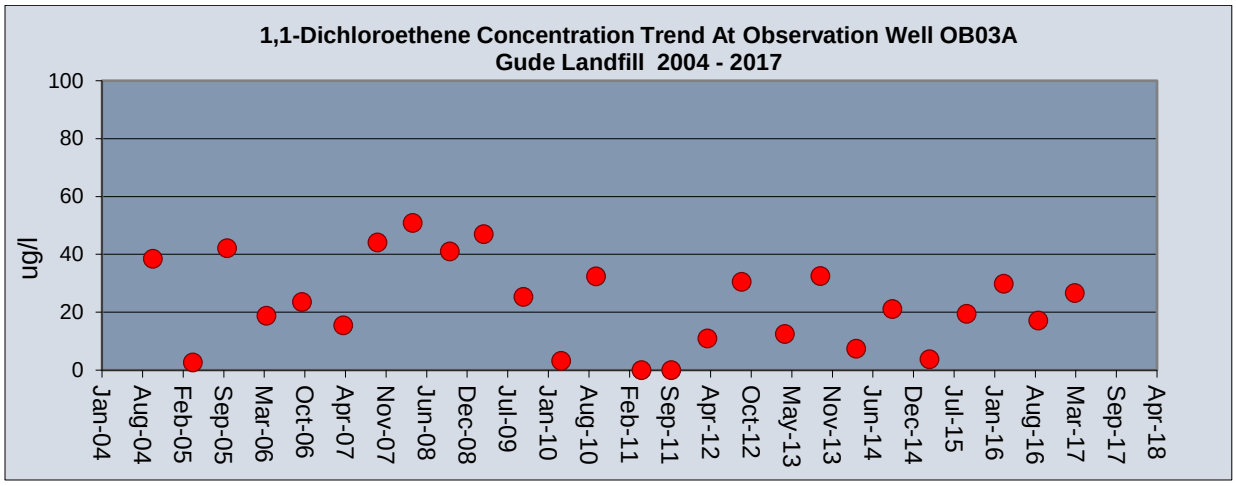
Apr-18


1,1-Dichloroethene Concentration Trend At Observation Well OB03A
Gude Landfill 2004 - 2017
ug/l
100
80
60
40
20
0
Jan-04
Aug-04
Feb-05
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
Sep-11
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Nov-13
Jun-14
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Jan-16
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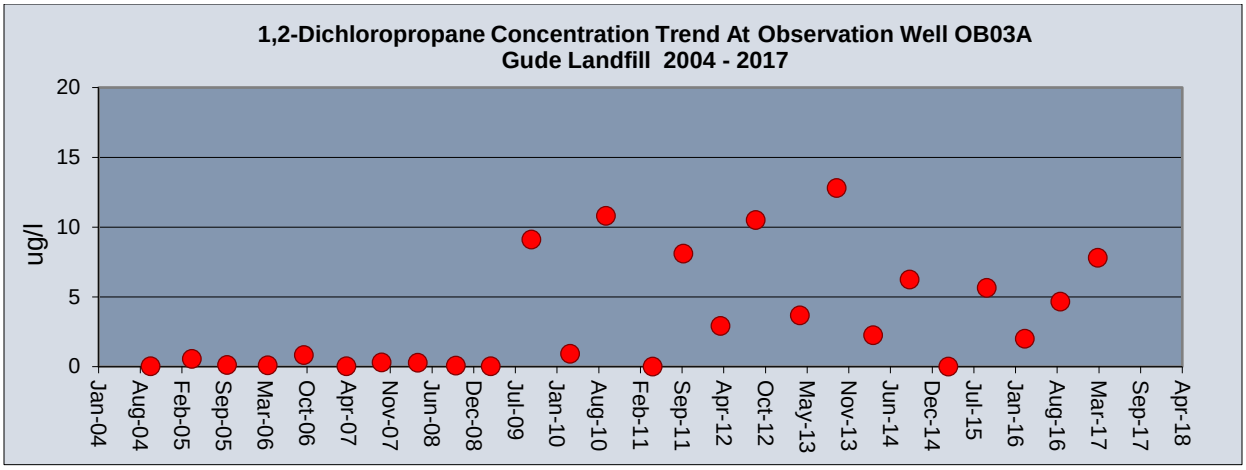
Apr-18


1,2-Dichloropropane Concentration Trend At Observation Well OB03A
Gude Landfill 2004 - 2017
ug/l
0
5
10
15
20
Jan-04
Aug-04
Feb-05
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
Sep-11
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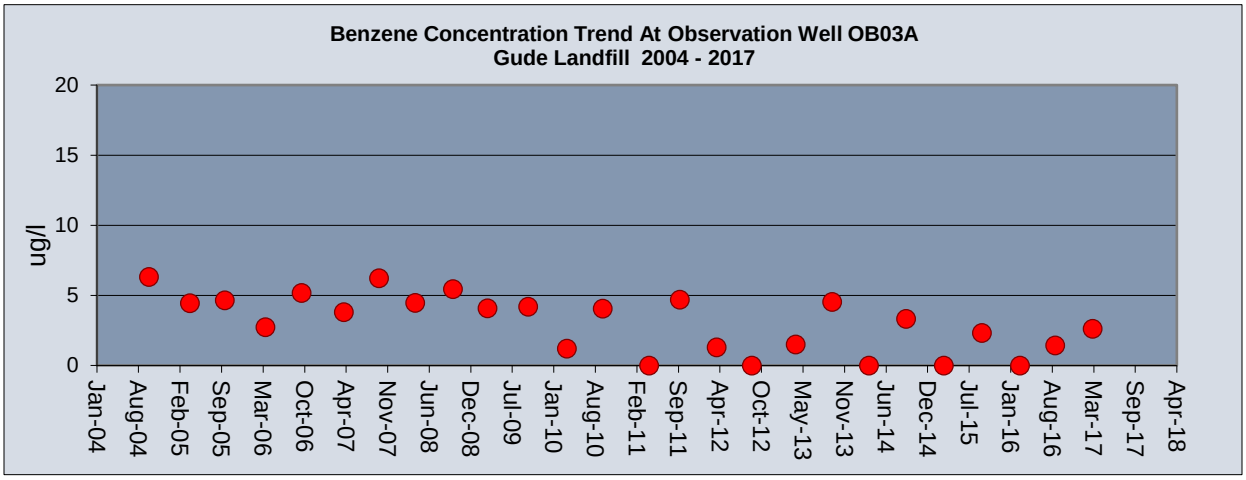
Benzene Concentration Trend At Observation Well OB03A
Gude Landfill 2004 - 2017
ug/l
0
5
10
15
20
Jan-04
Aug-04
Feb-05
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
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Nov-13
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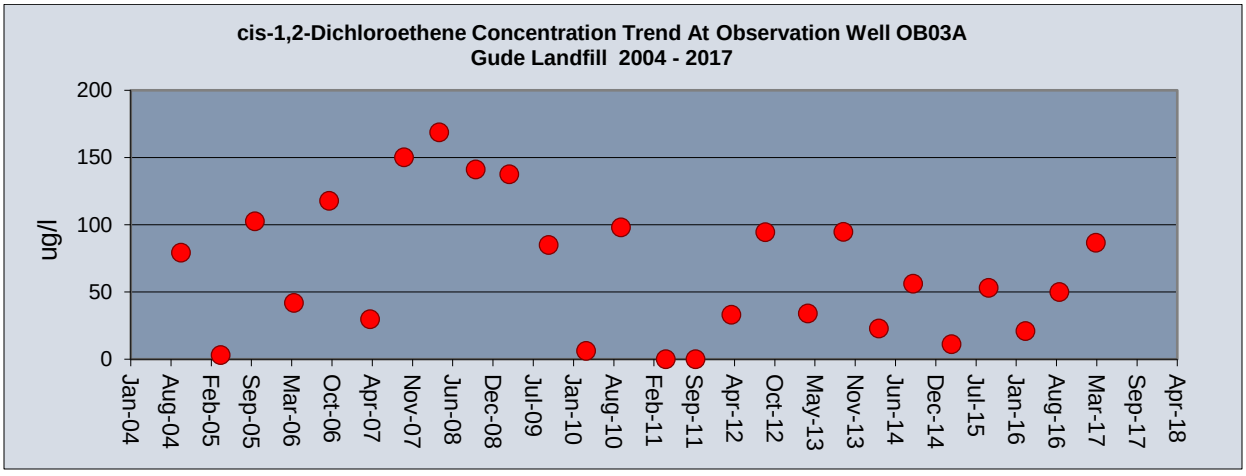
Dec-14
Jul-15
Jan-16
Aug-16
Mar-17
Sep-17
Apr-18


cis-1,2-Dichloroethene Concentration Trend At Observation Well OB03A
Gude Landfill 2004 - 2017
ug/l
0
50
100
150
200
Jan-04
Aug-04
Feb-05
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
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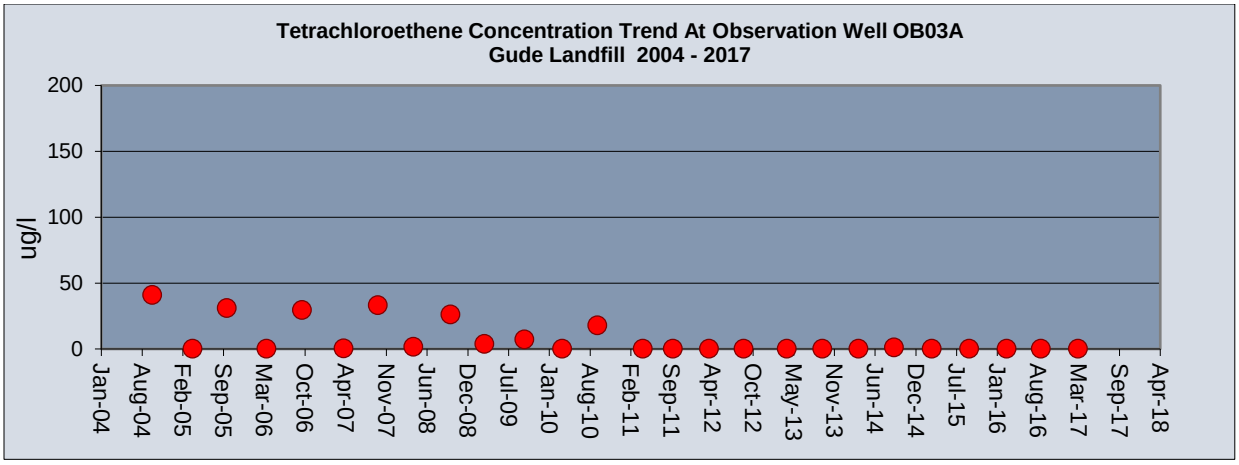
Sep-17
Apr-18


Tetrachloroethene Concentration Trend At Observation Well OB03A
Gude Landfill 2004 - 2017
ug/l
200
150
100
50
0
Jan-04
Aug-04
Feb-05
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
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May-13
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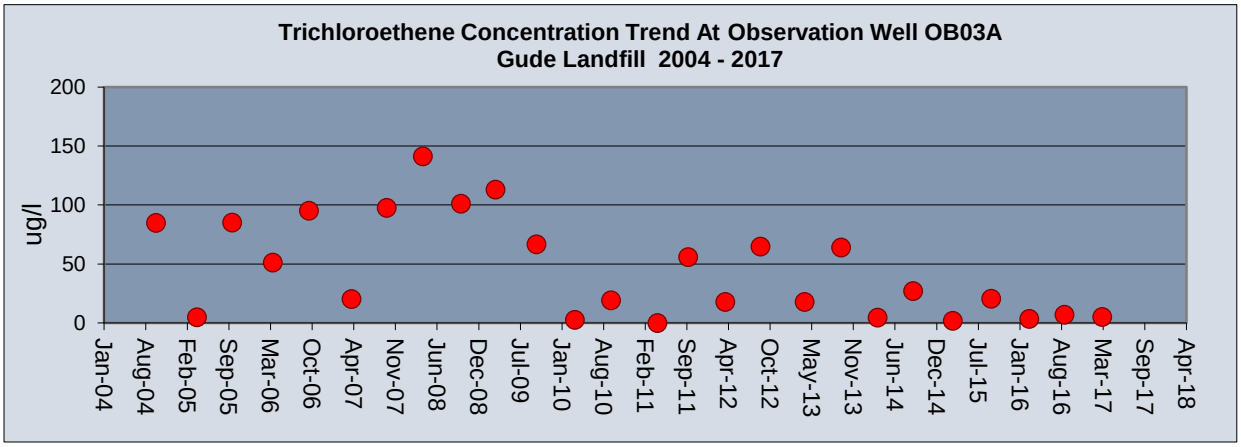
Sep-17
Apr-18


Trichloroethene Concentration Trend At Observation Well OB03A
Gude Landfill 2004 - 2017
ug/l
200
150
100
50
0
Jan-04
Aug-04
Feb-05
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
Sep-11
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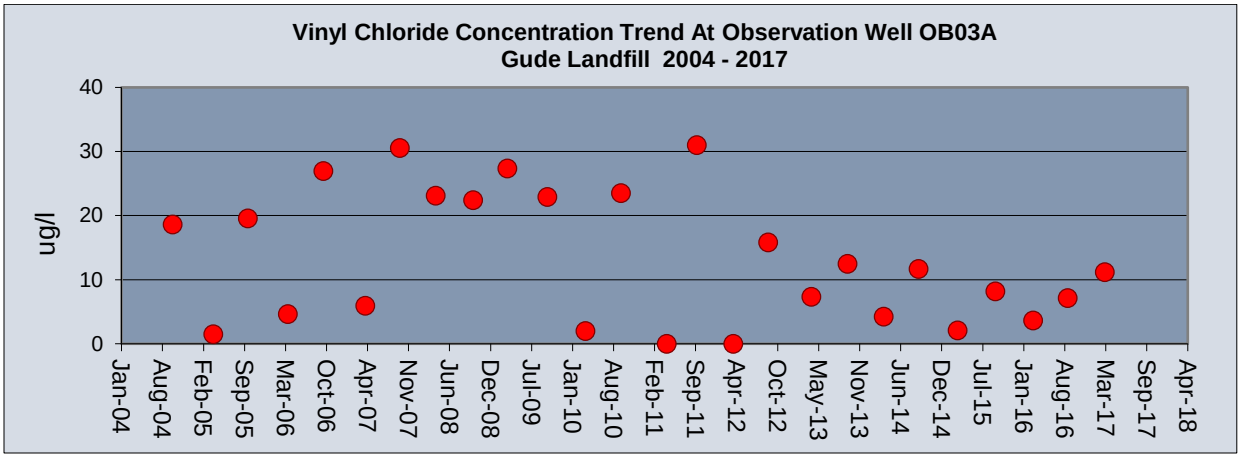
Nov-13
Jun-14
Dec-14
Jul-15
Jan-16
Aug-16
Mar-17
Sep-17
Apr-18


Vinyl Chloride Concentration Trend At Observation Well OB03A
Gude Landfill 2004 - 2017
ug/l
40
30
20
10
0
Jan-04
Aug-04
Feb-05
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
Sep-11
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Nov-13
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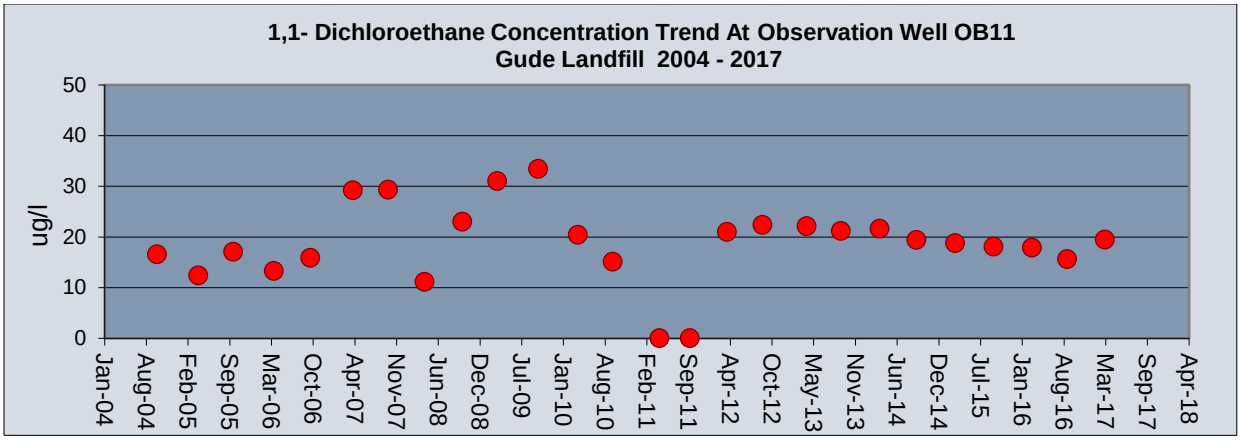
Sep-17
Apr-18


1,1- Dichloroethane Concentration Trend At Observation Well OB11
Gude Landfill 2004 - 2017
ug/l
50
40
30
20
10
0
Jan-04
Aug-04
Feb-05
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
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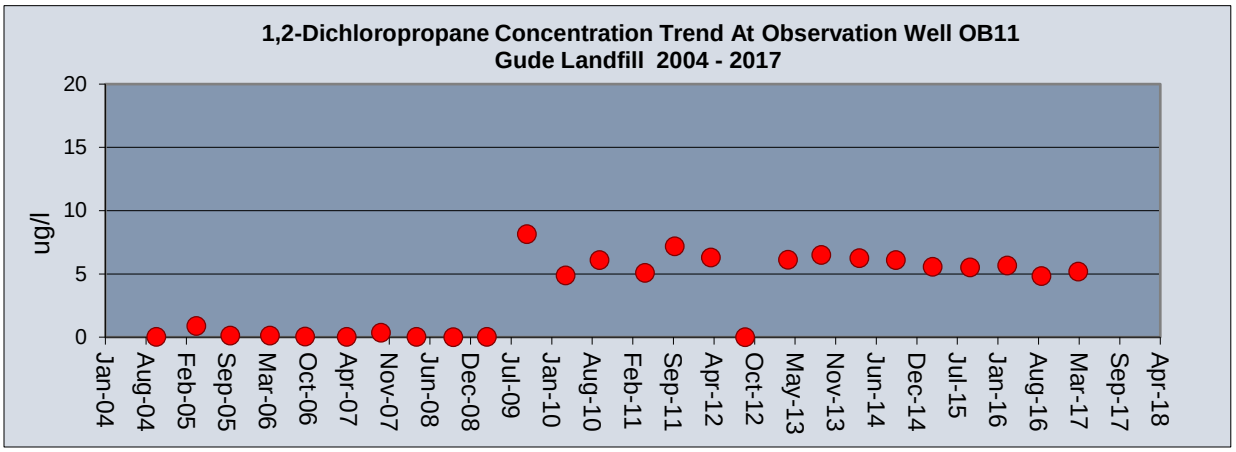
Sep-17
Apr-18


1,2-Dichloropropane Concentration Trend At Observation Well OB11
Gude Landfill 2004 - 2017
ug/l
20
15
10
5
0
Jan-04
Aug-04
Feb-05
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
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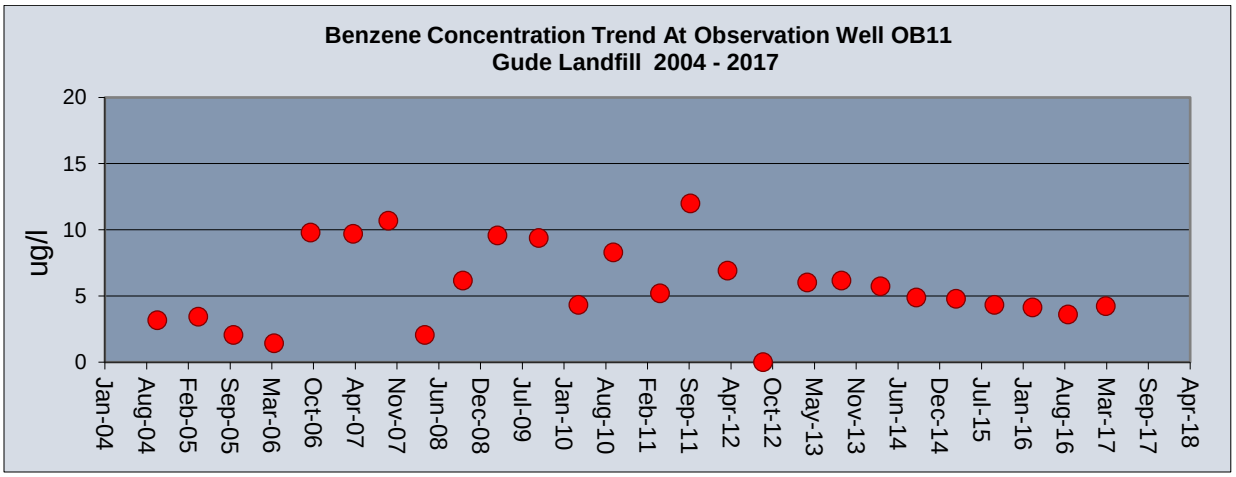
Benzene Concentration Trend At Observation Well OB11
Gude Landfill 2004 - 2017
ug/l
20
15
10
5
0
Jan-04
Aug-04
Feb-05
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
Sep-11
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May-13
Nov-13
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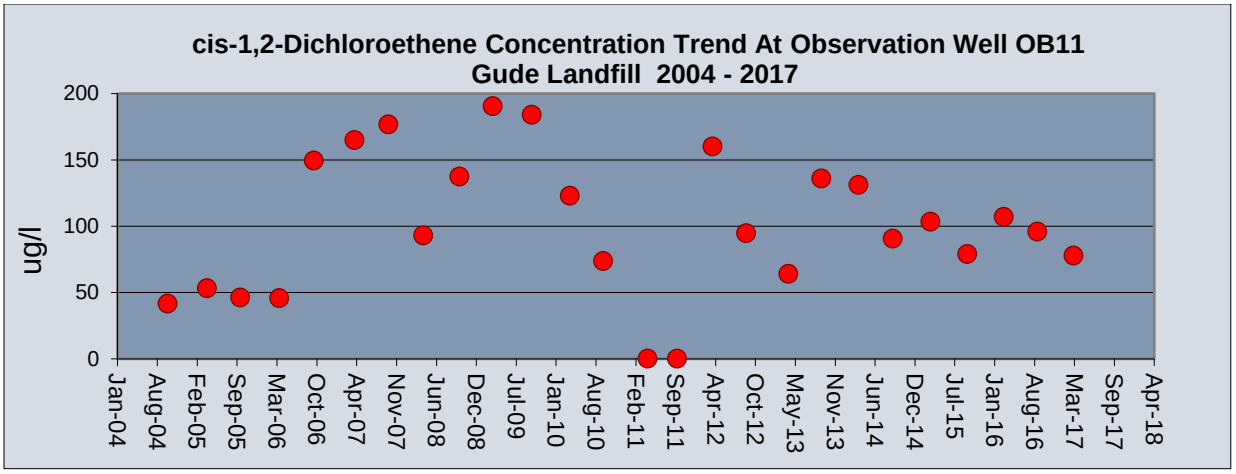
Mar-17
Sep-17
Apr-18


cis-1,2-Dichloroethene Concentration Trend At Observation Well OB11
Gude Landfill 2004 - 2017
ug/l
200
150
100
50
0
Jan-04
Aug-04
Feb-05
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
Sep-11
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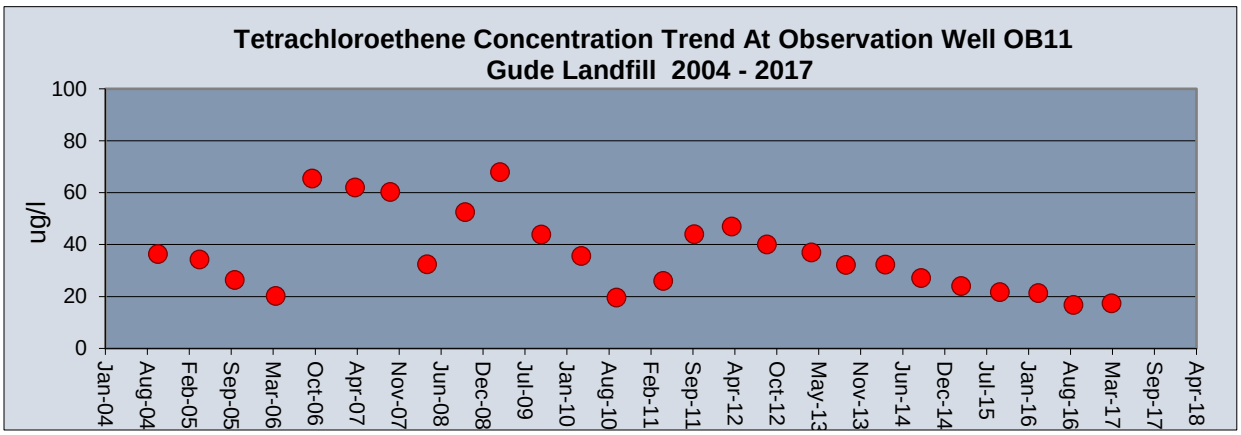
Sep-17
Apr-18


Tetrachloroethene Concentration Trend At Observation Well OB11
Gude Landfill 2004 - 2017
ug/l
100
80
60
40
20
0
Jan-04
Aug-04
Feb-05
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
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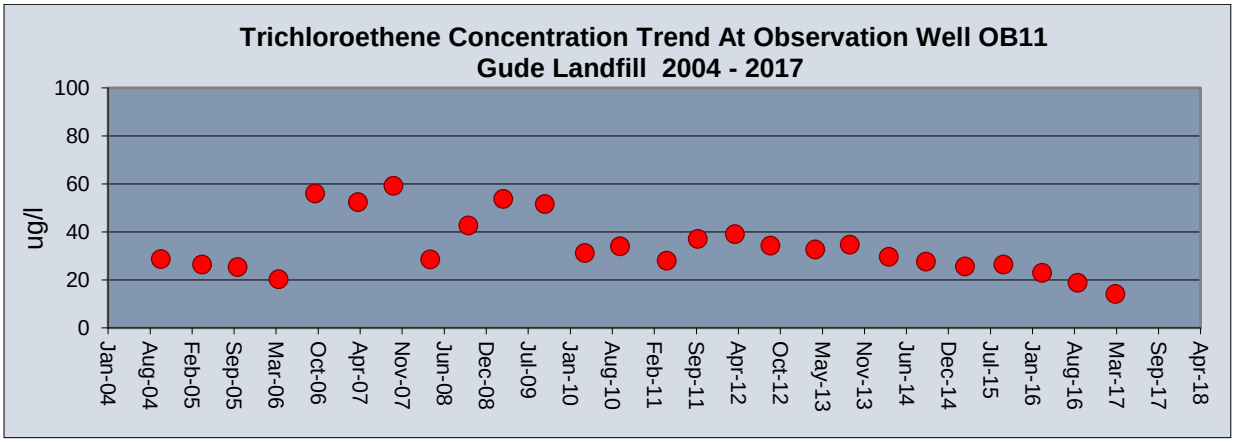
Sep-17
Apr-18


Trichloroethene Concentration Trend At Observation Well OB11
Gude Landfill 2004 - 2017
ug/l
100
80
60
40
20
0
Jan-04
Aug-04
Feb-05
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
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Nov-13
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Jan-16
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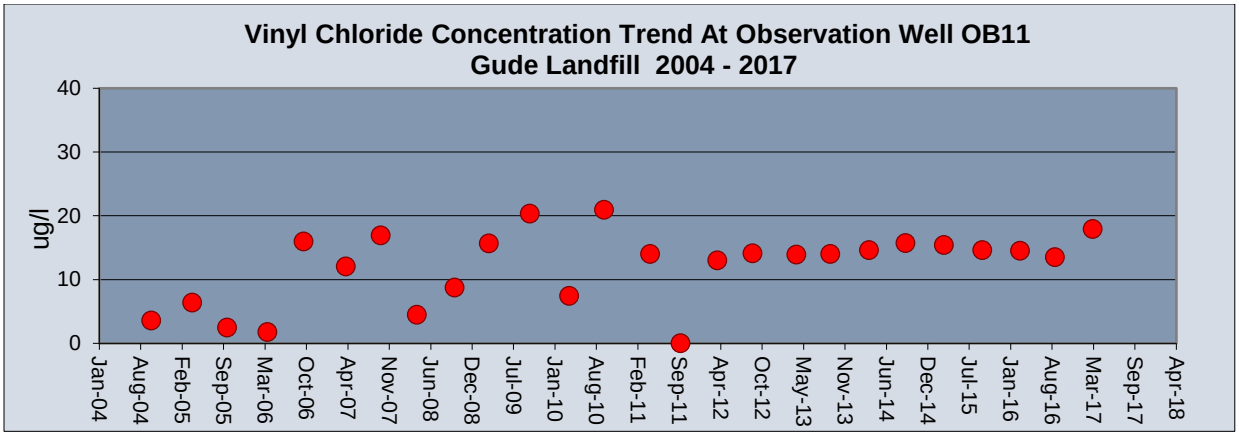
Sep-17
Apr-18


Vinyl Chloride Concentration Trend At Observation Well OB11
Gude Landfill 2004 - 2017
ug/l
40
30
20
10
0
Jan-04
Aug-04
Feb-05
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
Sep-11
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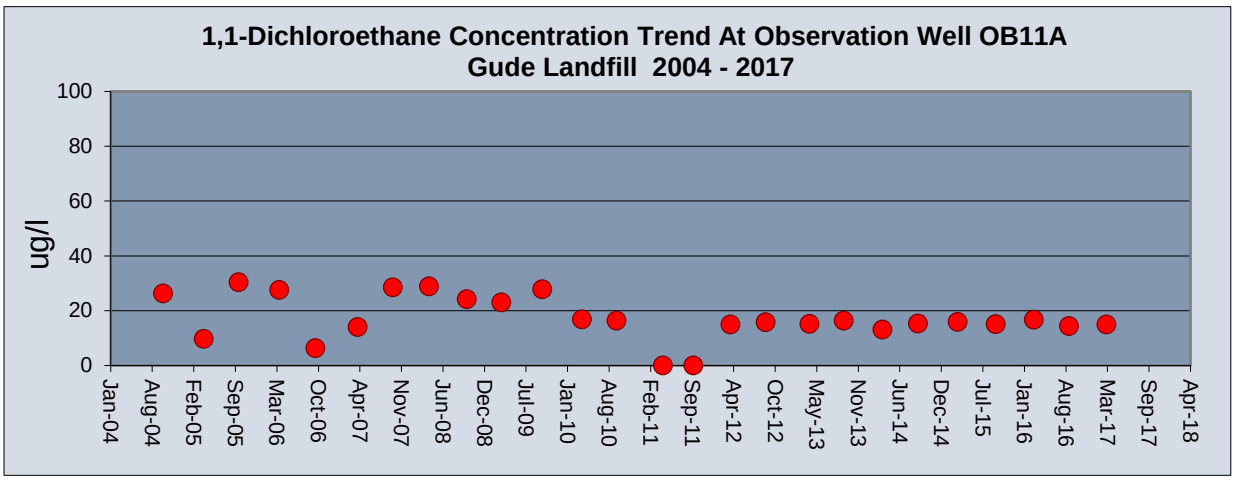
Apr-18


1,1-Dichloroethane Concentration Trend At Observation Well OB11A
Gude Landfill 2004 - 2017
ug/l
100
80
60
40
20
0
Jan-04
Aug-04
Feb-05
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
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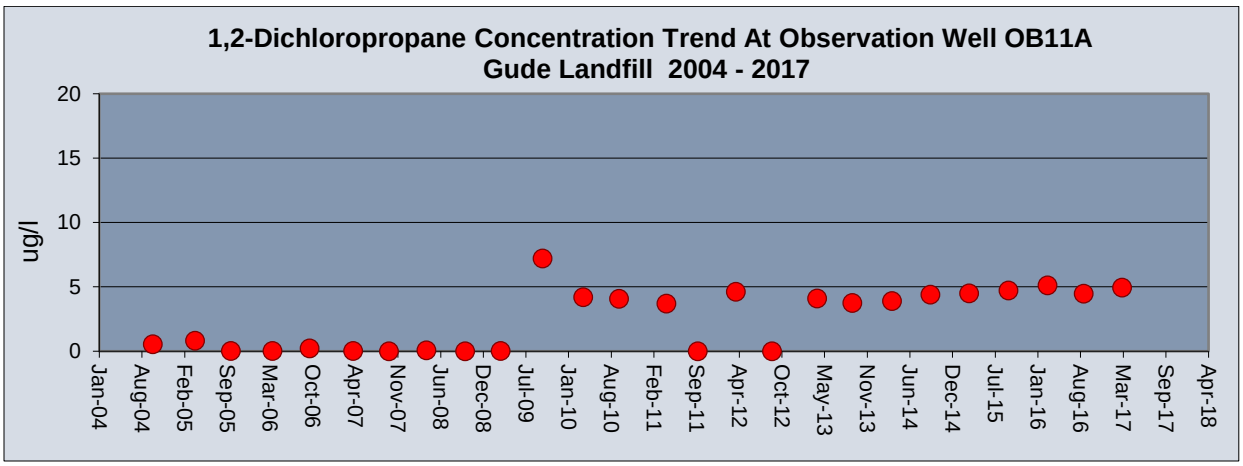
1,2-Dichloropropane Concentration Trend At Observation Well OB11A
Gude Landfill 2004 - 2017
ug/l
20
15
10
5
0
Jan-04
Aug-04
Feb-05
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
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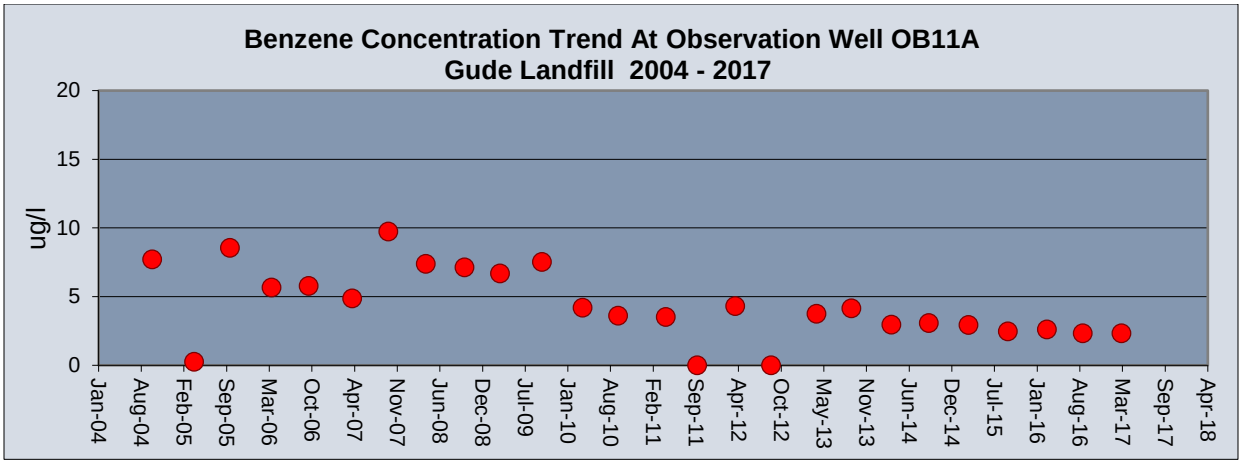
Sep-17
Apr-18


Benzene Concentration Trend At Observation Well OB11A
Gude Landfill 2004 - 2017
ug/l
20
15
10
5
0
Jan-04
Aug-04
Feb-05
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
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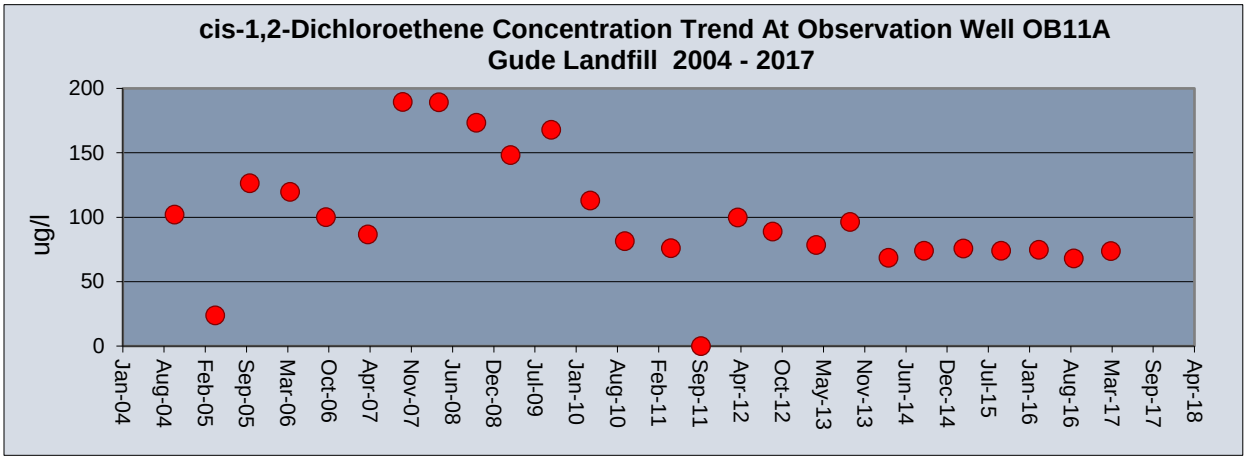
Apr-18


cis-1,2-Dichloroethene Concentration Trend At Observation Well OB11A
Gude Landfill 2004 - 2017
ug/l
200
150
100
50
0
Jan-04
Aug-04
Feb-05
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
Sep-11
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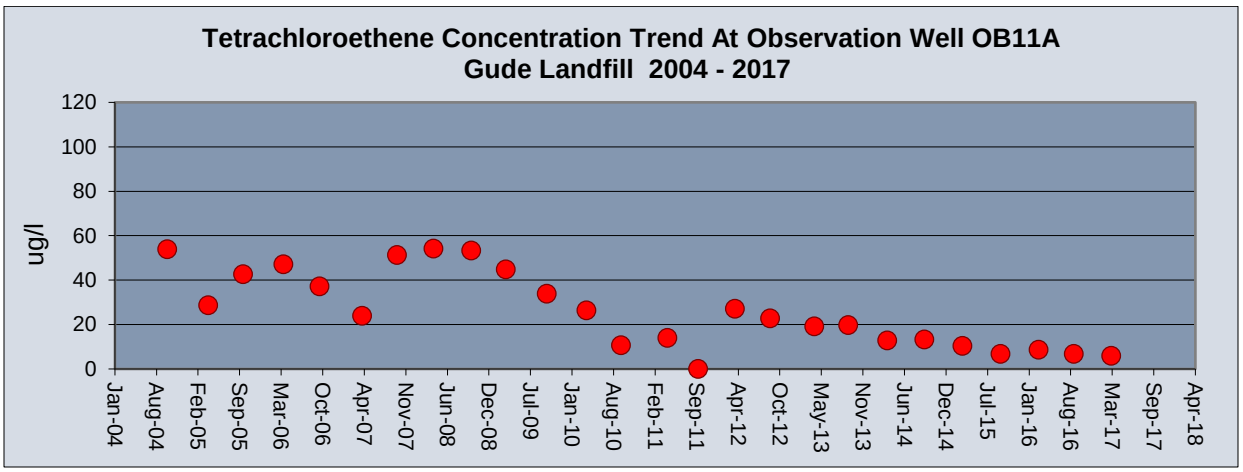
Apr-18


Tetrachloroethene Concentration Trend At Observation Well OB11A
Gude Landfill 2004 - 2017
ug/l
120
100
80
60
40
20
0
Jan-04
Aug-04
Feb-05
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
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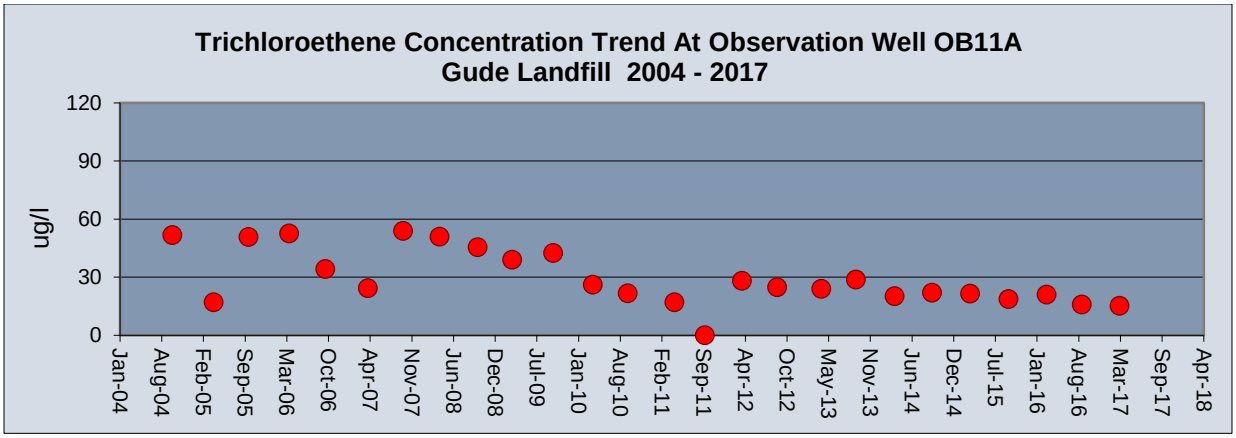
Apr-18


Trichloroethene Concentration Trend At Observation Well OB11A
Gude Landfill 2004 - 2017
ug/l
120
90
60
30
0
Jan-04
Aug-04
Feb-05
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
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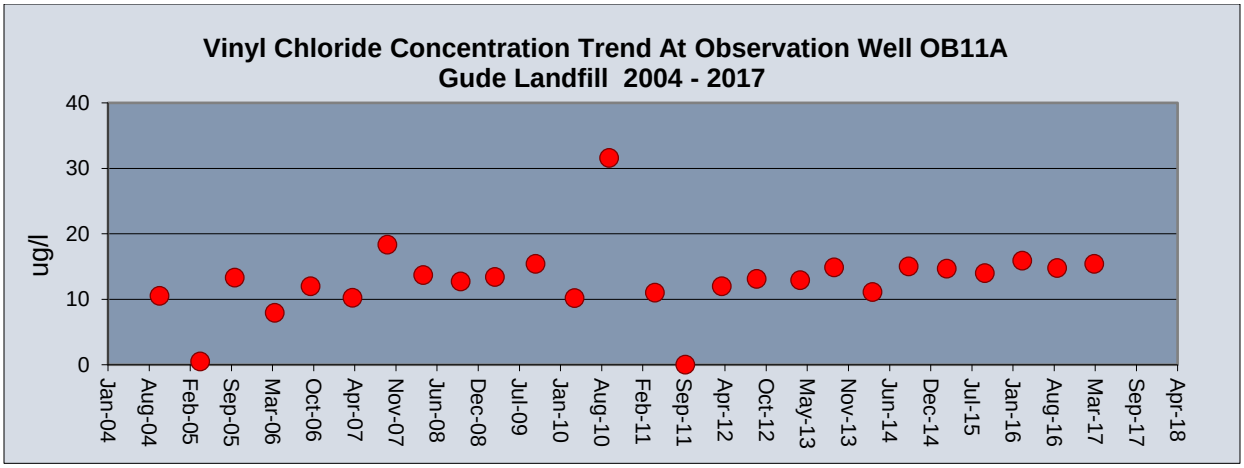
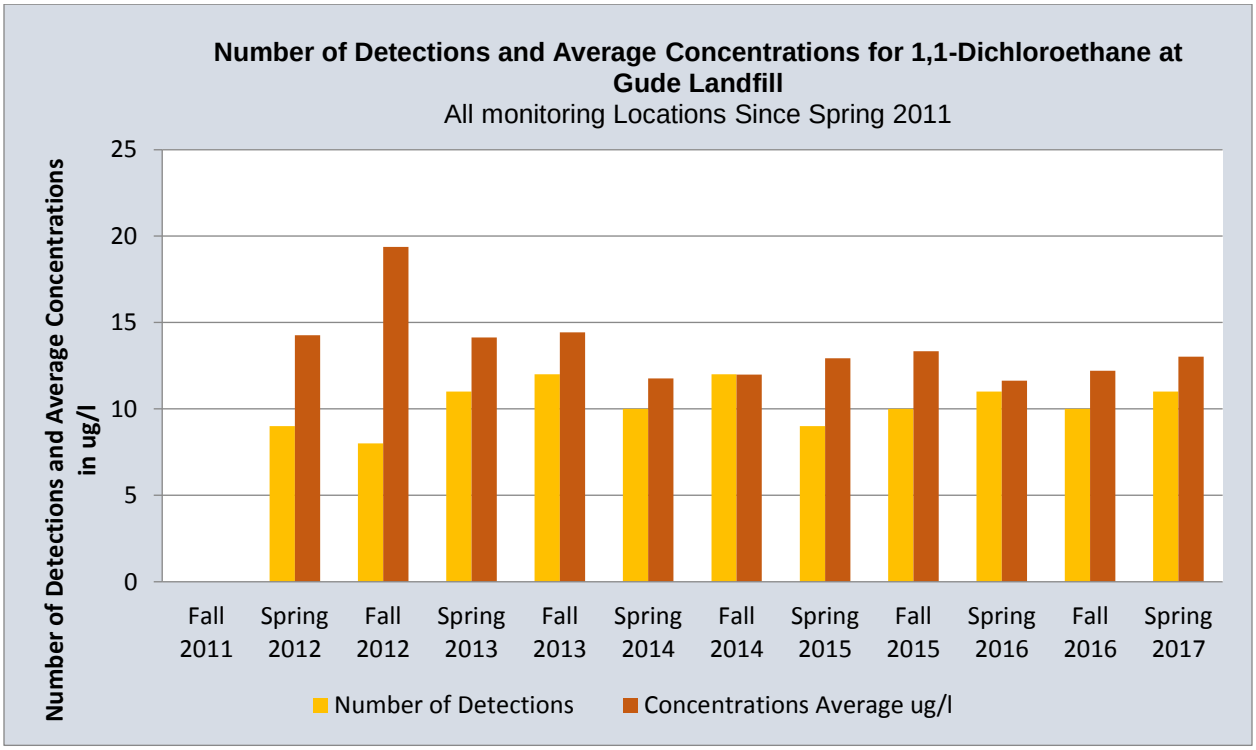
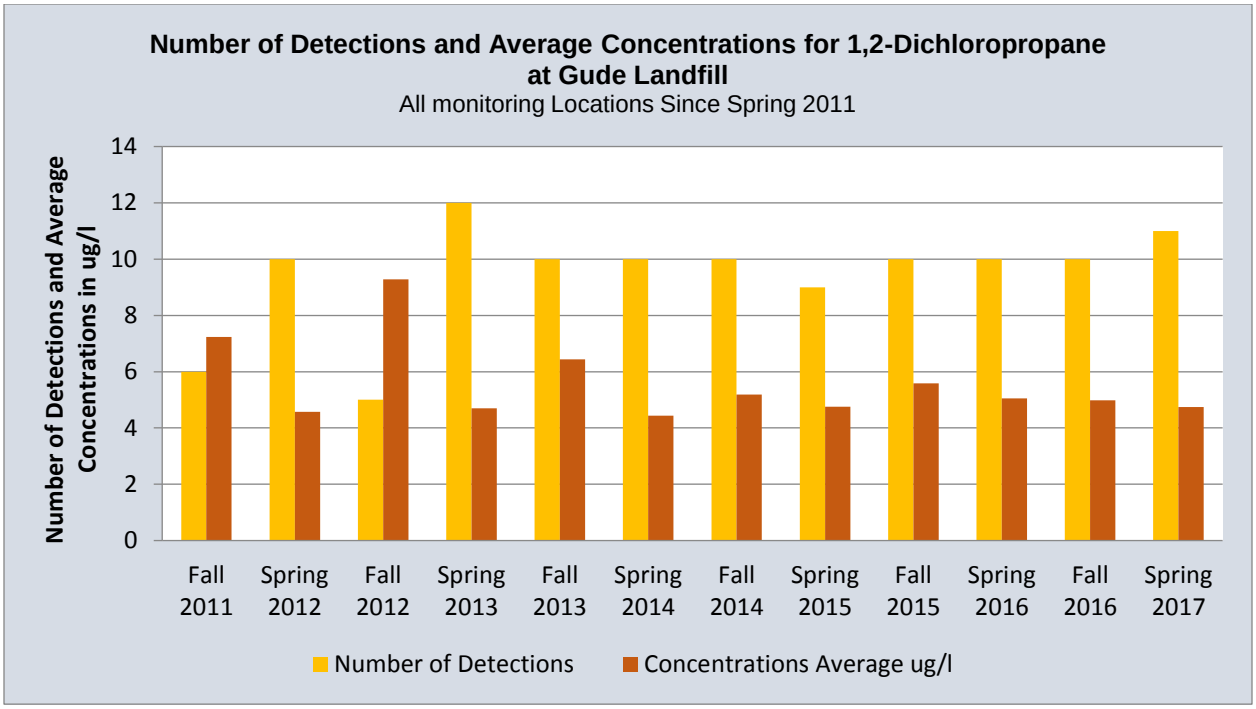
Sep-17
Apr-18

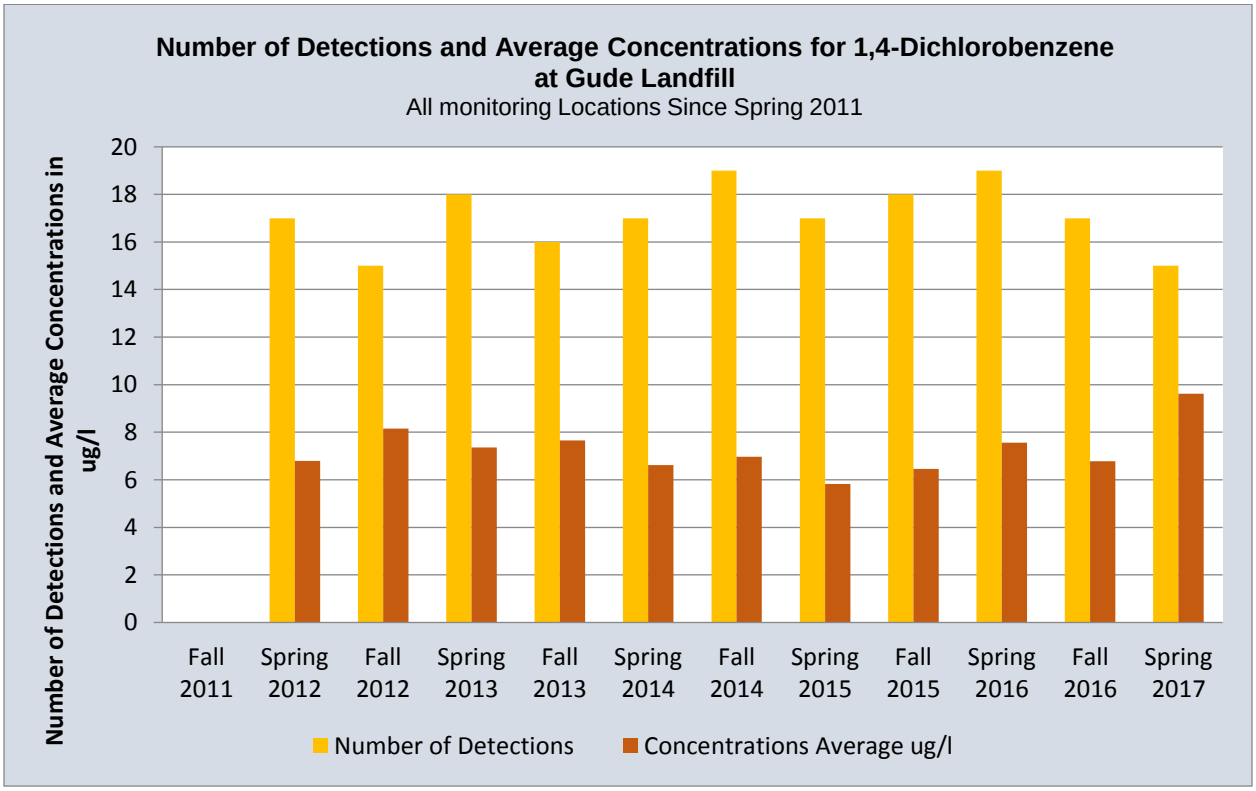

Vinyl Chloride Concentration Trend At Observation Well OB11A
Gude Landfill 2004 - 2017
ug/l
40
30
20
10
0
Jan-04
Aug-04
Feb-05
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
Sep-11
Apr-12
Oct-12
May-13
Nov-13
Jun-14
Dec-14
Jul-15
Jan-16
Aug-16
Mar-17
Sep-17
Apr-18

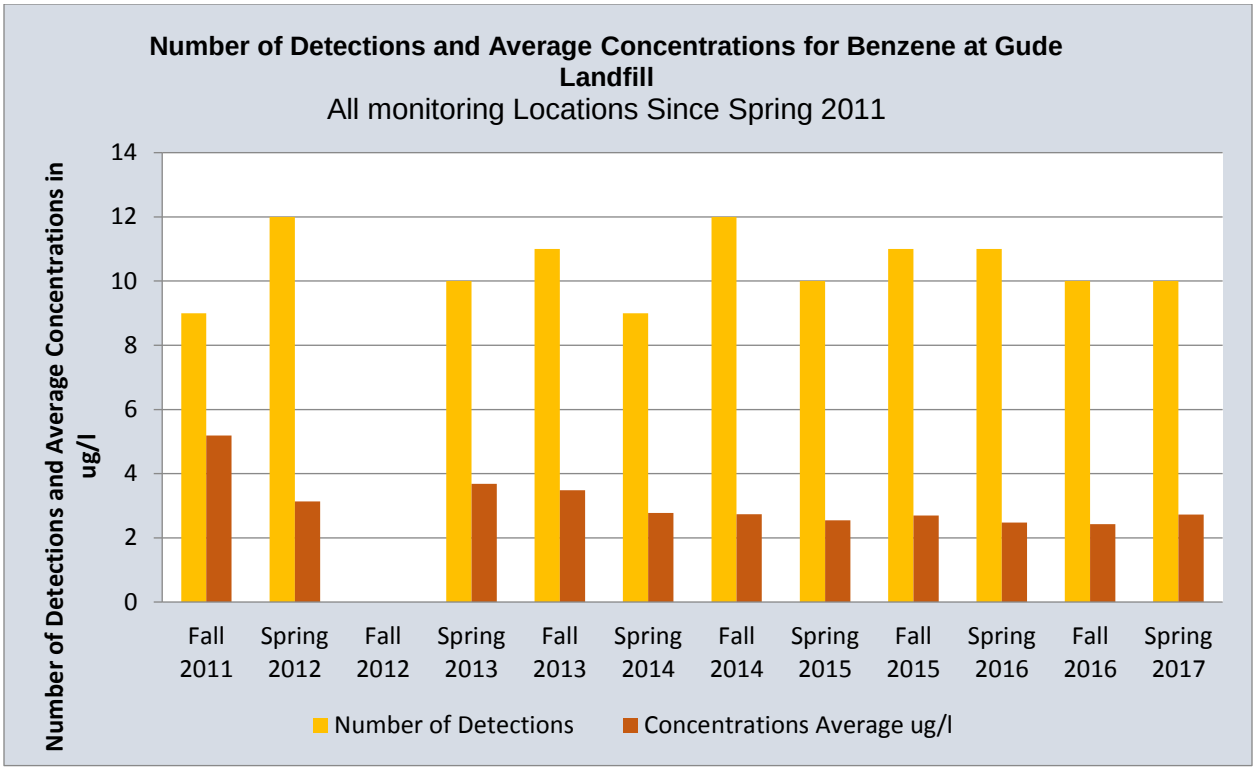
The following graphs provide Historical Trend Analysis for particular VOC compounds that are detected on regular basis at the Landfill since 2010.

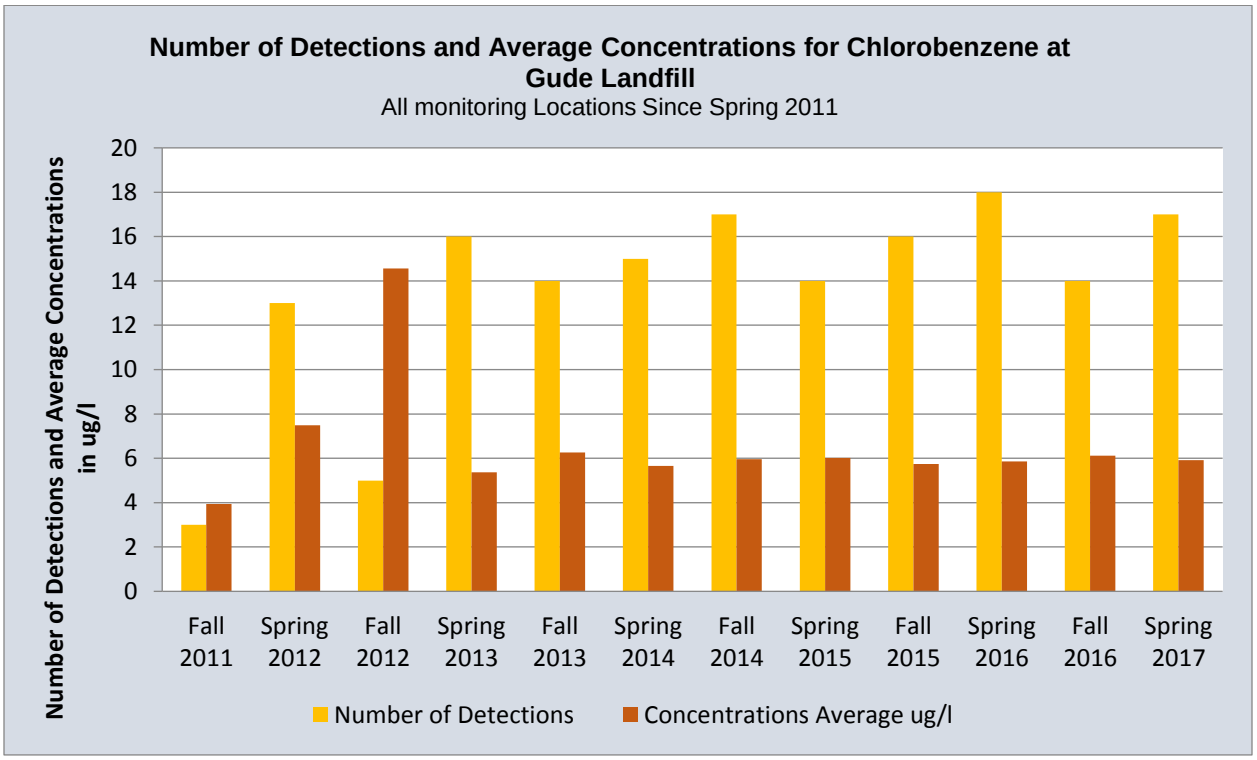
(These trend analyses are for all the monitoring wells including those installed in 2010. Please refer to Tables 1 and 2 for additional information.)

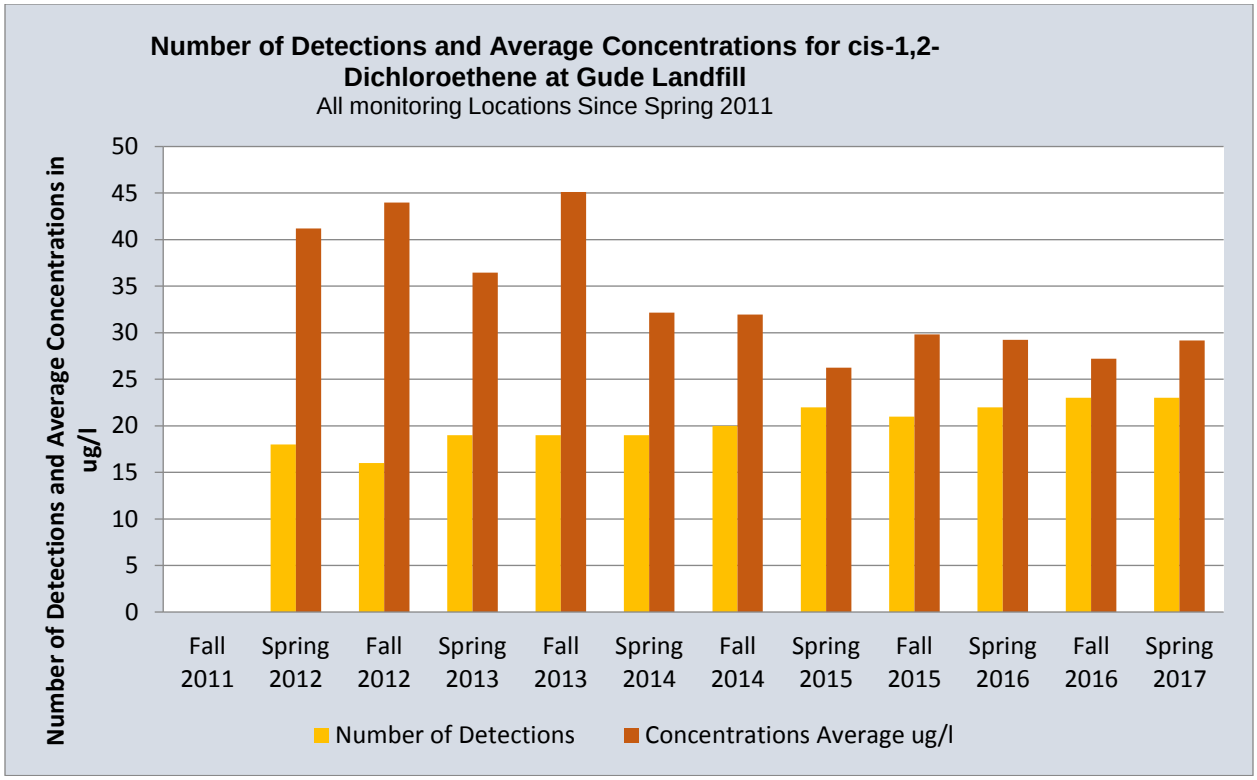


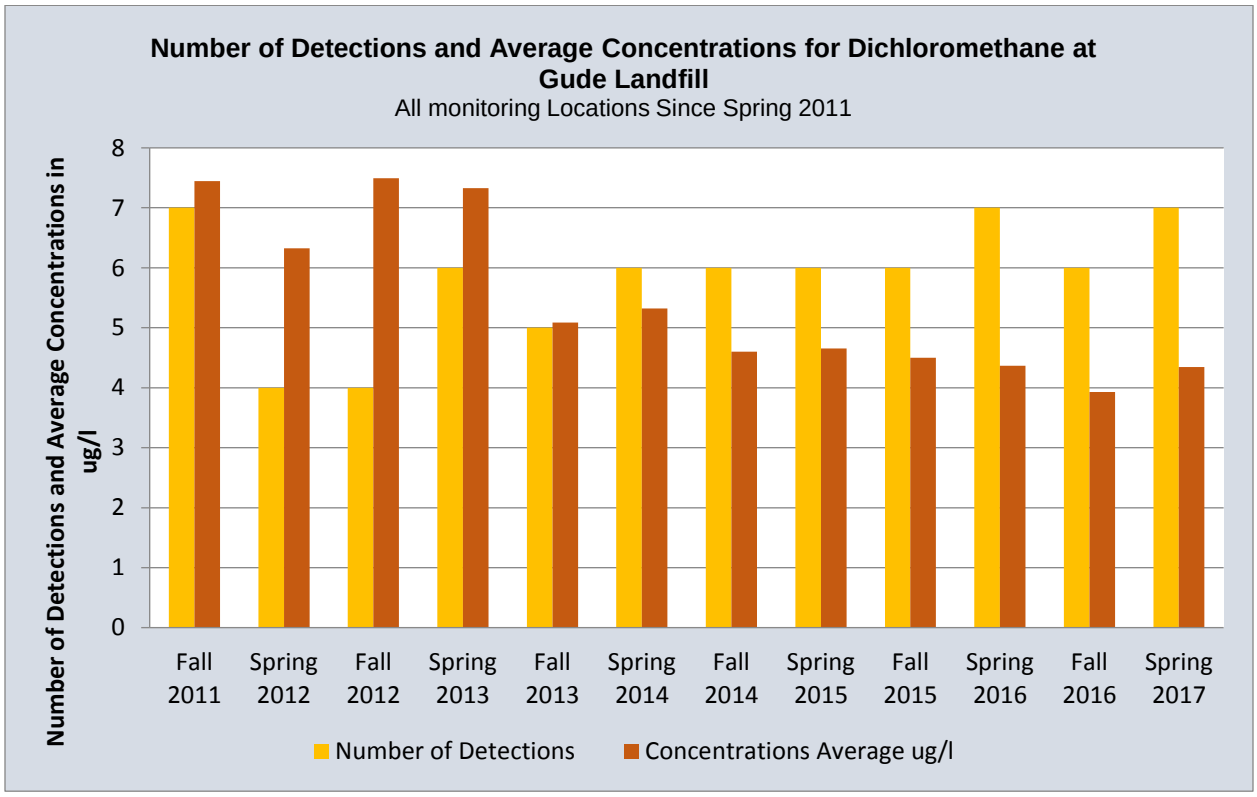

Number of Detections and Average Concentrations for 1,2-Dichloropropane at Gude Landfill
All monitoring Locations Since Spring 2011
Number of Detections and Average Concentrations in ug/l
0
2
4
6
8
10
12
14
Fall 2011
Spring 2012
Fall 2012
Spring 2013
Fall 2013
Spring 2014
Fall 2014
Spring 2015
Fall 2015
Spring 2016
Fall 2016
Spring 2017
Number of Detections
Concentrations Average ug/l

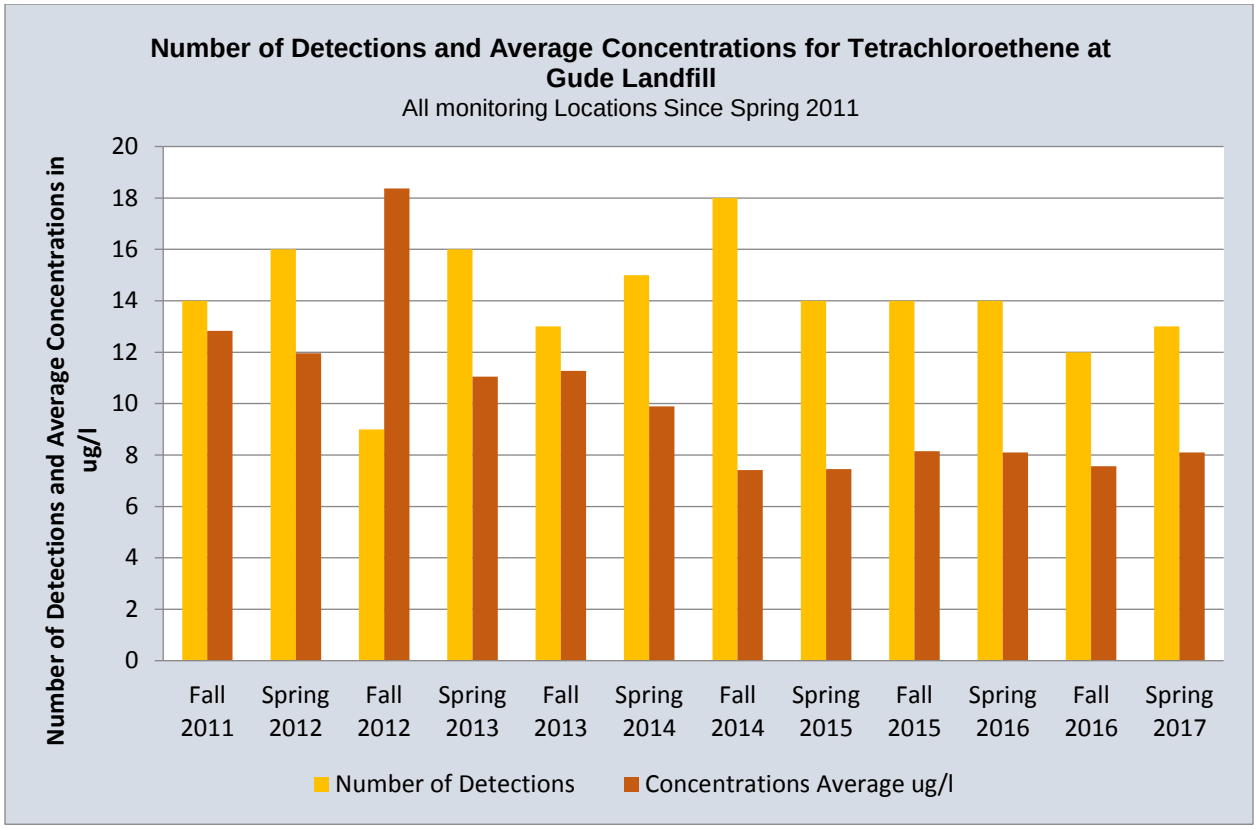

Number of Detections and Average Concentrations for 1,4-Dichlorobenzene at Gude Landfill
All monitoring Locations Since Spring 2011
Number of Detections and Average Concentrations in ug/l
0
2
4
6
8
10
12
14
16
18
20
Fall 2011
Spring 2012
Fall 2012
Spring 2013
Fall 2013
Spring 2014
Fall 2014
Spring 2015
Fall 2015
Spring 2016
Fall 2016
Spring 2017
Number of Detections
Concentrations Average ug/l

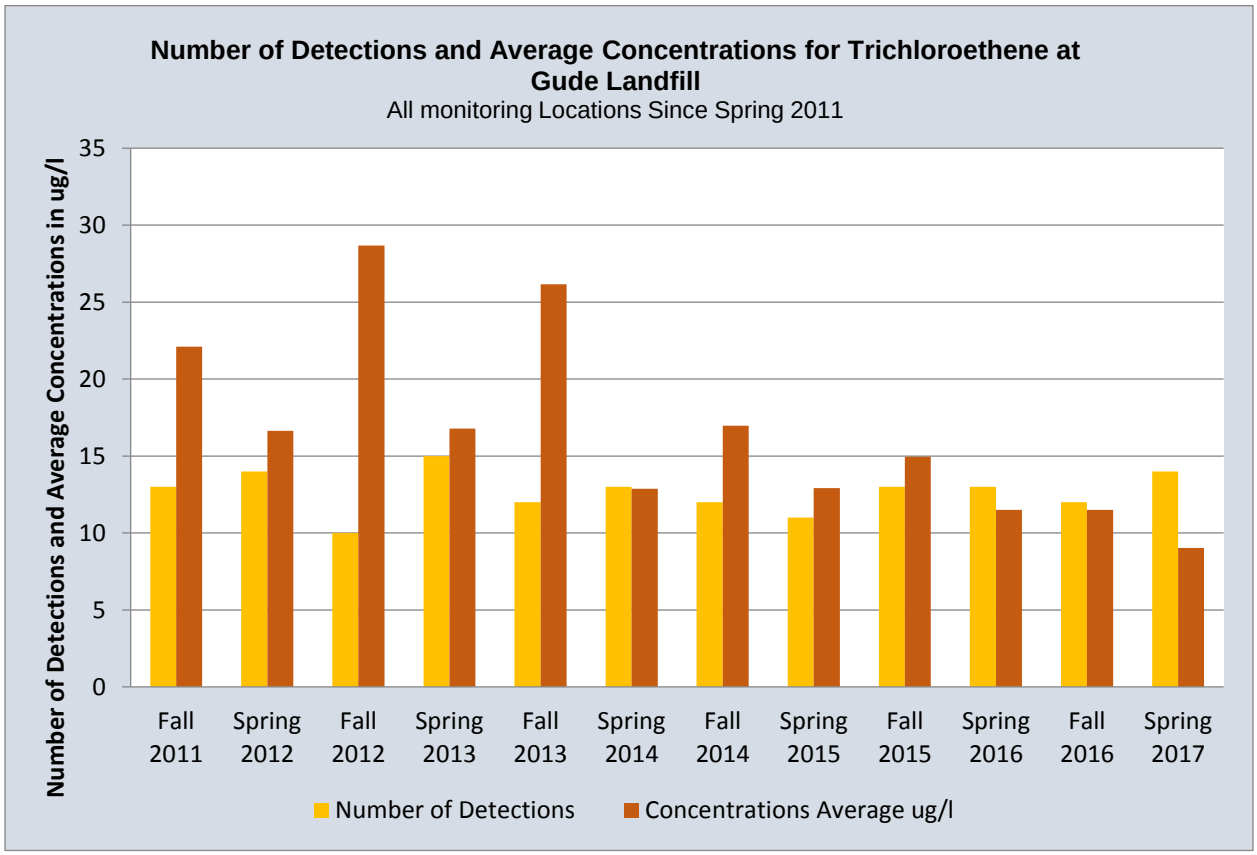

Number of Detections and Average Concentrations for Benzene at Gude Landfill
All monitoring Locations Since Spring 2011
Number of Detections and Average Concentrations in ug/l
0
2
4
6
8
10
12
14
Fall 2011
Spring 2012
Fall 2012
Spring 2013
Fall 2013
Spring 2014
Fall 2014
Spring 2015
Fall 2015
Spring 2016
Fall 2016
Spring 2017
Number of Detections
Concentrations Average ug/l

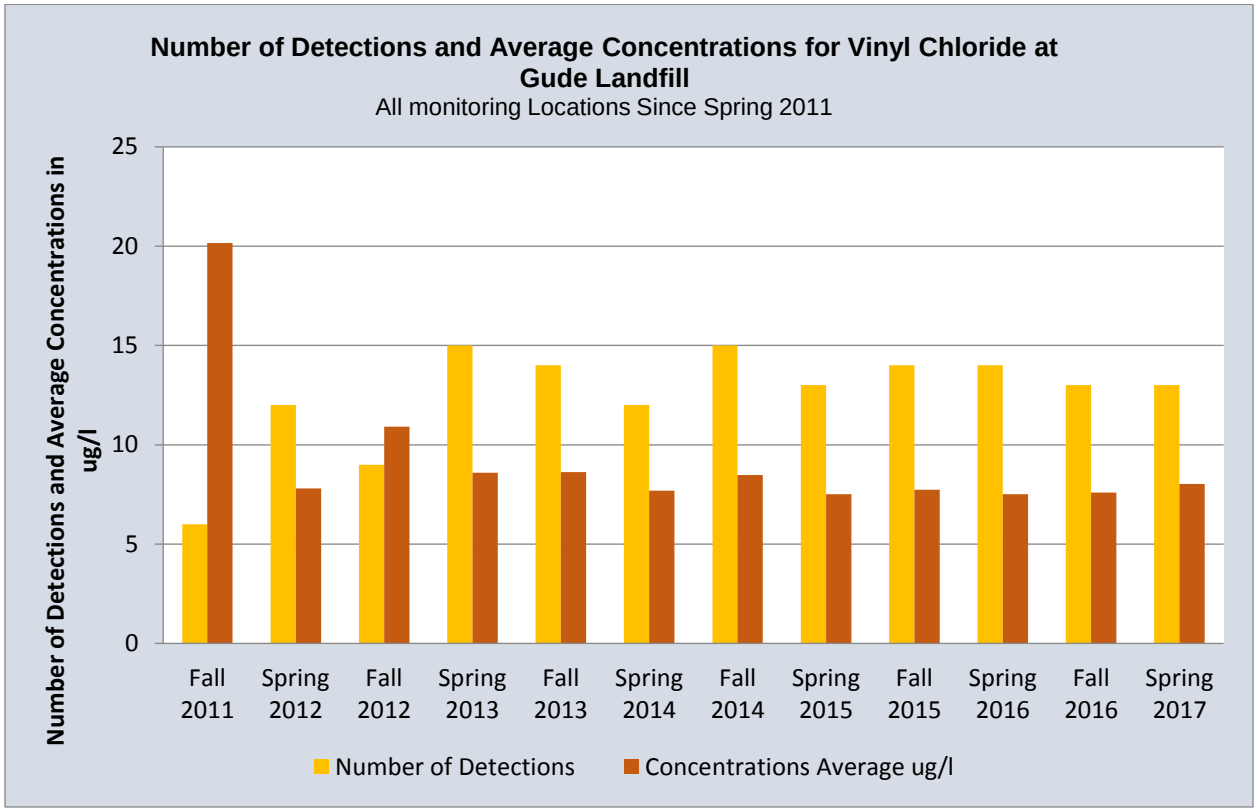

Number of Detections and Average Concentrations for Chlorobenzene at Gude Landfill
All monitoring Locations Since Spring 2011
Number of Detections and Average Concentrations in ug/l
0
2
4
6
8
10
12
14
16
18
20
Fall 2011
Spring 2012
Fall 2012
Spring 2013
Fall 2013
Spring 2014
Fall 2014
Spring 2015
Fall 2015
Spring 2016
Fall 2016
Spring 2017
Number of Detections
Concentrations Average ug/l


Number of Detections and Average Concentrations for cis-1,2-Dichloroethene at Gude Landfill
All monitoring Locations Since Spring 2011
Number of Detections and Average Concentrations in ug/l
50
45
40
35
30
25
20
15
10
5
0
Fall 2011
Spring 2012
Fall 2012
Spring 2013
Fall 2013
Spring 2014
Fall 2014
Spring 2015
Fall 2015
Spring 2016
Fall 2016
Spring 2017
Number of Detections
Concentrations Average ug/l


Number of Detections and Average Concentrations for Dichloromethane at Gude Landfill
All monitoring Locations Since Spring 2011
Number of Detections and Average Concentrations in ug/l
8
7
6
5
4
3
2
1
0
Fall 2011
Spring 2012
Fall 2012
Spring 2013
Fall 2013
Spring 2014
Fall 2014
Spring 2015
Fall 2015
Spring 2016
Fall 2016
Spring 2017
Number of Detections
Concentrations Average ug/l


Number of Detections and Average Concentrations for Tetrachloroethene at Gude Landfill
All monitoring Locations Since Spring 2011
Number of Detections and Average Concentrations in ug/l
20
18
16
14
12
10
8
6
4
2
0
Fall 2011
Spring 2012
Fall 2012
Spring 2013
Fall 2013
Spring 2014
Fall 2014
Spring 2015
Fall 2015
Spring 2016
Fall 2016
Spring 2017
Number of Detections
Concentrations Average ug/l


Number of Detections and Average Concentrations for Trichloroethene at Gude Landfill
All monitoring Locations Since Spring 2011
Number of Detections and Average Concentrations in ug/l
35
30
25
20
15
10
5
0
Fall 2011
Spring 2012
Fall 2012
Spring 2013
Fall 2013
Spring 2014
Fall 2014
Spring 2015
Fall 2015
Spring 2016
Fall 2016
Spring 2017
Number of Detections
Concentrations Average ug/l


Number of Detections and Average Concentrations for Vinyl Chloride at Gude Landfill
All monitoring Locations Since Spring 2011
Number of Detections and Average Concentrations in ug/l
25
20
15
10
5
0
Fall 2011
Spring 2012
Fall 2012
Spring 2013
Fall 2013
Spring 2014
Fall 2014
Spring 2015
Fall 2015
Spring 2016
Fall 2016
Spring 2017
Number of Detections
Concentrations Average ug/l

Appendix D

Tables of Metals

Results in (mg/l)

Table 3
Metals and Other Water Quality Parameters

	Parameter	OB01	OB02	OB02A	OB03	OB03A	OB04	OB04A	OB06	OB07	OB07A	OB08	OB08A	OB10	OB11	OB11A	OB12	OB15	OB25	OB102	OB105	ST15
Gude Landfill - SPRING 2017 Results	Alkalinity	57	102	63	250	33	295	143	296	187	153	205	206	131	240	107	135	270	335	1340	1420	59
	Ammonia	ND	ND	ND	0.697	0.31	1.65	0.307	ND	ND	ND	ND	0.243	ND	ND	0.299	ND	ND	1.15	16.7	43.3	ND
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.004	ND	ND	0.007	0.005	0.004	0.006	ND	ND	0.003	ND	0.003	0.002	0.006	0.005	ND	ND	ND	0.006	ND	ND
	Barium	0.237	0.069	0.477	0.312	0.384	0.478	0.065	0.195	0.043	0.052	0.135	0.057	0.102	0.027	0.161	0.015	0.094	0.123	0.378	0.452	0.044
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.013**	ND	ND	ND	ND	ND	ND	ND
	Calcium	76.4	25.3	111	176	72.9	77.2	135	148	125	109	61.9	55.8	62.6	138	121	37.2	22.6	81.2	118	143	28.9
	Chloride	411	32.2	407	525	539	187	539	376	214	298	52.2	83.6	183	436	428	87.2	17.9	211	519	346	240
	Chromium	ND	ND	ND	0.006	ND	0.006	0.006	ND	ND	0.003	0.002	0.003	0.002	0.008	0.008	0.004	0.003	ND	ND	ND	ND
	Cobalt	0.003	ND	ND	ND	0.056	0.058	ND	0.005	ND	ND	0.005	0.02	0.012	0.002	0.039	ND	0.005	0.034	0.071	0.0088	ND
	COD	ND	ND	ND	29.1	17.7	16.6	34	42.2	12.9	20.3	ND	ND	ND	25.3	26	ND	ND	16.9	229	148	14.3
	Copper	0.008	0.005	ND	0.036	0.013	0.006	0.03	0.014	ND	0.003	0.003	0.005	ND	0.006	0.015	0.003	0.019	0.024	0.167	0.0102	0.027
	Hardness	368	112	202	850	750	640	720	592	440	240	140	180	344	700	588	224	340	584	620	550	124
	Iron	0.426	1.3	1.21	0.9	28	23.3	0.816	1.87	1.25	0.631	0.429	4.23	1.33	0.911	2.37	ND	9.96	2.88	1.2	19.6	0.686
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	45.2	9.9	67.3	91.5	44.1	47.6	94.5	60.5	38.7	60	14.2	24	34.9	73.9	83.9	23.1	25	58.6	98.1	144	7.79
	Manganese	1.25	0.573	0.053	3.13	16.6	20.9	1.74	0.582	0.126	0.086	5.15	7.88	7.72	1.02	10.6	0.126	1.74	22.4	15.7	2.74	0.117
	Mercury	4E-04	ND	ND	ND	ND	ND	ND	ND	ND	4E-04	ND	ND	ND	8E-04	ND	ND	ND	ND	ND	ND	ND
	Nickel	0.014	ND	0.017	0.018	0.018	0.018	0.025	0.016	0.006	0.007	0.008	0.008	0.014	0.041	0.039	0.009	0.018	0.021	0.102	0.0157	0.006
	Nitrate	2.6	ND	1.38	ND	ND	ND	ND	0.288	0.732	0.934	ND	ND	ND	ND	ND	0.541	ND	1.71	ND	ND	1.07
	pH	5.68	7	5.55	5.81	5.93	6.1	5.68	6	6.59	5.81	6.47	6.2	5.99	5.68	5.94	5.54	6.28	6.51	6.74	6.96	6.99
	Potassium	4	3.33	5.53	6.97	8.34	5.9	4.96	4.39	3.22	2.4	2.62	2.66	3.24	4.58	5.24	2.31	2.21	15	52.6	86.3	2.63
	Selenium	ND	ND	ND	0.032	ND	0.005	0.034	0.021	0.013	0.014	ND	0.003	0.006	0.009	0.008	0.002	ND	0.006	0.011	0.0115	ND
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium	94.7	10.4	47.3	69.4	53.4	40.6	96.3	124	22	28.9	23.5	32.2	21.9	85.7	115	24.2	92.4	80	547	346	143
	Spec. Cond.	1201	222.8	1292	986	1008	1823	1771	1615	950	1129	478.5	583.1	717.8	1599	1736	471.2	633.5	1143	3128	3147	791.8
	Sulfate	18.8	5.25	19.3	17.5	11.5	9.87	12	91.5	29.1	42.4	7.83	ND	ND	12.7	11.1	12.3	68.1	44.3	43.5	134	9.19
	TDS	769	115	670	1070	454	524	1030	919	527	624	224	370	371	799	978	224	315	701	1830	1960	482
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Turbidity	0.00	7.70	0.00	0.30	7.30	0.00	2.50	40.10	27.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	48.10	6.30	44.40	7.00
	Vanadium	0.005	ND	0.005	0.004	ND	ND	0.004	0.005	ND	0.002	ND	ND	ND	0.004	0.003	ND	ND	ND	ND	ND	ND
	Zinc	0.007	0.005	0.009	0.007	0.011	0.013	0.022	0.019	0.005	0.002	0.002	0.004	0.004	0.041	0.018	0.003	0.044	0.017	0.012	0.022	0.006

ND: Not Detected
NS: Not Sampled
Note: Benchmark exceedances are indicated in Red

Table 3
Metals and Other Water Quality Parameters

	Parameter	ST65	ST70	ST80	ST120	MW1B	MW2A	MW2B	MW3A	MW3B	MW04	MW06	MW07	MW08	MW09	MW10	MW11A	MW11B	MW12	MW13A	MW13B
Gude Landfill - SPRING 2017 Results	Alkalinity	NS	80	40	82	47	65	57	13.6	91	47	210	290	216	46	64	35	67	36	43	217
	Ammonia	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Antimony	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND
	Barium	NS	0.06	0.047	0.063	0.007	0.023	0.009	0.009	0.015	0.033	0.317	0.092	0.094	0.045	0.078	0.055	0.0373	0.255	0.205	0.073
	Beryllium	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NS	34.5	21.7	41	9.17	9.17	8.39	4.17	22.8	ND	96.7	98.1	79.2	9.3	18.3	14.9	19.2	26.5	28.1	83.5
	Chloride	NS	106	77	159	2.82	4.31	2.66	ND	2.5	148	443	189	135	15.3	6.99	7.98	9.51	135	95	105
	Chromium	NS	ND	ND	ND	ND	0.009	ND	ND	ND	0.002	0.003	0.007	ND	0.003	ND	ND	ND	ND	ND	0.003
	Cobalt	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.57	0.016	0.006	ND	ND	ND	ND	ND	0.009	ND
	COD	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25	ND	ND	ND	ND	ND	ND	ND	11.8
	Copper	NS	0.012	0.006	ND	ND	0.012	0.002	ND	ND	0.002	0.022	0.013	0.018	ND	ND	ND	0.00593	0.002	0.007	ND
	Hardness	NS	168	120	186	42	40	40	34	70	192	630	126	400	72	76	70	80	140	134	340
	Iron	NS	0.456	0.532	0.755	ND	1.61	ND	0.411	0.24	0.234	0.798	2.36	2.14	ND	1.09	2.61	3.19	ND	0.871	0.419
	Lead	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NS	14.6	11.8	21.5	4.95	4.21	2.9	1.83	3.73	20.9	66.9	50.6	41.8	5.09	7.8	6.35	10.3	11.4	19.6	28.9
	Manganese	NS	0.191	0.113	0.094	0.009	0.247	0.061	0.021	0.014	0.045	45.5	1.92	0.192	0.028	0.024	0.05	0.0818	0.026	0.283	0.035
	Mercury	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	NS	0.008	ND	0.011	ND	0.025	0.005	ND	ND	0.002	0.068	0.01	0.01	ND	0.005	0.007	0.00586	0.003	0.01	0.005
	Nitrate	NS	0.666	1.27	1.33	ND	ND	ND	ND	ND	0.668	ND	0.254	6.84	0.941	ND	3.3	2.88	4.96	1.84	4.01
	pH	NS	7.01	7.39	7.13	6.02	5.65	5.19	5.7	6.97	5.71	5.97	5.95	6.9	5.3	5.77	5.39	6.21	5.15	5.02	5.95
	Potassium	NS	2.88	2.4	2.51	1.15	1.94	1.5	1	1.42	2.47	4.08	4.08	10.7	0.768	1.3	1.28	1.42	2.16	2.32	3.25
	Selenium	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	0.004	ND	ND	ND	ND	ND	ND	ND	0.002
	Silver	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium	NS	49.1	29.6	52	8.53	7.01	4.59	3.84	22.4	28	107	49.4	82.6	4.14	9.18	5.75	9.68	50.8	14.8	17.4
	Spec. Cond.	NS	457.7	310.4	571.5	88.9	84.3	72.1	28.9	197.7	499.4	1667	920.7	932	99	153.3	111.9	169.1	481.9	353.5	676.4
	Sulfate	NS	12	8.56	14.6	ND	ND	ND	ND	16.4	5.13	53.8	23.8	130	ND	10.1	4.9	ND	18.8	ND	13.5
	TDS	NS	253	213	318	ND	120	49	ND	40	282	1060	578	643	124	138	124	171	333	177	429
	Thallium	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Turbidity	NS	1.70	10.70	1.50	8.60	4.60	1.10	4.90	4.00	1.70	9.00	1.60	19.40	19.90	36.70	47.90	185.90	8.30	14.30	0.00
	Vanadium	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	ND	0.006	ND	ND	ND	0.0108	0.003	ND	ND
	Zinc	NS	0.014	ND	ND	ND	0.037	0.014	ND	0.006	0.003	0.042	0.015	0.018	0.006	0.011	0.015	0.0135	0.013	0.016	ND

ND: Not Detected
NS: Not Sampled
Note: Benchmark exceedances are indicated in Red

Table 4
Metals and Other Water Quality Parameters - Long Term Summary

Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location OB01	Alkalinity	NT	NT	104	95	103	93	112	100	73	80	66	86	77	81	70	72	70	57
	Ammonia	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Antimony	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0028	0.0038
	Barium	NT	0.1465	0.164	0.162	0.169	0.182	0.191	0.214	0.171	0.185	0.184	0.231	0.276	0.24	0.26	0.287	0.285	0.237
	Beryllium	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	64.9	67.6	68.2	76.2	73.8	81.24	69.1	73.3	73.4	86.6	89.2	95	91	90.6	101	76.4
	Chloride	NT	NT	196	204	241	262	291	322	284	291	303	379	411	430	421	456	481	411
	Chromium	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0077	ND
	Cobalt	NT	ND	0.009	0.0084	0.0101	0.0147	0.0289	0.0219	0.009	0.0111	0.0068	0.012	0.0148	0.013	0.0073	0.0074	0.0071	0.0026
	COD	NT	NT	ND	ND	5.1	6.9	ND	5.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Copper	NT	ND	0.007	0.0096	0.0094	0.0063	0.0065	0.0119	0.0058	0.0148	0.0061	0.0062	0.0087	0.0042	0.0052	0.0039	0.007	0.0082
	Hardness	NT	NT	330	320	350	364	390	420	342	346	356	440	472	520	504	452	520	368
	Iron	NT	NT	ND	ND	0.469	0.837	0.515	1.6	0.386	0.458	0.541	0.55	0.675	ND	ND	0.579	0.676	0.426
	Lead	NT	ND	ND	ND	ND	ND	0.0054	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	36	40.3	38.9	45.3	46.3	48.58	38.6	45	44	52.1	53	61	54	56.3	61.9	45.2
	Manganese	NT	NT	2.77	3.17	3.95	5.07	7.98	6.33	3.74	3.8	3.59	4.99	5.72	5.3	4.1	5.04	3.34	1.25
	Mercury	NT	ND	ND	ND	ND	ND	ND	0.0004	ND	ND	ND	ND	ND	0.0002	ND	ND	ND	0.0004
	Nickel	NT	0.0182	0.026	0.0264	0.0304	0.0307	0.0381	0.0406	0.0319	0.0324	0.0258	0.0313	0.0387	0.04	0.025	0.0226	0.0331	0.014
	Nitrate	NT	NT	1.67	1.94	1.907	1.79	1.34	1.56	2.13	2.21	2.28	2.28	2.11	2.47	2.59	2.57	2.29	2.6
	pH	NT	NT	5.82	5.08			5.51	5.62	5.14	5.87	5.46	5.67	5.65	5.77	5.7	5.74	5.78	5.68
	Potassium	NT	NT	3.52	3.64	3.36	3.81	3.78	4.57	3.85	4.55	3.95	4.35	4.43	5.1	5	4.38	4.51	4
	Selenium	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0023	0.004	ND
	Silver	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0006	ND	ND
	Sodium	NT	NT	47.4	54.5	51.8	58.2	66.3	77.79	57.2	73.6	63.5	94.1	95.4	120	97	125	120	94.7
	Spec. Cond.	NT	NT	855.9	920.7			980.9	1218	1060	1223	1052	1293	1379	1391	1454	1537	1618	1201
	Sulfate	NT	NT	26.4	24.9	26.6	26.8	28.8	26.1	24.2	22.3	25.7	26.5	28	26.5	26.2	24.9	26.1	18.8
	TDS	NT	NT	776	912	1176	856	1116	876	856	980	840	758	940	960	870	ND	1080	769
	Thallium	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	928	ND	ND
	Turbidity	NT	NT	0.186	0.18	0.98	1.96	NT	NT	NS	1.4	3.6	0	3.1	0	1.21	0	0.00	0.00
	Vanadium	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0036	0.0047
	Zinc	NT	0.012	ND	0.013	0.0107	0.0116	0.0128	0.0163	0.0112	0.0118	0.012	0.0133	0.0174	0.013	0.011	0.0087	0.0106	0.0073

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Table 4
Metals and Other Water Quality Parameters - Long Term Summary

Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location OB02	Alkalinity	NT	NT	67	57	72	70	72	68	68	67	65	67	66	72	73	67	85	102
	Ammonia	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Antimony	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium	0.1338	0.1568	0.296	0.344	0.126	0.531	0.0771	0.0702	0.427	0.05	0.0524	0.0575	0.0636	0.12	0.13	0.0814	0.147	0.0687
	Beryllium	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	60.6	73.9	39.1	72.2	28.2	28.37	103	20.9	23.6	23.3	23.6	35	42	39	49.7	25.3
	Chloride	NT	NT	212	264	90	47.3	51.1	49.9	404	27.8	32.2	24.3	44.8	101	107	54.8	109	32.2
	Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0072	0.019	ND	ND	ND
	Cobalt	ND	ND	0.0057	0.0071	ND	0.0587	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	COD	NT	NT	ND	ND	ND	ND	ND	ND	ND	34.6	ND	ND	ND	ND	ND	ND	ND	ND
	Copper	0.0074	0.0055	0.006	0.0103	0.0069	ND	ND	0.0063	ND	0.0106	ND	0.0086	ND	0.0044	ND	ND	ND	0.0055
	Hardness	NT	NT	350	376	169	130	125	116	500	86	98	106	118	170	202	120	196	112
	Iron	NT	NT	2.66	2.59	0.818	25.2	0.768	1.18	0.586	0.725	1.01	3.27	0.922	1.4	1.1	0.612	1.36	1.3
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	32.2	43.3	17.7	59.3	12.1	11.97	59	9.45	9.94	9.4	10.6	17	20	16.6	20.1	9.9
	Manganese	NT	NT	1.21	1.34	1.24	10.1	0.876	0.919	0.0582	0.6	0.623	0.686	0.699	0.84	1.4	0.8	1.27	0.573
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	ND	0.0021	0.0082	0.011	ND	0.0168	ND	ND	0.0141	ND	ND	0.0056	ND	ND	0.018	ND	ND	ND
	Nitrate	NT	NT	ND	ND	ND	ND	ND	ND	0.575	ND	ND	ND	ND	ND	ND	ND	ND	ND
	pH	NT	NT	8.27	5.35			6.71	6.94	6.6	7.16	6.74	6.85	7.1	6.66	6.77	7.02	6.41	7
	Potassium	NT	NT	5.91	7.07	4.43	13.7	3.99	3.76	5.69	3.33	3.25	3.48	3.27	4.1	5	3.41	4.53	3.33
	Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium	NT	NT	22.6	30.6	17.8	111	11	15.64	34.5	14.8	10.2	10	10.3	13	15	15.6	15.7	10.4
	Spec. Cond.	NT	NT	665	910.3			318.1	302.2	261.2	252.9	229.3	199	268	388.5	508.5	301.1	484.7	222.8
	Sulfate	NT	NT	13.5	14.9	7.38	4.24	5.87	4.51	20.2	5.14	4.79	4.96	5.54	7.29	6.27	6.19	8.24	5.25
	TDS	NT	NT	780	1008	388	336	1264	252	1124	152	174	178	166	286	320	ND	382	115
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	263	ND	ND
	Turbidity	NT	NT	10.3	6.4	2.6	33.3	NT	NT	NS	7.5	35.3	83.2	10.5	23.9	14.9	3	16.40	7.70
	Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Zinc	0.0074	0.0091	ND	0.0187	0.0053	0.0077	0.0064	0.0063	0.0086	ND	0.0062	0.0162	0.0082	ND	ND	ND	0.0059	0.0054

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Metals and Other Water Quality Parameters - Long Term Summary

Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location OB02A	Alkalinity	NT	NT	38	36	40	35	36	36	33	33	34	33	37	32	37	35	38	63
	Ammonia	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Antimony	NT	0.0033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium	0.1676	0.2743	0.354	0.297	0.345	0.349	0.397	0.356	0.0568	0.385	0.439	0.399	0.436	0.3	0.46	0.436	0.473	0.477
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	77.5	76.4	87.1	82.9	96.3	94	24.7	90.3	112	88.9	91.2	80	110	102	103	111
	Chloride	NT	NT	280	286	310	302	350	334	36	335	419	359	383	299	431	391	405	407
	Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0033	ND	ND	ND	ND
	Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	COD	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Copper	0.0061	0.0064	0.0054	0.0075	0.0077	0.0053	ND	0.0051	ND	0.0112	ND	ND	ND	0.0035	ND	ND	ND	ND
	Hardness	NT	NT	390	353	420	391	463	414	112	426	520	444	498	432	580	508	552	202
	Iron	NT	NT	0.414	0.6	0.682	ND	0.58	0.396	0.793	0.486	0.521	0.574	0.567	0.62	ND	0.703	1.33	1.21
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	46.4	44.4	52.3	53.4	59.1	53.1	10.6	52.4	66.7	49.2	54.3	42	64	59.6	62.7	67.3
	Manganese	NT	NT	0.0381	0.0382	0.0449	0.0513	0.0465	0.0449	0.718	0.0418	0.0548	0.0469	0.0503	0.031	0.043	0.0544	0.0519	0.0533
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	0.0077	0.0073	0.0122	0.0099	0.012	0.011	0.0114	0.0135	ND	0.0116	0.0129	0.0148	0.0125	ND	ND	0.0111	0.012	0.0168
	Nitrate	NT	NT	0.5894	0.582	0.589	0.543	0.576	0.582	ND	0.623	0.616	0.651	0.614	0.625	0.693	0.99	0.944	1.38
	pH	NT	NT	5.75	4.77			5.09	5.41	5.25	5.7	5.34	5.33	5.77	5.49	5.59	5.58	5.66	5.55
	Potassium	NT	NT	4.73	4.1	4.69	5.2	5.78	4.82	3.56	5.24	5.51	5.01	4.95	3.5	5.9	4.46	5.43	5.53
	Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium	NT	NT	31.2	32.5	35	31.6	34.9	37.5	10.9	35.9	39.8	30.9	36.8	26	46	41.2	43.7	47.3
	Spec. Cond.	NT	NT	636.7	925.5			1263	1120	1386	1286	1327	1125	1249	851.1	1365	1230	686	1292
	Sulfate	NT	NT	22.4	16.2	25.4	17.8	21.5	18.4	4.91	19.3	22.2	22.5	22.9	17.5	21.5	23.5	23.2	19.3
	TDS	NT	NT	1088	1072	1192	288	68	824	176	796	1072	944	826	644	932	ND	936	670
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	770	ND	ND
	Turbidity	NT	NT	3.83	1.16	0.891	0.416	NT	NT	NS	0	0	1.62	1.4	5.4	2.61	4.6	0.00	0.00
	Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	0.0052
	Zinc	ND	0.0131	ND	0.0071	0.0081	0.0082	0.0078	0.0065	0.0061	0.007	0.0088	0.0076	0.0097	0.013	ND	0.0047	0.005	0.0091

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Metals and Other Water Quality Parameters - Long Term Summary

Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location OB03	Alkalinity	NT	NT	265	321	242	267	216	187	241	221	233	212	227	213	243	210	248	250
	Ammonia	NT	NT	2.39	6.46	2.9	4.97	2.56	3.48	2.43	2.7	2.29	3.45	3.15	2.77	2.39	2.04	1.95	0.697
	Antimony	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	ND	ND	0.0024	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0031	0.0028	0.0026	0.0025	0.0065
	Barium	0.5928	0.5995	0.588	0.856	0.592	0.736	0.58	0.697	0.571	0.573	0.598	0.554	0.536	0.52	0.49	0.5	0.467	0.312
	Beryllium	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	59.9	80.3	62.3	69	65.3	74.4	64.3	67.4	64.4	65.6	60.2	70	74	69.6	69	176
	Chloride	NT	NT	134	193	155	220	163	222	169	192	157	201	194	202	183	201	189	525
	Chromium	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.035	0.0025	ND	0.0059
	Cobalt	0.053	0.0569	0.0643	0.0662	0.0659	0.0629	0.0554	0.0634	0.067	0.0531	0.0566	0.0526	0.0522	0.056	0.061	0.0484	0.0544	ND
	COD	NT	NT	13.6	34.9	10.1	28.8	16.8	24.3	18	17.8	13.2	15.6	19.7	18.3	21.2	19.3	17.3	29.1
	Copper	0.0077	0.0978	0.0063	0.0084	0.0124	0.0076	ND	0.0082	ND	0.0113	ND	ND	ND	0.0019	ND	ND	ND	0.0363
	Hardness	NT	NT	690	700	400	3600	410	400	360	348	330	420	370	404	620	396	376	850
	Iron	NT	NT	28.8	34.6	25	23.6	22.19	23.68	21.7	21.8	20.6	19	17.6	21	21	20.9	22.4	0.9
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	33.2	52.8	35.6	47.1	41.1	42.7	37	35.2	38.6	37.4	35.3	40	41	40.7	40.6	91.5
	Manganese	NT	NT	18.5	18.8	21.3	18.5	19	19.6	18.8	19.5	19.4	17.3	20.6	19	19	26.8	18.8	3.13
	Mercury	ND	ND	ND	ND	ND	ND	ND	0.0003	ND	ND	0.0005	ND	ND	ND	ND	ND	ND	ND
	Nickel	0.0142	0.09	0.0183	0.0167	0.0197	0.0176	0.0164	0.0215	0.0217	0.0174	0.0188	0.0176	0.0165	ND	0.032	0.0126	0.0145	0.0177
	Nitrate	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	pH	NT	NT	6.19	4.74			5.97	5.78	5.15	5.93	5.84	5.73	6.01	5.81	5.78	6.09	5.6	5.81
	Potassium	NT	NT	10.2	10.9	6.94	10.1	7	7.95	6.77	9.31	5.77	8.52	7.12	7	7.4	5.72	6.28	6.97
	Selenium	NT	NT	ND	ND	ND	ND	ND	0.0055	ND	ND	ND	ND	ND	ND	ND	0.0029	0.0027	0.0317
	Silver	ND	0.0154	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium	NT	ND	35.9	92.8	41.6	74.2	44.2	58.9	35.7	43.8	35.7	53.8	43.6	47	41	42.9	38.4	69.4
	Spec. Cond.	NT	NT	902	1405			814.1	1140	960.6	1138	887.2	1025	980.6	824.4	952	970.2	978	986
	Sulfate	NT	NT	8.84	31.4	16.7	41.4	22	28.5	13.1	18.6	16.8	36.2	23.4	32.2	12.6	21.5	14.3	17.5
	TDS	NT	NT	564	984	676	784	804	888	604	572	568	602	540	584	516	0.0011	562	1070
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0011	0.0013	574	0.0011	ND
	Turbidity	NT	NT	11	24.4	22.9	2.81	NT	NT	NS	0	0	1.18	0	0	9.8	0	0.00	0.30
	Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0045
	Zinc	ND	0.0336	ND	0.0118	0.0165	0.0148	0.0141	0.0175	0.0148	0.0142	0.0154	0.0137	0.0166	0.013	0.015	0.0093	0.0105	0.0071

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Monitoring Location OB03A	Alkalinity	NT	NT	317	461	270	340	226	266	268	338	260	278	257	292	286	299	293	33
	Ammonia	NT	NT	6.47	8.93	4.35	7.91	5.09	6.15	4.51	6.67	4.18	6.76	4.96	4.64	3.65	5.97	3.95	0.31
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	**0.0106**	ND	0.0036	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0035	0.0026	ND	0.0065	0.0055
	Barium	0.5699	0.593	0.568	0.421	0.581	0.0796	0.529	0.51	0.495	0.435	0.543	0.376	0.419	0.25	0.32	0.235	0.306	0.384
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0011	ND	ND	ND
	Cadmium	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	69.4	91.6	66	24.8	68.5	76	62.3	70.9	67.2	62.8	58.6	78	80	76.5	70.1	72.9
	Chloride	NT	NT	194	164	176	239	193	245	185	229	177	217	213	180	182	200	186	539
	Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cobalt	0.0617	0.063	0.0698	0.0458	0.0684	ND	0.0563	0.057	0.0672	0.0441	0.0561	0.047	0.0496	0.034	0.044	0.0331	0.0402	0.0561
	COD	NT	NT	19.1	38.5	12.1	35	22.5	31.1	19.5	52.1	17.5	19	21.1	18.4	24.4	23.4	18	17.7
	Copper	0.0083	ND	0.0064	0.0084	0.008	0.0108	ND	0.0096	ND	0.011	ND	ND	ND	0.0013	ND	ND	0.0027	0.0125
	Hardness	NT	NT	700	670	360	580	375	420	350	400	360	560	190	440	540	392	384	750
	Iron	NT	NT	39.4	49.3	31	2.71	29.71	29.85	26.5	29.6	25.6	20.7	20.6	13	23	21.4	35.6	28
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	44.4	66.8	41.6	15.8	48.7	52.7	39.3	51.4	43	44.4	37.6	46	44	58.4	43.6	44.1
	Manganese	NT	NT	13.3	6.35	16.4	0.982	14.2	13.7	15.4	11.2	16	8.71	15	6.6	15	6.37	12.3	16.6
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	0.0166	0.016	0.02	0.0157	0.0194	ND	0.0158	0.0185	0.021	0.0142	0.0181	0.0162	0.015	ND	ND	0.0107	0.011	0.0175
	Nitrate	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.49	0.559	ND	ND	ND
	pH	NT	NT	5.76	4.98			6.03	6.04	5.2	6.29	5.34	6.03	6.16	7.1	6.18	6.29	6.19	5.93
	Potassium	NT	NT	12.4	19.2	9.18	4.68	9.64	13.1	9.64	16.6	8.17	15	10	15	11	12.1	10.7	8.34
	Selenium	ND	ND	0.0024	ND	ND	ND	ND	0.0059	ND	ND	ND	ND	ND	ND	ND	ND	0.0024	ND
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium	NT	NT	70.3	132	58.5	14.4	70.5	91	52.2	97.8	55.7	83.7	60.1	96	61	109	63.1	53.4
	Spec. Cond.	NT	NT	1023	1661			975.1	1379	1082	1517	998.1	1220	1117	1021	1112	1152	1184	1008
	Sulfate	NT	NT	33.5	75.4	26.9	58.4	31.5	41.8	21.2	36	29.7	59.7	34.3	92.4	29.7	72.3	45.2	11.5
	TDS	NT	NT	780	1112	704	980	888	952	632	796	578	724	560	706	590	ND	650	454
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0019	ND	321	ND	ND
	Turbidity	NT	NT	39.4	271	13.3	13.6	NT	NT	NS	1.8	3.8	2.86	6.2	10	62.7	14.2	98.50	7.30
	Vanadium	0.0036	0.0005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Zinc	0.0182	0.0182	0.011	0.0087	0.0131	0.0147	0.0089	0.0142	0.0099	0.0064	0.0117	0.0074	0.0129	0.0053	0.012	0.0064	0.0064	0.0114

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Table 4
Metals and Other Water Quality Parameters - Long Term Summary

Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location OB04	Alkalinity	NT	NT	221	242	255	238	242	261	248	244	249	248	265	250	270	249	245	295
	Ammonia	NT	NT	0.328	0.542	0.514	0.695	0.673	0.667	0.771	0.733	0.666	0.782	0.939	0.826	1.04	0.787	0.722	1.65
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	ND	ND	0.0034	ND	0.0055	ND	ND	0.0091	0.0086	0.0093	ND	0.0088	ND	0.0079	0.0054	0.0041	0.0042	0.0038
	Barium	0.2255	0.2468	0.261	0.254	0.255	0.264	0.255	0.281	0.247	0.274	0.265	0.294	0.291	0.28	0.28	0.309	0.294	0.478
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	154	160	159	154	157	173	157	151	164	175	169	180	170	170	165	77.2
	Chloride	NT	NT	412	193	424	433	416	473	448	449	455	453	462	503	482	496	492	187
	Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006
	Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0575
	COD	NT	NT	26.3	25.2	29.8	30.7	29.2	34.1	26.7	31.3	23.7	34.8	38	33.1	35	32	39.4	16.6
	Copper	0.0087	0.0311	0.0344	0.0388	0.0418	0.0367	0.0314	0.0377	0.0353	0.0475	0.0354	0.0382	0.0393	0.036	0.039	0.036	0.0321	0.0057
	Hardness	NT	NT	670	610	680	717	705	714	712	730	740	742	762	764	760	780	760	640
	Iron	NT	NT	0.343	1.13	1.2	ND	0.92	0.804	0.824	0.751	0.729	0.921	0.993	ND	ND	1	1.07	23.3
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	75.1	83.7	81	88.1	89.1	88.9	76.6	78.1	82	88.3	86.1	89	86	87.4	86.1	47.6
	Manganese	NT	NT	1.32	1.81	1.84	1.94	2.03	2.07	2.28	2.55	2.59	2.63	2.95	2.6	3.2	5.14	2.85	20.9
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	0.0118	ND	0.0137	0.0124	0.0145	0.0132	0.0115	0.0178	0.0179	0.0204	0.0139	0.0174	0.0149	ND	0.011	0.0136	0.0125	0.0179
	Nitrate	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	pH	NT	NT	6.71	5.3			5.88	5.65	5.67	6.22	6.12	6.17	6.32	6.07	5.99	6.21	5.87	6.1
	Potassium	NT	NT	6.32	6.52	6.45	7.29	7.18	7.03	7.72	8.21	7.21	7.74	7.71	7.4	8.4	6.85	6.72	5.9
	Selenium	0.0058	ND	0.0167	0.0066	0.0219	0.0193	0.0144	0.032	0.0321	0.037	0.0212	0.0303	0.0208	0.027	0.022	0.0195	0.0174	0.0049
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium	NT	NT	71	77.6	73.8	74.4	74.3	73.3	63.2	66.6	64.8	71.4	73.1	65	71	69.3	68.1	40.6
	Spec. Cond.	NT	NT	1673	1758			1503	1817	1828	2022	1737	1742	1840	1685	1881	1835	1857	1823
	Sulfate	NT	NT	18.8	21.1	28.4	19.6	22.3	19.5	18.3	16.1	21	22.8	27.9	20.2	17.9	21.6	19	9.87
	TDS	NT	NT	1348	1772	1760	1428	1736	1632	1432	1600	1304	1256	1168	1112	1142	ND	1360	524
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1150	ND	ND
	Turbidity	NT	NT	1.07	0.24	0.632	0.421	NT	NT	NS	0	0	1.02	0	0.6	0	0	0.00	0.00
	Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Zinc	ND	0.0138	ND	0.0076	0.0078	0.0083	0.0074	0.0069	0.0089	0.0079	0.008	0.01	0.0109	0.0064	0.006	0.0056	0.0051	0.0133

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Table 4
Metals and Other Water Quality Parameters - Long Term Summary

Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location OB04A	Alkalinity	NT	NT	125	142	135	133	127	129	123	129	127	133	144	1250	131	132	145	143
	Ammonia	NT	NT	0.301	0.366	0.281	0.379	0.316	0.218	0.299	0.285	0.229	0.309	0.478	0.368	0.372	0.327	0.377	0.307
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	ND	ND	0.0036	ND	0.0061	0.0053	ND	**0.0105**	**0.0107**	**0.0105**	0.0056	**0.0106**	0.0051	0.0082	0.0067	0.0046	0.0048	0.0064
	Barium	0.049	0.0512	0.0542	0.0555	0.0539	0.0579	0.0555	0.0614	0.0553	0.0622	0.0612	0.0681	0.0681	0.059	0.061	0.0686	0.0654	0.065
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	109	116	113	117	118	124	118	126	123	142	121	130	130	129	122	135
	Chloride	NT	NT	438	311	468	473	460	531	501	498	501	512	530	544	541	580	543	539
	Chromium	ND	ND	0.0021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.15	ND	ND	ND	0.0057
	Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	COD	NT	NT	31.3	26.4	29.5	39.3	27.5	33	33.3	28.8	65.6	27.6	34.6	35.6	39.7	35.5	47.5	34
	Copper	0.027	0.0288	0.0328	0.0321	0.0324	0.0283	0.0236	0.0295	0.0256	0.0364	0.0284	0.0281	0.0291	0.03	0.028	0.028	0.0254	0.03
	Hardness	NT	NT	570	550	600	592	602	622	598	604	616	640	684	694	680	690	700	720
	Iron	NT	NT	0.998	1.57	1.24	0.636	0.712	1.12	0.615	0.806	0.932	1.05	0.998	0.5	ND	0.941	0.842	0.816
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	71.9	86.1	80.3	94.8	85.5	88.8	81	89.6	85.5	98.8	85.2	89	89	91.1	85.1	94.5
	Manganese	NT	NT	0.969	1.07	1.13	1.12	1.1	1.01	1.12	1.23	1.48	1.32	1.58	1.6	1.7	1.84	1.76	1.74
	Mercury	ND	ND	0.0003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	0.0172	0.0159	0.021	0.0194	0.0207	0.0193	0.017	0.0234	0.0239	0.0255	0.021	0.0238	0.0219	ND	0.017	0.0225	0.0209	0.0253
	Nitrate	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	pH	NT	NT	5.82	4.84			5.43	5.57	5.29	5.85	5.69	5.77	5.92	6.41	5.63	5.76	5.46	5.68
	Potassium	NT	NT	4.93	5.25	4.92	5.92	4.99	5.73	5.42	5.96	5.15	5.38	5.51	5.3	5.9	5.74	4.97	4.96
	Selenium	0.0064	ND	0.0174	0.0071	0.0243	0.0223	0.0161	0.0373	0.0391	0.0434	0.0239	0.0358	0.0233	0.028	0.026	0.0226	0.0197	0.0339
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium	NT	NT	89.1	101	91.9	100	91.1	95	89	100	90.4	106	89.6	94	89	90.3	84.3	96.3
	Spec. Cond.	NT	NT	1943	1678			1438	1752	1785	1985	1697	1720	1818	1577	1837	1836	1862	1771
	Sulfate	NT	NT	12.1	12.9	12.8	11.5	11	11.1	11.5	9	11.7	12	14	11	9.29	12.2	11.3	12
	TDS	NT	NT	1200	1764	1672	1356	1636	1508	1476	1596	1262	1242	1138	1088	1169	ND	1200	1030
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1070	ND	ND
	Turbidity	NT	NT	10.3	16.8	16.3	5.83	NT	NT	NS	12.3	18.2	14.1	7.2	0	0.81	0	0.00	2.50
	Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0043
	Zinc	0.0273	0.0321	0.024	0.0227	0.0214	0.021	0.0204	0.0227	0.0222	0.0228	0.0227	0.0239	0.026	0.024	0.023	0.022	0.0186	0.0218

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Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location OB06	Alkalinity	NT	NT	150	170	220	145	156	175	161	178	188	203	182	197	220	231	244	296
	Ammonia	NT	NT	ND	ND	ND	0.389	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	ND	ND	0.0032	ND	0.0067	ND	ND	ND	ND	ND	ND	ND	ND	0.0047	0.0059	0.0027	ND	ND
	Barium	0.17	0.1941	0.196	0.267	0.507	0.536	0.195	0.221	0.19	0.196	0.18	0.205	0.193	0.17	0.17	0.193	0.199	0.195
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	148	147	126	145	137.5	142	148	135	136	146	130	140	140	90.8	136	148
	Chloride	NT	NT	356	222	360	356	350	383	374	382	376	373	365	372	365	382	384	376
	Chromium	ND	0.0127	0.0021	0.021	**0.127**	0.0199	ND	0.0133	0.0063	ND	ND	0.0073	ND	ND	ND	0.0027	ND	ND
	Cobalt	0.0052	ND	0.0059	0.0111	0.0326	0.0101	ND	0.0069	0.0066	ND	ND	0.0057	ND	ND	0.005	0.0046	ND	0.0053
	COD	NT	NT	68	55.1	31.5	38.9	32.9	44	38.1	43	36.2	44.6	41.5	43.2	48.4	29.5	43.3	42.2
	Copper	0.0101	0.0117	0.0116	0.0327	0.207	0.0444	0.0068	0.0309	0.015	0.0158	0.0091	0.0164	0.0106	0.0051	ND	0.005	0.0075	0.0138
	Hardness	NT	NT	580	560	550	553	552	582	566	582	584	632	584	586	572	576	560	592
	Iron	NT	NT	1.7	29.2	111	15.5	1.05	12.2	5.07	1.17	1.4	7.3	2.69	0.64	1.5	1.04	1.75	1.87
	Lead	ND	ND	ND	0.0126	**0.0503**	**0.0474**	ND	0.0081	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	56.6	64.4	78.8	63	55.9	61.3	61.1	55.3	54.7	61.9	55.5	55	58	56.2	56.7	60.5
	Manganese	NT	NT	0.482	0.668	1.57	0.862	0.487	0.592	0.589	0.496	0.481	0.557	0.494	0.47	0.57	0.568	0.558	0.582
	Mercury	ND	ND	ND	**0.0029**	0.0015	**0.0085**	0.0009	0.0005	0.0004	ND	ND	0.0005	ND	ND	0.0002	ND	ND	ND
	Nickel	0.0129	0.02	0.0166	0.0349	0.131	0.0245	0.0112	0.0207	0.0184	0.0126	0.0114	0.0151	0.0129	0.014	ND	0.0104	0.0112	0.0163
	Nitrate	NT	NT	0.6869	0.6679	0.87	0.758	0.786	0.708	0.674	0.554	0.559	0.486	0.609	0.59	0.535	0.41	0.364	0.288
	pH	NT	NT	5.62	5.69			5.51	5.76	5.42	6.03	5.7	5.96	5.94	6.31	5.87	6.24	6.07	6
	Potassium	NT	NT	4.82	6.71	28.8	6.2	4.72	7.39	5.52	6.2	4.75	5.57	4.68	4.4	5.1	4.13	4.35	4.39
	Selenium	0.0088	ND	0.0147	0.008	0.023	0.0201	0.0122	0.0121	0.0151	0.0169	0.0124	0.0117	0.0134	0.014	0.017	0.0121	0.0107	0.0211
	Silver	ND	ND	ND	0.0088	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0002	ND	ND
	Sodium	NT	NT	83.3	92	70.4	80.3	81	94.3	88.7	92.2	87.3	105	91	100	110	125	108	124
	Spec. Cond.	NT	NT	1564	1571			1289	1600	1618	1247	1537	1567	1490	313.4	1618	1625	1670	1615
	Sulfate	NT	NT	82.9	85.1	81.7	85.7	93.7	76.8	89.6	86.5	101	89.8	92.6	89.9	102	99.3	102	91.5
	TDS	NT	NT	1116	1388	1784	1192	960	1156	1224	1124	1150	982	1034	970	913	ND	1080	919
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	979	ND	ND
	Turbidity	NT	NT	21.7	533	3329	3800	NT	NT	NS	44.6	38.5	206	58.9	35.5	36.4	20.1	66.90	40.10
	Vanadium	ND	ND	ND	0.0204	0.133	0.0213	ND	0.0148	ND	ND	ND	0.0074	ND	ND	ND	ND	ND	0.005
	Zinc	0.0414	0.0414	0.0321	0.116	0.372	0.0997	0.0213	0.0545	0.0385	0.021	0.0208	0.0357	0.0283	0.019	0.022	0.0128	0.0162	0.0194

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Monitoring Location OB07	Alkalinity	NT	NT	163	161	184	175	169	176	172	178	181	191	196	184	200	198	204	187
	Ammonia	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0021	0.0029	ND	ND	ND
	Barium	0.0406	0.0252	0.025	0.0414	0.0333	0.0256	0.0257	0.0261	0.0265	0.0338	0.0287	0.029	0.0325	0.038	0.024	0.0285	0.0288	0.0427
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	99.5	105	102	114	112.5	108	113	115	123	127	124	130	130	131	128	125
	Chloride	NT	NT	150	48.8	171	193	194	199	202	222	223	226	243	206	235	236	224	214
	Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	COD	NT	NT	ND	13.6	ND	14	5.2	11.7	ND	11.2	ND	14.3	15.9	11.3	13.8	ND	12	12.9
	Copper	0.008	ND	0.0062	0.0126	0.0132	ND	ND	0.0091	0.0056	0.0135	ND	ND	ND	0.0052	ND	0.0025	0.0028	ND
	Hardness	NT	NT	331	350	360	407	409	412	410	434	452	494	508	450	488	464	476	440
	Iron	NT	NT	0.262	1.07	2.14	1.08	0.659	0.957	0.837	1.78	0.564	0.699	0.742	0.78	ND	0.924	1.09	1.25
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0013	ND	ND	ND	ND
	Magnesium	NT	NT	26.1	29.7	28.5	35.2	34.8	33.6	33.3	33.9	37.7	40.3	39.9	36	38	39.6	38.8	38.7
	Manganese	NT	NT	0.0317	0.281	0.221	0.0338	0.0369	0.113	0.0724	0.0827	0.0415	0.0394	0.039	0.15	0.062	0.077	0.101	0.126
	Mercury	ND	ND	ND	ND	0.0003	0.0005	0.0003	0.0003	0.0005	0.0004	0.0004	0.0005	0.0005	0.0003	0.0004	0.0002	0.0002	ND
	Nickel	ND	ND	0.0047	0.0057	ND	ND	ND	ND	ND	ND	0.0057	ND	ND	0.0054	ND	0.002	0.0023	0.0059
	Nitrate	NT	NT	0.5482	0.5966	0.658	0.861	0.819	0.8232	0.8309	0.8996	0.96	0.9667	1	0.846	0.9093	0.8753	0.7904	0.732
	pH	NT	NT	7.04	5.95			6.34	6.55	6.17	6.74	6.41	6.58	6.65	6.63	6.64	6.86	6.47	6.59
	Potassium	NT	NT	3.07	3.23	3.13	3.24	3.42	3.4	3.54	4.66	3.47	3.3	3.45	3.7	3.8	3.24	3.27	3.22
	Selenium	ND	ND	0.0044	ND	0.0058	0.0071	0.0066	0.0051	0.0071	0.0087	0.0064	0.0063	0.0084	0.0085	0.012	0.0074	0.0076	0.0131
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium	NT	NT	21.4	23.3	21.9	21.3	20.8	24.5	19.5	22.9	20.8	22.1	22.6	21	22	22.2	21.9	22
	Spec. Cond.	NT	NT	760	828.1			806.2	937.2	973.5	1115	992.5	1025	1057	874	1048	1018	1031	950
	Sulfate	NT	NT	13.4	15.2	19.2	20.4	21	20.2	23	24.1	24.6	27.9	32.5	26.9	29.5	28.8	30.2	29.1
	TDS	NT	NT	644	764	1068	800	984	708	828	666	724	624	824	636	625	ND	807	527
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	791	ND	ND
	Turbidity	NT	NT	0.283	14.3	40.7	0.939	NT	NT	NS	42.5	0	1.23	0.3	24.1	5	14.1	19.80	27.10
	Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Zinc	ND	ND	ND	0.0126	0.0112	ND	0.0058	0.0058	0.0062	0.0075	0.0054	ND	0.0086	0.0087	ND	ND	0.0022	0.005

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Table 4
Metals and Other Water Quality Parameters - Long Term Summary

Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location OB07A	Alkalinity	NT	NT	124	92	115	112	115	122	119	112	120	118	114	119	120	70	77	153
	Ammonia	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0028	0.0036	ND	ND	0.0028
	Barium	0.0864	0.0419	0.0431	0.0693	0.037	0.0401	0.0432	0.0405	0.0485	0.045	0.0455	0.0458	0.0463	0.043	0.039	0.0401	0.041	0.0523
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	91.8	55.8	72	86.5	90	82.9	94.3	87.3	93.6	93.5	80.2	87	92	50.1	49	109
	Chloride	NT	NT	235	74.5	205	216	246	244	265	255	268	260	240	254	272	136	132	298
	Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0033	ND	ND	ND	0.0028
	Cobalt	ND	ND	ND	0.0059	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	COD	NT	NT	17.8	6.1	9.7	16.5	10	16.9	15	17.3	12.8	18.2	21.3	16.6	20.2	ND	ND	20.3
	Copper	0.0116	ND	0.0058	0.0128	0.0078	ND	ND	0.0059	ND	0.0116	0.0055	ND	ND	0.002	ND	ND	ND	0.0028
	Hardness	NT	NT	420	205	350	390	424	408	436	420	448	450	416	434	436	252	226	240
	Iron	NT	NT	0.239	ND	0.5	0.819	0.538	0.458	0.576	0.615	0.43	0.533	0.52	ND	ND	0.284	0.409	0.631
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	51.2	21.7	41.6	49.3	52.5	48.3	50.2	48.9	51.9	52.9	46	50	53	21.9	22.2	60
	Manganese	NT	NT	0.0592	0.753	0.0954	0.07	0.0716	0.0676	0.0891	0.0753	0.0704	0.0665	0.0762	0.094	0.054	0.153	0.202	0.0862
	Mercury	0.0004	0.0009	0.001	0.0003	0.0005	0.0008	0.0006	0.0011	0.0012	0.0007	0.0007	0.0008	0.0007	0.001	0.0008	ND	ND	0.0004
	Nickel	0.0041	ND	0.006	0.0099	ND	ND	ND	ND	0.0053	ND	0.0066	ND	ND	0.009	ND	0.0054	0.0053	0.0072
	Nitrate	NT	NT	0.8907	ND	0.9	0.902	0.891	0.97	0.97	1	1	0.97	0.942	1.01	1.03	0.364	0.343	0.9337
	pH	NT	NT	6.51	5.94			5.6	5.86	5.81	6.05	5.7	5.94	6.05	6.34	5.77	6.04	5.95	5.81
	Potassium	NT	NT	2.66	7.32	2.56	2.3	2.44	2.45	2.8	3.12	2.55	2.45	2.25	2.4	2.5	2.76	3	2.4
	Selenium	ND	ND	0.0083	ND	0.0064	0.0095	0.0094	0.0059	0.0084	0.0087	0.0089	0.0069	0.0093	0.011	0.013	0.0045	0.0046	0.014
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium	NT	NT	30.2	23.8	26.1	25.6	26.3	28.6	24.8	27.1	24.9	26.1	24.2	24	27	16	16.4	28.9
	Spec. Cond.	NT	NT	706.7	565.4			860.9	994.7	1082	1157	1016	996.9	909	856.8	1014	515.1	546	1129
	Sulfate	NT	NT	22.4	3.38	21.6	22.6	28	24.3	24.6	27.5	31	30.6	28.4	29.7	35.5	5.65	5.18	42.4
	TDS	NT	NT	784	492	1176	796	872	748	856	718	774	590	752	606	583	ND	428	624
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	422	ND	ND
	Turbidity	NT	NT	0.317	6.85	1.55	0.579	NT	NT	NS	0	0.75	0.99	0	0	0	2.5	0.00	0.00
	Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0024
	Zinc	ND	ND	ND	0.0136	0.0079	0.0052	ND	ND	0.0057	ND	0.0066	ND	0.0083	ND	ND	0.0052	0.0052	0.0025

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Table 4
Metals and Other Water Quality Parameters - Long Term Summary

Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location OB08	Alkalinity	NT	NT	229	245	248	230	230	239	223	224	219	219	227	215	213	196	218	205
	Ammonia	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.387	ND	ND	ND
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium	0.0288	0.1309	0.137	0.126	0.118	0.116	0.128	0.129	0.129	0.132	0.126	0.125	0.132	0.13	0.13	0.138	0.146	0.135
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	63.5	71.1	65.9	62.7	67.1	70.8	68.2	66.6	65.3	54.3	57.1	64	64	58.4	64.6	61.9
	Chloride	NT	NT	34.7	31.2	32.8	34.2	46.1	42.8	47.4	45.5	47.7	44.7	39.5	37.5	39.7	42.4	48.5	52.2
	Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0023
	Cobalt	ND	ND	0.0052	0.0064	0.0064	0.007	0.008	0.0079	0.0084	0.008	0.0065	0.0065	0.0069	ND	ND	0.0041	0.0057	0.0054
	COD	NT	NT	ND	4.9	ND	ND	ND	9.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Copper	0.008	ND	0.0043	0.0073	0.006	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003
	Hardness	NT	NT	228	250	300	265	144	236	234	232	230	232	236	220	222	206	240	140
	Iron	NT	NT	0.301	0.675	0.647	0.718	0.797	0.74	0.774	0.575	0.676	0.692	0.739	0.031	0.027	0.45	0.467	0.429
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	5.08	5.08	12.9	16.6	14.9	17	16.8	17.7	17	15.9	16.5	17.6	15.1	14	13	12.9	14.7	14.2
	Manganese	NT	NT	6.29	7.07	7.18	6.56	7.228	6.84	7.26	6.89	6	5.84	6.26	5.2	4.9	4.89	5.21	5.15
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	ND	ND	0.0083	0.0081	0.0083	0.0077	0.0085	0.0088	0.0107	0.0111	0.0076	0.007	0.0089	0.0075	ND	0.0054	0.0084	0.0078
	Nitrate	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	pH	NT	NT	7.04	5.41			5.85	6.22	6.04	6.54	6.18	6.18	6.62	7.07	6.49	6.56	6.29	6.47
	Potassium	NT	NT	2.81	2.87	2.63	2.91	2.86	2.85	2.95	2.48	2.71	2.61	2.7	2.8	2.7	2.33	2.55	2.62
	Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium	NT	NT	27.2	31.6	28	28.7	27.4	28	25.4	26.3	26.4	20.1	24	25	24	22.2	23.7	23.5
	Spec. Cond.	NT	NT	523.1	528.2			476.3	559.9	566.8	603.6	516.5	499.8	491.3	406.8	506.9	450.1	505.2	478.5
	Sulfate	NT	NT	7.54	4.91	4.83	ND	ND	4.76	4.11	5.27	5.68	5.8	4.32	7.65	6.7	9.5	7.2	7.83
	TDS	NT	NT	284	340	384	280	344	348	352	270	392	322	322	352	209	ND	308	224
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	264	ND	ND
	Turbidity	NT	NT	0.266	0.77	0.485	0.735	NT	NT	NS	0	0	1.08	2.1	0	0.1	0	0.00	0.00
	Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Zinc	ND	ND	ND	ND	ND	0.0077	0.0066	0.0061	0.0062	0.0057	0.0057	0.0067	0.0106	0.0059	ND	ND	0.0021	0.0021

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Table 4
Metals and Other Water Quality Parameters - Long Term Summary

Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location OB08A	Alkalinity	NT	NT	228	233	226	220	218	221	216	219	214	218	219	221	221	210	226	206
	Ammonia	NT	NT	ND	0.299	ND	ND	ND	ND	ND	ND	ND	0.222	0.247	ND	0.435	0.233	0.255	0.243
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	ND	ND	0.0023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0029	0.0026	0.0026	0.003	0.003
	Barium	ND	0.0669	0.0815	0.0919	0.0779	0.099	0.0689	0.0735	0.068	0.0674	0.0648	0.0677	0.077	0.047	0.041	0.0697	0.0698	0.0571
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	59.4	52.6	52.9	58.1	54.4	53.3	54.7	54.9	52.4	47.1	47.6	49	53	54.5	56.1	55.8
	Chloride	NT	NT	67.4	39.9	58.2	45.4	63.3	55.5	65.4	63.8	68	59.9	50.4	60.8	70	67.6	72.5	83.6
	Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0047	ND	0.002	0.0027	0.0031
	Cobalt	ND	0.0167	0.0186	0.0135	0.0175	0.0146	0.0173	0.0171	0.0189	0.0189	0.0161	0.0153	0.0149	0.017	0.019	0.0157	0.0192	0.02
	COD	NT	NT	ND	39.2	5.3	10.2	ND	8.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Copper	0.0061	ND	0.0051	0.0067	0.0061	0.006	ND	0.008	ND	ND	ND	ND	ND	0.0017	ND	ND	0.002	0.005
	Hardness	NT	NT	570	330	300	370	190	252	240	230	240	236	218	264	250	230	256	180
	Iron	NT	NT	3.85	3.33	3.35	3.69	3.05	3.44	3.93	3.38	3.94	3.06	3.31	4.4	5	3.87	3.82	4.23
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	23.2	19.2	19.3	20.3	22	21.8	21.8	21.8	21.6	17.9	18.7	21	23	21.2	22.5	24
	Manganese	NT	NT	8.16	7.9	8.23	8.57	7.484	7.53	8.27	8.12	7.16	6.94	7.33	6.8	7.1	7.77	7.77	7.88
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	0.0095	ND	0.0095	0.0068	0.0079	0.0071	0.0075	0.0075	0.01	0.0097	0.0072	0.0066	0.0074	0.011	ND	0.0056	0.0084	0.0081
	Nitrate	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	pH	NT	NT	6.65	5.49			5.96	6.07	5.87	6.39	6.01	6.11	6.47	6.61	6.07	6.25	6.02	6.2
	Potassium	NT	NT	2.82	2.73	2.52	2.77	2.8	2.79	2.99	2.85	2.91	2.72	2.6	2.8	3	2.54	2.69	2.66
	Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0027	0.0032
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium	NT	NT	37	34.7	31.7	30.8	31.8	32.9	30.7	30.7	30.1	24.7	29.4	32	33	29.2	31.1	32.2
	Spec. Cond.	NT	NT	579.9	541.9			502.5	579.1	600.1	649.1	547.9	536.7	503.4	468.1	616.8	545.4	580.6	583.1
	Sulfate	NT	NT	3.85	3.04	5.74	ND	ND	ND	ND	ND	4.39	5.07	ND	ND	ND	ND	ND	ND
	TDS	NT	NT	352	336	384	340	1240	364	364	288	388	316	306	326	291	ND	290	370
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	317	ND	ND
	Turbidity	NT	NT	1.69	3.8	0.528	1.36	NT	NT	NS	0	0	1.39	0.9	1.5	0	0.3	0.00	0.00
	Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Zinc	ND	ND	ND	ND	ND	0.0078	0.0068	0.0101	0.0075	0.006	0.007	0.0063	0.0091	0.0084	0.0077	0.0028	0.0044	0.0037

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Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location OB10	Alkalinity	NT	NT	110	83	134	116	122	119	133	116	139	116	132	116	136	114	132	131
	Ammonia	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0023	ND	ND	0.0022
	Barium	0.0416	0.0401	0.0468	0.049	0.0553	0.0531	0.0534	0.0569	0.0573	0.0562	0.0763	0.0622	0.0699	0.047	0.064	0.0591	0.0769	0.102
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	38.6	37.7	43.4	39.8	45.8	48.1	50.1	45	55.8	53.3	56.6	62	67	59.7	64.3	62.6
	Chloride	NT	NT	82.4	53.3	83.6	89	94.1	100	121	120	136	144	159	147	185	179	187	183
	Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0023
	Cobalt	ND	ND	0.0029	ND	0.0059	ND	ND	0.0052	0.0081	0.0067	0.0084	0.0062	0.0078	0.0053	0.0091	0.0055	0.009	0.0122
	COD	NT	NT	ND	7.5	10.3	ND	ND	7.5	ND	ND	ND	ND	10.7	ND	12.2	ND	12	ND
	Copper	0.0066	0.0063	0.006	0.0179	0.0057	ND	ND	ND	ND	0.0109	ND	ND	ND	ND	ND	ND	ND	ND
	Hardness	NT	NT	160	161	230	230	226	210	244	234	278	256	292	276	332	294	368	344
	Iron	NT	NT	0.598	1.9	1.28	0.783	1.12	0.975	1.63	1.14	1.75	1.14	1.58	0.4	1.3	0.971	1.45	1.33
	Lead	ND	ND	ND	0.0085	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	19.4	18.1	24	24.9	27.8	25.8	28.1	25.1	34.4	30.3	32.5	34	40	33.7	36.2	34.9
	Manganese	NT	NT	2.63	1.31	3.47	2.68	3.03	3.15	4.31	3.66	5.2	3.96	5.01	3.7	5.8	4.68	6.57	7.72
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	0.0061	0.0049	0.0079	0.0104	0.0079	0.0063	0.0068	0.0089	0.0115	0.0107	0.0113	0.0083	0.0101	0.011	ND	0.0082	0.0111	0.0143
	Nitrate	NT	NT	ND	ND	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	pH	NT	NT	6.3	5.98			5.8	6.05	5.49	6.2	6.12	6.03	6.32	6.09	5.85	5.97	5.76	5.99
	Potassium	NT	NT	2.81	2.94	2.65	3.28	3	3.02	3.32	3.44	2.98	3.09	3.29	3.4	3.6	3.42	3.13	3.24
	Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.007	0.004	0.0041	0.0058
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium	NT	NT	19	20.3	20.3	18.4	19.6	18.2	18.3	19.8	20.8	19.6	21	21	23	20.4	21.5	21.9
	Spec. Cond.	NT	NT	413.6	423.9			446.8	544.8	623.9	654	636.8	596.2	663.6	589.7	787.5	671	765.7	717.8
	Sulfate	NT	NT	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	TDS	NT	NT	368	364	552	456	492	480	396	440	434	340	466	424	523	ND	579	371
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	399	ND	ND
	Turbidity	NT	NT	2.09	21.1	1.16	0.443	NT	NT	NS	0	0	0	0.3	0	0	0	0.00	0.00
	Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Zinc	ND	0.0107	ND	0.0226	0.006	0.0057	0.007	0.0066	0.0071	0.0056	0.0081	0.0067	0.0086	ND	ND	0.0021	0.0022	0.0037

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Table 4
Metals and Other Water Quality Parameters - Long Term Summary

Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location OB102	Alkalinity	NT	NT	1140	960	1100	1008	1000	1056	1060	1110	1080	980	1000	1040	1100	1160	2180	1340
	Ammonia	NT	NT	11.2	12.4	8.98	11.1	11.1	11.6	12	14	13.3	13.5	12.3	14.6	15.8	16.1	18.3	16.7
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.0061	ND	0.0065	ND	0.0068	0.0061	0.0058	ND	ND	**0.0112**	0.0052	ND	0.005	0.0083	**0.012**	ND	0.0046	0.006
	Barium	0.3331	0.4215	0.385	0.374	0.342	0.349	0.344	0.355	0.349	0.404	0.347	0.367	0.366	0.35	0.35	0.407	0.375	0.378
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	0.0021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0007	ND	ND	ND	ND
	Calcium	NT	NT	116	113	114	124	119.7	115	120	118	116	116	109	120	120	113	100	118
	Chloride	NT	NT	560	128	577	578	564	602	588	558	543	519	520	563	551	560	528	519
	Chromium	0.0088	ND	0.0105	0.0102	ND	ND	ND	ND	0.0062	0.014	ND	ND	ND	ND	ND	ND	0.0026	ND
	Cobalt	0.0876	0.085	0.0925	0.089	0.0842	0.0764	0.0724	0.0734	0.0729	0.0852	0.0704	0.0695	0.0686	0.074	0.073	0.0744	0.0677	0.0708
	COD	NT	NT	262	250	252	235	237	227	242	235	126	176	147	87	120	210	146	229
	Copper	0.088	0.1301	0.136	0.0793	0.0908	0.0483	0.0449	0.0505	0.0485	0.071	0.0709	0.0616	0.05	0.041	0.038	0.0448	0.0428	0.167
	Hardness	NT	NT	810	158	900	775	701	640	700	686	696	710	684	724	700	660	620	620
	Iron	NT	NT	8.95	9.66	3.55	1.69	0.798	0.945	1.01	1.93	2.03	3.64	1.99	0.35	0.24	0.967	1.17	1.2
	Lead	0.0055	ND	0.0043	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	94.8	98.7	94.3	102	98.4	97.4	97.4	104	96.9	99.2	89.73	96	100	106	86.4	98.1
	Manganese	NT	NT	22.2	20.7	21.8	23.5	20.9	21.2	21.7	20.2	20.1	18.8	18	19	19	17.3	15.5	15.7
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	0.0871	0.1029	0.118	0.0966	0.101	0.092	0.0909	0.0925	0.0962	0.113	0.0907	0.0903	0.0884	0.1	0.091	0.101	0.0903	0.102
	Nitrate	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	pH	NT	NT	6.26	5.95			6.42	6.64	6.29	6.86	6.41	6.8	6.74	7.07	6.54	6.80	6.76	6.74
	Potassium	NT	NT	37.2	41.7	37.8	39.8	40.4	39.9	41.4	47.4	46.7	44.9	43	51	51	49.5	45.6	52.6
	Selenium	0.0152	0.0167	0.0256	0.0134	0.0256	0.0237	0.0224	0.017	0.0176	0.0411	0.0188	0.0162	0.0197	0.021	0.032	0.0165	0.0159	0.0114
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium	NT	NT	613	549	500	561	550	532	586	558	483	523	504	490	510	562	483	547
	Spec. Cond.	NT	NT	3522	3493			3010	3558	3612	3298	3303	3270	3129	1902	3390	3339	3436	3128
	Sulfate	NT	NT	71.9	71.5	57.4	74.3	74.4	55.4	55.2	48.1	44.7	45	69.4	65.3	64.9	51.9	48	43.5
	TDS	NT	NT	2120	2172	2252	2308	2244	2268	2236	2146	2158	2122	2098	2066	2099	ND	2100	1830
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2220	ND	ND
	Turbidity	NT	NT	191	202	71.4	23.7	NT	NT	NS	58.9	84.5	79.5	19.9	15.4	8.5	6.5	13.70	6.30
	Vanadium	0.0105	ND	0.0104	0.0124	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Zinc	0.0424	0.0776	0.0464	0.0402	0.0224	0.0135	0.0127	0.013	0.0129	0.0206	0.0196	0.0231	0.0194	0.011	0.011	0.0119	0.0074	0.0118

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Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location OB105	Alkalinity	NT	NT	810	1710	600	728	494	51	522	770	50	774	645	1250	1100	1040	870	1420
	Ammonia	NT	NT	12.4	61.8	5.02	25.1	4.4	16.3	3.48	13.1	4.61	19.3	6.8	42.5	29.1	29.7	24	43.3
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.0044	ND	**0.012**	0.005	**0.0109**	ND	ND	**0.0147**	**0.009**	0.0094	0.0058	ND	ND	0.007	0.0061	ND	0.0035	ND
	Barium	0.1682	0.466	0.304	0.408	0.258	0.218	0.157	0.601	0.138	0.233	0.144	0.277	0.337	0.39	0.28	0.381	0.245	0.452
	Beryllium	ND	ND	0.0026	ND	ND	ND	ND	**0.0112**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	0.0047	ND	ND	ND	ND	**0.0109**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	156	124	165	92.2	170	160	167	168	169	147	166	140	150	180	136	143
	Chloride	NT	NT	328	265	334	219	309	356	337	334	318	307	336	339	320	340	308	346
	Chromium	ND	ND	0.0717	0.0075	0.0808	0.0106	0.0184	**0.166**	**0.0236**	0.0434	0.0235	0.0213	0.0574	0.0087	ND	ND	0.0065	ND
	Cobalt	0.0077	0.0108	0.101	0.0129	0.196	0.0202	0.0345	0.2	0.0316	0.054	0.0306	0.0214	0.0436	0.019	0.011	0.0129	0.0105	0.0088
	COD	NT	NT	173	258	207	92.4	83.4	140	61.5	93.4	56.2	102	75.3	135	121	122	112	148
	Copper	0.012	0.0134	0.112	0.0218	0.173	0.0277	0.0237	0.293	0.0417	0.0906	0.0415	0.0321	0.0958	0.021	ND	0.015	0.0159	0.0102
	Hardness	NT	NT	900	870	950	576	866	960	908	924	940	900	924	424	860	890	660	550
	Iron	NT	NT	85.3	31.2	110	17.1	19.96	253	26.7	50.7	24.7	27.2	75.4	27	14	20.9	13.1	19.6
	Lead	ND	ND	**0.0268**	ND	**0.0332**	ND	0.015	**0.0726**	**0.0155**	**0.0164**	0.0104	0.0075	**0.028**	**0.0037**	ND	ND	0.0035	ND
	Magnesium	NT	NT	129	152	132	96.5	132	168	116	139	127	128	137	150	130	143	115	144
	Manganese	NT	NT	3.58	1.97	3.76	1.68	2.66	6.03	3.07	4.65	3.53	1.91	5.17	3.1	4.4	3.54	2.76	2.74
	Mercury	ND	ND	**0.0038**	ND	**0.003**	0.0003	0.001	**0.0065**	**0.0017**	0.0008	0.001	0.0006	**0.0044**	**0.0003**	ND	ND	ND	ND
	Nickel	0.0143	0.0116	0.174	0.0164	0.228	0.0258	0.053	0.283	0.0691	0.0994	0.0734	0.0508	0.0915	0.0037	0.01	0.0211	0.0252	0.0157
	Nitrate	NT	NT	ND	ND	ND	0.99	ND	ND	ND	ND	ND	ND	ND	ND	0.269	ND	ND	ND
	pH	NT	NT	6.81	6.33			6.18	6.55	5.75	6.61	6.34	6.69	6.83	7	6.68	6.80	6.57	6.96
	Potassium	NT	NT	35.7	136	19.3	61.3	15	58.6	12.9	33.3	15.4	51.5	23.4	89	65	69.3	51.4	86.3
	Selenium	0.01	0.013	0.0193	0.0091	0.0214	0.0102	0.0098	0.0198	0.0225	0.0276	0.0157	0.0169	0.0144	0.013	0.016	0.0111	0.0096	0.0115
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium	NT	NT	286	468	174	202	183.57	226	167	279	184	224		320	300	304	233	346
	Spec. Cond.	NT	NT	3384	3886			1963	3025	2414	2960	2224	2477	2473	2920	2099	2888	2561	3147
	Sulfate	NT	NT	346	105	309	139	314	312	289	240	299	267	287	137	190	189	208	134
	TDS	NT	NT	1736	2400	1876	1320	1872	1776	1628	1784	1606	1600	1608	1792	1747	ND	1620	1960
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	65	ND	ND	ND	1770	ND	ND
	Turbidity	NT	NT	1215	338	3430	240	NT	NT	NS	1721	728	ND	1070	258.3	39.8	314.5	143.00	44.40
	Vanadium	ND	ND	0.0789	0.0096	0.136	0.0194	0.0331	0.363	0.0492	0.0811	0.0362	ND	0.0896	0.016	ND	ND	0.0098	ND
	Zinc	0.0352	0.0501	0.556	0.031	0.765	0.153	0.15	0.975	0.252	0.263	0.157	ND	0.391	0.076	0.085	0.0379	0.0599	0.022

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Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location OB11	Alkalinity	NT	NT	201	165	200	211	215	217	219	221	228	0.0483	283	202	218	214	228	240
	Ammonia	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	45.6	ND	0.002	0.0021	ND	ND	0.0062
	Barium	0.0331	0.0286	0.0272	0.0515	0.0261	0.0301	0.0292	0.0295	0.0282	0.0299	0.0289	147	0.0323	0.023	0.024	0.0254	0.0257	0.0266
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	**0.0088**	**0.0058**	**0.009**	**0.01**	**0.0101**	**0.0104**	**0.0104**	**0.011**	**0.0103**	ND	**0.011**	**0.012**	**0.011**	**0.0112**	**0.0107**	**0.0128**
	Calcium	NT	NT	126	108	133	134	132.3	132	133	132	135	ND	138	130	140	132	130	138
	Chloride	NT	NT	330	393	358	259	371	407	398	397	392	ND	417	394	426	438	424	436
	Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	206	ND	0.0051	0.0056	0.0048	ND	0.0084
	Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.92	ND	ND	ND	ND	ND	0.0021
	COD	NT	NT	27.5	28.2	29	32.5	22.4	32.8	24	37.8	22.5	ND	37.5	29.3	25.3	30.4	30.3	25.3
	Copper	0.0062	ND	0.0083	0.0072	0.0112	0.0078	0.0064	0.0089	0.0081	0.0153	0.0083	25	0.0074	0.0036	ND	0.0031	0.004	0.0063
	Hardness	NT	NT	550	510	600	563	581	596	592	576	606	0.257	606	650	650	650	72	700
	Iron	NT	NT	0.454	0.84	1.22	1.27	0.738	0.726	0.656	0.674	0.638	ND	0.741	ND	ND	0.992	0.969	0.911
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.013	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	60.1	59.1	67.9	66.6	66.6	67.4	64.4	68.9	67	0.463	70.2	76	73	72.2	71.8	73.9
	Manganese	NT	NT	0.862	0.7	0.884	0.869	0.768	0.758	0.858	0.793	0.76	6.03	0.858	0.86	0.89	0.829	0.948	1.02
	Mercury	0.0005	0.0019	**0.0022**	0.0019	**0.0025**	0.0017	0.001	0.001	0.0012	0.0014	0.0011	3.03	0.0014	0.0028	0.0019	0.0011	0.0008	0.0008
	Nickel	0.0207	0.0275	0.0361	0.0216	0.0375	0.0331	0.0333	0.0339	0.0411	0.0354	0.033	ND	0.0356	0.04	0.034	0.0308	0.0316	0.0406
	Nitrate	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	pH	NT	NT	5.69	5.03			5.35	5.41	5.31	5.81	5.41	30.3	5.77	6.16	5.67	5.73	5.46	5.68
	Potassium	NT	NT	4.56	8.25	4.9	4.82	4.7	5.13	5.19	5.45	5.17	548.7	4.71	5.3	5.6	4.65	4.79	4.58
	Selenium	ND	ND	0.0049	ND	0.0078	0.0061	0.0057	ND	0.011	0.0067	0.0055	4.73	0.0068	0.0054	0.0082	0.0069	0.0059	0.0093
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	320	ND	ND	ND	ND	ND	ND
	Sodium	NT	NT	56.7	59.9	68.8	67.9	68.5	68	68	75.8	71.3	ND	77.7	77	82	78.2	81.1	85.7
	Spec. Cond.	NT	NT	1339	1340			1302	1559	1601	1774	1539	132.6	1627	1352	1611	1538	1637	1599
	Sulfate	NT	NT	8.96	8.47	9.53	9.48	10.2	11.2	10.3	10.5	12.2	ND	11.7	10.7	9.58	11.4	12.9	12.7
	TDS	NT	NT	1208	1152	1416	1116	1036	1404	1212	1018	1122	0.0103	1074	920	983	ND	982	799
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	960	ND	ND
	Turbidity	Nt	Nt	1.16	3.65	5.75	0.733	NT	NT	NS	0	0	1.51	0.3	0	1.91	7.2	0.00	0.00
	Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0036
	Zinc	0.0508	0.0508	0.0432	0.0309	0.0426	0.043	0.042	0.0453	0.0462	0.0442	0.0413	0.0441	0.0418	0.044	0.042	0.0362	0.0324	0.0414

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Monitoring Location OB11A	Alkalinity	NT	NT	270	282	280	292	285	279	288	298	302	295	49	285	333	316	351	107
	Ammonia	NT	NT	0.222	0.817	1.7	2.11	1.59	1.11	1.25	1.79	1.18	1.99	1	0.356	0.423	0.305	0.371	0.299
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0022	0.0035	0.0022	ND	0.0054
	Barium	0.1335	0.1616	0.151	0.174	0.182	0.957	0.166	0.183	0.165	0.191	0.165	0.206	0.185	0.18	0.15	0.193	0.179	0.161
	Beryllium	ND	ND	ND	ND	ND	**0.0102**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	0.0025	**0.0101**	ND	**0.0059**	ND	ND	ND	ND	ND	ND	ND	0.0026	0.002	0.002	ND	ND
	Calcium	NT	NT	99	92.5	89.8	84.7	93.5	93.4	91.4	85.3	99.6	79.6	97.3	100	120	110	113	121
	Chloride	NT	NT	310	262	290	211	297	300	312	282	327	266	329	325	425	401	387	428
	Chromium	ND	0.0102	ND	ND	ND	0.0321	ND	ND	ND	ND	ND	ND	ND	0.021	ND	0.0044	ND	0.008
	Cobalt	0.0332	0.0204	0.036	0.0777	0.0337	0.144	0.025	0.025	0.0271	0.024	0.0256	0.0235	0.0246	0.025	0.032	0.0271	0.0302	0.0388
	COD	NT	NT	30.8	32.3	30	33.7	21.6	30.4	17.8	26.5	23.1	20.6	29.4	31.3	35.1	31.8	34.4	26
	Copper	0.0109	0.0119	0.0103	0.0209	0.0102	0.17	0.0057	0.0057	0.0065	0.0143	0.0065	0.0058	0.0067	0.0048	ND	0.0037	0.0038	0.0146
	Hardness	NT	NT	540	500	660	524	598	500	508	466	516	456	544	300	660	600	584	588
	Iron	NT	NT	1.61	4.65	1.33	48.4	1.01	1.05	1.07	1.08	1.19	0.929	1.13	0.91	0.82	1.68	1.59	2.37
	Lead	ND	ND	ND	0.0059	ND	**0.0723**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	69.2	64.2	67	55	68.6	69.9	64.8	65.7	70.6	57.4	69.1	76	84	77.6	80	83.9
	Manganese	NT	NT	5.23	7.39	6.38	13.1	5.83	6.29	6.14	6.82	7.21	6.8	7.37	7.8	8.6	8.92	9.25	10.6
	Mercury	0.0005	0.0009	ND	**0.0023**	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0003	ND	ND	ND	ND
	Nickel	0.0269	0.0376	0.0299	0.0306	0.0232	0.0701	0.0222	0.0192	0.0266	0.0203	0.0236	0.0179	0.0225	0.04	0.026	0.024	0.0264	0.0387
	Nitrate	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	pH	NT	NT	6.01	5.28			5.49	5.59	5.36	6	5.61	5.71	5.94	6.42	5.83	5.97	5.66	5.94
	Potassium	NT	NT	5.71	7.17	6.81	13.7	6.83	6.41	6.84	7.39	6.78	6.79	5.83	5.9	6.4	4.64	5.37	5.24
	Selenium	ND	ND	0.0048	ND	0.0062	0.0185	ND	ND	0.0071	ND	ND	ND	0.0054	ND	0.0094	0.0062	0.0055	0.0084
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium	NT	NT	107	97.5	101	38.5	99.8	99.4	95.1	99.5	102	83	99.7	95	120	106	111	115
	Spec. Cond.	NT	NT	1444	1363			1227	1405	1499	1552	1481	1274	1510	1276	1873	1580	1686	1736
	Sulfate	NT	NT	12.6	14.9	18.4	17	15	15.8	15.7	16.6	15.7	20	15.4	12.5	8.49	12.2	12.2	11.1
	TDS	NT	NT	1192	1032	1068	908	304	1048	904	830	936	1016	854	908	969	ND	989	978
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0011	884	ND	ND
	Turbidity	Nt	Nt	1.97	19.4	3.31	0.83	NT	NT	NS	0	0	4.13	0	0	0	1.7	0.00	0.00
	Vanadium	ND	ND	ND	ND	ND	0.0919	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0026
	Zinc	0.0305	0.0305	0.0249	0.025	0.0218	0.267	0.021	0.0211	0.0223	0.0206	0.0192	0.0222	0.0189	0.022	0.019	0.0169	0.0141	0.0183

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Table 4
Metals and Other Water Quality Parameters - Long Term Summary

Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location OB12	Alkalinity	NT	NT	110	100	108	44	106	116	113	119	126	123	138	125	132	122	129	135
	Ammonia	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium	ND	0.0298	0.0186	0.0211	0.0153	0.0211	0.0173	0.0174	0.018	0.0194	0.0178	0.0206	0.0215	0.014	0.014	0.0152	0.0149	0.0154
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	33.3	39	32.3	34.1	33	38.3	26.5	36.7	33.8	35	36.5	39	39	38.8	39.6	37.2
	Chloride	NT	NT	69.9	83.9	65.8	80.1	62.7	76.9	66.4	79	70.5	77.9	77.4	80.7	80	84.6	84.3	87.2
	Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0022	ND	0.0042
	Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	COD	NT	NT	ND	12.1	7.4	6.9	ND	8.1	ND	21	ND	ND	ND	ND	10.8	ND	ND	ND
	Copper	0.007	ND	0.0061	0.0062	0.0068	ND	ND	0.0051	ND	0.0102	ND	ND	ND	ND	ND	ND	ND	0.0033
	Hardness	NT	NT	165	189	162	182	153	194	160	178	178	200	208	202	182	188	218	224
	Iron	NT	NT	0.368	ND	0.228	ND	ND	ND	ND	0.2	ND	0.208	0.234	ND	ND	0.22	0.216	ND
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	19.7	23.4	19.8	27	20.6	24.5	16.1	23.4	20.2	21.4	22.5	25	23	24.4	24.9	23.1
	Manganese	NT	NT	0.102	0.131	0.107	0.106	0.108	0.114	0.119	0.105	0.118	0.115	0.129	0.1	0.14	0.103	0.135	0.126
	Mercury	ND	ND	0.0003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	0.0066	ND	0.0089	0.0101	0.0102	0.0084	0.0065	0.0091	0.0086	0.0079	0.0069	0.0076	0.0092	0.0088	ND	0.0073	0.0069	0.0086
	Nitrate	NT	NT	1.622	2.25	1.377	1.59	1.14	1.26	0.99	1.02	0.87	0.83	0.695	0.74	0.803	0.588	0.575	0.541
	pH	NT	NT	5.84	6.14			5.46	5.51	5.29	5.81	5.53	5.56	5.92	5.81	5.8	5.64	5.69	5.54
	Potassium	NT	NT	3	3.04	2.32	3.24	2.69	3.26	2.97	3.33	2.88	2.89	2.51	3.1	2.6	2.45	2.63	2.31
	Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0022
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium	NT	NT	24.5	27.8	25.4	27.9	22.8	30	18.2	28.4	21.2	22	25.1	27	25	25.2	26.2	24.2
	Spec. Cond.	NT	NT	481.7	511.8			421.1	497.1	417.9	545.7	436.3	469.9	481.6	444.7	484	471.2	501	471.2
	Sulfate	NT	NT	7.14	14.9	7.13	4.78	5.57	12	4.58	13.4	5.79	14.4	11.6	16	5.91	13.6	9.02	12.3
	TDS	NT	NT	308	400	408	120	296	340	312	236	364	308	292	338	229	ND	294	224
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	316	ND	ND
	Turbidity	NT	NT	2.49	5.15	0.328	0.167	NT	NT	NS	0	1.26	1.36	0.9	0	0.23	0	0.00	0.00
	Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Zinc	0.0236	0.0125	ND	0.0134	0.0077	0.0077	0.0063	0.0053	0.0082	0.0051	0.0059	0.0084	0.0096	ND	ND	ND	ND	0.0026

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Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location OB15	Alkalinity	NT	NT	242	93	230	74	228	51	226	33	151	29	91	33	88	36	151	270
	Ammonia	NT	NT	0.646	0.228	0.29	ND	0.307	ND	0.274	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	ND	ND	0.0069	ND	ND	ND	ND	ND	0.007	ND	ND	ND	ND	ND	0.0011	ND	ND	ND
	Barium	0.1015	0.0881	0.119	0.0902	0.0785	0.0857	0.0919	0.0722	0.0923	0.0709	0.0624	0.0635	0.0944	0.051	0.063	0.0656	0.0704	0.0944
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0013	ND	ND	ND
	Cadmium	NT	NT	0.0042	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	29.5	20.3	18	14.8	21.6	16.5	18.3	12.9	16.8	12	11.6	9.5	10	13.3	12.4	22.6
	Chloride	NT	NT	3.16	3.48	7.73	4.61	10	3.95	11.9	4.73	10.8	4.04	10.3	5.96	9.01	7.14	12.3	17.9
	Chromium	ND	ND	0.019	ND	ND	0.0053	ND	ND	0.0114	ND	ND	ND	0.0096	ND	ND	ND	ND	0.0034
	Cobalt	ND	0.0134	0.0273	0.0099	ND	0.0072	0.0062	ND	0.0165	ND	0.0116	ND	0.0174	ND	0.0092	ND	0.0104	0.0049
	COD	NT	NT	49.3	11.1	11.2	ND	27.3	ND	17.8	ND	ND	ND	11.4	ND	ND	ND	ND	ND
	Copper	0.0059	ND	0.0475	0.0103	0.0083	0.0119	0.0094	0.0066	0.0408	0.01	0.0059	0.0069	0.0281	0.0018	ND	ND	0.0056	0.0194
	Hardness	NT	NT	600	270	165	114	156	140	120	94	120	96	102	112	320	92	140	340
	Iron	NT	NT	54.9	16	27.3	9.24	39.4	6.6	47.8	2.85	17.3	1.98	52.5	1.9	24	1.69	22.4	9.96
	Lead	ND	ND	**0.017**	ND	ND	ND	ND	ND	0.0079	ND	ND	ND	0.0082	ND	0.0015	ND	ND	ND
	Magnesium	NT	NT	23.2	24.5	17.4	22	21.6	21.3	17.4	16	17.3	14.5	14.5	15	14	19.5	15.9	25
	Manganese	NT	NT	5.73	4.5	3.87	1.78	3.27	1.28	2.5	0.163	1.1	0.13	0.639	0.028	0.49	0.0851	0.816	1.74
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	0.0072	0.0157	0.0473	0.0178	0.0098	0.0149	0.006	0.015	0.0235	0.0141	0.008	0.0115	0.0214	0.0061	ND	0.0119	0.013	0.018
	Nitrate	NT	NT	ND	ND	0.008	ND	ND	ND	ND	0.292	ND	0.678	ND	1.78	ND	5.185	ND	ND
	pH	NT	NT	6.01	6.62			6.15	5.5	5.7	5.78	NM	5.4	6.03	6.26	6.04	5.98	5.84	6.28
	Potassium	NT	NT	3.15	2.3	2.18	2.29	2.46	2.12	2.32	2.04	2.07	1.84	1.8	1.7	1.9	1.82	1.74	2.21
	Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium	NT	NT	35	14.5	53.3	36.1	59.1	29.2	62.5	26.1	50.6	17.3	30.6	20	34	22	42.4	92.4
	Spec. Cond.	NT	NT	576.4	368.7			535.4	323.1	521.8	329	NM	236.8	248.6	202.3	324.7	253.7	323.4	633.5
	Sulfate	NT	NT	78.6	78.1	56.5	78.9	49.2	93.2	37.9	92.8	63.3	91.8	69.1	79	64.2	60.6	65.1	68.1
	TDS	NT	NT	328	252	324	420	528	272	308	184	244	164	198	192	133	ND	219	315
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	168	ND	ND
	Turbidity	NT	NT	125	53.8	25.4	96.8	NT	NT	NS	46.8	NM	33	48.1	22.1	31.6	22.9	32.30	6.00
	Vanadium	ND	ND	0.0052	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Zinc	0.0955	0.0955	0.698	0.0329	0.0212	0.0544	0.0668	0.0966	0.397	0.136	0.0516	0.0723	0.183	0.034	0.083	0.0434	0.0866	0.0439

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Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location OB25	Alkalinity	NT	NT	423	416	472	282	267	249	374	268	387	194	287	316	323	307	330	335
	Ammonia	NT	NT	1.57	0.771	3.69	0.629	1.91	0.731	2.31	ND	2.94	ND	0.95	ND	0.539	1.81	2.82	1.15
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0212**	**ND**	ND	ND	ND	ND
	Arsenic	ND	ND	0.0037	**0.012**	ND	ND	ND	ND	ND	ND	ND	ND	**0.0263**	**ND**	ND	ND	ND	ND
	Barium	0.1179	0.1126	1.31	0.445	0.192	0.195	0.163	0.146	0.631	0.0769	0.175	0.0539	0.624	0.071	0.07	0.22	0.144	0.123
	Beryllium	ND	ND	**0.0137**	**0.0057**	ND	ND	ND	ND	0.0062	ND	ND	ND	**0.116**	**ND**	ND	ND	ND	ND
	Cadmium	NT	NT	**0.0174**	**0.0072**	ND	ND	ND	ND	ND	ND	ND	ND	**0.115**	**ND**	ND	ND	ND	ND
	Calcium	NT	NT	111	89.9	90.2	92.7	65.1	73.3	89.5	56.2	91.2	39.6	61.9	81	83	86.1	71.7	81.2
	Chloride	NT	NT	156	183	173	62.3	86.6	73.5	158	59.5	175	34.8	80.2	147	168	195	191	211
	Chromium	ND	ND	**0.105**	**0.141**	0.0193	ND	ND	0.0297	0.0174	0.0081	0.0117	0.006	**0.305**	**0.0082**	ND	0.0071	ND	ND
	Cobalt	0.027	0.0241	0.418	0.272	0.0532	0.0244	0.0285	0.0393	0.122	0.0067	0.0373	ND	0.336	0.009	0.009	0.0501	0.0339	0.0339
	COD	NT	NT	1080	79.4	90	107	19.6	18.6	23.5	21.6	17.2	ND	28.6	20	17.8	19.1	24.1	16.9
	Copper	0.0065	ND	0.364	0.188	0.0302	0.0062	0.0168	0.0374	0.143	0.0194	0.0153	0.008	0.337	0.0042	ND	0.0122	0.0037	0.0242
	Hardness	NT	NT	740	520	750	450	292	356	500	316	490	238	354	440	460	428	292	584
	Iron	NT	NT	239	210	29.9	1.32	5.73	31.7	25.9	4.68	17	3.1	163	0.79	0.5	7.64	3.94	2.88
	Lead	ND	ND	**0.148**	**0.0358**	ND	ND	0.0137	0.0077	0.0269	ND	ND	ND	**0.122**	**ND**	ND	ND	ND	ND
	Magnesium	NT	NT	82.8	109	71.6	70.2	44.2	57.7	62.4	41.5	69	27	90.3	59	58	62.6	52.4	58.6
	Manganese	NT	NT	55.8	33.5	24.2	6.86	10.52	7.21	20.7	0.818	18.2	0.21	12.8	14	16	20.3	21.7	22.4
	Mercury	ND	ND	0.0003	ND	ND	0.0014	ND	0.0013	0.0005	ND	0.0002	ND	0.0002	ND	ND	ND	ND	ND
	Nickel	0.0128	0.0127	0.226	0.281	0.0506	0.0183	0.0128	0.0467	0.062	0.0129	0.0256	0.0089	0.4	0.022	0.015	0.0334	0.0167	0.0213
	Nitrate	NT	NT	0.6782	2.31	ND	1.33	ND	ND	ND	0.606	ND	2.13	0.756	2.22	1.93	0.731	ND	1.71
	pH	NT	NT	6.19	5.51			8.7	7	5.98	7.16	6.12	6.86	6.89	6.83	6.23	6.42	6.09	6.51
	Potassium	NT	NT	17.6	15.9	16.6	7.24	14.3	10.7	16.8	9.22	16.4	6.49	13.2	14	14	14.2	13.5	15
	Selenium	ND	ND	0.0364	0.0172	0.0059	ND	ND	0.0052	0.0088	ND	ND	ND	0.0411	ND	ND	0.0054	0.0027	0.0061
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0991	ND	ND	ND	ND	ND
	Sodium	NT	NT	84	76.6	88.9	100	54.3	43.9	69	39	83.5	20.4	38.4	66	70	77.9	69.8	80
	Spec. Cond.	NT	NT	1301	1340			NT	627.7	931.1	394.5	807.1	491.2	544	959.8	356.3	1075	1178	1143
	Sulfate	NT	NT	71.8	75.3	67	32.1	39.7	44.1	61.8	39.6	65	32.6	37.2	47.5	47.2	51.4	45.4	44.3
	TDS	NT	NT	888	916	916	532	252	568	756	454	838	324	516	666	593	ND	681	701
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0778	ND	ND	694	ND	ND
	Turbidity	NT	NT	10100	3870	357	15050	NT	NT	NS	51	153	65	37.6	14.4	14	45.7	22.70	48.10
	Vanadium	ND	ND	0.156	0.129	0.0141	ND	0.0077	0.0236	0.0452	0.0077	0.01	ND	0.261	ND	ND	0.0051	ND	ND
	Zinc	NT	NT	3.95	1.09	0.109	0.0216	0.0256	0.112	0.13	0.0196	0.04	0.015	0.962	0.0085	0.0096	0.0415	0.0121	0.0168

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Monitoring Location ST15	Alkalinity	NT	NT	80	115	79	98	31	99	38	68	29	180	52	154	NT	136	100	59
	Ammonia	NT	NT	ND	0.239	ND	ND	ND	ND	ND	ND	ND	0.895	ND	0.233	NT	ND	0.482	ND
	Antimony	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND
	Arsenic	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND
	Barium	NT	0.0786	0.0588	0.0596	0.0681	0.029	0.0197	0.0367	0.0197	0.063	0.0165	0.0888	0.0288	0.063	NT	0.0948	0.0409	0.044
	Beryllium	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND
	Cadmium	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND
	Calcium	NT	NT	33.4	36.7	32.5	27.4	10.3	31.2	14.4	31.1	11.4	61.7	20.1	70	NT	60.3	29.5	28.9
	Chloride	NT	NT	58.2	102	67.7	38.1	5.32	157	13.1	75.3	10.2	1090	30.7	806	NT	397	80.9	240
	Chromium	NT	0.0041	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND
	Cobalt	NT	0.0027	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND
	COD	NT	NT	ND	7.2	6.7	24.8	14.1	22.8	14.5	ND	ND	36.2	ND	35.5	NT	17.6	12.7	14.3
	Copper	NT	0.0139	0.0058	0.0085	0.0077	0.0062	ND	0.0081	ND	0.0058	ND	0.0089	ND	0.0062	NT	0.0056	ND	0.027
	Hardness	NT	NT	160	180	160	95	29	122	48	124	36	252	74	246	NT	244	140	124
	Iron	NT	NT	0.372	0.814	0.701	0.863	ND	0.846	0.68	0.454	0.345	ND	0.62	0.44	NT	0.825	2.17	0.686
	Lead	NT	0.0032	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND
	Magnesium	NT	NT	13.7	17.6	15	8.5	2.23	12	3.73	16	3.01	20.3	5.93	19	NT	26.2	11.3	7.79
	Manganese	NT	NT	0.101	0.294	0.19	0.109	0.0434	0.245	0.0766	0.155	0.0382	0.329	0.201	0.25	NT	0.482	0.738	0.117
	Mercury	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND
	Nickel	NT	0.0172	0.0083	0.0104	0.0078	0.0052	ND	0.0066	ND	0.0089	ND	0.0119	ND	0.013	NT	0.0129	ND	0.0064
	Nitrate	NT	NT	1.465	1.3279	1.3876	0.401	ND	0.799	ND	1.66	ND	1.6949	ND	1.14	NT	0.5244	ND	1.07
	pH	NT	NT	7.39	7.19			7.34	7.55	6.19	6.46	6.83	6.64	6.61	8.01	NT	6.83	6.71	6.99
	Potassium	NT	NT	2.59	3.08	2.58	3.48	2.15	4.16	1.48	2.11	1.14	6.83	1.63	7.7	NT	4.78	1.78	2.63
	Selenium	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND
	Silver	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND
	Sodium	NT	NT	24.5	59	24.8	28	4.33	108	7.36	29.1	7.17	607	12.3	450	NT	233	25.5	143
	Spec. Cond.	NT	NT	386.7	538.8			82.1	703.9	118.1	526.3	93.3	3441	200	2406	NT	1331	367	791.8
	Sulfate	NT	NT	20.7	15.6	25.5	7.19	4.42	8.46	ND	12.6	ND	25.3	4.59	20.9	NT	19.6	ND	9.19
	TDS	NT	NT	280	368	404	204	1276	392	100	222	6	2028	134	1468	NT	ND	197	482
	Thallium	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	823	ND	ND
	Turbidity	NT	NT	3.04	5.24	6.06	25.6	NT	NT	NS	NS	6.2	16.4	NT	15.9	NT	3.9	3.80	7.00
	Vanadium	NT	0.0027	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND
	Zinc	NT	0.0536	0.0202	0.0243	0.0174	0.0131	0.0103	0.0155	0.0065	0.0207	0.005	0.0167	0.0058	0.019	NT	0.0104	0.0056	0.0058

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Table 4
Metals and Other Water Quality Parameters - Long Term Summary

Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location ST120	Alkalinity	NT	NT	64	74	70	60	49	52	72	56	57	64	60	56	68	62	60	82
	Ammonia	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.244	ND	ND	ND
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium	0.0373	0.1051	0.0392	0.0544	0.0482	0.046	0.0357	0.0397	0.0423	0.0559	0.044	0.0927	0.0514	0.047	0.053	0.0667	0.0454	0.0629
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	25.7	34	31.6	23.1	33.4	23.3	24.9	29.6	27.4	46.1	27.6	28	39	48.3	29.3	41
	Chloride	NT	NT	NT	197	93.2	102	50.1	110	47	335	67.8	928	77.4	332	117	217	94.2	159
	Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	COD	NT	NT	ND	7	11.1	15.1	11.9	9.7	ND	25.8	ND	14.3	22.8	ND	ND	ND	ND	ND
	Copper	0.0089	0.0152	0.0056	0.0105	0.0068	0.0052	0.0062	0.0091	ND	0.0151	ND	0.0084	ND	0.0031	ND	ND	ND	ND
	Hardness	NT	NT	340	150	180	113	73	98	100	130	120	208	130	138	174	160	188	186
	Iron	NT	NT	0.525	1	0.705	0.661	0.75	0.474	0.704	0.639	0.579	0.876	1.03	0.47	0.32	0.602	0.447	0.755
	Lead	ND	ND	ND	ND	ND	ND	0.0053	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	12.3	19.1	16.3	14.2	12.6	11.5	14.2	14.8	12.9	22.5	13.2	13	21	23.5	15.6	21.5
	Manganese	NT	NT	0.0634	0.238	0.0817	0.126	0.051	0.0853	0.117	0.0907	0.0795	0.128	0.155	0.14	0.13	0.126	0.0591	0.0942
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	0.006	0.0113	0.0066	0.0155	0.0066	0.0098	0.0074	0.0082	0.0059	0.0085	0.0065	0.0146	0.0055	ND	ND	0.0108	0.0031	0.0107
	Nitrate	NT	NT	1.029	1.2126	0.792	0.787	0.581	1.33	1.3	1.2	0.812	1.38	0.539	1.61	1.2	1.42	1.24	1.33
	pH	NT	NT	7.41	5.96			6.98	7.38	6.68	7.35	7.4	7.34	6.62	7.64	6.8	7.39	7.21	7.13
	Potassium	NT	NT	1.88	3	3.02	2.51	3.08	2.25	2.2	3.01	2.67	6.08	2.77	2.8	3	2.38	2.22	2.51
	Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium	NT	NT	27.5	170	34	53.7	34.5	65.1	15.3	181	19.8	561	24.5	210	34	99.4	24.3	52
	Spec. Cond.	NT	NT	370.8	1116			236.6	489.4	303.4	1297	340	2780	377.9	1092	519.6	755.1	432	571.5
	Sulfate	NT	NT	7.6	17.2	13.5	7.5	6.45	7.76	5.56	7.85	8.37	24.8	8.87	14	10.2	13.1	10.4	14.6
	TDS	NT	NT	244	720	376	372	208	284	228	660	272	1676	268	740	307	ND	268	318
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	434	ND	ND
	Turbidity	NT	NT	2.12	8.2	2.4	3.86	NT	NT	NS	5	ND	9.8	NT	5.8	NT	1.8	0.00	1.50
	Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Zinc	NT	NT	ND	0.0124	ND	0.0089	0.0084	0.0106	ND	0.0075	0.0064	0.0157	0.0058	0.0084	ND	0.0086	ND	ND

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Table 4
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Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location ST65	Alkalinity	NT	NT	70	235	88	243	203	237	98	253	112	74	174	65	NT	68	NS	NS
	Ammonia	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NS	NS
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NS	NS
	Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NS	NS
	Barium	0.0314	0.0447	0.0912	0.0566	0.0431	0.0556	0.079	0.0484	0.045	0.0644	0.044	0.0685	0.227	0.039	NT	0.0541	NS	NS
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NS	NS
	Cadmium	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NS	NS
	Calcium	NT	NT	18.1	40	34.3	33.9	34.2	30.6	34.3	34.6	40	37.6	23.5	23	NT	33.3	NS	NS
	Chloride	NT	NT	51.7	85.7	98.4	99.6	154	136	91.5	171	68.4	586	89.2	273	NT	192	NS	NS
	Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0226	ND	NT	ND	NS	NS
	Cobalt	ND	ND	0.0137	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0387	ND	NT	ND	NS	NS
	COD	NT	NT	34.8	34.7	7.7	35.1	39.2	32.6	10.5	60.7	ND	18.6	110	10	NT	ND	NS	NS
	Copper	0.0069	0.0058	0.008	0.0097	0.0066	0.0067	0.0077	0.0077	ND	0.0168	ND	0.0055	0.0267	0.0035	NT	0.0023	NS	NS
	Hardness	NT	NT	100	222	170	180	174	178	150	196	170	174	158	120	NT	156	NS	NS
	Iron	NT	NT	10.1	0.529	0.286	0.657	0.613	0.507	0.548	0.39	0.294	0.491	17.8	0.57	NT	0.53	NS	NS
	Lead	ND	ND	0.0036	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0244**	**ND**	NT	ND	NS	NS
	Magnesium	NT	NT	10.6	30.7	18.4	26.9	23.7	29	17.4	28.3	19	20.1	19.5	12	NT	18.6	NS	NS
	Manganese	NT	NT	2.37	0.0486	0.0179	0.143	0.25	0.0864	0.0182	0.0287	0.0705	0.154	5.11	0.12	NT	0.139	NS	NS
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NS	NS
	Nickel	ND	0.0028	0.008	0.0102	ND	0.0095	0.0103	0.009	ND	0.0091	ND	0.009	0.0307	0.0085	NT	0.0069	NS	NS
	Nitrate	NT	NT	ND	0.7773	1.117	0.392	ND	0.621	0.654	ND	1.16	1.37	1.0775	1.15	NT	1.3	NS	NS
	pH	NT	NT	6.7	6.31			7.07	7.56	6.96	6.42	7.48	7.88	8.07	7.53	NT	7.69	NS	NS
	Potassium	NT	NT	2.92	14.3	4	14.8	14.9	13.8	4.68	17	4.53	5.1	15.2	3.3	NT	2.59	NS	NS
	Selenium	ND	ND	ND	ND	ND	ND	0.0082	ND	ND	ND	ND	ND	ND	ND	NT	ND	NS	NS
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NS	NS
	Sodium	NT	NT	25.7	110	37	121	115	136	26.3	136	27.5	345	75.9	150	NT	83.5	NS	NS
	Spec. Cond.	NT	NT	302.3	884.2			795.9	872.7	471.5	1037	466.9	1916	563	813.1	NT	694.3	NS	NS
	Sulfate	NT	NT	5.32	42.1	10.8	26.6	32.8	25.4	10.4	26.3	29.2	19.8	10.7	13.5	NT	14	NS	NS
	TDS	NT	NT	196	500	500	524	588	532	360	562	352	1038	370	470	NT	ND	NS	NS
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	473	NS	NS
	Turbidity	NT	NT	90.3	5.03	0.696	8.26	NT	NT	NS	NS	0	NR	NT	7.5	NT	1	NS	NS
	Vanadium	ND	ND	0.0036	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0281	ND	NT	ND	NS	NS
	Zinc	ND	0.0058	0.0165	0.0053	ND	0.006	0.0067	0.0054	ND	0.0054	ND	0.009	0.0863	0.0098	NT	0.0042	NS	NS

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Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location ST70	Alkalinity	NT	NT	109	106	115	105	81	128	79	108	92	105	82	121	120	106	107	80
	Ammonia	NT	NT	ND	0.497	ND	0.477	ND	0.383	ND	0.555	ND	0.612	ND	0.393	ND	ND	ND	ND
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0011	ND	ND	ND
	Barium	0.0549	0.1404	0.0624	0.0596	0.0632	0.0498	0.0488	0.0706	0.0544	0.0732	0.0606	0.0934	0.082	0.061	0.064	0.0681	0.0625	0.0601
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	38.2	37.9	42.8	32.5	27.4	56.8	31.7	49.3	39.8	44.1	37.7	46	54	43	46.5	34.5
	Chloride	NT	NT	85.8	68.8	97.6	79.8	50.6	122	49.5	145	62.6	674	76	229	148	170	128	106
	Chromium	ND	0.0422	ND	ND	ND	ND	ND	0.0234	ND	0.0253	0.0229	ND	0.0113	ND	ND	ND	ND	ND
	Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	COD	NT	NT	ND	14.1	10	18.5	15.3	17.2	19.5	ND	22.4	15.3	14.5	ND	ND	17.4	12.1	ND
	Copper	0.0076	0.0127	0.0067	0.009	0.0076	0.0066	0.0071	0.01	0.0066	0.007	0.0092	0.0073	0.0057	0.0033	ND	0.0035	ND	0.0116
	Hardness	NT	NT	170	150	170	128	110	188	124	180	140	192	148	200	224	184	192	168
	Iron	NT	NT	0.421	0.98	0.357	1.04	0.555	1.36	0.466	0.77	0.486	0.706	0.498	0.39	0.093	0.758	0.329	0.456
	Lead	ND	0.0027	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	16.3	15.9	17.8	13.6	8.98	16.5	11.7	18.9	11.8	19	10.9	21	24	19.3	20.8	14.6
	Manganese	NT	NT	0.154	0.274	0.147	0.185	0.0928	0.436	0.0764	0.276	0.0973	0.344	0.0795	0.32	0.15	0.272	0.0794	0.191
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	0.0052	0.0095	0.0086	0.0136	0.0077	0.0086	0.0091	0.0083	0.0076	0.0078	0.0074	0.0103	ND	0.011	ND	0.0079	0.0038	0.008
	Nitrate	NT	NT	1.8591	1.124	1.4818	0.831	0.774	1.489	0.878	2.071	0.523	1.481	0.869	1.35	1.17	1.36	1.17	0.666
	pH	NT	NT	7.54	6.61			7.05	8.51	6.53	6.52	7.45	7.41	9.41	7.72	7.46	7.24	7.26	7.01
	Potassium	NT	NT	4.3	4.4	6.84	4.15	4.52	13.1	5.33	14.3	13.5	14.3	12.3	5.5	5.2	3.83	4.25	2.88
	Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium	NT	NT	34.2	69.8	40.1	45.6	20.4	77.1	22.1	70.3	25.9	384	30.7	130	50	71.6	39.1	49.1
	Spec. Cond.	NT	NT	520.6	625.1			291.6	691	315.7	739	424.7	2485	447.1	862.9	692.1	686.3	609.5	457.7
	Sulfate	NT	NT	20.8	18.4	25.2	12.8	11.6	41.4	27.4	29.7	28.7	24.1	28.1	20.4	22.7	18.6	15	12
	TDS	NT	NT	352	392	524	312	256	448	256	380	308	1286	276	574	397	ND	452	253
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	407	ND	ND
	Turbidity	NT	NT	1.96	9.24	0.753	10.7	NT	NT	NS	155	0.6	3	NT	1.8	NT	0.2	0.00	1.70
	Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Zinc	ND	0.0342	ND	0.0166	0.0066	0.0145	0.0121	0.0143	0.0111	0.0136	0.0215	0.0257	0.0101	0.014	0.0054	0.0107	0.0036	0.014

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Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location ST80	Alkalinity	NT	NT	48	110	44	32	42	34	54	34	569	31	41	33	60	34	45	40
	Ammonia	NT	NT	ND	0.456	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium	0.0405	0.0513	0.0365	0.0532	0.0311	0.0387	0.0315	0.0346	0.044	0.0408	0.0391	0.0505	0.037	0.043	0.04	0.0407	0.0384	0.0465
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	16.2	37.9	12.5	11.8	11.9	14.2	18.6	16.5	17.5	16.4	15.8	14	24	16.4	15.9	21.7
	Chloride	NT	NT	32.6	92.3	28.6	27.1	29.4	45.8	38.1	107	43	207	40.9	177	70.6	111	40.9	77
	Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	COD	NT	NT	ND	12.5	17	14.6	12.5	10.3	10.8	ND	14.4	ND	20.5	12.9	ND	ND	11.4	ND
	Copper	0.0056	0.0064	0.0056	0.008	0.0066	0.0068	0.005	0.0058	ND	0.0061	0.0084	ND	ND	0.0026	ND	ND	ND	0.0061
	Hardness	NT	NT	70	152	68	46	55	58	86	66	76	84	76	82	106	80	92	120
	Iron	NT	NT	0.32	0.821	0.863	1.44	0.52	0.741	1.17	0.759	0.55	0.464	0.852	1	0.39	0.338	0.813	0.532
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	7.41	15.4	6.23	5.73	5.47	7.92	11.2	8.71	10.5	9.32	7.83	7.3	13	9.04	8.13	11.8
	Manganese	NT	NT	0.126	0.174	0.155	0.149	0.0565	0.0786	0.184	0.115	0.0977	0.107	0.149	0.13	0.17	0.0959	0.299	0.113
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	ND	0.0035	0.0042	0.0108	ND	0.0055	ND	ND	ND	ND	0.0054	0.0051	ND	0.0058	ND	0.0025	0.0033	ND
	Nitrate	NT	NT	0.8957	1.1925	0.35	0.856	0.423	1.68	0.679	1.52	0.309	1.79	0.534	1.27	0.796	1.56	0.528	1.27
	pH	NT	NT	7.65	7.37			7	8.08	6.94	7.11	7.65	7.64	7.6	7.62	6.93	8.03	7.33	7.39
	Potassium	NT	NT	3.08	4.64	2.68	2.16	3.82	2.57	3.8	2.69	3.86	2.53	2.6	3	3.2	2.04	3.15	2.4
	Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium	NT	NT	17.4	69	14	14.6	12.1	28.2	16.4	64.6	17.2	110	14.9	92	24	49.1	14.2	29.6
	Spec. Cond.	NT	NT	216.2	616.7			162.9	234.2	255	466.6	231.3	685.1	211.2	541.2	333.5	393	219.8	310.4
	Sulfate	NT	NT	8.16	17.3	5.53	6.57	6.04	5.77	5.55	8.53	6.35	10	5.89	8.62	7.55	8.65	4.72	8.56
	TDS	NT	NT	144	380	168	144	160	168	160	246	180	396	168	362	172	ND	154	213
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	236	ND	ND
	Turbidity	NT	NT	1.85	7.23	7.86	91.8	NT	NT	NS	1000+	4	8.8	NT	24	NT	2.3	0.60	10.70
	Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Zinc	ND	0.0078	ND	0.0119	ND	0.0095	0.0056	0.0061	ND	0.0064	0.0128	0.0083	0.0079	0.0073	ND	ND	0.0022	ND

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Table 4
Metals and Other Water Quality Parameters - Long Term Summary

Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location MW1B	Alkalinity					48	49	49	58	52	49	49	47	43	45	46	44	53	47
	Ammonia					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Antimony					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic		New Monitoring Wells Installed In 2010			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium					0.0057	0.0081	0.0089	0.0084	0.0338	0.0061	0.0085	0.007	0.0085	ND	ND	ND	ND	0.0073
	Beryllium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium					6.83	8.18	6.92	8.77	10.4	9.07	8.27	7.81	7.68	6	5.9	6.14	6.55	9.17
	Chloride					ND	ND	ND	2.75	3.33	3.24	3.27	3.96	2.6	3.66	ND	ND	2.71	2.82
	Chromium					0.0055	ND	0.005	0.0085	0.233	0.0052	0.0071	ND	ND	ND	ND	ND	ND	ND
	Cobalt					ND	ND	ND	ND	0.0205	ND	ND	ND	ND	ND	ND	ND	ND	ND
	COD					ND	6.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Copper					0.0086	ND	0.008	0.0104	0.0802	0.0159	0.0057	ND	0.0053	0.0025	ND	ND	ND	ND
	Hardness					30	36	33	60	80	36	40	50	42	40	42	32	68	42
	Iron					1.22	0.651	1.56	2.22	17.6	1.34	0.623	0.289	0.992	0.85	0.42	ND	ND	ND
	Lead					ND	ND	0.0055	ND	0.0117	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium					3.72	4.58	4.34	5.74	11.6	5.42	4.56	4.63	4.36	4.1	3.7	3.54	3.94	4.95
	Manganese					0.038	0.0495	0.0441	0.0541	0.516	0.0436	0.0189	0.0186	0.0279	0.022	0.0081	ND	0.0058	0.0088
	Mercury					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel					0.0055	ND	0.0054	0.008	0.271	0.0053	0.007	ND	0.0051	ND	ND	ND	ND	ND
	Nitrate					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	pH							5.73	6.12	5.6	6.21	6.1	6.12	6.35	6.52	5.96	6.07	5.92	6.02
	Potassium					1.25	1.15	1.47	1.36	3.47	1.53	1.06	1.06	1.14	1	1.1	0.895	0.973	1.15
	Selenium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Silver					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium					10.2	8.37	6.78	8.88	8.62	12.8	7.4	8.04	7.31	7.2	7.5	6.74	7.38	8.53
	Spec. Cond.							76.3	97.9	96.9	113.1	95.5	86	78.3	70.9	80.3	44	89	88.9
	Sulfate					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	TDS					440	92	80	92	92	136	90	67	70	98	ND	ND	74	ND
	Thallium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	172	ND	ND
	Turbidity					28.2	39.4	NT	NT	NS	47.7	33.9	12.3	37.5	1.2	2.9	2.2	34.50	8.60
	Vanadium					ND	ND	ND	ND	0.022	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Zinc					0.0102	0.0069	0.0145	0.0179	0.109	0.012	0.0072	0.0063	0.0143	0.0068	ND	ND	ND	ND

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Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location MW2A	Alkalinity		New Monitoring Wells Installed In 2010			30	40	35	46	54	NS	56	49	28	30	34	39	51	65
	Ammonia					ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND
	Antimony					ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic					ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	0.0014	ND	ND	ND
	Barium					0.0155	0.0299	0.0206	0.0209	0.0181	NS	0.0172	0.0247	0.142	0.012	0.027	0.0112	0.0098	0.0231
	Beryllium					ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium					ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium					4.89	7.78	8.86	10.5	11.1	NS	13.2	10.2	6.29	4.6	5.7	6.29	6.71	9.17
	Chloride					ND	2.74	2.69	2.65	2.63	NS	5.76	3.39	3.73	2.69	3.46	4.77	3.32	4.31
	Chromium					0.0084	0.0085	ND	0.0404	0.022	NS	ND	0.0184	0.0355	ND	**0.27**	ND	ND	0.0092
	Cobalt					ND	ND	ND	0.014	ND	NS	0.0052	ND	0.0174	ND	0.016	ND	ND	ND
	COD					ND	7.5	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND
	Copper					0.008	0.0118	0.0069	0.028	0.0163	NS	0.0106	0.0543	0.0411	ND	0.037	ND	ND	0.0124
	Hardness					19	25	22	32	32	NS	48	46	30	34	130	100	40	40
	Iron					1.38	3.14	0.68	1.27	0.725	NS	1.46	2.2	17.3	0.059	6.2	ND	ND	1.61
	Lead					ND	0.0055	ND	ND	ND	NS	ND	ND	**0.0221**	ND	0.0053	ND	ND	ND
	Magnesium					2.15	3.75	3.25	3.59	4.81	NS	5.72	4.58	6.91	2.8	3.7	2.68	3.39	4.21
	Manganese					0.12	0.173	0.204	0.148	0.151	NS	0.602	0.42	0.595	0.17	0.3	0.0553	0.0361	0.247
	Mercury					ND	ND	ND	0.0006	0.0008	NS	0.0003	0.001	0.0007	ND	0.0004	ND	ND	ND
	Nickel					0.0102	0.0092	0.0055	0.032	0.0301	NS	0.0278	0.0165	0.0244	ND	0.22	0.0021	0.0047	0.0245
	Nitrate					ND	ND	ND	ND	ND	NS	ND	ND	0.2	ND	ND	ND	ND	ND
	pH							5.14	6.08	5.96	NS	5.31	NT	6.56	5.72	5.17	5.43	5.44	5.65
	Potassium					1.94	2.32	1.8	2.12	2.14	NS	2.27	2.12	5.83	1.4	2.6	1.21	1.54	1.94
	Selenium					ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND
	Silver					ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	0.0023	ND	ND	ND
	Sodium					7.15	7.07	6.09	10.4	8.38	NS	9.54	7.47	5.02	4.2	4.8	5.56	6.28	7.01
	Spec. Cond.							73.1	118.1	89.6	NS	104.3	NT	55.7	54.2	62.5	86.4	71.8	84.3
	Sulfate					ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND
	TDS					465	112	108	84	100	NS	4	70	84	72	ND	ND	65	120
	Thallium					ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	215	ND	ND
	Turbidity					58.9	117.6	NT	NT	NS	NS	11.3	NT		2.7	65.5	0.9	0.00	4.60
	Vanadium					ND	ND	ND	ND	ND	NS	ND	ND	0.0192	ND	0.0052	ND	ND	ND
	Zinc					0.0114	0.0229	0.0187	0.0369	0.0247	NS	0.0322	NT	0.0856	ND	0.036	0.0045	0.0071	0.0368

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Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location MW2B	Alkalinity					29	37	33	40	36	41	34	37	23	31	28	42	38	57
	Ammonia					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Antimony					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic		New Monitoring Wells Installed In 2010			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium					0.0113	0.0095	0.0123	0.0064	0.008	0.0071	0.007	0.0071	0.0192	0.012	0.013	0.0112	0.0081	0.0086
	Beryllium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium					4.92	8.72	7.2	9.89	11.7	10.7	10.1	11	5.48	5.7	4.9	6.78	6.03	8.39
	Chloride					ND	ND	ND	ND	2.55	ND	ND	2.58	4.06	3.18	ND	ND	ND	2.66
	Chromium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cobalt					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	COD					ND	ND	ND	ND	ND	12.6	ND	ND	ND	ND	ND	ND	ND	ND
	Copper					0.0054	ND	ND	0.0061	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0023
	Hardness					18	24	35	30	34	34	30	56	28	34	30	62	42	40
	Iron					ND	ND	ND	ND	ND	ND	ND	ND	ND	0.017	0.064	ND	ND	ND
	Lead					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium					1.94	2.84	2.85	2.44	3.04	2.58	2.56	2.74	3.14	3	2.7	3.38	2.47	2.9
	Manganese					0.0868	0.063	0.044	0.0393	0.0302	0.0342	0.023	0.0211	0.0629	0.052	0.03	0.0418	0.0393	0.0609
	Mercury					ND	ND	ND	ND	0.0006	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel					ND	ND	ND	0.0052	0.0062	ND	ND	ND	ND	ND	ND	ND	ND	0.0049
	Nitrate					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	pH							5	5.39	5.49	5.61	5.13	5.31	5.22	5.7	5.22	5.67	5.13	5.19
	Potassium					1.36	1.58	1.39	1.66	1.74	1.83	1.47	1.59	1.47	1.4	1.5	1.52	1.32	1.5
	Selenium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Silver					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium					6.99	5.22	4.88	8.64	4.89	4.66	4.17	4.62	4.25	4.8	4.3	6.5	3.81	4.59
	Spec. Cond.							54.9	76	78.6	94.8	74	78.2	55.1	29.4	64.1	84	66.7	72.1
	Sulfate					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	TDS					648	56	44	92	84	4	72	66	1164	80	21	ND	44	49
	Thallium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	186	ND	ND
	Turbidity					2.43	1.29	NT	NT	NS	0.57	0	0.9	0.7	0.4	0.69	0	4.60	1.10
	Vanadium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Zinc					0.0061	0.008	0.0079	0.0075	0.0069	0.0072	0.0098	0.0072	0.0113	ND	ND	0.0037	0.0038	0.0143

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Monitoring Location MW3A	Alkalinity					40	24	21	24	21	17.2	16	17	13.5	17	18	15.2	26	13.6
	Ammonia					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Antimony					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic		New Monitoring Wells Installed In 2010			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium					0.144	0.0519	0.111	0.223	0.113	0.0487	0.0332	0.0367	0.058	ND	0.01	ND	0.0037	0.0094
	Beryllium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium					6.89	6.1	11.1	17.2	10.1	7.11	5.41	4.52	5.5	3.1	3	2.48	2.53	4.17
	Chloride					ND	2.94	2.89	5.28	2.76	2.6	ND	2.91	3.1	ND	ND	ND	2.58	ND
	Chromium					0.053	0.0067	0.0075	0.0815	0.05	0.0277	0.0133	0.0121	0.0206	ND	ND	ND	0.0021	ND
	Cobalt					0.041	0.0108	0.0188	0.0397	0.0267	0.0094	0.0051	0.0056	0.0108	ND	ND	ND	ND	ND
	COD					ND	ND	ND	6.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Copper					0.118	0.018	0.0273	0.122	0.0773	0.0332	0.0196	0.0288	0.028	0.0028	ND	ND	ND	ND
	Hardness					130	14	22	50	44	34	16	78	38	30	20	16	20	34
	Iron					61.7	5.99	6.67	86.1	44.4	17	11.7	10.1	15.8	2.2	2.3	ND	0.343	0.411
	Lead					**0.0259**	0.0089	**0.023**	**0.0435**	**0.02**	0.0088	ND	0.0052	0.0096	ND	0.001	ND	ND	ND
	Magnesium					20.9	3.68	7.04	28.1	15.6	6.68	5.37	5.74	6.12	1.8	1.9	1.1	1.29	1.83
	Manganese					1.08	0.343	0.629	1.17	0.715	0.24	0.141	0.172	0.416	0.059	0.079	ND	0.0176	0.0213
	Mercury					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel					0.0816	0.0067	0.0098	0.0752	0.0544	0.0224	0.0128	0.0126	0.0202	ND	ND	ND	ND	ND
	Nitrate					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	pH							5.55	5.85	5.86	5.99	5.49	5.4	6.13	5.98	5.51	6.02	5.68	5.7
	Potassium					13	1.98	2.86	15	9.8	3.99	3.03	2.77	3.56	1.3	1.4	0.765	0.876	1
	Selenium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Silver					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium					7.66	4.12	4.19	4.33	3.88	4.1	3.81	4.24	3.28	3.3	3.4	2.93	3.08	3.84
	Spec. Cond.							36.1	41.4	39	43.7	37.1	30.3	33.1	33.4	36	35	31.5	28.9
	Sulfate					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	TDS					100	60	144	112	60	16	126	10	74	74	ND	ND	43	ND
	Thallium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Turbidity					1535	151.5	NT	NT	NS	982	982	1000+	1.8	38	11.1	0	11.70	4.90
	Vanadium					0.0529	0.01	0.0124	0.1	0.058	0.022	0.0134	0.0132	0.0212	ND	ND	ND	ND	ND
	Zinc					0.227	0.0275	0.0459	0.235	0.159	0.06	0.0372	0.041	0.0639	0.0078	0.0084	ND	0.0029	ND

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Monitoring Location MW3B	Alkalinity					160	110	80	111	137	118	123	112	105	94	81	86	234	91
	Ammonia					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Antimony					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic		New Monitoring Wells Installed In 2010			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0026	ND
	Barium					0.0943	0.237	0.175	0.0994	0.13	0.0643	0.12	0.0491	0.0808	ND	0.03	0.0135	0.304	0.0146
	Beryllium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium					10.7	63	57.4	42.3	61.8	44.4	54.5	34.3	33.3	26	23	24.5	106	22.8
	Chloride					ND	4.59	2.57	3.49	3.46	2.76	3.05	2.63	ND	ND	2.58	2.53	479	2.5
	Chromium					0.0246	0.018	0.0129	0.0409	0.184	0.0478	**0.124**	0.053	0.0655	ND	ND	ND	0.0061	ND
	Cobalt					ND	0.027	0.0064	0.012	0.0243	0.0093	0.0157	0.0058	0.0113	ND	ND	ND	0.746	ND
	COD					ND	22.4	7.6	6.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Copper					0.0125	0.0533	0.0184	0.0403	0.105	0.0308	0.054	0.0258	0.0467	ND	ND	ND	0.0092	ND
	Hardness					100	66	45	114	188	132	162	130	118	100	66	78	590	70
	Iron					1.33	9.62	3.89	19.4	19.15	8.89	24.9	5.68	11.4	0.24	0.13	0.255	3.92	0.24
	Lead					ND	**0.041**	0.011	0.0138	0.0163	0.0087	**0.0171**	0.0077	0.0134	ND	ND	ND	ND	ND
	Magnesium					0.715	10.6	5.36	11.7	11.3	7.41	12	6.81	7.09	3.6	2.8	3.95	77.4	3.73
	Manganese					0.0395	1.26	0.276	0.371	0.584	0.33	0.465	0.221	0.385	0.011	0.015	0.0115	60.1	0.0143
	Mercury					ND	ND	ND	ND	ND	ND	0.0003	ND	ND	ND	ND	ND	ND	ND
	Nickel					0.0266	0.031	0.0103	0.0363	0.278	0.0425	0.114	0.0605	0.0648	ND	ND	ND	0.082	ND
	Nitrate					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	pH							10.2	8.47	7.33	8.03	7.59	7.11	7.32	7.49	7	7.42	6.81	6.97
	Potassium					26	9.54	9.11	7.83	7.26	4.18	6.49	3.19	3.55	1.5	1.3	1.67	4.25	1.42
	Selenium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0025	ND
	Silver					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium					56.7	107	41	48.6	51.1	36	30.1	19.4	17	12	9.1	11.4	114	22.4
	Spec. Cond.							279.6	223.9	329.1	161.1	221.9	214	146.9	184.6	184	191.6	153	197.7
	Sulfate					13.5	165	36.9	65.7	94.4	52.6	43.2	29.4	23.6	11.6	5.74	10.8	65.5	16.4
	TDS					332	472	188	268	292	158	242	228	256	142	63	ND	1240	40
	Thallium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	107	ND	ND
	Turbidity					42	2130	NT	NT	NS	11.3	22.7	27.8	30.1	4.4	3.44	5.2	0.00	4.00
	Vanadium					0.0047	0.0279	0.0098	0.022	0.0216	0.0112	0.0233	0.0068	0.0136	ND	ND	ND	0.0023	ND
	Zinc					0.0123	0.108	0.0359	0.0724	0.0988	0.0429	0.0801	0.03	0.0612	ND	ND	ND	0.0415	0.0055

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Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location MW04	Alkalinity					70	60	52	56	51	55	55	55	51	50	60	54	47	47
	Ammonia					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Antimony					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic		New Monitoring Wells Installed In 2010			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium					0.228	0.0431	0.0409	0.0721	0.0383	0.0383	0.0417	0.0417	0.042	0.034	0.032	0.041	0.0323	0.0326
	Beryllium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium					34.4	35.5	34.5	40.4	33.4	39.6	35.1	35.1	35	40	39	43.8	34.5	ND
	Chloride					106	138	120	145	125	141	128	128	139	143	152	154	138	148
	Chromium					0.0261	ND	ND	0.0076	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0021
	Cobalt					0.0264	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	COD					ND	ND	ND	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Copper					0.037	ND	ND	0.0145	ND	0.0133	ND	ND	ND	ND	ND	ND	ND	0.0023
	Hardness					183	200	163	188	162	186	170	170	194	212	194	184	140	192
	Iron					37.6	1.21	1.06	7.69	0.889	0.97	0.786	0.786	1.02	0.7	0.22	0.726	0.38	0.234
	Lead					0.022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium					30.9	25.8	22.9	25.5	19.6	22.6	23.2	23.2	21.1	25	25	25.3	20.5	20.9
	Manganese					2.87	0.138	0.104	0.549	0.115	0.175	0.142	0.142	0.123	0.091	0.18	0.0726	0.0528	0.0448
	Mercury					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel					0.0758	0.0108	0.0055	0.0157	0.0095	0.0108	0.0093	0.0093	0.0076	ND	ND	ND	ND	0.0021
	Nitrate					0.3756	0.378	0.406	0.47	0.444	0.465	0.489	0.489	0.566	0.621	0.507	0.651	0.655	0.668
	pH							5.7	5.96	5.5	6.11	6.05	6.05	6.24	5.96	5.92	5.99	5.86	5.71
	Potassium					12.2	3.56	2.76	4.51	3.01	3.47	2.53	2.53	2.79	3	2.9	3.44	2.53	2.47
	Selenium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Silver					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium					29.4	30.2	29.4	29.7	24.9	30.9	29.6	29.6	28.3	30	35	33.3	27.5	28
	Spec. Cond.							421.5	587.4	501.7	620.9	485.6	485.6	498.8	487.3	574.2	524.6	502	499.4
	Sulfate					ND	ND	ND	ND	ND	4.26	4.01	4.01	4.73	5.37	5.12	5.32	4.8	5.13
	TDS					552	552	520	528	428	310	442	442	370	442	320	ND	412	282
	Thallium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	320	ND	ND
	Turbidity					880	13.2	NT	NT	NS	59.7	45.2	45.2	87	13.3	0	14.1	6.50	1.70
	Vanadium					0.0213	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Zinc					0.138	0.0078	0.0076	0.0313	0.0069	0.009	0.0073	0.0073	0.0108	0.0056	ND	0.0065	0.0022	0.0026

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Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location MW06	Alkalinity		New Monitoring Wells Installed In 2010			260	264	214	238	197	216	183	208	201	201	197	247	80	210
	Ammonia					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Antimony					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0011	ND	ND	0.0031
	Barium					0.675	0.303	0.319	0.365	0.433	0.259	0.301	0.3	0.393	0.31	0.32	0.332	0.0158	0.317
	Beryllium					**0.007**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium					**0.0082**	ND	**0.0066**	**0.0062**	**0.0089**	ND	ND	ND	ND	ND	ND	0.0023	ND	ND
	Calcium					62.6	73.9	70.3	78.7	72.8	76.3	79.8	80.1	90.2	83	84	95.9	19.5	96.7
	Chloride					222	200	226	243	255	258	304	282	411	372	409	407	3.61	443
	Chromium					0.0533	ND	ND	0.0073	0.0229	0.0051	0.0064	0.0118	ND	**0.57**	**0.53**	ND	0.0031	0.0034
	Cobalt					0.33	0.322	0.216	0.374	0.343	0.388	0.263	0.281	0.466	0.59	0.46	0.554	ND	0.57
	COD					ND	17.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Copper					0.143	0.0157	0.0106	0.0243	0.0414	0.0133	0.0149	0.0157	0.0091	0.017	0.011	0.0033	ND	0.0216
	Hardness					430	1720	430	470	452	472	500	500	632	104	800	710	70	630
	Iron					69.4	2.9	0.897	4.76	17.9	3.47	7.65	8.65	2.39	8.3	3.3	27.3	ND	0.798
	Lead					**0.0519**	0.0101	0.011	0.0137	0.0095	ND	0.0054	0.0055	ND	ND	ND	ND	ND	ND
	Magnesium					57.9	54.9	53.5	56.3	53.1	54.9	56.7	56.3	65	60	59	71.5	2.82	66.9
	Manganese					38.9	54	37.63	44.4	37.6	48	40	44.7	54.3	48	50	58.1	0.0131	45.5
	Mercury					ND	0.0004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel					0.154	0.0339	0.032	0.0429	0.0634	0.0463	0.0379	0.0409	0.0532	0.57	0.56	0.0511	ND	0.0684
	Nitrate					0.0757	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	pH							5.58	5.86	5.44	6.17	5.62	6.09	5.85	6.55	6.01	6.27	5.66	5.97
	Potassium					4.92	2.94	3.71	3.63	4.19	3.77	4	3.35	3.97	3.5	3.9	3.29	1.17	4.08
	Selenium					0.0429	0.0113	0.0098	0.0096	0.0151	0.0084	0.0133	0.0084	0.0084	ND	ND	0.0057	ND	0.0021
	Silver					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium					56.2	63.1	61.2	70.9	59.6	65.3	66	64.3	89.8	76	95	101	10.4	107
	Spec. Cond.							984.9	1228	1211	1352	1248	1214	1557	1320	1004	1730	1844	1667
	Sulfate					54.1	58.7	45.2	43.4	47.4	48	50	62.1	70.6	77.2	70.7	70.1	7.46	53.8
	TDS					1080	868	1036	976	776	644	878	718	96	926	1022	ND	98	1060
	Thallium					ND	ND	0.0001	ND	ND	ND	ND	ND	ND	ND	ND	978	ND	ND
	Turbidity					5300	1540	NT	NT	NS	270	2651	589	129.6	11.2	6.4	2.2	15.60	9.00
	Vanadium					0.0531	ND	ND	0.0054	0.0149	ND	ND	0.0051	ND	ND	ND	ND	ND	0.0023
	Zinc					0.5	0.0516	0.0487	0.0616	0.136	0.0515	0.0561	0.0627	0.0456	0.048	0.045	0.0253	0.0036	0.0424

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Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location MW07	Alkalinity					90	42	69	42	31	68	48	139	259	62	128	254	105	290
	Ammonia					ND	ND	ND	ND	ND	ND	ND	0.265	0.377	ND	ND	ND	ND	ND
	Antimony					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic		New Monitoring Wells Installed In 2010			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0025
	Barium					0.0666	0.0674	0.0636	0.058	0.0631	0.0635	0.0732	0.0659	0.102	0.058	0.069	0.103	0.0599	0.0921
	Beryllium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium					46.7	46.5	55.2	41.7	44.5	48.9	45.4	55.6	81.6	40	57	98	40.2	98.1
	Chloride					131	119	117	70.3	108	118	117	123	166	124	128	194	85.1	189
	Chromium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0068
	Cobalt					0.0066	ND	ND	0.0065	0.0073	ND	ND	0.01	0.0103	ND	0.0094	0.0136	0.0121	0.0159
	COD					12.6	15	15.1	14.6	ND	21.2	ND	23.7	35.8	ND	25.2	34.4	ND	25
	Copper					0.016	0.01	0.0084	0.0115	0.013	0.0172	0.011	0.0111	0.0148	0.0068	0.0096	0.0121	0.0051	0.0129
	Hardness					650	219	241	198	216	238	212	294	418	210	266	440	114	126
	Iron					0.69	0.517	ND	0.478	0.413	0.391	0.29	3.31	2.23	ND	0.13	3.83	1.6	2.36
	Lead					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium					23.2	28.1	31.5	25.7	24.7	27.6	27.7	28.7	44.1	23	29	53.4	21.9	50.6
	Manganese					2.01	0.761	0.562	0.681	0.34	1.3	1.22	1.88	5.81	0.95	2.8	1.83	1.49	1.92
	Mercury					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel					0.0157	0.0064	0.0051	0.0067	0.0078	0.0069	0.0069	0.0077	0.0089	ND	ND	0.0086	0.0052	0.0099
	Nitrate					**10.35**	**14.59**	**18.45**	**29.09**	**22.65**	**15.012**	**15.75**	6.206	2.17	4.2	5.38	1.04	1.84	0.254
	pH							5.55	5.62	5.04	5.79	5.57	5.55	6.27	5.81	5.93	5.95	5.41	5.95
	Potassium					3.16	3.81	3.36	3.09	3.8	4.23	2.82	3.81	4.17	2.8	3.8	5.69	2.94	4.08
	Selenium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0041
	Silver					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium					33.4	32.6	31.7	22.7	23.1	24.1	24.7	25.7	48.2	28	43	56.1	33.1	49.4
	Spec. Cond.							568.3	601.2	614.9	693.4	580.1	667.6	1005	174.4	640.3	979.3	540.4	920.7
	Sulfate					13.1	12.4	11.7	5.6	11	5.66	7.76	10.5	21	21.4	26.8	21.2	34.9	23.8
	TDS					648	552	788	528	560	420	524	442	650	398	392	ND	358	578
	Thallium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	600	ND	ND
	Turbidity					11.1	6.06	NT	NT	NS	0.8	3.7	6.09	10.1	0	0	0	0.00	1.60
	Vanadium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Zinc					0.0246	0.0119	0.0106	0.0148	0.014	0.0098	0.0099	0.0096	0.0118	ND	0.011	0.0071	0.0071	0.0147

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Monitoring Location MW08	Alkalinity		New Monitoring Wells Installed In 2010			190	480	209	166	178	175	89	233	187	266	144	289	157	216
	Ammonia					0.726	1.94	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Antimony					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium					0.273	0.177	0.109	0.12	0.419	0.12	0.156	0.111	0.12	0.089	0.094	0.0856	0.0804	0.0942
	Beryllium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium					59	114	76.2	70.1	67.4	67.5	46.9	87.3	64	88	56	97.3	56.8	79.2
	Chloride					190	207	210	198	223	172	197	142	160	134	151	133	102	135
	Chromium					0.0215	ND	ND	ND	0.0654	ND	0.0221	ND	ND	0.014	ND	ND	ND	ND
	Cobalt					0.0816	ND	ND	ND	0.0838	ND	ND	ND	ND	ND	ND	ND	ND	0.0064
	COD					ND	26.3	6.2	11.5	ND	ND	ND	16	11.8	12.5	10.2	10	13.2	ND
	Copper					0.054	0.0145	0.0067	0.0081	0.131	0.0134	0.0107	0.0069	0.0061	0.0029	ND	0.0023	0.0026	0.0179
	Hardness					270	600	99	332	344	302	218	412	316	444	276	468	298	400
	Iron					15.1	1.69	0.69	1.15	46.3	0.498	1.64	1.25	0.485	ND	ND	0.688	0.371	2.14
	Lead					0.01	ND	ND	ND	0.027	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium					36.9	90.9	50.2	40.5	39.6	33.9	27.1	46	37.7	48	32	52.6	32.8	41.8
	Manganese					3.46	0.144	0.0902	0.0101	2.36	0.0338	0.182	0.0111	0.0108	ND	ND	0.0048	0.024	0.192
	Mercury					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel					0.0534	0.0082	0.0071	0.0065	0.0821	ND	0.0241	0.0075	ND	ND	ND	0.0036	0.0024	0.0097
	Nitrate					7.63	**13.85**	5.65	**14.79**	**9.61**	4.75	5.21	**14.55**	9.43	**11.59**	9.53	6.75	8.22	6.84
	pH							6.65	6.59	5.76	6.57	6.39	6.61	6.81	7.83	6.55	7.14	6.64	6.9
	Potassium					10.4	19.1	14	11.8	12.9	13.6	8	12.7	10.8	11	9.7	11.9	8.84	10.7
	Selenium					ND	ND	ND	ND	0.0076	ND	ND	ND	ND	ND	ND	0.0023	ND	ND
	Silver					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium					104	139	124	106	102	95.7	100	78.8	91.5	71	85	87	69.8	82.6
	Spec. Cond.							1040	1154	1199	1157	907.6	1121	964.7	951.2	879	1123	895	932
	Sulfate					55	68.5	72.6	67.4	69	95.1	57.6	136	92.7	120	69.3	169	111	130
	TDS					696	1136	1016	776	712	642	520	740	624	656	483	ND	588	643
	Thallium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	742	ND	ND
	Turbidity					1227	22.7	NT	NT	NS	8.7	NM	35.2	11.6	7.5	2.87	0	1.50	19.40
	Vanadium					0.0366	ND	ND	ND	0.0874	ND	ND	ND	ND	ND	ND	ND	ND	0.006
	Zinc					0.16	0.0143	0.0109	0.0104	0.22	0.0071	0.0311	0.0085	0.0093	ND	ND	ND	0.0032	0.018

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Table 4
Metals and Other Water Quality Parameters - Long Term Summary

Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location MW09	Alkalinity		New Monitoring Wells Installed In 2010			64	110	44	34	37	33	28	35	30	28	28	51	38	46
	Ammonia					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Antimony					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium					0.334	0.156	0.172	0.0682	1.33	0.0722	0.115	0.338	0.688	0.069	0.069	0.0777	0.0434	0.0445
	Beryllium					ND	ND	ND	ND	ND	ND	ND	ND	**0.0055**	**ND**	ND	ND	ND	ND
	Cadmium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium					15.8	14.9	12.4	10.48	17.5	12	11	14.8	10.1	4.6	4.6	8.37	6.78	9.3
	Chloride					11.9	10.9	12.3	12.1	13.6	12.9	13.9	152	15.7	70.3	70.3	63.3	13.7	15.3
	Chromium					0.0588	0.032	ND	0.009	0.0384	0.027	0.0263	0.0363	**0.128**	**0.0044**	0.0044	ND	0.0024	0.0031
	Cobalt					0.0341	0.016	ND	ND	0.0603	0.0057	0.0087	0.0138	0.0684	ND	ND	ND	ND	ND
	COD					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Copper					0.0339	0.0174	ND	0.0083	0.0369	0.0196	0.017	0.0177	0.0508	0.0043	0.0043	ND	ND	ND
	Hardness					80	48	140	50	84	46	48	68	46	36	36	124	72	72
	Iron					48.6	16.7	ND	3.05	26.2	6.41	14.7	22.2	86.7	3	3	0.875	ND	ND
	Lead					**0.0373**	0.0132	0.0124	ND	0.0544	ND	0.0109	0.0137	**0.0648**	**0.0018**	0.0018	ND	ND	ND
	Magnesium					24.4	13.2	6.9	7.22	15.9	8.44	11.8	15.7	38.2	4.5	4.5	6.34	4.88	5.09
	Manganese					1.8	0.689	0.196	0.242	3.19	0.273	0.415	0.626	2.56	0.088	0.088	0.0563	0.0548	0.0275
	Mercury					ND	ND	0.0004	ND	0.0004	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel					0.0553	0.0274	ND	0.0094	0.034	0.0217	0.0249	0.0318	0.109	0.0052	0.0052	ND	0.0025	ND
	Nitrate					1.25	1.25	1.14	1.47	1.18	1.45	1.49	1.36	1.26	0.839	0.839	1.12	1.27	0.941
	pH							5.25	5.08	5.23	5.42	5.05	5.07	5.5	5.7	5.7	5.57	4.97	5.3
	Potassium					17.8	7.41	1.54	2.09	9.63	3.45	5.4	8.61	30.3	1.8	1.8	1.6	0.789	0.768
	Selenium					ND	ND	ND	ND	0.0088	ND	ND	ND	0.0078	ND	ND	ND	ND	ND
	Silver					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium					7.23	3.75	3.91	4.26	3.77	7.95	4.13	87.1	9.44	50	50	41.8	5.76	4.14
	Spec. Cond.							105.3	105.1	122.5	120.2	70.2	579.6	108.1	269.8	269.8	238.1	111.7	99
	Sulfate					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	TDS					168	172	116	80	112	196	96	370	72	188	188	ND	91	124
	Thallium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	147	ND	ND
	Turbidity					1160	398	NT	NT	NS	446	1235	644	500	154.3	154.3	40.9	16.30	19.90
	Vanadium					0.0541	0.0285	ND	ND	0.0306	0.0076	0.0167	0.0258	0.117	ND	ND	ND	ND	ND
	Zinc					0.189	0.0777	0.0166	0.0242	0.157	0.0363	0.0871	0.0867	0.398	0.022	0.022	0.0171	0.0087	0.006

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Table 4
Metals and Other Water Quality Parameters - Long Term Summary

Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location MW10	Alkalinity		New Monitoring Wells Installed In 2010			100	75	78	65	79	59	86	68	4.6	61	62	50	66	64
	Ammonia					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Antimony					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium					1.49	0.124	0.414	0.116	0.157	0.0878	0.448	0.104	0.682	0.064	0.071	0.0526	0.0688	0.0784
	Beryllium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium					29.1	14.2	21.2	16.1	21.1	17.2	23.3	18.3	50.6	15	16	14.9	15.9	18.3
	Chloride					6.75	19.4	8.02	8.31	9.6	6.76	7.95	6.97	283	6.22	8.68	6.26	8.11	6.99
	Chromium					**0.125**	ND	0.0057	0.0102	0.0174	0.0081	0.0677	ND	0.0251	0.0036	ND	ND	ND	ND
	Cobalt					0.0659	ND	0.0103	0.0052	0.0067	ND	0.0308	ND	0.0139	ND	ND	ND	ND	ND
	COD					ND	36.6	ND	4.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Copper					0.197	0.0123	0.0292	0.027	0.0283	0.0254	0.108	0.0139	0.0313	0.0051	ND	ND	ND	ND
	Hardness					110	70	72	68	82	60	90	82	236	76	70	104	100	76
	Iron					201	ND	5.7	9	12.6	5.5	55.7	4.31	22.1	2	1.2	0.329	0.423	1.09
	Lead					**0.0611**	ND	**0.0153**	ND	0.005	ND	**0.0181**	ND	**0.0185**	ND	ND	ND	ND	ND
	Magnesium					78.3	9.1112	10.7	9.78	11.2	8.42	26.4	9.06	30.6	7.1	6.9	7.4	6.84	7.8
	Manganese					3.59	0.044	0.38	0.158	0.212	0.0983	0.931	0.0692	0.58	0.036	0.016	0.0149	0.0205	0.0238
	Mercury					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel					0.111	ND	0.013	0.0112	0.0172	0.0099	0.0607	0.0074	0.0254	0.0062	ND	ND	0.0039	0.0054
	Nitrate					ND	ND	ND	ND	ND	ND	ND	ND	3.91	ND	ND	ND	ND	ND
	pH							5.35	5.8	5.53	5.95	5.9	5.62	5.16	5.95	5.73	6.08	5.7	5.77
	Potassium					43.5	1.26	2.12	2.78	3.27	2.29	11.3	1.81	6.43	1.3	1.3	1.02	1.09	1.3
	Selenium					0.0085	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Silver					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium					12.4	10.1	8.3	8.54	9.1	12.4	9.52	9.11	90.2	8.8	8.8	9.87	8.57	9.18
	Spec. Cond.							132.5	144.6	184	164.9	183	148.4	983.8	132.3	163.1	135.1	157	153.3
	Sulfate					7.56	8.3	7.83	8.02	7.4	8.41	6.47	8.64	18.8	11.3	11.6	11.2	11.4	10.1
	TDS					148	140	140	116	160	162	142	144	680	68	73	ND	133	138
	Thallium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	96	ND	ND
	Turbidity					4340	3140	NT	NT	NS	203	1583	114	401	115.5	37.8	16	38.00	36.70
	Vanadium					0.189	ND	0.0094	0.0242	0.0319	0.0143	0.124	0.0107	0.0273	0.0055	ND	ND	0.0029	ND
	Zinc					0.337	0.132	0.0575	0.0335	0.0444	0.0272	0.19	0.0606	0.0898	0.035	0.0073	0.0149	0.0095	0.0107

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Metals and Other Water Quality Parameters - Long Term Summary

Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location MW11A	Alkalinity		New Monitoring Wells Installed In 2010			50	27	40	33	37	29	33	16.2	31	23	37	25	33	35
	Ammonia					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Antimony					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium					0.749	0.274	0.148	0.138	0.183	0.111	0.185	0.158	0.083	0.032	0.047	0.0396	0.0399	0.0553
	Beryllium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium					23.4	14.8	15.1	11.4	15.8	12.5	17.3	10.9	12.9	7.7	13	11	12.5	14.9
	Chloride					4.22	10.9	4.52	4.17	5.1	4.99	5.14	4.21	4.97	4.87	7.02	6.56	7.71	7.98
	Chromium					**0.144**	0.0273	0.0096	0.0354	0.0514	0.032	0.0518	0.0384	0.0143	0.0095	ND	ND	0.0025	ND
	Cobalt					0.0695	0.0181	0.0103	0.014	0.0213	0.0119	0.0212	0.0155	0.0055	ND	ND	ND	ND	ND
	COD					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Copper					0.0825	0.026	0.0135	0.0452	0.0409	0.0321	0.046	0.0413	0.0156	0.0051	ND	ND	0.0027	ND
	Hardness					90	36	54	52	80	46	60	200	58	44	54	88	84	70
	Iron					149	12.1	7.54	22.56	30.8	18.4	30.7	27.8	9.84	4.7	3	1.45	0.84	2.61
	Lead					**0.0499**	**0.0156**	0.0122	0.0069	0.0136	0.0061	0.0117	0.0079	ND	0.0015	ND	ND	ND	ND
	Magnesium					66.6	11.2	8.63	11.7	13.9	9.74	16.4	12.7	7.8	3.6	5.7	5.24	4.95	6.35
	Manganese					3.47	0.738	0.319	0.451	0.693	0.326	0.633	0.464	0.169	0.057	0.027	0.0364	0.0236	0.05
	Mercury					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel					0.145	0.0277	0.0171	0.0312	0.0486	0.0297	0.0489	0.036	0.0134	0.0099	ND	ND	0.004	0.0067
	Nitrate					1.4774	1.1	1.94	1.29	2.25	1.87	2.57	1.09	2.34	1.22	3.57	1.99	3.41	3.3
	pH							5.14	5.51	5.49	5.78	5.72	5.54	5.76	5.7	5.53	5.80	5.51	5.39
	Potassium					27.7	1.87	1.3	4.85	4.82	3.64	6.81	5.26	2.34	1.1	1.2	0.975	0.802	1.28
	Selenium					0.0056	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Silver					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium					8.49	4.21	5.15	4.66	4.57	8.24	5.31	3.89	4.7	3.7	5.3	5.38	5.01	5.75
	Spec. Cond.							92	93.3	114.8	111.2	111.7	76.9	101	57.4	125.8	97.4	119.1	111.9
	Sulfate					7.07	6.28	5.94	5.83	5.76	6.22	5.93	6.78	6.37	6.75	5.37	5.79	5.35	4.9
	TDS					108	72	96	64	108	176	116	87	78	50	10	ND	118	124
	Thallium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	86	ND	ND
	Turbidity					4880	1600	NT	NT	NS	766	1272	607	630	46	86.3	17.5	39.90	47.90
	Vanadium					0.124	0.0093	0.0055	0.0425	0.057	0.0328	0.0555	0.0424	0.0171	0.0091	0.0052	ND	0.0023	ND
	Zinc					0.334	0.0938	0.0493	0.0788	0.109	0.069	0.124	0.0925	0.034	0.011	0.011	0.0095	0.0076	0.0154

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Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location MW11B	Alkalinity					100	69	65	68	61	61	62	68	73	72	68	68	67	67
	Ammonia					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Antimony					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic		New Monitoring Wells Installed In 2010			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium					0.0744	0.0194	0.0188	0.0252	0.021	0.021	0.0261	0.0348	0.0256	0.021	0.021	0.0246	0.0182	0.0373
	Beryllium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium					34.4	15.4	14.9	14.3	15.9	15.9	16.9	17.5	17.6	16	16	18.6	14.9	19.2
	Chloride					4.18	4.79	4.38	4.9	5.06	5.06	6.57	6.14	6.38	6.77	7.07	9.64	9.68	9.51
	Chromium					0.0082	ND	ND	ND	ND	ND	ND	0.0052	ND	ND	ND	ND	ND	ND
	Cobalt					0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	COD					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Copper					0.0131	ND	ND	0.0074	ND	ND	0.0055	0.007	ND	0.0021	ND	ND	0.0022	0.0059
	Hardness					94	66	58	62	62	62	62	72	86	86	72	108	82	80
	Iron					6.97	ND	ND	1.37	0.567	0.567	0.948	2.73	0.705	1.8	1.6	0.449	0.255	3.19
	Lead					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium					8.36	6.63	6.3	7.72	6.62	6.62	8.18	9.36	8.63	8.8	8	10.2	7.55	10.3
	Manganese					0.167	0.012	0.0107	0.0345	0.0178	0.0178	0.021	0.0516	0.0142	0.031	0.019	0.0101	0.0057	0.0818
	Mercury					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel					0.009	ND	ND	ND	ND	ND	ND	0.0054	ND	ND	ND	ND	ND	0.0059
	Nitrate					2.307	2.33	2.19	2.56	2.37	2.37	2.38	2.74	2.82	3.02	3	2.93	2.45	2.88
	pH							6.13	6.36	6.17	6.17	6.46	6.19	6.56	6.77	6.27	6.27	6.05	6.21
	Potassium					2.5	0.888	0.93	1.12	0.941	0.941	1.17	1.46	0.946	1.1	1.1	1.06	0.8	1.42
	Selenium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Silver					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium					12.6	9.1	8.49	9.38	8.14	8.14	9.42	9.7	9.22	9.6	9	11	8.61	9.68
	Spec. Cond.							123	156	147.8	147.8	144.9	160	171.5	74.1	170.2	162.1	163.5	169.1
	Sulfate					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	TDS					156	132	116	132	136	136	134	156	108	106	43	ND	128	171
	Thallium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	143	ND	ND
	Turbidity					72.4	4.99	NT	NT	NS	NS	15.8	40.5	7.4	34.2	36.9	24.6	29.60	185.90
	Vanadium					0.0229	ND	ND	0.0062	ND	ND	0.0058	0.0088	ND	0.007	0.0062	ND	0.0039	0.0108
	Zinc					0.0209	ND	ND	0.0106	0.0066	0.0066	0.0074	0.0122	ND	0.0053	ND	ND	0.0143	0.0135

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Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location MW12	Alkalinity		New Monitoring Wells Installed In 2010			15	16	22	12	10	7	7.9	6	75	7.5	10	23	25	36
	Ammonia					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Antimony					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium					1.32	0.749	0.615	0.635	0.472	0.473	0.392	0.471	0.354	0.44	0.31	0.354	0.269	0.255
	Beryllium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium					82	78.8	65.6	65.2	47.4	44.5	45.5	46.4	19.7	47	32	32.8	28.7	26.5
	Chloride					374	371	286	348	211	246	197	251	7.3	267	176	204	147	135
	Chromium					0.1	ND	ND	0.0181	0.0261	ND	0.0115	ND	0.0436	0.01	ND	ND	0.002	ND
	Cobalt					0.0492	ND	ND	ND	0.012	ND	ND	ND	0.0213	ND	ND	ND	ND	ND
	COD					ND	ND	ND	6.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Copper					0.109	0.0111	0.0063	0.0168	0.0339	0.0159	0.0167	0.0079	0.078	0.011	ND	ND	0.003	0.002
	Hardness					360	356	280	276	188	196	170	206	88	204	136	140	136	140
	Iron					100	2.59	1.22	4.09	17	1.27	7.12	1.17	36.8	3.8	2.1	0.367	0.374	ND
	Lead					**0.0616**	ND	0.0106	ND	0.0168	ND	0.0066	ND	0.0112	0.0022	0.0014	ND	ND	ND
	Magnesium					69.5	43.1	29.1	32.7	23	21.1	21.6	22.9	19.5	24	15	16.9	12.6	11.4
	Manganese					3.02	0.138	0.103	0.155	0.532	0.0835	0.177	0.0658	0.596	0.11	0.055	0.0391	0.0398	0.0256
	Mercury					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel					0.0938	0.0113	0.008	0.0205	0.0257	0.0096	0.0136	0.0079	0.0388	0.014	ND	ND	0.0041	0.0034
	Nitrate					5.0188	4.38	4.87	4.43	4.9	4.49	5.02	4.33	ND	3.94	4.88	3.83	4.83	4.96
	pH							4.66	4.8	5.01	5.19	4.82	4.85	5.96	5.2	5.05	5.36	5.07	5.15
	Potassium					23.1	5.14	4.12	4.49	5.42	4.06	4.3	3.27	8.02	4.1	3.2	2.6	2.39	2.16
	Selenium					0.0062	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Silver					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium					81.5	104	73.7	96.2	57.8	76.9	61.4	88.4	8.05	88	64	83.5	54	50.8
	Spec. Cond.							836.7	1142	757	976.6	668	835.9	159.4	783.6	641.4	640.7	563.6	481.9
	Sulfate					14.7	14.3	15.5	13.9	15.7	15	17.3	18.2	8.23	18.8	20.7	20.4	20.4	18.8
	TDS					1520	1184	1020	1012	720	600	646	624	134	620	337	ND	443	333
	Thallium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	426	ND	ND
	Turbidity					3920	57.4	NT	NT	NS	84.3	160	50.1	358.3	94.3	6.9	26.3	5.20	8.30
	Vanadium					0.085	ND	ND	ND	0.0246	ND	0.0088	ND	0.0893	ND	ND	ND	0.0023	0.0025
	Zinc					0.269	0.0352	0.0306	0.039	0.0754	0.0238	0.0443	0.0241	0.132	0.041	0.022	0.021	0.0159	0.0132

NT: Not Tested
NS: Not Sampled
ND: Not Detected
Note: Benchmark exceedances are indicated in Red

Table 4
Metals and Other Water Quality Parameters - Long Term Summary

Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location MW13A	Alkalinity		New Monitoring Wells Installed In 2010			50	224	34	227	32	34	32	34	36	32	40	33	37	43
	Ammonia					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Antimony					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0015	ND	ND	ND
	Barium					0.332	0.199	0.273	0.687	0.249	0.213	0.397	0.44	0.476	0.18	0.34	0.193	0.197	0.205
	Beryllium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0017	ND	ND	ND
	Cadmium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium					26.5	23.8	24.5	29.1	26.3	25	26.9	29	26.8	23	28	24.4	24.1	28.1
	Chloride					84.3	83.5	85.1	86.1	90.7	88.2	87.9	86.8	85.8	90.8	93.8	90.7	91.7	95
	Chromium					0.024	ND	ND	0.0853	0.0224	0.0084	0.0409	0.0436	0.0342	0.005	0.041	ND	ND	ND
	Cobalt					0.029	0.0079	0.0114	0.0683	0.017	0.0109	0.0351	0.0378	0.0335	0.0085	0.022	0.0076	0.009	0.0085
	COD					34.6	ND	ND	10.1	ND	17.2	ND	10.9	18.6	ND	11.7	ND	ND	ND
	Copper					0.071	0.0121	0.0137	0.197	0.0421	0.0271	0.09	0.095	0.0753	0.005	0.048	ND	0.0031	0.0067
	Hardness					160	128	125	164	148	132	136	270	148	220	152	128	142	134
	Iron					28.3	3.32	2.96	108	17.3	10.3	45.7	45.9	44	2	29	0.259	1.26	0.871
	Lead					0.0112	ND	0.0069	**0.0327**	0.0069	ND	0.0146	**0.0172**	**0.0215**	ND	0.01	ND	ND	ND
	Magnesium					23.5	20.7	19.7	47	19.7	18.2	30.5	31.9	28.6	17	26	17.7	17.3	19.6
	Manganese					0.876	0.302	0.376	1.88	0.54	0.333	1.03	0.954	1.3	0.27	0.42	0.264	0.307	0.283
	Mercury					0.0003	0.0003	0.0006	**0.0026**	0.0004	0.0003	0.0007	0.0014	0.002	ND	**0.0031**	ND	ND	ND
	Nickel					0.0345	0.01	0.0097	0.0773	0.0249	0.0135	0.0427	0.0462	0.0359	ND	0.011	0.0076	0.0077	0.0103
	Nitrate					2.48	2.29	2.17	1.97	2.08	1.88	1.67	1.52	1.2861	1.55	1.55	1.63	1.54	1.84
	pH							4.79	4.93	4.91	5.32	5.12	5.31	5.34	5.12	5.07	5.16	4.82	5.02
	Potassium					8.65	3.03	2.72	22.6	6.15	4.75	11.3	12.2	11.6	2.3	8.7	1.94	2.38	2.32
	Selenium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Silver					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium					17.6	16.1	15.5	15.1	14.9	16.5	12.5	14.3	13.3	13	14	13.2	13.3	14.8
	Spec. Cond.							303	362.1	362.5	406.3	290.5	214.5	83.3	319.4	378.9	348.8	360.2	353.5
	Sulfate					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	TDS					380	324	456	392	336	174	348	312	288	228	142	ND	293	177
	Thallium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	238	ND	ND
	Turbidity					1048	56.8	NT	NT	NS	1082	1220	934	1349	42.7	73.2	27.2	46.60	14.30
	Vanadium					0.0626	0.0099	0.0094	0.238	0.0461	0.0197	0.113	0.0979	0.0903	0.005	0.078	ND	0.0026	ND
	Zinc					0.0902	0.0194	0.0224	0.231	0.0585	0.033	0.126	0.134	0.108	0.017	0.089	0.0122	0.0124	0.0158

NT: Not Tested
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Table 4
Metals and Other Water Quality Parameters - Long Term Summary

Sample Site	Parameter	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Sping 2017
Monitoring Location MW13B	Alkalinity					230	720	226	742	226	224	221	218	221	212	216	209	214	217
	Ammonia					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Antimony					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic		New Monitoring Wells Installed In 2010			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium					0.0676	0.073	0.0706	0.0746	0.0676	0.0748	0.0754	0.0794	0.0814	0.07	0.073	0.077	0.0745	0.0734
	Beryllium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium					82.7	80.5	83.4	91.2	81.4	83	86.2	90	85.2	86	89	84.9	83.7	83.5
	Chloride					84.6	84.7	85.5	89.5	86.4	91	89.4	92.4	97.1	99.8	99.2	97.9	98.5	105
	Chromium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0029
	Cobalt					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	COD					6.2	9.6	3.4	12.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.8
	Copper					0.0063	ND	ND	ND	ND	0.01	ND	ND	ND	0.0012	ND	ND	ND	ND
	Hardness					360	313	67	334	316	314	328	340	342	368	344	324	340	340
	Iron					0.571	ND	ND	0.498	0.447	0.537	0.411	0.458	0.498	ND	ND	0.478	0.456	0.419
	Lead					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium					27.6	31.4	31.2	32.2	26.9	28.1	30.4	30.2	28.7	29	29	29.2	30.1	28.9
	Manganese					0.0306	0.0323	0.0324	0.0382	0.0403	0.0331	0.0371	0.0342	0.0361	0.026	0.032	0.036	0.0353	0.0352
	Mercury					0.0002	ND	ND	ND	0.0003	0.0002	0.0003	0.0002	0.0002	0.0002	ND	ND	ND	ND
	Nickel					ND	ND	ND	0.0058	0.0068	ND	0.0057	0.0051	ND	ND	ND	0.0028	0.0025	0.0045
	Nitrate					1.467	1.62	1.6	1.88	2.08	2.27	2.44	2.7	2.91	3.31	3.46	3.68	3.74	4.01
	pH							5.85	5.88	5.64	6.2	6.07	6.15	6.28	6.7	6.1	6.14	5.9	5.95
	Potassium					3.3	4.07	3.53	3.5	3.67	4.71	3.35	3.66	3.45	3.4	3.8	3.26	3.34	3.25
	Selenium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0025
	Silver					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium					19.9	18.2	17.9	18.9	15.9	19.9	16.4	17.7	17.7	17	19	17.6	18.2	17.4
	Spec. Cond.							586.8	713.4	706.1	781	673.7	676.3	716.8	615.2	710	700	708.7	676.4
	Sulfate					6.18	ND	6.71	7.55	7.58	7.33	8.33	9.35	10.5	11.4	10.2	12.5	12.6	13.5
	TDS					540	572	640	560	480	474	502	458	454	472	412	ND	508	429
	Thallium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	464	ND	ND
	Turbidity					0.232	0.364	NT	NT	NS	0	0	0.69	0	0.7	0.47	0	0.00	0.00
	Vanadium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Zinc					ND	ND	ND	0.005	0.0062	ND	0.0066	0.0064	0.0054	ND	ND	ND	ND	ND

NT: Not Tested
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Note: Benchmark exceedances are indicated in Red

TABLE A - Filtered and Unfiltered Sampling Results for Metals

Parameter			Monitoring Well										
			OB01	OB02	OB02A	OB03	OB03A	OB04	OB04A	OB06	OB07	OB07A	OB08
	UNFILTERED	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Arsenic	0.0038	ND	ND	0.0065	0.0055	0.0038	0.0064	ND	ND	0.0028	ND
		Barium	0.237	0.0687	0.477	0.312	0.384	0.478	0.065	0.195	0.0427	0.0523	0.135
		Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Calcium	76.4	25.3	111	176	72.9	77.2	135	148	125	109	61.9
		Chromium	ND	ND	ND	0.0059	ND	0.006	0.0057	ND	ND	0.0028	0.0023
		Cobalt	0.0026	ND	ND	ND	0.0561	0.0575	ND	0.0053	ND	ND	0.0054
		Copper	0.0082	0.0055	ND	0.0363	0.0125	0.0057	0.03	0.0138	ND	0.0028	0.003
		Iron	0.426	1.3	1.21	0.9	28	23.3	0.816	1.87	1.25	0.631	0.429
		Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Magnesium	45.2	9.9	67.3	91.5	44.1	47.6	94.5	60.5	38.7	60	14.2
		Manganese	1.25	0.573	0.0533	3.13	16.6	20.9	1.74	0.582	0.126	0.0862	5.15
		Mercury	0.0004	ND	ND	ND	ND	ND	ND	ND	ND	0.0004	ND
		Nickel	0.014	ND	0.0168	0.0177	0.0175	0.0179	0.0253	0.0163	0.0059	0.0072	0.0078
		Potassium	4	3.33	5.53	6.97	8.34	5.9	4.96	4.39	3.22	2.4	2.62
		Selenium	ND	ND	ND	0.0317	ND	0.0049	0.0339	0.0211	0.0131	0.014	ND
		Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Sodium	94.7	10.4	47.3	69.4	53.4	40.6	96.3	124	22	28.9	23.5
		Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Vanadium	0.0047	ND	0.0052	0.0045	ND	ND	0.0043	0.005	ND	0.0024	ND
		Zinc	0.0073	0.0054	0.0091	0.0071	0.0114	0.0133	0.0218	0.0194	0.005	0.0025	0.0021
	FILTERED	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Arsenic	0.004	ND	0.0037	0.0037	0.0052	0.006	0.0071	0.0046	0.0021	0.003	ND
		Barium	0.231	0.0507	0.498	0.48	0.38	0.321	0.0639	0.18	0.0344	0.0515	0.138
		Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Calcium	77.5	23.5	108	76.1	71.1	176	134	149	127	113	63.5
		Chromium	ND	ND	0.0024	0.0096	0.0083	0.0067	0.0067	0.0078	0.0025	0.0044	ND
		Cobalt	0.002	ND	ND	0.0552	0.0519	ND	ND	0.0048	ND	ND	0.0055
		Copper	0.0048	ND	0.0026	0.006	0.0106	0.0383	0.03	0.0129	0.0028	0.0031	ND
		Iron	0.414	ND	0.576	22.9	26	0.858	0.77	0.893	0.723	0.632	0.428
		Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Magnesium	46.9	9.17	65.5	46.1	43.8	90.7	93.1	61.8	39.8	63.8	14.6
		Manganese	1.28	0.246	0.0447	20.1	16.9	3.21	1.71	0.575	0.113	0.0674	4.74
		Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Nickel	0.0144	ND	0.0151	0.0175	0.0159	0.018	0.0256	0.0151	0.005	0.0073	0.0076
		Potassium	3.9	3.09	5.21	5.83	8.4	7.01	4.89	4.19	3.17	2.42	2.47
		Selenium	ND	ND	ND	0.0047	0.0041	0.0301	0.0336	0.0203	0.012	0.0166	ND
		Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Sodium	96.8	9.66	46.1	39.2	54.5	69.2	94.6	126	22.7	30.4	23.9
		Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Vanadium	0.0047	ND	0.0032	ND	ND	0.0042	0.0046	0.0032	0.0022	0.0028	ND
		Zinc	0.0073	ND	0.0059	0.0138	0.0095	0.0076	0.0229	0.0146	0.0028	0.0033	ND

ND: Not Detected

TABLE A - Filtered and Unfiltered Sampling Results for Metals

Parameter			Monitoring Well										
			OB08A	OB10	OB11	OB11A	OB12	OB15	OB25	OB102	OB105	MW1B	MW2A
	UNFILTERED	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Arsenic	0.003	0.0022	0.0062	0.0054	ND	ND	ND	0.006	ND	ND	ND
		Barium	0.0571	0.102	0.0266	0.161	0.0154	0.0944	0.123	0.378	0.452	0.0073	0.0231
		Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Cadmium	ND	ND	0.0128	ND	ND	ND	ND	ND	ND	ND	ND
		Calcium	55.8	62.6	138	121	37.2	22.6	81.2	118	143	9.17	9.17
		Chromium	0.0031	0.0023	0.0084	0.008	0.0042	0.0034	ND	ND	ND	ND	0.0092
		Cobalt	0.02	0.0122	0.0021	0.0388	ND	0.0049	0.0339	0.0708	0.0088	ND	ND
		Copper	0.005	ND	0.0063	0.0146	0.0033	0.0194	0.0242	0.167	0.0102	ND	0.0124
		Iron	4.23	1.33	0.911	2.37	ND	9.96	2.88	1.2	19.6	ND	1.61
		Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Magnesium	24	34.9	73.9	83.9	23.1	25	58.6	98.1	144	4.95	4.21
		Manganese	7.88	7.72	1.02	10.6	0.126	1.74	22.4	15.7	2.74	0.0088	0.247
		Mercury	ND	ND	0.0008	ND	ND	ND	ND	ND	ND	ND	ND
		Nickel	0.0081	0.0143	0.0406	0.0387	0.0086	0.018	0.0213	0.102	0.0157	ND	0.0245
		Potassium	2.66	3.24	4.58	5.24	2.31	2.21	15	52.6	86.3	1.15	1.94
		Selenium	0.0032	0.0058	0.0093	0.0084	0.0022	ND	0.0061	0.0114	0.0115	ND	ND
		Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Sodium	32.2	21.9	85.7	115	24.2	92.4	80	547	346	8.53	7.01
		Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Vanadium	ND	ND	0.0036	0.0026	ND	ND	ND	ND	ND	ND	ND
		Zinc	0.0037	0.0037	0.0414	0.0183	0.0026	0.0439	0.0168	0.0118	0.022	ND	0.0368
	FILTERED	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Arsenic	0.0027	ND	0.0048	0.0041	ND	ND	ND	ND	ND	ND	ND
		Barium	0.0562	0.0986	0.0263	0.158	0.0158	0.0957	0.113	0.407	0.41	ND	0.0144
		Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Cadmium	ND	ND	0.0122	ND	ND	ND	ND	ND	ND	ND	ND
		Calcium	56.8	64.6	140	125	38.6	23	75.8	119	138	6.93	8.53
		Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0021
		Cobalt	0.0196	0.0117	0.0021	0.0377	ND	0.0049	0.0317	0.0672	0.0088	ND	ND
		Copper	0.0032	0.0027	0.0087	0.0138	0.007	0.0168	0.0163	0.0408	0.0074	0.0028	0.0047
		Iron	3.99	1.37	1.02	2.31	0.207	9.88	1.06	0.994	16.8	ND	0.253
		Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Magnesium	24.3	36	74.9	86	23.9	25.1	54.8	99.4	135	4.01	3.71
		Manganese	7.3	6.95	1.03	9.53	0.126	1.69	21.1	16.6	2.96	0.0059	0.193
		Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Nickel	0.0079	0.0139	0.0398	0.0377	0.0084	0.0177	0.018	0.0908	0.0157	ND	0.0127
		Potassium	2.65	3.3	4.62	5.38	2.35	2.23	14.2	52.7	78.2	0.979	1.66
		Selenium	0.0028	0.0051	0.0079	0.008	ND	ND	0.0045	0.0146	0.0117	ND	ND
		Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Sodium	32.4	22.1	87.1	118	25	94	76.6	532	323	7.49	6.57
		Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Vanadium	ND	ND	0.0037	0.0028	ND	ND	ND	ND	ND	ND	ND
		Zinc	0.0034	0.0043	0.0413	0.018	0.0039	0.0292	0.0096	0.0109	0.0095	0.0023	0.0303

ND: Not Detected

TABLE A - Filtered and Unfiltered Sampling Results for Metals

Parameter			Monitoring Well										
			MW2B	MW3A	MW3B	MW04	MW06	MW07	MW08	MW09	MW10	MW11A	MW11B
	UNFILTERED	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Arsenic	ND	ND	ND	ND	0.0031	0.0025	ND	ND	ND	ND	ND
		Barium	0.0086	0.0094	0.0146	0.0326	0.317	0.0921	0.0942	0.0445	0.0784	0.0553	0.0373
		Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Calcium	8.39	4.17	22.8	ND	96.7	98.1	79.2	9.3	18.3	14.9	19.2
		Chromium	ND	ND	ND	0.0021	0.0034	0.0068	ND	0.0031	ND	ND	ND
		Cobalt	ND	ND	ND	ND	0.57	0.0159	0.0064	ND	ND	ND	ND
		Copper	0.0023	ND	ND	0.0023	0.0216	0.0129	0.0179	ND	ND	ND	0.0059
		Iron	ND	0.411	0.24	0.234	0.798	2.36	2.14	ND	1.09	2.61	3.19
		Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Magnesium	2.9	1.83	3.73	20.9	66.9	50.6	41.8	5.09	7.8	6.35	10.3
		Manganese	0.0609	0.0213	0.0143	0.0448	45.5	1.92	0.192	0.0275	0.0238	0.05	0.0818
		Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Nickel	0.0049	ND	ND	0.0021	0.0684	0.0099	0.0097	ND	0.0054	0.0067	0.0059
		Potassium	1.5	1	1.42	2.47	4.08	4.08	10.7	0.768	1.3	1.28	1.42
		Selenium	ND	ND	ND	ND	0.0021	0.0041	ND	ND	ND	ND	ND
		Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Sodium	4.59	3.84	22.4	28	107	49.4	82.6	4.14	9.18	5.75	9.68
		Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Vanadium	ND	ND	ND	ND	0.0023	ND	0.006	ND	ND	ND	0.0108
		Zinc	0.0143	ND	0.0055	0.0026	0.0424	0.0147	0.018	0.006	0.0107	0.0154	0.0135
	FILTERED	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Arsenic	ND	ND	ND	ND	0.003	0.0022	ND	ND	ND	ND	ND
		Barium	0.0085	ND	0.0095	0.0329	0.309	0.0921	0.078	0.0435	0.0666	0.035	0.0178
		Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Calcium	7.64	2.47	19.1	36.6	100	98.4	78.6	9.02	15.6	12	16.5
		Chromium	0.0028	ND	ND	ND	ND	0.0076	0.0029	0.0026	ND	ND	ND
		Cobalt	ND	ND	ND	ND	0.555	0.0142	ND	ND	ND	ND	ND
		Copper	0.0037	ND	ND	0.0022	0.0137	0.0118	0.0068	0.007	ND	ND	ND
		Iron	ND	ND	ND	ND	0.713	1.83	0.514	ND	ND	ND	ND
		Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Magnesium	2.89	1.12	2.86	21.6	71.1	50.8	42.7	5.08	6.46	4.36	8.02
		Manganese	0.0478	0.0024	0.0048	0.0434	43.8	1.85	0.105	0.0284	0.0072	0.0081	ND
		Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Nickel	0.0041	ND	ND	0.0022	0.0661	0.0095	0.0052	ND	0.0035	0.0025	ND
		Potassium	1.46	0.782	1.19	2.56	4.04	4.08	10.4	0.786	0.931	0.627	0.762
		Selenium	ND	ND	ND	ND	ND	0.0042	0.0032	ND	ND	ND	ND
		Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Sodium	4.63	3.12	17.4	29	112	49.4	83.8	4.22	8.14	4.94	8.75
		Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Vanadium	ND	ND	ND	0.0021	0.0023	ND	0.0024	ND	0.0021	ND	0.0034
		Zinc	0.014	ND	0.003	0.0037	0.0403	0.0188	0.0104	0.0068	0.0053	0.0028	ND

ND: Not Detected

TABLE A - Filtered and Unfiltered Sampling Results for Metals

Parameter			Monitoring Well					
			MW12	MW13A	MW13B	Minimum	Maximum	Average
	UNFILTERED	Antimony	ND	ND	ND	ND	ND	ND
		Arsenic	ND	ND	ND	0.00217	0.00652	0.0044
		Barium	0.255	0.205	0.0734	0.0073	0.478	0.1446
		Beryllium	ND	ND	ND	ND	ND	ND
		Cadmium	ND	ND	ND	0.0128	0.0128	0.0128
		Calcium	26.5	28.1	83.5	4.17	176	69.2743
		Chromium	ND	ND	0.0029	0.00214	0.00924	0.0047
		Cobalt	ND	0.0085	ND	0.00213	0.57	0.0541
		Copper	0.002	0.0067	ND	0.002	0.167	0.0174
		Iron	ND	0.871	0.419	0.234	28	3.8254
		Lead	ND	ND	ND	ND	ND	ND
		Magnesium	11.4	19.6	28.9	1.83	144	39.6183
		Manganese	0.0256	0.283	0.0352	0.00877	45.5	4.6848
		Mercury	ND	ND	ND	0.000371	0.000792	0.0005
		Nickel	0.0034	0.0103	0.0045	0.00205	0.102	0.0184
		Potassium	2.16	2.32	3.25	0.768	86.3	7.4066
		Selenium	ND	ND	0.0025	0.00205	0.0339	0.0109
		Silver	ND	ND	ND	ND	ND	ND
		Sodium	50.8	14.8	17.4	3.84	547	66.1117
		Thallium	ND	ND	ND	ND	ND	ND
		Vanadium	0.0025	ND	ND	0.00225	0.0108	0.0045
		Zinc	0.0132	0.0158	ND	0.00206	0.0439	0.0145
	FILTERED	Antimony	ND	ND	ND	ND	ND	ND
		Arsenic	ND	ND	ND	0.0021	0.0071	0.0040
		Barium	0.245	0.189	0.0726	0.0085	0.4980	0.1477
		Beryllium	ND	ND	ND	ND	ND	ND
		Cadmium	ND	ND	ND	0.0122	0.0122	0.0122
		Calcium	26.5	25.9	87.1	2.4700	176.0000	68.0664
		Chromium	ND	0.0051	0.0052	0.0021	0.0096	0.0051
		Cobalt	ND	0.0081	ND	0.0020	0.5550	0.0550
		Copper	0.0037	ND	ND	0.0022	0.0408	0.0105
		Iron	ND	ND	0.414	0.2070	26.0000	3.9812
		Lead	ND	ND	ND	ND	ND	ND
		Magnesium	11.6	18.4	30.4	1.1200	135.0000	39.4383
		Manganese	0.0196	0.293	0.034	0.0024	43.8000	4.6490
		Mercury	ND	ND	ND	ND	ND	ND
		Nickel	0.0033	0.0091	0.005	0.0022	0.0908	0.0171
		Potassium	2.18	2.08	3.38	0.6270	78.2000	7.0585
		Selenium	ND	0.0021	0.0029	0.0021	0.0336	0.0105
		Silver	ND	ND	ND	ND	ND	ND
		Sodium	51.1	14.1	18.3	3.1200	532.0000	65.1728
		Thallium	ND	ND	ND	ND	ND	ND
		Vanadium	0.0031	ND	ND	0.0021	0.0047	0.0031
		Zinc	0.0135	0.013	ND	0.0023	0.0413	0.0123

ND: Not Detected

Appendix E

Table of Groundwater Elevations and Groundwater Elevation Contour Map

Results in (ft. AMSL)

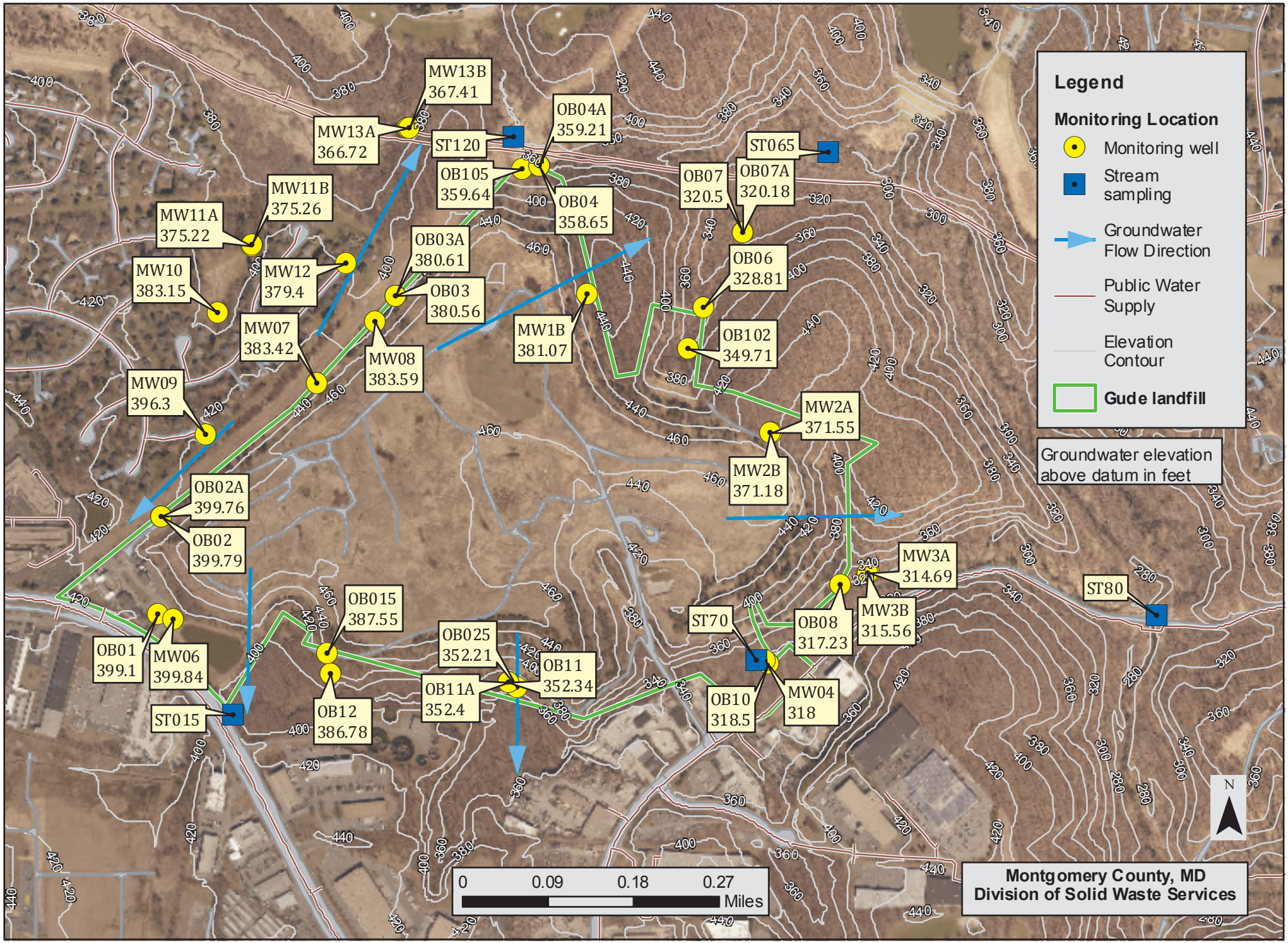
TABLE 5 - Water Table Elevations
Gude Landfill

Monitoring Well	Well Elevation (ft)	Fall 2015 Water Elevation (ft)	Spring 2016 Water Elevation (ft)	Fall 2016 Water Elevation (ft)	Spring 2017 Water Elevation (ft)	Elevation Change From Fall 2016 (ft)	Spring 2017 Measured Water Elevation From Ground Level (ft)
OB01	415.90	399.40	401.84	399.96	399.10	-0.9	16.80
OB02	418.48	400.31	403.28	400.73	399.79	-0.9	18.69
OB02A	418.61	400.22	403.45	400.65	399.76	-0.9	18.85
OB03	409.86	384.25	386.18	383.14	380.56	-2.6	29.30
OB03A	410.06	384.24	386.17	383.08	380.61	-2.5	29.45
OB04	364.21	358.57	359.42	358.41	358.65	0.2	5.56
OB04A	365.37	359.19	360.06	359.06	359.21	0.1	6.16
OB06	339.78	328.63	330.59	328.40	328.81	0.4	10.97
OB07	329.49	319.60	322.50	319.66	320.50	0.8	8.99
OB07A	328.44	319.00	321.96	319.20	320.18	1.0	8.26
OB08	325.11	318.00	318.40	317.51	317.23	-0.3	7.88
OB08A	325.31	317.65	318.04	317.19	316.89	-0.3	8.42
OB10	325.77	318.27	318.85	318.29	318.50	0.2	7.27
OB102	363.17	350.96	351.45	353.29	349.71	-3.6	13.46
OB105	363.45	359.66	360.39	354.02	359.64	5.6	3.81
OB11	362.56	352.79	353.91	343.36	352.34	9.0	10.22
OB11A	361.90	352.44	353.42	338.52	352.40	13.9	9.50
OB12	405.01	385.26	388.54	395.39	386.78	-8.6	18.23
OB015	410.01	386.07	390.45	397.19	387.55	-9.6	22.46
OB025	361.89	352.10	354.17	357.97	352.21	-5.8	9.68
MW1B	434.00	387.58	383.79	383.44	381.07	-2.4	52.93
MW2A	445.53	381.99	374.97	375.27	371.55	-3.7	73.98
MW2B	444.45	382.01	374.59	375.40	371.18	-4.2	73.27
MW3A	324.54	314.89	315.45	314.59	314.69	0.1	9.85
MW3B	324.73	315.28	317.07	316.30	315.56	-0.7	9.17
MW04	324.75	317.93	318.35	317.77	318.00	0.2	6.75
MW06	417.29	400.31	402.76	400.77	399.84	-0.9	17.45
MW07	433.81	387.91	388.37	386.13	383.42	-2.7	50.39
MW08	412.66	387.40	389.92	386.31	383.59	-2.7	29.07
MW09	417.69	397.09	400.05	397.19	396.30	-0.9	21.39
MW10	394.03	383.56	387.30	383.45	383.15	-0.3	10.88
MW11A	393.45	374.79	379.66	374.86	375.22	0.4	18.23
MW11B	393.40	374.22	377.68	374.43	375.26	0.8	18.14
MW12	397.55	380.85	383.77	380.33	379.40	-0.9	18.15
MW13A	373.37	365.60	367.52	366.02	366.72	0.7	6.65
MW13B	373.35	366.49	368.24	366.87	367.41	0.5	5.94
AVERAGE						**-0.6**	

NOTES:
- Elevations are from Sea Level

SPRING 2017

General Groundwater Flow Direction at Gude Landfill - Spring 2017



Appendix F

Statistical Analysis

EA Project No. 14982.01

Topic: Statistical Analysis Summary: Spring 2017 Semi-Annual Groundwater Sampling
Gude Landfill, Montgomery County

Date: 19 June 2017

INTRODUCTION

EA Engineering, Science, and Technology, Inc., PBC (EA) performed statistical analysis for Gude Landfill groundwater monitoring data as a supplement to the Spring 2017 Semi-Annual Groundwater Monitoring Report. The purpose of this Technical Memorandum is to present the statistical trends in concentrations observed following the March 2017 sampling event. Statistical analysis was performed for wells within the Gude Landfill groundwater monitoring network using data collected from 2001 through March 2017, when available. Groundwater monitoring wells OB01, OB02, OB02A, OB03, OB03A, OB04, OB04A, OB06, OB07, OB07A, OB08, OB08A, OB10, OB11, OB11A, OB12, OB015, OB025, OB102, and OB105 were installed between 1984 and 1988. The statistical trend analysis for these wells used monitoring data since 2001. Groundwater monitoring wells MW-1B, MW-2A, MW-2B, MW-3A, MW-3B, MW-4, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11A, MW-11B, MW-12, MW-13A, and MW-13B were installed in 2010 and first sampled in July 2010. All available data were used in the statistical analysis for these wells.

Groundwater monitoring wells MW-14A, MW-14B, and MW-15 were installed in 2011 and only sampled once, in September 2011. Twelve (12) additional groundwater monitoring wells (MW-16A, MW-16B, MW-19A, MW-19B, MW-21A, MW-21B, MW-22A, MW-22B, MW-23A, MW-23B, MW-24A, and MW-24B) were installed in January through March 2017. Statistical analysis was not performed on these wells due to insufficient data for the analysis.

Low-flow groundwater sampling methods were employed beginning with the Spring 2015 event and will continue to be utilized by Montgomery County (the County) during future monitoring events. Previously, three (3) volume well purge methods, which use higher flow rates, had been used. Higher flow rates can be associated with higher turbidity and can impact concentrations of constituents in groundwater samples. As a result, this change in methodologies may require further evaluation and potential modification of the statistical methods used as part of the semi-annual groundwater evaluation.

Intrawell statistical analysis was performed. Interwell statistical analysis was not performed due to insufficient data from an offsite/background well. If interwell analysis is required in the future, background data will need to be collected from an offsite/background well, such as MW-14A/B.

The methodologies and results of the statistical analysis are provided below.

STATISTICAL ANALYSIS METHODOLOGY

Gude Landfill ceased accepting waste in 1982 and is therefore only governed by the state of Maryland under the Code of Maryland Regulations (COMAR) and as directed by the Maryland Department of the Environment. Since 1982, the County has voluntarily, or through regulatory mandates, implemented and maintained Best Management Practices (BMPs) for pre-regulatory era landfills to ensure compliance with COMAR requirements, including routine monitoring of groundwater and surface water. Part of routine water monitoring includes statistical analysis of groundwater data.

Interwell statistical analysis, if performed, would measure the statistical difference between constituent concentrations in off-site/background monitoring well(s) and down-gradient monitoring wells, whereas intrawell statistical analysis measures the statistical change in constituent concentrations in each individual well over time. Due to the lack of data for an off-site/background well, the intrawell Mann-Kendall test for trend, which is consistent with the United States Environmental Protection Agency (EPA) Unified Guidance (EPA 2009), was used to evaluate potential trends in the data.

The Mann-Kendall test for monotonic trend (Gilbert 1987) was used to identify constituents with concentrations that display an increasing or decreasing trend over time, at the ninety-five (95) percent significance level. The basic principle of the Mann-Kendall test is to examine the sign of pairwise differences of observed values. The test does not have distributional assumptions (i.e., it does not require the data to be normally distributed or follow any other distribution) and the test also can handle non-detects and irregular sampling intervals. The data are ordered by sampling date for each well/parameter pair, and each concentration is compared to previous/historical concentrations. The test statistics are calculated based on the number of increases and decreases from one sampling event to another. The significance probability of an increasing or decreasing trend is then calculated from the test statistic and the number of sampling events for each well/parameter pair. Reported concentrations less than the laboratory detection limit were treated as zero (0). Exact two-sided probabilities for the null distribution of the Mann-Kendall test were obtained from Hollander and Wolfe (1973). The null hypothesis of no trend was evaluated against the two-sided alternative hypothesis. Rejection of the null hypothesis at the ninety-five (95) percent significance level (i.e., two-sided $p < 0.05$) led to the conclusion that the monitoring data contain a statistically significant trend. Statistically significant trends were characterized as increasing ($S > 0$) or decreasing ($S < 0$).

The statistical test does not evaluate the magnitude of the increase or decrease associated with the results of the analysis.

A trend analysis was performed for each chemical constituent at every monitoring well if:

1. The monitoring well had been sampled on at least four (4) independent time periods.
2. At least four (4) sample results exceeded the analytical laboratory detection limit.

GROUNDWATER TREND RESULTS

Trend analysis results for volatile organic compounds (VOCs), metals, and general indicator parameters in groundwater are discussed in this section. Table 1 identifies parameters with statistically increasing trends, and Table 2 identifies parameters with statistically decreasing trends.

Volatile Organic Compounds

Twelve (12) VOCs were identified as having increasing statistical trends, and sixteen (16) of the monitoring wells had one (1) or more VOCs with increasing statistical trends (Table 1). Twelve (12) VOCs were identified as having decreasing trends, and fourteen (14) of the monitoring wells had one (1) or more VOCs with decreasing statistical trends (Table 2). Eight (8) VOCs (benzene; chlorobenzene; 1,1-dichloroethane; 1,2-dichloropropane; cis-1,2-dichloroethene; methylene chloride; tetrachloroethene; vinyl chloride) had both decreasing and increasing trends. Four (4) VOCs had only increasing trends: 1,2-dichlorobenzene (OB03, OB11, OB11A); 1,4-dichlorobenzene (OB03, OB03A, OB04, OB04A, OB08, OB08A, OB10, OB11, OB11A, OB12, OB105); 1,2-dichloroethane (OB11, OB12); and trans-1,2-dichloroethene (OB10, OB12). Four (4) VOCs had only decreasing trends: chloroethane (OB03, OB03A), dichlorodifluoromethane (MW-13A, MW-13B, OB03, OB03A, OB10, OB11, OB11A), trichloroethene (MW-13B, OB01, OB02A, OB03, OB08A, OB11A), and trichlorofluoromethane (OB11A).

Metals

Twenty-five (25) metals (total and dissolved) were identified as having increasing statistical trends, and eighteen (18) of the monitoring wells had one (1) or more metals with increasing statistical trends (Table 1). Twenty-nine (29) metals (total and dissolved) were identified as having decreasing statistical trends, and thirty-one (31) of the monitoring wells had one (1) or more metals with decreasing statistical trends (Table 2). The trend analysis does not indicate an overall trend of improvement or degradation in the groundwater quality with respect to metals concentrations. Beginning with the Spring 2015 sampling event, low-flow groundwater sampling methods were employed due to issues with high metal concentrations potentially related to high turbidity. Future data will be assessed to determine whether the reported concentrations of metals in samples collected using low-flow sampling methods are consistently lower than the concentrations reported using the old methodology. If such a difference is observed, the changed sampling methodology could result in artificial decreasing trends in total metals, which do not reflect changes in groundwater chemistry. If needed, the statistical methods used as part of the semi-annual groundwater evaluation could be modified to address such artificial trends. In order to conduct meaningful comparisons, it is recommended that a minimum of four (4) years of low-flow sampling (8 events) be collected before conducting hypothesis testing to compare the low-flow methodology to those obtained using three (3) well volume purge methods.

General Indicator Parameters

Twenty-seven (27) monitoring well locations were determined to have statistically increasing trends for one (1) or more general indicator parameters (Table 1), and thirty (30) monitoring well locations were determined to have statistically decreasing trends for general indicator parameters (Table 2). Wells that did not exhibit statistically increasing general indicator parameters, but had other statistically increasing trends include OB025 and OB105.

REFERENCES

Gilbert, R.O. 1987. *Statistical methods for environmental pollution monitoring*. Van Nostrand Reinhold, New York.

Hollander, M. and D. A. Wolfe. 1973. *Nonparametric Statistical Methods.* Wiley, New York.

United States Environmental Protection Agency (EPA). 2009. *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities Unified Guidance*. EPA/530/R-09-007. March.

Attachments:
Tables

Tables

Table 1
Gude Landfill Groundwater Monitoring Data
Chemical Constituents with Statistically Significant Increasing Trends
(2001 through March 2017)

	GROUNDWATER MONITORING WELL LOCATIONS																											
Parameter	MW-2A	MW-4	MW-6	MW-8	MW-9	MW-10	MW-11A	MW-11B	MW-12	MW-13A	MW-13B	OB01	OB02A	OB03	OB03A	OB04	OB04A	OB06	OB07	OB07A	OB08	OB08A	OB10	OB11	OB11A	OB12	OB025	OB102	OB105
1,1-Dichloroethane																										X			
1,2-Dichlorobenzene														X										X	X				
1,2-Dichloroethane																								X		X			
1,2-Dichloropropane																										X			
1,4-Dichlorobenzene														X	X	X	X				X	X	X	X	X	X			X
Benzene																X	X									X			
Chlorobenzene																X	X	X			X	X	X			X		X	
cis-1,2-Dichloroethene																			X		X					X	X		X
Methylene Chloride																X													
Tetrachloroethene								X																					
trans-1,2-Dichloroethene																							X			X			
Vinyl Chloride																							X		X				
Arsenic, dissolved																						X							
Arsenic, total																	X												
Barium, dissolved			X									X					X				X								
Barium, total												X	X			X	X				X		X					X	X
Cadmium, dissolved																								X					
Cadmium, total																								X					
Calcium, dissolved			X									X							X				X		X	X			
Calcium, total			X									X				X	X		X				X		X	X			
Cobalt, dissolved			X							X																			
Cobalt, total												X									X	X	X						X
Copper, total																X													
Iron, dissolved			X																										
Magnesium, dissolved			X									X											X	X	X				
Magnesium, total												X							X				X	X	X				
Manganese, dissolved			X													X	X	X	X				X	X	X				
Manganese, total												X	X	X		X	X	X	X				X	X	X				X
Mercury, total																			X					X					
Nickel, dissolved			X																										
Nickel, total												X	X			X	X						X	X				X	X
Potassium, dissolved												X																X	
Potassium, total												X											X					X	
Selenium, dissolved																									X				
Selenium, total																X	X	X	X	X				X				X	X
Sodium, dissolved			X									X						X						X	X				
Sodium, total												X						X					X	X					
Alkalinity																		X	X					X	X	X			
Ammonia Nitrogen																X						X						X	
Chemical Oxygen Demand																X													
Chloride		X	X		X			X		X	X	X	X	X		X	X	X	X	X			X	X	X	X			
Hardness	X											X	X			X	X		X				X			X			
Nitrate		X						X			X	X	X						X										
Nitrate+Nitrite		X					X	X			X	X	X																
Phosphate																			X	X		X							
Specific Conductivity, Field			X									X					X	X							X				
Sulfate, total		X		X		X			X		X							X	X		X			X					
Temperature, field																		X											
Turbidity, Field															X														

Notes:

1. Monitoring wells MW-1B, MW-2B, MW-3A, MW-3B, MW-7, OB02, and OB015 had no parameters with increasing trends

1. Existing monitoring wells MW-1B, MW-2A, MW- 2B, MW-3A, MW-3B, MW-4, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11A, MW-11B, MW-12, MW-13A and MW-13B were first sampled in 2010.

Table 2
Gude Landfill Groundwater Monitoring Data
Chemical Constituents with Statistically Significant Decreasing Trends
(2001 through March 2017)

	GROUNDWATER MONITORING WELL LOCATIONS																																				
Parameter	MW-1B	MW-2A	MW-2B	MW-3A	MW-3B	MW-4	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11A	MW-11B	MW-12	MW-13A	MW-13B	OB01	OB02	OB02A	OB03	OB03A	OB04	OB04A	OB06	OB07	OB07A	OB08	OB08A	OB10	OB11	OB11A	OB12	OB015	OB025	OB102	OB105
1,1-Dichloroethane																	X																			
1,2-Dichloropropane																	X																			
Benzene															X	X				X	X										X					
Chlorobenzene																				X	X										X					
Chloroethane																				X	X															
cis-1,2-Dichloroethene																	X	X	X					X		X										
Dichlorodifluoromethane															X	X				X	X								X	X	X					
Methylene Chloride															X																X					
Tetrachloroethene															X	X				X	X										X					
Trichloroethene																X	X		X	X								X			X					
Trichlorofluoromethane																															X					
Vinyl Chloride															X	X	X															X				
Arsenic, total																				X	X															
Barium, dissolved		X		X					X					X						X	X															
Barium, total				X	X	X			X		X	X		X						X	X				X							X	X			
Cadmium, total																															X					
Calcium, dissolved	X			X						X				X																		X				
Calcium, total				X						X				X																		X				
Chromium, total				X								X																				X				
Cobalt, dissolved																					X															
Cobalt, total				X								X									X										X		X			
Copper, dissolved														X																X	X			X		
Copper, total	X			X	X		X		X		X	X					X	X	X	X	X					X	X	X	X	X		X	X			
Iron, dissolved														X				X			X															
Iron, total	X			X		X			X			X								X																
Lead, total				X	X		X					X																					X			
Magnesium, dissolved	X			X	X									X																						
Magnesium, total				X							X	X		X																			X			
Manganese, dissolved					X					X		X															X							X		
Manganese, total	X			X		X			X		X	X		X																			X			
Mercury, total																																X				
Nickel, dissolved						X								X	X																					
Nickel, total						X			X					X							X											X				
Potassium, dissolved	X				X									X																	X		X			
Potassium, total	X			X	X							X		X										X							X		X			
Selenium, total							X																													
Sodium, dissolved	X				X				X						X												X									
Sodium, total	X		X	X	X				X						X											X	X								X	
Vanadium, total				X	X							X																								
Zinc, dissolved								X												X		X		X					X	X						
Zinc, total	X		X	X	X	X	X	X	X		X	X		X							X			X				X		X	X			X	
Alkalinity							X									X	X										X									
Chemical Oxygen Demand																																			X	
Chloride									X					X																						
Hardness														X																					X	
Nitrate								X							X									X								X				
Nitrate+Nitrite								X							X									X								X				
Nitrite																								X												
ORP, Field	X										X		X	X													X						X			
pH, Field						X																							X							
Sulfate, total																															X					X
Total Dissolved Solids		X				X		X	X					X	X	X				X	X	X	X	X		X		X		X			X		X	
Turbidity, Field									X	X		X											X												X	X

Notes:
1. Existing monitoring wells MW-1B, MW-2A, MW- 2B, MW-3A, MW-3B, MW-4, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11A, MW-11B, MW-12, MW-13A and MW-13B were first sampled in 2010.